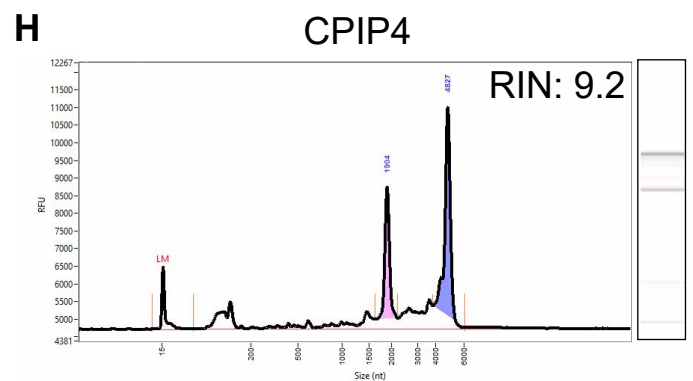
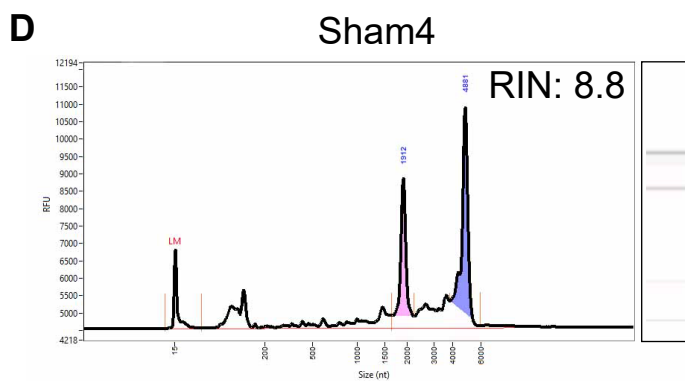
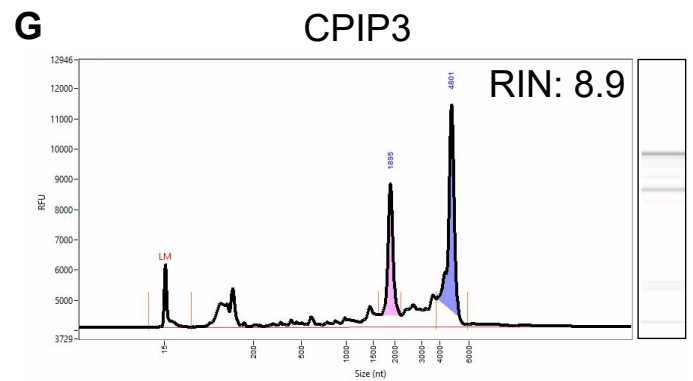
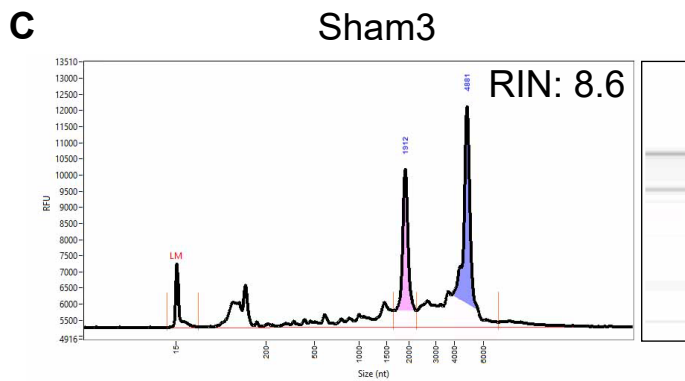
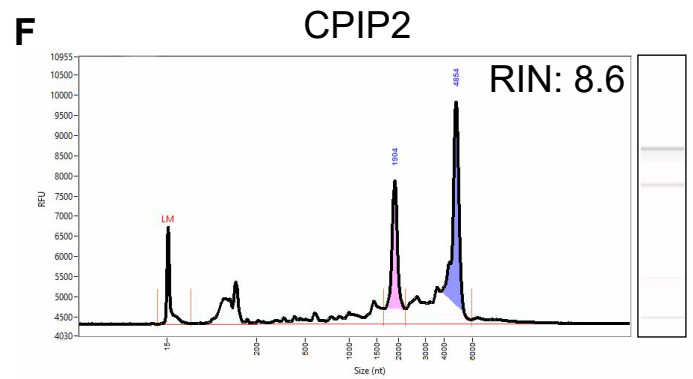
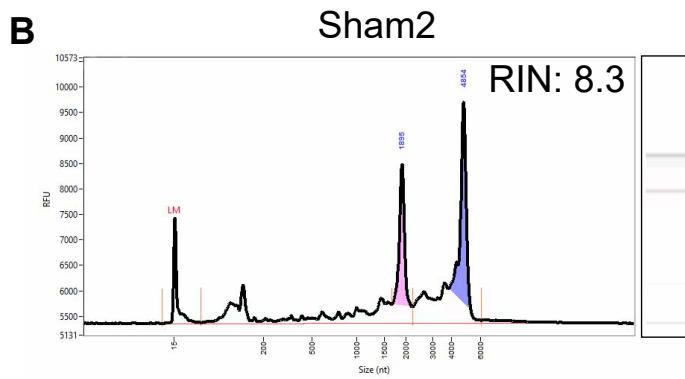
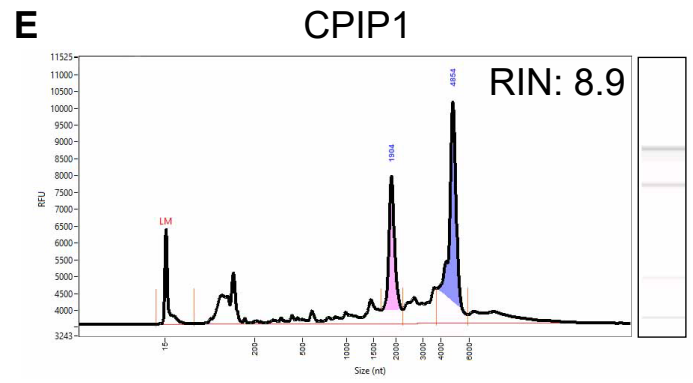
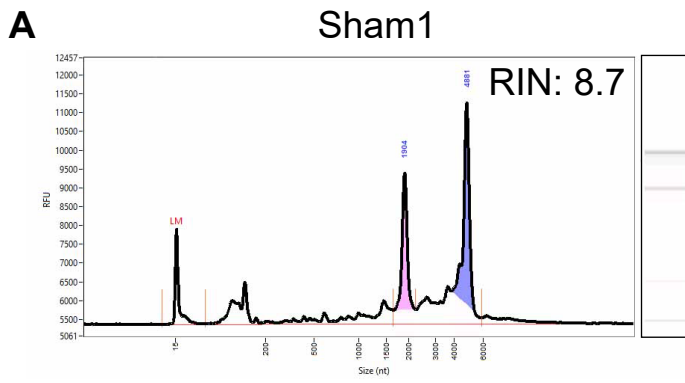
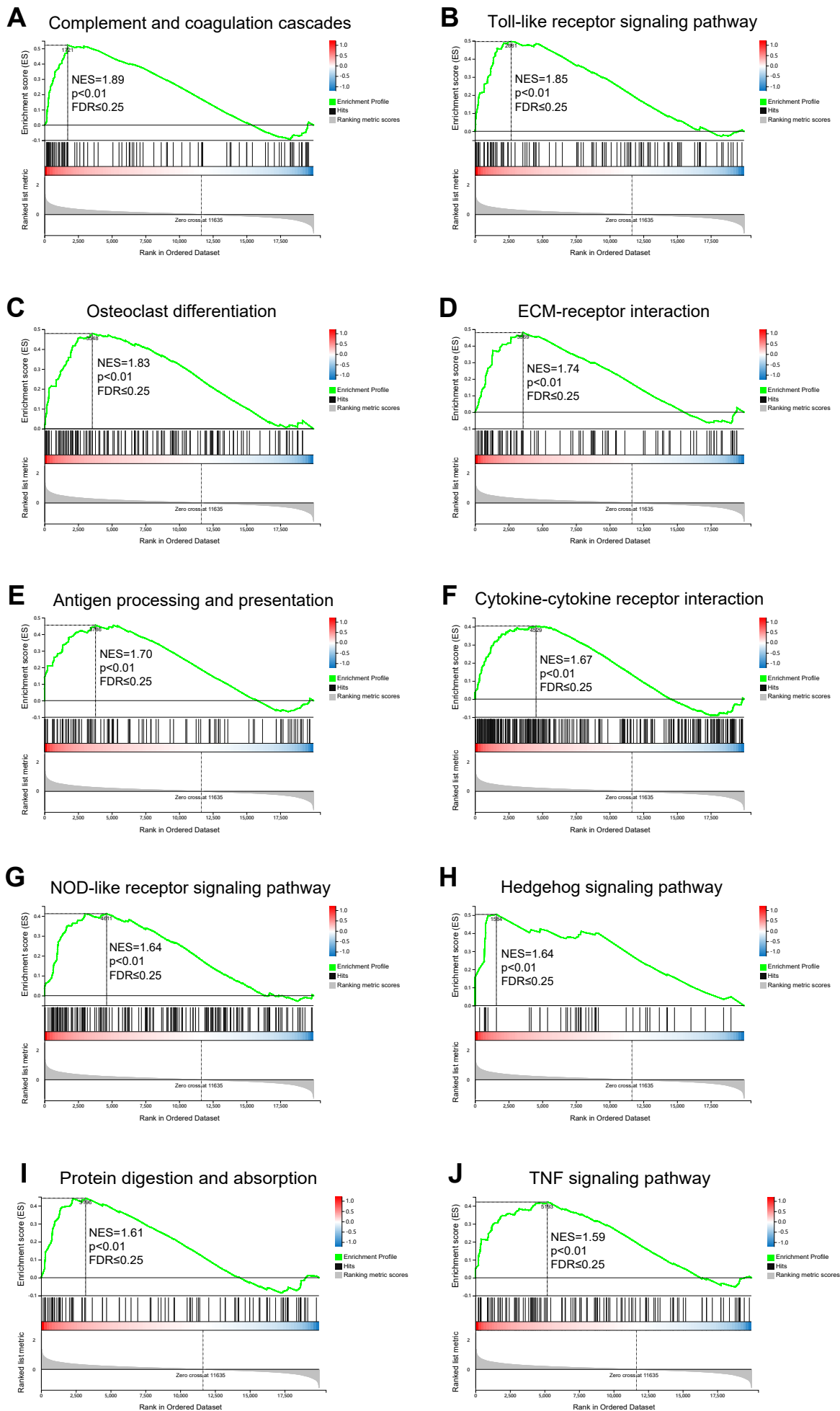


Contralateral DRG



Suppl. Fig. 1 We managed to obtain high quality RNA for RNA-Seq analysis.



Suppl. Fig. 2 The top 10 most significantly upregulated pathways from GSEA analysis. $FDR \leq 0.25$ and $NES > 1.0$ were adopted as the criterion for judging significance

Suppl. Table 1 Human pain genes

Feature.ID	gene_symbol	gene_name
ENSRNOG00000016043	Aqp4	aquaporin 4 [Source:RGD Symbol;Acc:2143]
ENSRNOG00000002919	Gfap	glial fibrillary acidic protein [Source:RGD Symbol;Acc:2679]
ENSRNOG00000011207	Gh1	growth hormone 1 [Source:RGD Symbol;Acc:2686]
ENSRNOG00000008310	Mpo	myeloperoxidase [Source:RGD Symbol;Acc:1592081]
ENSRNOG00000017374	Prl	prolactin [Source:RGD Symbol;Acc:3403]
ENSRNOG00000012686	Pomc	proopiomelanocortin [Source:RGD Symbol;Acc:3366]
ENSRNOG00000017539	Mmp9	matrix metalloproteinase 9 [Source:RGD Symbol;Acc:621320]
ENSRNOG00000018808	Vip	vasoactive intestinal peptide [Source:RGD Symbol;Acc:621647]
ENSRNOG00000006641	Dbh	dopamine beta-hydroxylase (dopamine beta-monooxygenase) [Source:RGD Symbol;Acc:62046]
ENSRNOG00000012471	Thbs4	thrombospondin 4 [Source:RGD Symbol;Acc:62046]
ENSRNOG00000018445	Agt	angiotensinogen (serpin peptidase inhibitor, clade A, member 8) [Source:RGD Symbol;Acc:621822]
ENSRNOG00000016311	Slc6a2	solute carrier family 6 (neurotransmitter transporter), member 2 [Source:RGD Symbol;Acc:621822]
ENSRNOG00000000694	Dao	D-amino-acid oxidase [Source:RGD Symbol;Acc:621138]
ENSRNOG000000037852	Pirt	phosphoinositide-interacting regulator of transient receptor potential channels [Source:RGD Symbol;Acc:1565284]
ENSRNOG00000004089	Enpp2	ectonucleotide pyrophosphatase/phosphodiesterase 2 [Source:RGD Symbol;Acc:69298]
ENSRNOG00000018285	Kcna2	potassium voltage-gated channel, shaker-related subfamily, member 2 [Source:RGD Symbol;Acc:2950]
ENSRNOG00000005309	Scn8a	sodium channel, voltage gated, type VIII, alpha subunit [Source:RGD Symbol;Acc:3638]
ENSRNOG00000005989	Scn1a	sodium channel, voltage-gated, type I, alpha subunit [Source:RGD Symbol;Acc:69364]
ENSRNOG00000006639	Scn9a	sodium channel, voltage-gated, type IX, alpha subunit [Source:RGD Symbol;Acc:69368]
ENSRNOG000000033531	Cacna2d1	calcium channel, voltage-dependent, alpha2/delta subunit 1 [Source:RGD Symbol;Acc:2118]
ENSRNOG00000017469	Anxa1	annexin A1 [Source:RGD Symbol;Acc:2118]
ENSRNOG00000015550	Ptgds	prostaglandin D2 synthase (brain) [Source:RGD Symbol;Acc:3433]
ENSRNOG00000009348	Nos3	nitric oxide synthase 3, endothelial cell [Source:RGD Symbol;Acc:3186]
ENSRNOG00000014938	Gabrb3	gamma-aminobutyric acid (GABA) A receptor, beta 3 [Source:RGD Symbol;Acc:2651]

ENSRNOG00000014938	Gabrb3	gamma-aminobutyric acid (GABA) A receptor, beta 3 [Source:RGD Symbol;Acc:2651]
ENSRNOG00000016654	Galr1	galanin receptor 1 [Source:RGD
ENSRNOG00000008431	Gabbr2	gamma-aminobutyric acid (GABA) B receptor 2 [Source:RGD Symbol;Acc:619864]
ENSRNOG00000019482	Gnao1	guanine nucleotide binding protein (G protein), alpha activating activity polypeptide O [Source:RGD Symbol;Acc:628732]
ENSRNOG00000005369	Kcnj3	potassium inwardly-rectifying channel, subfamily J, member 3 [Source:RGD
ENSRNOG00000032473	Scn10a	sodium channel, voltage-gated, type X, alpha subunit [Source:RGD Symbol;Acc:3629]
ENSRNOG00000012972	Alox5	arachidonate 5-lipoxygenase [Source:RGD Symbol;Acc:2096]
ENSRNOG00000016575	Tnfrsf1b	tumor necrosis factor receptor superfamily, member 1b [Source:RGD Symbol;Acc:621238]
ENSRNOG00000020652	Tgfb1	transforming growth factor, beta 1 [Source:RGD Symbol;Acc:69051]
ENSRNOG00000003622	Cybb	cytochrome b-245, beta polypeptide [Source:RGD Symbol;Acc:620574]
ENSRNOG00000000782	Trim10	tripartite motif-containing 10 [Source:RGD Symbol;Acc:1359438]
ENSRNOG00000007354	Trpa1	transient receptor potential cation channel, subfamily A, member 1 [Source:RGD Symbol;Acc:1303284]
ENSRNOG00000019035	Trpm8	transient receptor potential cation channel, subfamily M, member 8 [Source:RGD Symbol;Acc:620762]
ENSRNOG00000019750	Kcna1	potassium voltage-gated channel, shaker-related subfamily, member 1 [Source:RGD Symbol;Acc:2949]
ENSRNOG00000050006	Agtr2	angiotensin II receptor, type 2 [Source:RGD Symbol;Acc:2072]
ENSRNOG00000014294	Ptpn6	protein tyrosine phosphatase, non-receptor type 6 [Source:RGD Symbol;Acc:620660]
ENSRNOG00000037274	L1cam	L1 cell adhesion molecule [Source:RGD Symbol;Acc:619777]
ENSRNOG00000005917	Pawr	PRKC, apoptosis, WT1, regulator [Source:RGD Symbol;Acc:69065]
ENSRNOG00000016163	Slc1a3	solute carrier family 1 (glial high affinity glutamate transporter), member 3 [Source:RGD Symbol;Acc:3698]
ENSRNOG00000008223	Cnr1	cannabinoid receptor 1 (brain) [Source:RGD Symbol;Acc:2369]
ENSRNOG00000006715	Ccr1	chemokine (C-C motif) receptor 1 [Source:RGD Symbol;Acc:708446]
ENSRNOG00000004560	Cacna1b	calcium channel, voltage-dependent, N type, alpha 1B subunit [Source:RGD
ENSRNOG00000018191	Oprm1	opioid receptor, mu 1 [Source:RGD Symbol;Acc:3234]
ENSRNOG00000000442	Notch4	notch 4 [Source:RGD Symbol;Acc:1303282]

ENSRNOG00000000436	Egfl8	EGF-like-domain, multiple 8 [Source:RGD Symbol;Acc:1549706]
ENSRNOG00000000463	Col11a2	collagen, type XI, alpha 2 [Source:RGD Symbol;Acc:2373]
ENSRNOG00000018369	Prx	periaxin [Source:RGD Symbol;Acc:619960]
ENSRNOG00000027037	Alox12	arachidonate 12-lipoxygenase [Source:RGD Symbol;Acc:1311159]
ENSRNOG00000012662	Lyst	lysosomal trafficking regulator [Source:MGI Symbol;Acc:MGI:107448]
ENSRNOG00000005871	Il1rn	interleukin 1 receptor antagonist [Source:RGD Symbol;Acc:621159]
ENSRNOG00000009956	Wnk1	WNK lysine deficient protein kinase 1 [Source:RGD Symbol;Acc:621141]
ENSRNOG00000000187	Csf2rb	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage) [Source:RGD Symbol;Acc:620189]
ENSRNOG00000015773	Il21r	interleukin 21 receptor [Source:RGD Symbol;Acc:1304950]
ENSRNOG00000031665	Ace2	angiotensin I converting enzyme 2 [Source:RGD Symbol;Acc:728890]
ENSRNOG00000004118	Frmpd4	FERM and PDZ domain containing 4 [Source:RGD Symbol;Acc:1566031]
ENSRNOG00000000599	Lama4	laminin, alpha 4 [Source:RGD Symbol;Acc:1560062]
ENSRNOG00000045952	Ephb4	EPH receptor B4 [Source:RGD Symbol;Acc:1583193]
ENSRNOG00000021031	Grn	granulin [Source:RGD Symbol;Acc:61983]
ENSRNOG00000011680	Il16	interleukin 16 [Source:RGD
ENSRNOG00000011522	Hcn1	hyperpolarization-activated cyclic nucleotide-gated potassium channel 1 [Source:RGD Symbol;Acc:620688]
ENSRNOG00000003491	Prkca	protein kinase C, alpha [Source:RGD Symbol;Acc:3395]
ENSRNOG00000013463	Kcnj8	potassium inwardly-rectifying channel, subfamily J, member 8 [Source:RGD
ENSRNOG00000005196	Slc12a6	solute carrier family 12, member 6 [Source:RGD Symbol;Acc:1311335]
ENSRNOG00000016147	Slc17a6	solute carrier family 17 (vesicular glutamate transporter), member 6 [Source:RGD Symbol;Acc:620531]
ENSRNOG00000003741	Nptx1	neuronal pentraxin I [Source:RGD Symbol;Acc:628894]
ENSRNOG00000047466	Bdnf	brain-derived neurotrophic factor [Source:RGD Symbol;Acc:2202]
ENSRNOG00000027770	Trpm3	transient receptor potential cation channel, subfamily M, member 3 [Source:RGD Symbol;Acc:1304888]
ENSRNOG00000018054	F2rl2	coagulation factor II (thrombin) receptor-like 2 [Source:RGD Symbol;Acc:620871]
ENSRNOG00000015603	Prkce	protein kinase C, epsilon [Source:RGD Symbol;Acc:61925]

ENSRNOG00000004630	Rag1	recombination activating gene 1 [Source:RGD Symbol;Acc:619790]
ENSRNOG00000018839	Ntrk2	neurotrophic tyrosine kinase, receptor, type 2 [Source:RGD Symbol;Acc:3213]
ENSRNOG00000014427	Chrn4	cholinergic receptor, nicotinic, beta 4 (neuronal) [Source:RGD Symbol;Acc:2351]
ENSRNOG00000014183	Gnaq	guanine nucleotide binding protein (G protein), q polypeptide [Source:RGD Symbol;Acc:620770]
ENSRNOG00000016112	Cd274	CD274 molecule [Source:RGD Symbol;Acc:1566211]
ENSRNOG00000033581	Tnxb	tenascin XB [Source:MGI Symbol;Acc:MGI:1932137]
ENSRNOG00000046242	Klf7	Kruppel-like factor 7 (ubiquitous) [Source:RGD Symbol;Acc:1306029]
ENSRNOG00000006632	Rps6ka3	ribosomal protein S6 kinase polypeptide 3 [Source:RGD Symbol;Acc:1563860]
ENSRNOG00000011130	Calca	calcitonin-related polypeptide alpha [Source:RGD Symbol;Acc:2254]
ENSRNOG00000015835	Cacna2d2	calcium channel, voltage-dependent, alpha 2/delta subunit 2 [Source:RGD Symbol;Acc:620770]
ENSRNOG00000031890	Ncam1	neural cell adhesion molecule 1 [Source:RGD Symbol;Acc:67378]
ENSRNOG00000049882	Adcyap1	adenylate cyclase activating polypeptide 1 [Source:RGD Symbol;Acc:2037]
ENSRNOG00000014149	Npy1r	neuropeptide Y receptor Y1 [Source:RGD Symbol;Acc:3198]
ENSRNOG00000022635	Dlg2	discs, large homolog 2 (Drosophila) [Source:RGD Symbol;Acc:619895]
ENSRNOG00000017286	Ephx2	epoxide hydrolase 2, cytoplasmic [Source:RGD Symbol;Acc:620732]
ENSRNOG00000012840	Sparc	secreted protein, acidic, cysteine-rich (osteonectin) [Source:RGD Symbol;Acc:3742]
ENSRNOG00000016294	Cd4	Cd4 molecule [Source:RGD Symbol;Acc:2306]
ENSRNOG00000003476	Slc6a4	solute carrier family 6 (neurotransmitter transporter), member 4 [Source:RGD Symbol;Acc:3714]
ENSRNOG00000011808	Ghrhr	growth hormone releasing hormone receptor [Source:RGD Symbol;Acc:2688]
ENSRNOG00000007447	Pla2g4b	phospholipase A2, group IVB (cytosolic) [Source:RGD Symbol;Acc:1308658]
ENSRNOG00000023664	Lepr	leptin receptor [Source:RGD Symbol;Acc:3001]
ENSRNOG00000006030	Ptprz1	protein tyrosine phosphatase, receptor-type, Z polypeptide 1 [Source:RGD Symbol;Acc:3455]
ENSRNOG00000013925	Nox4	NADPH oxidase 4 [Source:RGD Symbol;Acc:620600]
ENSRNOG00000008552	P2rx3	purinergic receptor P2X, ligand-gated ion channel, 3 [Source:RGD Symbol;Acc:620253]
ENSRNOG00000002657	Pla2g4a	phospholipase A2, group IVA (cytosolic, calcium-dependent) [Source:RGD Symbol;Acc:620253]
ENSRNOG00000003300	Btg2	BTG family, member 2 [Source:RGD Symbol;Acc:2225]

ENSRNOG00000008943	Penk	proenkephalin [Source:RGD Symbol;Acc:68946]
ENSRNOG00000002981	Cacna1g	calcium channel, voltage-dependent, T type, alpha 1G subunit [Source:RGD
ENSRNOG00000008180	Lyn	LYN proto-oncogene, Src family tyrosine kinase [Source:RGD Symbol;Acc:621017]
ENSRNOG000000047800	C5ar1	complement component 5a receptor 1 [Source:RGD Symbol;Acc:70553]
ENSRNOG000000010199	Glrb	glycine receptor, beta [Source:RGD Symbol;Acc:2706]
ENSRNOG000000014152	Kcnip3	Kv channel interacting protein 3, calsenilin [Source:RGD Symbol;Acc:70888]
ENSRNOG000000003241	Gabrg2	gamma-aminobutyric acid (GABA) A receptor, gamma 2 [Source:RGD Symbol;Acc:61966]
ENSRNOG000000003241	Gabrg2	gamma-aminobutyric acid (GABA) A receptor, gamma 2 [Source:RGD Symbol;Acc:61966]
ENSRNOG000000006920	Htr3b	5-hydroxytryptamine (serotonin) receptor 3B, ionotropic [Source:RGD Symbol;Acc:61820]
ENSRNOG000000001849	Mapk1	mitogen activated protein kinase 1 [Source:RGD Symbol;Acc:70500]
ENSRNOG000000002079	Mapk10	mitogen activated protein kinase 10 [Source:RGD Symbol;Acc:3663]
ENSRNOG000000000836	Ltb	lymphotoxin beta (TNF superfamily, member 3) [Source:RGD Symbol;Acc:1303162]
ENSRNOG000000000439	Ager	advanced glycosylation end product-specific receptor [Source:RGD Symbol;Acc:69258]
ENSRNOG000000042458	Stau2	staufen double-stranded RNA binding protein 2 [Source:RGD Symbol;Acc:621479]
ENSRNOG000000012920	Col9a1	collagen, type IX, alpha 1 [Source:RGD Symbol;Acc:1309425]
ENSRNOG000000006527	Slc6a1	solute carrier family 6 (neurotransmitter transporter), member 1 [Source:RGD Symbol;Acc:620533]
ENSRNOG000000017220	Tcirg1	T-cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 subunit A3 [Source:RGD Symbol;Acc:735136]
ENSRNOG000000012961	Klf7	Kruppel-like factor 7 (ubiquitous) [Source:RGD Symbol;Acc:1306029]
ENSRNOG000000002823	Mapk9	mitogen-activated protein kinase 9 [Source:RGD Symbol;Acc:628847]
ENSRNOG000000008364	Cat	catalase [Source:RGD Symbol;Acc:2279]
ENSRNOG000000028589	Gria2	glutamate receptor, ionotropic, AMPA 2 [Source:RGD Symbol;Acc:61862]
ENSRNOG000000008574	Vdr	vitamin D (1,25-dihydroxyvitamin D3) receptor [Source:RGD Symbol;Acc:3959]
ENSRNOG000000000441	Gpsm3	G-protein signaling modulator 3 [Source:RGD Symbol;Acc:1303014]
ENSRNOG000000046731	Cacna1a	calcium channel, voltage-dependent, P/Q type, alpha 1A subunit
ENSRNOG000000006877	Efnb1	ephrin B1 [Source:RGD Symbol;Acc:2540]
ENSRNOG000000033641	Prkg1	protein kinase, cGMP-dependent, type 1 [Source:EntrezGene;Acc:54286]

ENSRNOG00000020155	Mapk8	mitogen-activated protein kinase 8 [Source:RGD Symbol;Acc:621506]
ENSRNOG00000014232	P2ry1	purinergic receptor P2Y, G-protein coupled, 1 [Source:RGD Symbol;Acc:3242]
ENSRNOG00000010665	Ccr7	chemokine (C-C motif) receptor 7 [Source:RGD Symbol;Acc:735151]
ENSRNOG00000000459	Psmb9	proteasome (prosome, macropain) subunit, beta type, 9 [Source:RGD Symbol;Acc:3427]
ENSRNOG00000030118	Msn	moesin [Source:RGD Symbol;Acc:621260]
ENSRNOG00000005392	Ngfr	nerve growth factor receptor [Source:RGD Symbol;Acc:3177]
ENSRNOG00000015654	Ghr	growth hormone receptor [Source:RGD Symbol;Acc:2687]
ENSRNOG00000029318	Tyrp1	tyrosinase-related protein 1 [Source:RGD Symbol;Acc:1593266]
ENSRNOG00000032706	Kcnk18	potassium channel, subfamily K, member 18 [Source:RGD Symbol;Acc:1303091]
ENSRNOG00000020193	Runx2	runt-related transcription factor 2 [Source:RGD Symbol;Acc:2282]
ENSRNOG00000012061	Prkcb	protein kinase C, beta [Source:RGD Symbol;Acc:3396]
ENSRNOG00000037984	Sccpdh	saccharopine dehydrogenase (putative) [Source:RGD Symbol;Acc:1311440]
ENSRNOG00000049054	Ntsr2	neurotensin receptor 2 [Source:RGD Symbol;Acc:70962]
ENSRNOG00000012721	Ednra	endothelin receptor type A [Source:RGD Symbol;Acc:2535]
ENSRNOG00000007346	Grasp	GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein [Source:RGD Symbol;Acc:70554]
ENSRNOG00000010392	Nrg1	neuregulin 1 [Source:RGD Symbol;Acc:621341]
ENSRNOG00000000855	Lst1	leukocyte specific transcript 1 [Source:RGD Symbol;Acc:620077]
ENSRNOG00000011820	Acpp	acid phosphatase, prostate [Source:RGD Symbol;Acc:2023]
ENSRNOG00000004978	Prkacb	protein kinase, cAMP dependent, catalytic, beta [Source:RGD Symbol;Acc:1310574]
ENSRNOG00000025053	Lrp1	low density lipoprotein receptor-related protein 1 [Source:RGD Symbol;Acc:1307535]
ENSRNOG00000008305	Sc5d	sterol-C5-desaturase [Source:RGD Symbol;Acc:620775]
ENSRNOG00000032659	Plcl1	phospholipase C-like 1 [Source:RGD Symbol;Acc:708420]
ENSRNOG00000023993	Kif1a	kinesin family member 1A [Source:RGD Symbol;Acc:1304996]
ENSRNOG00000007159	Ccl2	chemokine (C-C motif) ligand 2 [Source:RGD Symbol;Acc:3645]
ENSRNOG00000004517	Igf1	insulin-like growth factor 1 [Source:RGD Symbol;Acc:2868]
ENSRNOG00000000837	Tnf	tumor necrosis factor [Source:RGD Symbol;Acc:3876]

ENSRNOG00000019422	Egr1	early growth response 1 [Source:RGD Symbol;Acc:2544]
ENSRNOG00000007647	Oprk1	opioid receptor, kappa 1 [Source:RGD Symbol;Acc:69426]
ENSRNOG00000002753	Adam11	ADAM metallopeptidase domain 11 [Source:RGD Symbol;Acc:1307515]
ENSRNOG00000010906	Ccl5	chemokine (C-C motif) ligand 5 [Source:RGD Symbol;Acc:69069]
ENSRNOG00000000470	Vps52	vacuolar protein sorting 52 homolog (S. cerevisiae) [Source:RGD Symbol;Acc:3618]
ENSRNOG00000009822	Tlr2	toll-like receptor 2 [Source:RGD Symbol;Acc:735138]
ENSRNOG00000012283	Chrna6	cholinergic receptor, nicotinic, alpha 6 (neuronal) [Source:RGD Symbol;Acc:69281]
ENSRNOG00000002390	Gnb2l1	guanine nucleotide binding protein (G protein), beta polypeptide 2 like 1 [Source:RGD Symbol;Acc:69229]
ENSRNOG00000001992	Atp6v1a	ATPase, H ⁺ transporting, lysosomal V1 subunit A [Source:RGD Symbol;Acc:1596464]
ENSRNOG00000012876	Slc6a13	solute carrier family 6 (neurotransmitter transporter), member 13 [Source:RGD Symbol;Acc:620788]
ENSRNOG00000007372	Casp1	caspase 1 [Source:RGD Symbol;Acc:2274]
ENSRNOG00000049402	Nbl1	neuroblastoma 1, DAN family BMP antagonist [Source:RGD Symbol;Acc:3151]
ENSRNOG00000003680	Gabrb2	gamma-aminobutyric acid (GABA) A receptor, beta 2 [Source:RGD Symbol;Acc:2650]
ENSRNOG00000002863	Cacna1e	calcium channel, voltage-dependent, R type, alpha 1E subunit [Source:RGD Symbol;Acc:2246]
ENSRNOG00000032884	Scn11a	sodium channel, voltage-gated, type XI, alpha subunit [Source:RGD Symbol;Acc:3630]
ENSRNOG00000007374	Tac1	tachykinin, precursor 1 [Source:RGD Symbol;Acc:3807]
ENSRNOG00000006335	Klhl9	kelch-like family member 9 [Source:RGD Symbol;Acc:1304814]
ENSRNOG00000003442	Adora1	adenosine A1 receptor [Source:RGD Symbol;Acc:2048]
ENSRNOG00000031801	Ephb3	Eph receptor B3 [Source:RGD Symbol;Acc:1305602]
ENSRNOG00000009882	Ppp3ca	protein phosphatase 3, catalytic subunit, alpha isozyme [Source:RGD Symbol;Acc:3382]
ENSRNOG00000019486	Trpv1	transient receptor potential cation channel, subfamily V, member 1 [Source:RGD Symbol;Acc:628841]
ENSRNOG00000015971	Slc12a2	solute carrier family 12 (sodium/potassium/chloride transporter), member 2 [Source:RGD Symbol;Acc:620809]
ENSRNOG00000008890	Slc18a2	solute carrier family 18 (vesicular monoamine transporter), member 2 [Source:RGD Symbol;Acc:3694]

ENSRNOG00000012531	Ephb2	Eph receptor B2 [Source:RGD Symbol;Acc:1564232]
ENSRNOG00000003866	Cxcr4	chemokine (C-X-C motif) receptor 4 [Source:RGD Symbol;Acc:620465]
ENSRNOG00000018346	Agtr1a	angiotensin II receptor, type 1a [Source:RGD Symbol;Acc:2070]
ENSRNOG00000016384	Pik3cb	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta [Source:RGD Symbol;Acc:620917]
ENSRNOG00000002746	Fstl1	follistatin-like 1 [Source:MGI Symbol;Acc:MGI:102793]
ENSRNOG00000004677	Zeb2	zinc finger E-box binding homeobox 2 [Source:RGD Symbol;Acc:1307272]
ENSRNOG00000004332	Egfr	epidermal growth factor receptor [Source:RGD Symbol;Acc:2543]
ENSRNOG00000007603	Gabbr1	gamma-aminobutyric acid (GABA) A receptor, rho 1 [Source:RGD Symbol;Acc:61900]
ENSRNOG00000017819	Cd14	CD14 molecule [Source:RGD
ENSRNOG00000001195	Trpv4	transient receptor potential cation channel, subfamily V, member 4 [Source:RGD Symbol;Acc:69337]
ENSRNOG00000009260	Cnr2	cannabinoid receptor 2 (macrophage) [Source:RGD Symbol;Acc:619713]
ENSRNOG00000005007	Scn3a	sodium channel, voltage-gated, type III, alpha [Source:RGD Symbol;Acc:3635]
ENSRNOG00000001658	Kcnj6	potassium inwardly-rectifying channel, subfamily J, member 6 [Source:RGD
ENSRNOG00000004810	Plcb1	phospholipase C, beta 1 (phosphoinositide-specific) [Source:RGD Symbol;Acc:3344]
ENSRNOG00000011039	Gch1	GTP cyclohydrolase 1 [Source:RGD Symbol;Acc:61992]
ENSRNOG00000009338	Kras	Kirsten rat sarcoma viral oncogene [Source:RGD Symbol;Acc:2981]
ENSRNOG00000006320	Ptges	prostaglandin E synthase [Source:RGD Symbol;Acc:62076]
ENSRNOG000000030888	Rela	v-rel avian reticuloendotheliosis viral oncogene homolog A [Source:RGD Symbol;Acc:727889]
ENSRNOG00000003170	Nlrp3	NLR family, pyrin domain containing 3 [Source:RGD Symbol;Acc:1308314]
ENSRNOG00000014172	Npy5r	neuropeptide Y receptor Y5 [Source:RGD Symbol;Acc:3199]
ENSRNOG00000000456	Psmb8	proteasome (prosome, macropain) subunit, beta type, 8 [Source:RGD Symbol;Acc:3426]
ENSRNOG00000027030	Adm	adrenomedullin [Source:RGD Symbol;Acc:2047]
ENSRNOG00000000465	Slc39a7	solute carrier family 39 (zinc transporter), member 7 [Source:RGD Symbol;Acc:1593280]
ENSRNOG000000032162	Atf1	activating transcription factor 1 [Source:RGD Symbol;Acc:1307360]
ENSRNOG000000030404	Arrb1	arrestin, beta 1 [Source:RGD Symbol;Acc:2156]
ENSRNOG00000000833	Vars2	valyl-tRNA synthetase 2, mitochondrial [Source:RGD Symbol;Acc:1303122]

ENSRNOG00000006450	Erb2	v-erb-b2 avian erythroblastic leukemia viral oncogene 2 [Source:RGD Symbol;Acc:2561]
ENSRNOG0000000431	Atf6b	activating transcription factor 6 beta [Source:RGD Symbol;Acc:1303317]
ENSRNOG00000004026	Atp2b1	ATPase, Ca ⁺⁺ transporting, plasma membrane 1 [Source:RGD Symbol;Acc:621303]
ENSRNOG00000008292	Hif1a	hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor) [Source:RGD Symbol;Acc:61928]
ENSRNOG00000031312	Tnfrsf1a	tumor necrosis factor receptor superfamily, member 1a [Source:RGD Symbol;Acc:621237]
ENSRNOG00000001442	Por	P450 (cytochrome) oxidoreductase [Source:RGD Symbol;Acc:68335]
ENSRNOG00000010997	Ednrb	endothelin receptor type B [Source:RGD Symbol;Acc:2536]
ENSRNOG00000030763	Dpp4	dipeptidylpeptidase 4 [Source:RGD Symbol;Acc:2515]
ENSRNOG00000049213	Npy2r	neuropeptide Y receptor Y2 [Source:RGD Symbol;Acc:620475]
ENSRNOG00000020778	Chrb2	cholinergic receptor, nicotinic, beta 2 (neuronal) [Source:RGD Symbol;Acc:2350]
ENSRNOG00000020005	Map2k2	mitogen activated protein kinase kinase 2 [Source:RGD Symbol;Acc:61888]
ENSRNOG00000018714	Arl5b	ADP-ribosylation factor-like 5B [Source:RGD Symbol;Acc:1305569]
ENSRNOG00000014751	Ret	ret proto-oncogene [Source:RGD Symbol;Acc:3556]
ENSRNOG00000012074	Ifngr1	interferon gamma receptor 1 [Source:RGD Symbol;Acc:620570]
ENSRNOG00000000433	Prrt1	proline-rich transmembrane protein 1 [Source:RGD Symbol;Acc:1359348]
ENSRNOG00000029726	Gstm1	glutathione S-transferase mu 1 [Source:RGD Symbol;Acc:2755]
ENSRNOG00000016756	Ptgir	prostaglandin I2 (prostacyclin) receptor (IP) [Source:RGD Symbol;Acc:1310890]
ENSRNOG00000013042	Htr1b	5-hydroxytryptamine (serotonin) receptor 1B, G protein-coupled [Source:RGD Symbol;Acc:2846]
ENSRNOG00000004649	Il1b	interleukin 1 beta [Source:RGD
ENSRNOG00000002305	Slc15a2	solute carrier family 15 (oligopeptide transporter), member 2 [Source:RGD
ENSRNOG00000007415	Ptgs1	prostaglandin-endoperoxide synthase 1 [Source:RGD Symbol;Acc:3439]
ENSRNOG00000013412	Creb1	cAMP responsive element binding protein 1 [Source:RGD Symbol;Acc:620218]
ENSRNOG00000010064	Abcc4	ATP-binding cassette, subfamily C (CFTR/MRP), member 4 [Source:RGD Symbol;Acc:620266]
ENSRNOG00000014862	Gabrg3	gamma-aminobutyric acid (GABA) A receptor, gamma 3 [Source:RGD Symbol;Acc:621735]
ENSRNOG00000049771	Gstt1	glutathione S-transferase theta 1 [Source:RGD Symbol;Acc:2765]

ENSRNOG00000017854	Ucp2	uncoupling protein 2 (mitochondrial, proton carrier) [Source:RGD Symbol;Acc:3932]
ENSRNOG00000006867	Etv1	ets variant 1 [Source:RGD Symbol;Acc:1312007]
ENSRNOG00000004060	Calm2	calmodulin 2 [Source:RGD Symbol;Acc:2258]
ENSRNOG00000021745	Bhlhe22	basic helix-loop-helix family, member e22 [Source:RGD Symbol;Acc:1305451]
ENSRNOG00000019073	Ikbkb	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta [Source:RGD Symbol;Acc:621375]
ENSRNOG00000019048	Sod2	superoxide dismutase 2, mitochondrial [Source:RGD Symbol;Acc:3732]
ENSRNOG00000007706	Prkaa2	protein kinase, AMP-activated, alpha 2 catalytic subunit [Source:RGD Symbol;Acc:620893]
ENSRNOG00000008345	Clcn6	chloride channel, voltage-sensitive 6 [Source:RGD Symbol;Acc:1305379]
ENSRNOG00000011145	Crhr2	corticotropin releasing hormone receptor 2 [Source:RGD Symbol;Acc:70547]
ENSRNOG00000000467	Ring1	ring finger protein 1 [Source:RGD Symbol;Acc:3576]
ENSRNOG00000010063	Htr2a	5-hydroxytryptamine (serotonin) receptor 2A, G protein-coupled [Source:RGD
ENSRNOG00000016892	Nr2f6	nuclear receptor subfamily 2, group F, member 6 [Source:RGD Symbol;Acc:621685]
ENSRNOG00000009556	Prokr1	prokineticin receptor 1 [Source:RGD Symbol;Acc:708443]
ENSRNOG00000013634	Myd88	myeloid differentiation primary response 88 [Source:RGD Symbol;Acc:735043]
ENSRNOG00000018107	Zfand5	zinc finger, AN1-type domain 5 [Source:RGD Symbol;Acc:1310776]
ENSRNOG00000021256	Adra1d	adrenoceptor alpha 1D [Source:RGD Symbol;Acc:62064]
ENSRNOG00000000774	Gabbr1	gamma-aminobutyric acid (GABA) B receptor 1 [Source:RGD Symbol;Acc:621537]
ENSRNOG00000010458	Pik3ca	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha [Source:RGD Symbol;Acc:620916]
ENSRNOG00000007456	Calb1	calbindin 1 [Source:RGD Symbol;Acc:69340]
ENSRNOG00000011507	Pick1	protein interacting with PRKCA 1 [Source:RGD Symbol;Acc:69437]
ENSRNOG00000045816	Gria1	glutamate receptor, ionotropic, AMPA 1 [Source:RGD Symbol;Acc:621531]
ENSRNOG00000018712	CAMK2A	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:F1LZG4]
ENSRNOG00000000839	Nfkbil1	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor-like 1 [Source:RGD Symbol;Acc:1303310]
ENSRNOG00000004575	Il1a	interleukin 1 alpha [Source:RGD
ENSRNOG00000007645	Kcnj9	potassium inwardly-rectifying channel, subfamily J, member 9 [Source:RGD
ENSRNOG00000016385	Gabrd	gamma-aminobutyric acid (GABA) A receptor, delta [Source:RGD Symbol;Acc:61901]

ENSRNOG00000016385	Gabrd	gamma-aminobutyric acid (GABA) A receptor, delta [Source:RGD Symbol;Acc:61901]
ENSRNOG00000016768	Oprl1	opiate receptor-like 1 [Source:RGD Symbol;Acc:68438]
ENSRNOG00000005723	Grin3a	glutamate receptor, ionotropic, N-methyl-D-aspartate 3A [Source:RGD Symbol;Acc:621704]
ENSRNOG00000013171	Grm2	glutamate receptor, metabotropic 2 [Source:RGD Symbol;Acc:2743]
ENSRNOG00000005438	Pcsk2	proprotein convertase subtilisin/kexin type 2 [Source:RGD Symbol;Acc:3273]
ENSRNOG00000016221	Scn2b	sodium channel, voltage-gated, type II, beta subunit [Source:RGD Symbol;Acc:3633]
ENSRNOG00000037270	Avpr2	arginine vasopressin receptor 2 [Source:RGD Symbol;Acc:2186]
ENSRNOG00000031440	Nova1	neuro-oncological ventral antigen 1 [Source:RGD Symbol;Acc:621345]
ENSRNOG00000000231	Kctd17	potassium channel tetramerization domain containing 17 [Source:RGD
ENSRNOG00000000805	Gja1	gap junction protein, alpha 1 [Source:RGD Symbol;Acc:2690]
ENSRNOG00000016571	Ngf	nerve growth factor (beta polypeptide) [Source:RGD Symbol;Acc:1598328]
ENSRNOG00000005509	Pak7	p21 protein (Cdc42/Rac)-activated kinase 7 [Source:RGD Symbol;Acc:1312009]
ENSRNOG00000000435	Ppt2	palmitoyl-protein thioesterase 2 [Source:RGD Symbol;Acc:620375]
ENSRNOG00000002229	Adcy5	adenylate cyclase 5 [Source:RGD Symbol;Acc:71014]
ENSRNOG00000048043	F2r	coagulation factor II (thrombin) receptor [Source:RGD Symbol;Acc:2586]
ENSRNOG00000012259	Il22ra2	interleukin 22 receptor, alpha 2 [Source:RGD Symbol;Acc:1303169]
ENSRNOG00000019842	Artn	artemin [Source:RGD Symbol;Acc:621427]
ENSRNOG00000033893	Cacna1h	calcium channel, voltage-dependent, T type, alpha 1H subunit [Source:RGD
ENSRNOG00000014524	S1pr3	sphingosine-1-phosphate receptor 3 [Source:RGD Symbol;Acc:1583843]
ENSRNOG00000013610	Chrna5	cholinergic receptor, nicotinic, alpha 5 (neuronal) [Source:RGD Symbol;Acc:2347]
ENSRNOG00000050233	Cchcr1	coiled-coil alpha-helical rod protein 1 [Source:RGD Symbol;Acc:1302992]
ENSRNOG00000006957	Gria4	glutamate receptor, ionotropic, AMPA 4 [Source:RGD Symbol;Acc:61863]
ENSRNOG00000029778	Maob	monoamine oxidase B [Source:RGD Symbol;Acc:3041]
ENSRNOG00000010262	Hdc	histidine decarboxylase [Source:RGD Symbol;Acc:2790]
ENSRNOG00000047300	Bdkrb2	bradykinin receptor B2 [Source:RGD Symbol;Acc:2201]
ENSRNOG00000043210	Ppp3r1	protein phosphatase 3, regulatory subunit B, alpha [Source:RGD Symbol;Acc:69230]

ENSRNOG00000000440	Pbx2	pre-B-cell leukemia homeobox 2 [Source:RGD Symbol;Acc:1303084]
ENSRNOG00000014776	Adcy7	adenylate cyclase 7 [Source:RGD Symbol;Acc:619966]
ENSRNOG00000003171	Mpz	myelin protein zero [Source:RGD Symbol;Acc:3109]
ENSRNOG00000002227	Kit	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog [Source:RGD Symbol;Acc:620568]
ENSRNOG00000013439	Cpn1	carboxypeptidase N, polypeptide 1 [Source:RGD Symbol;Acc:70931]
ENSRNOG00000004641	Sstr4	somatostatin receptor 4 [Source:RGD Symbol;Acc:3764]
ENSRNOG00000013681	Kcns1	potassium voltage-gated channel, delayed-rectifier, subfamily S, member 1 [Source:RGD Symbol;Acc:621524]
ENSRNOG00000019728	Itgam	integrin, alpha M [Source:RGD Symbol;Acc:621670]
ENSRNOG00000002336	Gabra4	gamma-aminobutyric acid (GABA) A receptor, alpha 4 [Source:RGD Symbol;Acc:621670]
ENSRNOG00000019752	Slc29a1	solute carrier family 29 (equilibrative nucleoside transporter), member 1 [Source:RGD Symbol;Acc:61899]
ENSRNOG00000013953	Ntrk1	neurotrophic tyrosine kinase, receptor, type 1 [Source:RGD Symbol;Acc:620144]
ENSRNOG00000001130	Nos1	nitric oxide synthase 1, neuronal [Source:RGD Symbol;Acc:3184]
ENSRNOG00000003800	Rgs9	regulator of G-protein signaling 9 [Source:RGD Symbol;Acc:3572]
ENSRNOG00000008195	Ywhaz	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta [Source:RGD Symbol;Acc:3980]
ENSRNOG00000012346	Epb41l2	erythrocyte membrane protein band 4.1-like 2 [Source:RGD Symbol;Acc:1563977]
ENSRNOG00000025100	Ikbke	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon [Source:RGD Symbol;Acc:1308352]
ENSRNOG00000013231	Ptafr	platelet-activating factor receptor [Source:RGD Symbol;Acc:61897]
ENSRNOG00000018526	Dlg4	discs, large homolog 4 (Drosophila) [Source:RGD Symbol;Acc:68424]
ENSRNOG00000010254	Htr1a	5-hydroxytryptamine (serotonin) receptor 1A, G protein-coupled [Source:RGD Symbol;Acc:2845]
ENSRNOG00000014367	Ephb6	Eph receptor B6 [Source:RGD Symbol;Acc:1306163]
ENSRNOG00000042499	Tmsb10	thymosin, beta 10 [Source:RGD Symbol;Acc:62022]
ENSRNOG00000012674	Adrb3	adrenoceptor beta 3 [Source:RGD Symbol;Acc:2061]
ENSRNOG00000000196	Cyp19a1	cytochrome P450, family 19, subfamily a, polypeptide 1 [Source:RGD Symbol;Acc:2457]

ENSRNOG00000006226	Cacng2	calcium channel, voltage-dependent, gamma subunit 2 [Source:RGD Symbol;Acc:71095]
ENSRNOG00000001928	Il1rap	interleukin 1 receptor accessory protein [Source:RGD Symbol;Acc:2893]
ENSRNOG000000012458	Cyp2e1	cytochrome P450, family 2, subfamily e, polypeptide 1 [Source:RGD Symbol;Acc:2475]
ENSRNOG00000000466	Hsd17b8	hydroxysteroid (17-beta) dehydrogenase 8 [Source:RGD Symbol;Acc:1303158]
ENSRNOG000000010522	Tlr4	toll-like receptor 4 [Source:RGD
ENSRNOG000000007410	Dab1	Dab, reelin signal transducer, homolog 1 (Drosophila) [Source:RGD Symbol;Acc:628770]
ENSRNOG000000002327	Gabrb1	gamma-aminobutyric acid (GABA) A receptor, beta 1 [Source:RGD Symbol;Acc:2649]
ENSRNOG000000021102	Scn1b	sodium channel, voltage-gated, type I, beta subunit [Source:RGD Symbol;Acc:3631]
ENSRNOG000000008553	Mthfr	methylenetetrahydrofolate reductase (NAD(P)H) [Source:RGD Symbol;Acc:1309952]
ENSRNOG000000023095	Npepps	aminopeptidase puromycin sensitive [Source:RGD Symbol;Acc:619962]
ENSRNOG000000046972	Chrm2	cholinergic receptor, muscarinic 2 [Source:RGD Symbol;Acc:620023]
ENSRNOG000000014530	Nav2	neuron navigator 2 [Source:RGD Symbol;Acc:619778]
ENSRNOG000000046247	Akr1b10	aldo-keto reductase family 1, member B10 (aldose reductase) [Source:RGD
ENSRNOG000000004890	Adcy8	adenylate cyclase 8 (brain) [Source:RGD Symbol;Acc:2036]
ENSRNOG000000009848	Il18	interleukin 18 [Source:RGD Symbol;Acc:2889]
ENSRNOG000000030483	Rabggta	Rab geranylgeranyltransferase, alpha subunit [Source:RGD Symbol;Acc:621697]
ENSRNOG000000002773	Rgs4	regulator of G-protein signaling 4 [Source:RGD Symbol;Acc:3567]
ENSRNOG000000029610	Kcnd2	potassium voltage-gated channel, Shal-related subfamily, member 2 [Source:RGD Symbol;Acc:68393]
ENSRNOG000000009166	Ddx24	DEAD (Asp-Glu-Ala-Asp) box helicase 24 [Source:RGD Symbol;Acc:727929]
ENSRNOG000000000854	Ncr3	natural cytotoxicity triggering receptor 3 [Source:RGD Symbol;Acc:727881]
ENSRNOG000000037160	Bloc1s6	biogenesis of lysosomal organelles complex-1, subunit 6, pallidin [Source:RGD
ENSRNOG000000016456	Il33	interleukin 33 [Source:RGD
ENSRNOG000000000515	Mapk13	mitogen activated protein kinase 13 [Source:RGD Symbol;Acc:3045]
ENSRNOG000000032463	Rap1a	RAP1A, member of RAS oncogene family [Source:RGD Symbol;Acc:1359694]
ENSRNOG000000029813	Hmgb1	high mobility group box 1 [Source:RGD Symbol;Acc:2802]

ENSRNOG00000005697	Slc6a11	solute carrier family 6 (neurotransmitter transporter), member 11 [Source:RGD Symbol;Acc:628737]
ENSRNOG00000011205	Ccl3	chemokine (C-C motif) ligand 3 [Source:RGD Symbol;Acc:3647]
ENSRNOG00000017197	Pdgfb	platelet-derived growth factor beta polypeptide [Source:RGD Symbol;Acc:3283]
ENSRNOG00000007551	Inadl	InaD-like (Drosophila) [Source:RGD Symbol;Acc:1565362]
ENSRNOG00000009085	Prkag2	protein kinase, AMP-activated, gamma 2 non-catalytic subunit [Source:RGD
ENSRNOG00000013902	P2ry12	purinergic receptor P2Y, G-protein coupled, 12 [Source:RGD Symbol;Acc:621681]
ENSRNOG00000030157	Dhx16	DEAH (Asp-Glu-Ala-His) box polypeptide 16 [Source:RGD Symbol;Acc:1302963]
ENSRNOG00000007390	Nfkbia	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha [Source:RGD Symbol;Acc:3171]
ENSRNOG00000014018	St8sia1	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 1 [Source:RGD
ENSRNOG00000018509	Cx3cr1	chemokine (C-X3-C motif) receptor 1 [Source:RGD Symbol;Acc:620137]
ENSRNOG00000018058	Runx3	runt-related transcription factor 3 [Source:RGD Symbol;Acc:620082]
ENSRNOG00000018488	Cd40	CD40 molecule, TNF receptor superfamily member 5 [Source:RGD Symbol;Acc:619830]
ENSRNOG00000024808	Stk39	serine threonine kinase 39 [Source:RGD Symbol;Acc:621643]
ENSRNOG00000016378	Map3k8	mitogen-activated protein kinase kinase kinase 8 [Source:RGD Symbol;Acc:620969]
ENSRNOG00000019716	Ntf3	neurotrophin 3 [Source:RGD
ENSRNOG00000008922	Trim14	tripartite motif-containing 14 [Source:RGD Symbol;Acc:1311514]
ENSRNOG00000048719	Dtnbp1	dystrobrevin binding protein 1 [Source:EntrezGene;Acc:641528]
ENSRNOG00000018524	Ezr	ezrin [Source:RGD Symbol;Acc:621161]
ENSRNOG00000015541	Gnb3	guanine nucleotide binding protein (G protein), beta polypeptide 3 [Source:RGD
ENSRNOG00000011946	Ptn	pleiotrophin [Source:RGD Symbol;Acc:3444]
ENSRNOG00000000464	Rxrb	retinoid X receptor beta [Source:RGD Symbol;Acc:3611]
ENSRNOG00000003745	Atf3	activating transcription factor 3 [Source:RGD Symbol;Acc:2165]
ENSRNOG00000002922	Adora2b	adenosine A2B receptor [Source:RGD Symbol;Acc:2050]
ENSRNOG00000009745	Ppp3cc	protein phosphatase 3, catalytic subunit, gamma isoform [Source:MGI
ENSRNOG00000001300	P2rx4	purinergic receptor P2X, ligand-gated ion channel 4 [Source:RGD Symbol;Acc:62073]
ENSRNOG00000013572	Lxn	latexin [Source:RGD Symbol;Acc:68361]

ENSRNOG00000028426	Mcf2l	MCF.2 cell line derived transforming sequence-like [Source:RGD Symbol;Acc:619782]
ENSRNOG00000017106	Csnk1a1	casein kinase 1, alpha 1 [Source:RGD Symbol;Acc:71098]
ENSRNOG00000018260	Hrh2	histamine receptor H 2 [Source:RGD Symbol;Acc:2831]
ENSRNOG00000009299	Adra2c	adrenoceptor alpha 2C [Source:RGD Symbol;Acc:2058]
ENSRNOG00000007781	Stau1	staufen double-stranded RNA binding protein 1 [Source:RGD Symbol;Acc:621778]
ENSRNOG00000014361	Edn1	endothelin 1 [Source:RGD Symbol;Acc:2532]
ENSRNOG00000017927	Drd4	dopamine receptor D4 [Source:RGD Symbol;Acc:2522]
ENSRNOG00000019217	Adrb2	adrenoceptor beta 2, surface [Source:RGD Symbol;Acc:2060]
ENSRNOG00000015393	Slc32a1	solute carrier family 32 (GABA vesicular transporter), member 1 [Source:RGD Symbol;Acc:621402]
ENSRNOG00000005257	Prkaca	protein kinase, cAMP-dependent, catalytic, alpha [Source:RGD Symbol;Acc:3389]
ENSRNOG00000001313	Gnaz	guanine nucleotide binding protein (G protein), alpha z polypeptide [Source:RGD Symbol;Acc:2717]
ENSRNOG000000048636	Il2rb	interleukin 2 receptor, beta [Source:RGD Symbol;Acc:2896]
ENSRNOG00000004488	Bdkrb1	bradykinin receptor B1 [Source:RGD Symbol;Acc:620401]
ENSRNOG00000023226	S100a10	S100 calcium binding protein A10 [Source:RGD Symbol;Acc:628655]
ENSRNOG000000046468	Ptgfr	prostaglandin F receptor [Source:RGD Symbol;Acc:3436]
ENSRNOG00000019270	P2ry6	pyrimidinergic receptor P2Y, G-protein coupled, 6 [Source:RGD Symbol;Acc:620269]
ENSRNOG00000001575	Grik1	glutamate receptor, ionotropic, kainate 1 [Source:RGD Symbol;Acc:2732]
ENSRNOG00000017392	Fgf2	fibroblast growth factor 2 [Source:RGD Symbol;Acc:2609]
ENSRNOG00000010325	Ptger3	prostaglandin E receptor 3 (subtype EP3) [Source:RGD Symbol;Acc:3435]
ENSRNOG00000017625	Htr2b	5-hydroxytryptamine (serotonin) receptor 2B, G protein-coupled [Source:RGD
ENSRNOG00000012060	Gucy1b3	guanylate cyclase 1, soluble, beta 3 [Source:RGD Symbol;Acc:2769]
ENSRNOG000000046889	Dbi	diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein) [Source:RGD Symbol;Acc:2490]
ENSRNOG000000031331	Fpr2	formyl peptide receptor 2 [Source:RGD Symbol;Acc:1584013]
ENSRNOG00000009922	Prlhr	prolactin releasing hormone receptor [Source:RGD Symbol;Acc:71037]

ENSRNOG00000009742	Rad52	RAD52 homolog (<i>S. cerevisiae</i>) [Source:RGD Symbol;Acc:1304975]
ENSRNOG00000001890	Txnrd2	thioredoxin reductase 2 [Source:RGD Symbol;Acc:61960]
ENSRNOG00000003773	Hmox2	heme oxygenase (decycling) 2 [Source:RGD Symbol;Acc:67402]
ENSRNOG00000003338	Pmp22	peripheral myelin protein 22 [Source:RGD Symbol;Acc:3359]
ENSRNOG00000010176	Map2k1	mitogen activated protein kinase kinase 1 [Source:RGD Symbol;Acc:70495]
ENSRNOG00000037262	Mecp2	methyl CpG binding protein 2 [Source:RGD Symbol;Acc:3075]
ENSRNOG00000001704	Runx1	runt-related transcription factor 1 [Source:RGD Symbol;Acc:2283]
ENSRNOG00000018674	Ntrk3	neurotrophic tyrosine kinase, receptor, type 3 [Source:RGD Symbol;Acc:3214]
ENSRNOG00000020865	Ano1	anoctamin 1, calcium activated chloride channel [Source:RGD Symbol;Acc:1310786]
ENSRNOG00000001216	Trpm2	transient receptor potential cation channel, subfamily M, member 2 [Source:RGD Symbol;Acc:1311889]
ENSRNOG00000000432	Fkbp1	FK506 binding protein-like [Source:RGD Symbol;Acc:1303227]
ENSRNOG00000002705	Vps4b	vacuolar protein sorting 4 homolog B (<i>S. cerevisiae</i>) [Source:RGD Symbol;Acc:1305969]
ENSRNOG00000038193	Mc1r	melanocortin 1 receptor [Source:RGD Symbol;Acc:1312046]
ENSRNOG00000006595	Htr3a	5-hydroxytryptamine (serotonin) receptor 3A, ionotropic [Source:RGD Symbol;Acc:61818]
ENSRNOG00000015049	Scn5a	sodium channel, voltage-gated, type V, alpha subunit [Source:RGD Symbol;Acc:3637]
ENSRNOG00000008031	Cacna2d4	calcium channel, voltage-dependent, alpha 2/delta subunit 4 [Source:RGD Symbol;Acc:1589721]
ENSRNOG00000011513	Gla	galactosidase, alpha [Source:RGD Symbol;Acc:1589721]
ENSRNOG00000005368	Ppp3r2	protein phosphatase 3, regulatory subunit B, beta [Source:RGD Symbol;Acc:69232]
ENSRNOG00000007387	Per1	period circadian clock 1 [Source:RGD Symbol;Acc:727863]
ENSRNOG00000047647	Il2ra	interleukin 2 receptor, alpha [Source:RGD Symbol;Acc:2895]
ENSRNOG00000010105	S100a11	S100 calcium binding protein A11 [Source:RGD Symbol;Acc:1303295]
ENSRNOG00000000457	Tap1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) [Source:RGD Symbol;Acc:3817]
ENSRNOG00000002391	Gla4	glycine receptor, alpha 4 [Source:RGD Symbol;Acc:1564103]
ENSRNOG00000017752	Mccc2	methylcrotonoyl-CoA carboxylase 2 (beta) [Source:RGD Symbol;Acc:1310279]
ENSRNOG00000003515	Ephx1	epoxide hydrolase 1, microsomal (xenobiotic) [Source:RGD Symbol;Acc:2557]

ENSRNOG00000014504	Il1r1	interleukin 1 receptor, type I [Source:RGD Symbol;Acc:2892]
ENSRNOG00000019308	Arrb2	arrestin, beta 2 [Source:RGD Symbol;Acc:2157]
ENSRNOG00000004327	Ddc	dopa decarboxylase (aromatic L-amino acid decarboxylase) [Source:RGD Symbol;Acc:2494]
ENSRNOG00000028505	Rps18	ribosomal protein S18 [Source:RGD Symbol;Acc:3595]
ENSRNOG00000011501	Atp1b3	ATPase, Na ⁺ /K ⁺ transporting, beta 3 polypeptide [Source:RGD Symbol;Acc:2172]
ENSRNOG00000007607	Nr4a1	nuclear receptor subfamily 4, group A, member 1 [Source:RGD Symbol;Acc:620029]
ENSRNOG00000008080	Hrh3	histamine receptor H3 [Source:RGD Symbol;Acc:620630]
ENSRNOG00000000818	Nrm	nurim (nuclear envelope membrane protein) [Source:RGD Symbol;Acc:1302966]
ENSRNOG00000019283	P2ry2	purinergic receptor P2Y, G-protein coupled, 2 [Source:RGD Symbol;Acc:62088]
ENSRNOG00000007624	Il4	interleukin 4 [Source:RGD Symbol;Acc:2898]
ENSRNOG00000001295	S100b	S100 calcium binding protein B [Source:RGD Symbol;Acc:3615]
ENSRNOG00000002948	Abcc3	ATP-binding cassette, subfamily C (CFTR/MRP), member 3 [Source:RGD Symbol;Acc:71101]
ENSRNOG00000000455	Tap2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP) [Source:RGD Symbol;Acc:3818]
ENSRNOG00000021441	Reln	reelin [Source:RGD Symbol;Acc:3553]
ENSRNOG00000018385	Chrm1	cholinergic receptor, muscarinic 1 [Source:RGD Symbol;Acc:2342]
ENSRNOG00000029128	Cyp2d5	cytochrome P450, family 2, subfamily d, polypeptide 5 [Source:RGD Symbol;Acc:628630]
ENSRNOG00000000840	Atp6v1g2	ATPase, H ⁺ transporting, lysosomal V1 subunit G2 [Source:RGD Symbol;Acc:1303186]
ENSRNOG00000022485	Chuk	conserved helix-loop-helix ubiquitous kinase [Source:RGD Symbol;Acc:1306661]
ENSRNOG00000020410	Th	tyrosine hydroxylase [Source:RGD Symbol;Acc:3853]
ENSRNOG00000002848	Maoa	monoamine oxidase A [Source:RGD Symbol;Acc:61898]
ENSRNOG00000008831	Hcn2	hyperpolarization activated cyclic nucleotide-gated potassium channel 2 [Source:RGD Symbol;Acc:620689]
ENSRNOG00000043124	Cckar	cholecystokinin A receptor [Source:RGD Symbol;Acc:2289]
ENSRNOG00000000007	Gad1	glutamate decarboxylase 1 [Source:RGD Symbol;Acc:2652]
ENSRNOG00000020783	Ntf4	neurotrophin 4 [Source:RGD Symbol;Acc:3212]
ENSRNOG00000049410	Chrm3	cholinergic receptor, muscarinic 3 [Source:RGD Symbol;Acc:2343]
ENSRNOG00000010519	Cyp39a1	cytochrome P450, family 39, subfamily a, polypeptide 1 [Source:RGD Symbol;Acc:2049]
ENSRNOG00000001302	Adora2a	adenosine A2a receptor [Source:RGD Symbol;Acc:2049]

ENSRNOG00000020577	Pip5k1c	phosphatidylinositol-4-phosphate 5-kinase, type I, gamma [Source:RGD
ENSRNOG00000008015	Fos	FBJ osteosarcoma oncogene [Source:RGD Symbol;Acc:2626]
ENSRNOG00000017828	Egr3	early growth response 3 [Source:RGD Symbol;Acc:2545]
ENSRNOG00000047129	Tcf19	transcription factor 19 [Source:RGD Symbol;Acc:1302974]
ENSRNOG00000001889	Comt	catechol-O-methyltransferase [Source:RGD Symbol;Acc:2379]
ENSRNOG00000012703	Crh	corticotropin releasing hormone [Source:RGD Symbol;Acc:620505]
ENSRNOG00000047545	Adra2a	adrenoceptor alpha 2A [Source:RGD Symbol;Acc:2056]
ENSRNOG00000021685	Cdk5r1	cyclin-dependent kinase 5, regulatory subunit 1 (p35) [Source:RGD Symbol;Acc:629472]
ENSRNOG00000022719	Abcb1b	ATP-binding cassette, subfamily B (MDR/TAP), member 1B [Source:RGD Symbol;Acc:3318]
ENSRNOG00000050658	Tacr2	tachykinin receptor 2 [Source:RGD Symbol;Acc:3812]
ENSRNOG00000013240	Ptger4	prostaglandin E receptor 4 (subtype EP4) [Source:RGD Symbol;Acc:628641]
ENSRNOG00000020045	Drgx	dorsal root ganglia homeobox [Source:RGD Symbol;Acc:628616]
ENSRNOG00000000437	Agpat1	1-acylglycerol-3-phosphate O-acyltransferase 1 [Source:RGD Symbol;Acc:1303287]
ENSRNOG00000010362	Anxa2	annexin A2 [Source:RGD Symbol;Acc:621170]
ENSRNOG00000004179	Nts	neurotensin [Source:RGD Symbol;Acc:621612]
ENSRNOG00000003104	Trpv2	transient receptor potential cation channel, subfamily V, member 2 [Source:RGD Symbol;Acc:3965]
ENSRNOG00000012417	Iapp	islet amyloid polypeptide [Source:RGD Symbol;Acc:2854]
ENSRNOG00000020657	Shc1	SHC (Src homology 2 domain containing) transforming protein 1 [Source:RGD Symbol;Acc:620446]
ENSRNOG00000008111	Il5	interleukin 5 [Source:RGD Symbol;Acc:2900]
ENSRNOG00000046667	Fosb	FBJ osteosarcoma oncogene B [Source:RGD Symbol;Acc:1308198]
ENSRNOG00000032585	Hspa8	heat shock 70kDa protein 8 [Source:RGD Symbol;Acc:621725]
ENSRNOG00000000831	Gtf2h4	general transcription factor II H, polypeptide 4 [Source:RGD Symbol;Acc:1303309]
ENSRNOG00000005041	Crip2	cysteine-rich protein 2 [Source:RGD Symbol;Acc:1302959]
ENSRNOG00000031287	Cacna2d3	calcium channel, voltage-dependent, alpha2/delta subunit 3 [Source:RGD
ENSRNOG00000021128	Kcnj11	potassium inwardly rectifying channel, subfamily J, member 11 [Source:RGD
ENSRNOG00000021259	Prnp	prion protein [Source:RGD Symbol;Acc:3410]

ENSRNOG00000031535	Ptgdr	prostaglandin D2 receptor [Source:RGD Symbol;Acc:619707]
ENSRNOG00000021463	Ppara	peroxisome proliferator activated receptor alpha [Source:RGD Symbol;Acc:3369]
ENSRNOG00000012562	Grin3b	glutamate receptor, ionotropic, N-methyl-D-aspartate 3B [Source:RGD Symbol;Acc:621705]
ENSRNOG00000023258	Nfkb1	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1 [Source:RGD Symbol;Acc:70498]
ENSRNOG00000013506	Zfand6	zinc finger, AN1-type domain 6 [Source:RGD Symbol;Acc:1359317]
ENSRNOG00000018789	Asic1	acid-sensing (proton-gated) ion channel 1 [Source:RGD Symbol;Acc:71062]
ENSRNOG00000031163	Nfkbiz	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta [Source:RGD Symbol;Acc:1310834]
ENSRNOG00000011672	Tph1	tryptophan hydroxylase 1 [Source:RGD Symbol;Acc:3895]
ENSRNOG00000003687	Rgs2	regulator of G-protein signaling 2 [Source:RGD Symbol;Acc:621665]
ENSRNOG00000009522	Adra1a	adrenoceptor alpha 1A [Source:RGD Symbol;Acc:2055]
ENSRNOG00000047931	Tmsb4x	thymosin, beta 4, X chromosome [Source:RGD Symbol;Acc:621622]
ENSRNOG00000045949	Faah	fatty acid amide hydrolase [Source:RGD Symbol;Acc:61808]
ENSRNOG00000001296	P2rx7	purinergic receptor P2X, ligand-gated ion channel, 7 [Source:RGD Symbol;Acc:3241]
ENSRNOG00000007581	Slc17a8	solute carrier family 17 (vesicular glutamate transporter), member 8 [Source:RGD Symbol;Acc:628870]
ENSRNOG00000001090	Stard13	StAR-related lipid transfer (START) domain containing 13 [Source:RGD Symbol;Acc:628870]
ENSRNOG00000011526	Pcsk6	proprotein convertase subtilisin/kexin type 6 [Source:RGD Symbol;Acc:3246]
ENSRNOG00000004900	Crhr1	corticotropin releasing hormone receptor 1 [Source:RGD Symbol;Acc:61276]
ENSRNOG00000011847	Grk4	G protein-coupled receptor kinase 4 [Source:RGD Symbol;Acc:61858]
ENSRNOG00000013604	Gpx4	glutathione peroxidase 4 [Source:RGD Symbol;Acc:69226]
ENSRNOG00000038205	Gng5	guanine nucleotide binding protein (G protein), gamma 5 [Source:RGD Symbol;Acc:620807]
ENSRNOG00000011891	Atp6v1b2	ATPase, H transporting, lysosomal V1 subunit B2 [Source:RGD Symbol;Acc:620284]
ENSRNOG00000001500	Rab4b	RAB4B, member RAS oncogene family [Source:RGD Symbol;Acc:620931]
ENSRNOG00000047028	Mmp24	matrix metalloproteinase 24 [Source:RGD Symbol;Acc:620202]
ENSRNOG00000016216	Sft2d3	SFT2 domain containing 3 [Source:RGD Symbol;Acc:1561764]

ENSRNOG00000026036	Pdyn	prodynorphin [Source:RGD Symbol;Acc:62054]
ENSRNOG00000009790	Kcnk3	potassium channel, subfamily K, member 3 [Source:RGD Symbol;Acc:61997]
ENSRNOG00000026293	Jun	jun proto-oncogene [Source:RGD Symbol;Acc:2943]
ENSRNOG00000002991	Srr	serine racemase [Source:RGD
ENSRNOG00000016725	lkbkap	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein [Source:RGD Symbol;Acc:620072]
ENSRNOG00000012772	Nqo1	NAD(P)H dehydrogenase, quinone 1 [Source:RGD Symbol;Acc:2503]
ENSRNOG00000022523	Fkbp5	FK506 binding protein 5 [Source:RGD Symbol;Acc:1309155]
ENSRNOG00000021063	Grin2d	glutamate receptor, ionotropic, N-methyl D-aspartate 2D [Source:RGD Symbol;Acc:2740]
ENSRNOG00000009540	Gpr3	G protein-coupled receptor 3 [Source:RGD Symbol;Acc:628686]
ENSRNOG00000048706	Nox1	NADPH oxidase 1 [Source:RGD Symbol;Acc:620598]
ENSRNOG00000024390	Osm	oncostatin M [Source:RGD
ENSRNOG00000014615	Grk6	G protein-coupled receptor kinase 6 [Source:RGD Symbol;Acc:61986]
ENSRNOG00000049517	Tnfaip3	tumor necrosis factor, alpha-induced protein 3 [Source:RGD Symbol;Acc:1589275]
ENSRNOG00000029571	Coq10a	coenzyme Q10 homolog A (<i>S. cerevisiae</i>) [Source:RGD Symbol;Acc:1562447]
ENSRNOG00000008498	Gabarapl1	GABA(A) receptor-associated protein like 1 [Source:RGD Symbol;Acc:1596143]
ENSRNOG00000012098	Adcyap1r1	adenylate cyclase activating polypeptide 1 receptor 1 [Source:RGD Symbol;Acc:2038]
ENSRNOG00000014508	Mgll	monoglyceride lipase [Source:RGD Symbol;Acc:71039]
ENSRNOG00000011006	Stoml3	stomatin (Epb7.2)-like 3 [Source:RGD Symbol;Acc:1311090]
ENSRNOG00000010531	Oprd1	opioid receptor, delta 1 [Source:RGD Symbol;Acc:3233]
ENSRNOG00000017002	Adrb1	adrenoceptor beta 1 [Source:RGD Symbol;Acc:2059]
ENSRNOG00000011406	Ccl4	chemokine (C-C motif) ligand 4 [Source:RGD Symbol;Acc:620441]
ENSRNOG00000000513	Mapk14	mitogen activated protein kinase 14 [Source:RGD Symbol;Acc:70496]
ENSRNOG00000018003	F2rl1	coagulation factor II (thrombin) receptor-like 1 [Source:RGD Symbol;Acc:620866]
ENSRNOG00000015232	Pip5k1b	phosphatidylinositol-4-phosphate 5-kinase, type I, beta [Source:RGD Symbol;Acc:1310914]
ENSRNOG00000002953	P2ry4	pyrimidinergic receptor P2Y, G-protein coupled, 4 [Source:RGD Symbol;Acc:61798]
ENSRNOG00000013963	Il6st	interleukin 6 signal transducer [Source:RGD Symbol;Acc:2903]
ENSRNOG00000002164	Nmu	neuromedin U [Source:RGD Symbol;Acc:68388]

ENSRNOG00000028404	Ppp1r1b	protein phosphatase 1, regulatory (inhibitor) subunit 1B [Source:RGD Symbol;Acc:621859]
ENSRNOG00000037456	P2rx2	purinergic receptor P2X, ligand-gated ion channel, 2 [Source:RGD Symbol;Acc:620251]
ENSRNOG00000003569	Gabra6	gamma-aminobutyric acid (GABA) A receptor, alpha 6 [Source:RGD Symbol;Acc:61861]
ENSRNOG00000011071	Nt5e	5' nucleotidase, ecto [Source:RGD Symbol;Acc:61956]
ENSRNOG00000013076	Csnk1e	casein kinase 1, epsilon [Source:RGD Symbol;Acc:62045]
ENSRNOG00000017679	Cckbr	cholecystokinin B receptor [Source:RGD Symbol;Acc:2290]
ENSRNOG00000009450	Hcn4	hyperpolarization activated cyclic nucleotide-gated potassium channel 4 [Source:RGD Symbol;Acc:71065]
ENSRNOG00000011900	Fmr1	fragile X mental retardation 1 [Source:RGD Symbol;Acc:2623]
ENSRNOG00000016340	Plcg1	phospholipase C, gamma 1 [Source:RGD Symbol;Acc:3347]
ENSRNOG00000018454	Apoe	apolipoprotein E [Source:RGD Symbol;Acc:2138]
ENSRNOG00000005289	Prkd3	protein kinase D3 [Source:RGD Symbol;Acc:1310236]
ENSRNOG00000014096	Nr3c1	nuclear receptor subfamily 3, group C, member 1 [Source:RGD Symbol;Acc:2741]
ENSRNOG00000021726	Tlr3	toll-like receptor 3 [Source:RGD Symbol;Acc:735171]
ENSRNOG00000033119	Plcb4	phospholipase C, beta 4 [Source:RGD Symbol;Acc:3345]
ENSRNOG00000037931	Plaur	plasminogen activator, urokinase receptor [Source:RGD Symbol;Acc:620597]
ENSRNOG00000011439	Grk5	G protein-coupled receptor kinase 5 [Source:RGD Symbol;Acc:61985]
ENSRNOG00000021068	Pip5k1a	phosphatidylinositol-4-phosphate 5-kinase, type 1, alpha [Source:RGD Symbol;Acc:61985]
ENSRNOG00000007682	Gria3	glutamate receptor, ionotropic, AMPA 3 [Source:RGD Symbol;Acc:70958]
ENSRNOG00000009514	Mme	membrane metallo-endopeptidase [Source:RGD Symbol;Acc:3098]
ENSRNOG00000005853	Tacr1	tachykinin receptor 1 [Source:RGD Symbol;Acc:3811]
ENSRNOG00000005343	Esr2	estrogen receptor 2 (ER beta) [Source:RGD Symbol;Acc:2582]
ENSRNOG00000001548	Nfe2l2	nuclear factor, erythroid 2-like 2 [Source:RGD Symbol;Acc:620360]
ENSRNOG00000009968	Ercc8	excision repair cross-complementation group 8 [Source:RGD Symbol;Acc:1311570]
ENSRNOG00000018854	Nppc	natriuretic peptide C [Source:RGD Symbol;Acc:620850]
ENSRNOG00000017582	Cnga3	cyclic nucleotide gated channel alpha 3 [Source:RGD Symbol;Acc:70948]

ENSRNOG00000003661	Hn1	hematological and neurological expressed 1 [Source:RGD Symbol;Acc:1359325]
ENSRNOG000000032707	Egf	epidermal growth factor [Source:RGD Symbol;Acc:2542]
ENSRNOG00000014010	Gfra2	GDNF family receptor alpha 2 [Source:RGD Symbol;Acc:61809]
ENSRNOG000000043451	Spp1	secreted phosphoprotein 1 [Source:RGD Symbol;Acc:3752]
ENSRNOG000000007894	Mpdz	multiple PDZ domain protein [Source:RGD Symbol;Acc:3105]
ENSRNOG00000014248	ErbB4	v-erb-b2 avian erythroblastic leukemia viral oncogene 4 [Source:RGD Symbol;Acc:620486]
ENSRNOG00000006997	App	amyloid beta (A4) precursor protein [Source:RGD Symbol;Acc:2139]
ENSRNOG000000025083	Pacsin1	protein kinase C and casein kinase substrate in neurons 1 [Source:RGD Symbol;Acc:3247]
ENSRNOG000000007420	Hrh1	histamine receptor H 1 [Source:RGD Symbol;Acc:2830]
ENSRNOG000000046487	Pou5f1	POU class 5 homeobox 1 [Source:RGD Symbol;Acc:1359491]
ENSRNOG00000010146	Ndn	necdin, melanoma antigen (MAGE) family member [Source:RGD Symbol;Acc:1310526]
ENSRNOG00000018892	Hcrt	hypocretin [Source:RGD Symbol;Acc:2786]
ENSRNOG00000015156	Gal	galanin/GMAP prepropeptide [Source:RGD Symbol;Acc:61954]
ENSRNOG00000010331	Ctsb	cathepsin B [Source:RGD Symbol;Acc:621509]
ENSRNOG000000032930	Trim26	tripartite motif-containing 26 [Source:RGD Symbol;Acc:1359126]
ENSRNOG000000007019	Asic2	acid-sensing (proton-gated) ion channel 2 [Source:RGD Symbol;Acc:2017]
ENSRNOG000000027204	Map6	microtubule-associated protein 6 [Source:RGD Symbol;Acc:61804]
ENSRNOG00000014648	Efnb2	ephrin B2 [Source:RGD Symbol;Acc:1309497]
ENSRNOG000000000838	Lta	lymphotoxin alpha [Source:RGD Symbol;Acc:2520]
ENSRNOG000000008428	Drd2	dopamine receptor D2 [Source:RGD Symbol;Acc:2520]
ENSRNOG00000001715	Ece2	endothelin-converting enzyme 2 [Source:RGD Symbol;Acc:1303039]
ENSRNOG000000033796	Kcnj5	potassium inwardly-rectifying channel, subfamily J, member 5 [Source:RGD Symbol;Acc:3434]
ENSRNOG000000004094	Ptger1	prostaglandin E receptor 1 (subtype EP1) [Source:RGD Symbol;Acc:620020]
ENSRNOG000000050968	Ptger2	prostaglandin E receptor 2 (subtype EP2) [Source:RGD Symbol;Acc:620992]
ENSRNOG000000006870	Mtdh	metadherin [Source:RGD Symbol;Acc:2523]
ENSRNOG000000005338	Drd5	dopamine receptor D5 [Source:RGD Symbol;Acc:620458]
ENSRNOG00000016326	Cx3cl1	chemokine (C-X3-C motif) ligand 1 [Source:RGD Symbol;Acc:620458]

ENSRNOG00000006589	Mif	macrophage migration inhibitory factor (glycosylation-inhibiting factor) [Source:RGD Symbol;Acc:621163]
ENSRNOG00000019358	Esr1	estrogen receptor 1 [Source:RGD Symbol;Acc:2581]
ENSRNOG00000009884	Lgals1	lectin, galactoside-binding, soluble, 1 [Source:RGD Symbol;Acc:69355]
ENSRNOG00000019606	Trpv3	transient receptor potential cation channel, subfamily V, member 3 [Source:RGD Symbol;Acc:1564531]
ENSRNOG00000018985	Adrbk1	adrenergic, beta, receptor kinase 1 [Source:RGD Symbol;Acc:2062]
ENSRNOG00000028733	Prkar1b	protein kinase, cAMP dependent regulatory, type I, beta [Source:RGD Symbol;Acc:3392]
ENSRNOG00000028858	Rbmx1b	RNA binding motif protein, X-linked-like 1B [Source:RGD Symbol;Acc:1585845]
ENSRNOG00000020351	Vps4a	vacuolar protein sorting 4 homolog A (S. cerevisiae) [Source:RGD Symbol;Acc:628810]
ENSRNOG00000034241	Set	SET nuclear proto-oncogene [Source:RGD Symbol;Acc:1307467]
ENSRNOG00000013448	Mrgprd	MAS-related GPR, member D [Source:RGD Symbol;Acc:738040]
ENSRNOG00000026171	Bbs4	Bardet-Biedl syndrome 4 [Source:RGD Symbol;Acc:1309134]
ENSRNOG00000000827	Ier3	immediate early response 3 [Source:RGD Symbol;Acc:1303321]
ENSRNOG00000009265	Kcnk9	potassium channel, subfamily K, member 9 [Source:RGD Symbol;Acc:621451]
ENSRNOG00000003069	Cd38	CD38 molecule [Source:RGD Symbol;Acc:2303]
ENSRNOG00000028708	Ntsr1	neurotensin receptor 1 [Source:RGD Symbol;Acc:1306076]
ENSRNOG00000014761	Rasd2	RASD family, member 2 [Source:RGD Symbol;Acc:628594]
ENSRNOG00000002343	Uchl1	ubiquitin carboxyl-terminal esterase L1 (ubiquitin thiolesterase) [Source:RGD Symbol;Acc:1309340]
ENSRNOG00000006984	Mapk11	mitogen-activated protein kinase 11 [Source:RGD Symbol;Acc:1309340]
ENSRNOG00000018200	Gad2	glutamate decarboxylase 2 [Source:RGD Symbol;Acc:2653]
ENSRNOG00000015430	Nlgn2	neuroligin 2 [Source:RGD Symbol;Acc:621118]
ENSRNOG00000002653	Kcnk2	potassium channel, subfamily K, member 2 [Source:RGD Symbol;Acc:621448]
ENSRNOG00000048186	F2rl3	coagulation factor II (thrombin) receptor-like 3 [Source:RGD Symbol;Acc:620872]
ENSRNOG00000047175	Cryaa	crystallin, alpha A [Source:RGD Symbol;Acc:1559468]
ENSRNOG000000032813	Mdc1	mediator of DNA damage checkpoint 1 [Source:RGD Symbol;Acc:1559468]
ENSRNOG00000000826	Flot1	flotillin 1 [Source:RGD Symbol;Acc:70991]
ENSRNOG00000017556	Chrm4	cholinergic receptor, muscarinic 4 [Source:RGD Symbol;Acc:2344]

ENSRNOG00000004622	Calcr1	calcitonin receptor-like [Source:RGD Symbol;Acc:2255]
ENSRNOG00000010633	Acsl1	acyl-CoA synthetase long-chain family member 1 [Source:RGD Symbol;Acc:2015]
ENSRNOG00000014290	Grm1	glutamate receptor, metabotropic 1 [Source:RGD Symbol;Acc:2742]
ENSRNOG00000019194	Pitx3	paired-like homeodomain 3 [Source:RGD Symbol;Acc:3332]
ENSRNOG00000002525	Ptgs2	prostaglandin-endoperoxide synthase 2 [Source:RGD Symbol;Acc:620349]
ENSRNOG00000016429	Grm5	glutamate receptor, metabotropic 5 [Source:RGD Symbol;Acc:2746]
ENSRNOG00000000438	Rnf5	ring finger protein 5, E3 ubiquitin protein ligase [Source:RGD Symbol;Acc:1588458]
ENSRNOG00000019598	Vegfa	vascular endothelial growth factor A [Source:RGD Symbol;Acc:619991]
ENSRNOG00000012819	Gdnf	glial cell derived neurotrophic factor [Source:RGD Symbol;Acc:2677]
ENSRNOG00000010870	Foxn1	forkhead box N1 [Source:RGD
ENSRNOG00000026805	Csf2	colony stimulating factor 2 (granulocyte-macrophage) [Source:RGD Symbol;Acc:621065]
ENSRNOG00000007081	Xdh	xanthine dehydrogenase [Source:RGD Symbol;Acc:62043]
ENSRNOG00000017727	Prlr	prolactin receptor [Source:RGD
ENSRNOG00000016066	Bambi	BMP and activin membrane-bound inhibitor [Source:RGD Symbol;Acc:621831]
ENSRNOG00000026772	Drd3	dopamine receptor D3 [Source:RGD Symbol;Acc:2521]
ENSRNOG00000021150	Plcb3	phospholipase C, beta 3 (phosphatidylinositol-specific) [Source:RGD Symbol;Acc:61993]
ENSRNOG00000010898	Prok2	prokineticin 2 [Source:RGD Symbol;Acc:620280]
ENSRNOG00000009372	Tacr3	tachykinin receptor 3 [Source:RGD Symbol;Acc:3810]
ENSRNOG00000011621	Hnrnpc	heterogeneous nuclear ribonucleoprotein C [Source:RGD Symbol;Acc:1309982]
ENSRNOG00000023943	Gbp1	guanylate binding protein 1, interferon-inducible [Source:RGD Symbol;Acc:1311877]
ENSRNOG00000019409	Lipk	lipase, family member K [Source:RGD Symbol;Acc:1309724]
ENSRNOG00000013291	Cyp2c23	cytochrome P450, family 2, subfamily c, polypeptide 23 [Source:RGD
ENSRNOG00000006397	Chrm5	cholinergic receptor, muscarinic 5 [Source:RGD Symbol;Acc:620027]
ENSRNOG00000014688	Prkcg	protein kinase C, gamma [Source:RGD Symbol;Acc:3397]
ENSRNOG00000026096	Taar9	trace amine-associated receptor 9 [Source:RGD Symbol;Acc:631383]
ENSRNOG00000019321	Cck	cholecystokinin [Source:RGD Symbol;Acc:2288]
ENSRNOG000000050841	Ache	acetylcholinesterase [Source:MGI Symbol;Acc:MGI:87876]

ENSRNOG00000017521	Gpr55	G protein-coupled receptor 55 [Source:RGD Symbol;Acc:1559828]
ENSRNOG00000050997	Ifrd1	interferon-related developmental regulator 1 [Source:RGD Symbol;Acc:2867]
ENSRNOG00000018111	Slc12a5	solute carrier family 12 (potassium-chloride transporter), member 5 [Source:RGD Symbol;Acc:620811]
ENSRNOG00000033790	Hnrnpu	heterogeneous nuclear ribonucleoprotein U [Source:RGD Symbol;Acc:620372]
ENSRNOG00000020650	Slc17a7	solute carrier family 17 (vesicular glutamate transporter), member 7 [Source:RGD Symbol;Acc:620101]
ENSRNOG00000011726	Grin1	glutamate receptor, ionotropic, N-methyl D-aspartate 1 [Source:RGD Symbol;Acc:2736]
ENSRNOG00000036685	Npb	neuropeptide B [Source:RGD
ENSRNOG00000019834	Hsp90ab1	heat shock protein 90 alpha (cytosolic), class B member 1 [Source:RGD Symbol;Acc:1303075]
ENSRNOG00000019208	P2rx5	purinergic receptor P2X, ligand-gated ion channel, 5 [Source:RGD Symbol;Acc:620256]
ENSRNOG00000008839	Pparg	peroxisome proliferator-activated receptor gamma [Source:RGD Symbol;Acc:3371]
ENSRNOG00000008276	Adcy1	adenylate cyclase 1 (brain) [Source:RGD Symbol;Acc:1309318]
ENSRNOG00000008380	Asic3	acid-sensing (proton-gated) ion channel 3 [Source:RGD Symbol;Acc:708578]
ENSRNOG00000014604	Sigmar1	sigma non-opioid intracellular receptor 1 [Source:RGD Symbol;Acc:68364]
ENSRNOG00000001606	Adamts5	ADAM metalloproteinase with thrombospondin type 1 motif, 5 [Source:RGD
ENSRNOG00000029165	Stx1a	syntaxin 1A (brain) [Source:RGD Symbol;Acc:69430]
ENSRNOG00000011815	Sgk1	serum/glucocorticoid regulated kinase 1 [Source:RGD Symbol;Acc:3668]
ENSRNOG00000030019	Atp1a1	ATPase, Na ⁺ /K ⁺ transporting, alpha 1 polypeptide [Source:RGD Symbol;Acc:2167]
ENSRNOG00000000596	Fyn	FYN proto-oncogene, Src family tyrosine kinase [Source:RGD Symbol;Acc:2641]
ENSRNOG00000009385	Pik3cg	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit gamma [Source:RGD Symbol;Acc:1306468]
ENSRNOG00000030877	Htr2c	5-hydroxytryptamine (serotonin) receptor 2C, G protein-coupled [Source:RGD Symbol;Acc:2848]
ENSRNOG00000019601	Mapk3	mitogen activated protein kinase 3 [Source:RGD Symbol;Acc:3046]
ENSRNOG00000014231	Pnoc	prepronociceptin [Source:RGD
ENSRNOG00000011202	Chrna4	cholinergic receptor, nicotinic, alpha 4 (neuronal) [Source:RGD Symbol;Acc:2346]
ENSRNOG00000029756	P2ry13	purinergic receptor P2Y, G-protein coupled, 13 [Source:RGD Symbol;Acc:1302941]
ENSRNOG00000039265	Psmg4	proteasome (prosome, macropain) assembly chaperone 4 [Source:RGD Symbol;Acc:1589955]

ENSRNOG00000000830	Ddr1	discoidin domain receptor tyrosine kinase 1 [Source:RGD Symbol;Acc:2252]
ENSRNOG00000010711	Dicer1	dicer 1, ribonuclease type III [Source:RGD Symbol;Acc:1309381]
ENSRNOG00000004400	Avpr1a	arginine vasopressin receptor 1A [Source:RGD Symbol;Acc:2185]
ENSRNOG00000010882	Sptlc1	serine palmitoyltransferase, long chain base subunit 1 [Source:RGD Symbol;Acc:1307140]
ENSRNOG00000019525	Hspa9	heat shock protein 9 [Source:RGD Symbol;Acc:1311806]
ENSRNOG00000008017	Cdk5	cyclin-dependent kinase 5 [Source:RGD Symbol;Acc:70514]
ENSRNOG00000017890	Crhbp	corticotropin releasing hormone binding protein [Source:RGD Symbol;Acc:2403]
ENSRNOG00000003880	Tph2	tryptophan hydroxylase 2 [Source:RGD Symbol;Acc:631332]
ENSRNOG00000018692	Mc4r	melanocortin 4 receptor [Source:RGD Symbol;Acc:3057]
ENSRNOG00000010278	Il6	interleukin 6 [Source:RGD Symbol;Acc:2901]
ENSRNOG00000017601	Srd5a1	steroid-5-alpha-reductase, alpha polypeptide 1 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 1) [Source:RGD Symbol;Acc:3757]
ENSRNOG00000007865	Ephb1	Eph receptor B1 [Source:RGD Symbol;Acc:2556]
ENSRNOG00000020254	Per2	period circadian clock 2 [Source:RGD Symbol;Acc:61945]
ENSRNOG00000048887	NOS2	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:M0R8I7]
ENSRNOG00000020478	Camk4	calcium/calmodulin-dependent protein kinase IV [Source:RGD Symbol;Acc:2264]
ENSRNOG000000031189	Ido1	indoleamine 2,3-dioxygenase 1 [Source:RGD Symbol;Acc:619989]
ENSRNOG000000031743	Gbp2	guanylate binding protein 2, interferon-inducible [Source:RGD Symbol;Acc:621810]
ENSRNOG00000000622	Hint1	histidine triad nucleotide binding protein 1 [Source:RGD Symbol;Acc:1593411]
ENSRNOG00000004005	Camk2b	calcium/calmodulin-dependent protein kinase II beta [Source:RGD Symbol;Acc:2262]
ENSRNOG00000020681	Pth2	parathyroid hormone 2 [Source:RGD Symbol;Acc:1559447]
ENSRNOG00000027976	Il22ra1	interleukin 22 receptor, alpha 1 [Source:RGD Symbol;Acc:1559655]
ENSRNOG00000016346	Prkcd	protein kinase C, delta [Source:RGD Symbol;Acc:67383]
ENSRNOG00000015788	Adora3	adenosine A3 receptor [Source:RGD Symbol;Acc:2051]
ENSRNOG00000017348	Il2	interleukin 2 [Source:RGD Symbol;Acc:620047]
ENSRNOG00000050358	Galr2	galanin receptor 2 [Source:RGD Symbol;Acc:1559447]
ENSRNOG00000021225	Oxt	oxytocin/neurophysin 1 prepropeptide [Source:RGD Symbol;Acc:3238]
ENSRNOG00000020877	Pyy	peptide YY (mapped) [Source:RGD Symbol;Acc:1593289]

ENSRNOG00000007104	Itpr1	inositol 1,4,5-trisphosphate receptor, type 1 [Source:RGD Symbol;Acc:2933]
ENSRNOG00000000521	Cdkn1a	cyclin-dependent kinase inhibitor 1A [Source:RGD Symbol;Acc:69328]
ENSRNOG00000023688	Drd1	dopamine receptor D1 [Source:RGD Symbol;Acc:2518]
ENSRNOG00000000878	Slc44a4	solute carrier family 44, member 4 [Source:RGD Symbol;Acc:1303167]
ENSRNOG00000033942	Grin2a	glutamate receptor, ionotropic, N-methyl D-aspartate 2A [Source:RGD Symbol;Acc:2737]
ENSRNOG00000019374	Csk	c-src tyrosine kinase [Source:RGD Symbol;Acc:1308800]
ENSRNOG00000012489	Cacnb3	calcium channel, voltage-dependent, beta 3 subunit [Source:RGD Symbol;Acc:2248]
ENSRNOG00000017019	Lmx1b	LIM homeobox transcription factor 1 beta [Source:RGD Symbol;Acc:620843]
ENSRNOG00000048522	Avpr1b	arginine vasopressin receptor 1B [Source:RGD Symbol;Acc:61886]
ENSRNOG00000019779	Disc1	disrupted in schizophrenia 1 [Source:RGD Symbol;Acc:631359]
ENSRNOG00000027060	Galr3	galanin receptor 3 [Source:RGD Symbol;Acc:MGI:95747]
ENSRNOG00000013588	Gla1	glycine receptor, alpha 1 subunit [Source:MGI Symbol;Acc:MGI:95749]
ENSRNOG00000049792	Gla3	glycine receptor, alpha 3 subunit [Source:MGI Symbol;Acc:MGI:95749]
ENSRNOG00000008766	Grin2b	glutamate receptor, ionotropic, N-methyl D-aspartate 2B [Source:RGD Symbol;Acc:2738]
ENSRNOG00000016999	Grp	gastrin releasing peptide [Source:RGD Symbol;Acc:621740]
ENSRNOG00000024204	Ifne	interferon, epsilon [Source:RGD Symbol;Acc:1565065]
ENSRNOG00000004647	Il10	interleukin 10 [Source:RGD Symbol;Acc:2886]
ENSRNOG00000007652	Il13	interleukin 13 [Source:RGD Symbol;Acc:68949]
ENSRNOG00000014118	Klkb1	kallikrein B, plasma 1 [Source:RGD Symbol;Acc:67382]
ENSRNOG00000005806	Oxtr	oxytocin receptor [Source:RGD Symbol;Acc:620964]
ENSRNOG00000004165	Prkd1	protein kinase D1 [Source:RGD Symbol;Acc:620964]
ENSRNOG00000017302	Slc6a3	solute carrier family 6 (neurotransmitter transporter), member 3 [Source:RGD Symbol;Acc:3715]
ENSRNOG00000021518	Trim31	tripartite motif-containing 31 [Source:RGD Symbol;Acc:1308607]
ENSRNOG00000028907	Ugt2b7	UDP glucuronosyltransferase 2 family, polypeptide B7 [Source:RGD Symbol;Acc:1308607]

Suppl. Table 2 Genes enriched in nociceptors

All results				
gene	locus	status	FPKM dissociated DRG	FPKM MACS DRG
Cbr2	chr11:120729484-120732021	OK	2.10579	0
Chil3	chr3:106147553-106167564	OK	1.40549	0
Cyp4f15	chr17:32685658-32703349	OK	1.79184	0
Cyt11	chr5:37735518-37739820	OK	1.02638	0
Dhrs2	chr14:55222006-55241440	OK	2.75366	0
Dpt	chr1:164796731-164824266	OK	2.45633	0
Fam180a	chr6:35312745-35326141	OK	1.43753	0
Fgf2	chr3:37348652-37404830	OK	1.53402	0
Gkn3	chr6:87383318-87388935	OK	1.55253	0
Gm266	chr12:111484608-111485823	OK	1.02517	0
GpnmB	chr6:49036517-49058182	OK	1.71284	0
I730030J21Rik	chr15:100730504-100732737	OK	3.77109	0
Inmt	chr6:55170626-55174990	OK	2.03308	0
Lypd2	chr15:74732251-74734313	OK	3.31616	0
Ms4a6c	chr19:11469367-11482196	OK	0.913721	0
Musk	chr4:58285961-58374303	OK	1.60751	0
Retnla	chr16:48842551-48844461	OK	2.15859	0
Rlbp1	chr7:79374869-79387027	OK	4.69787	0
Slc25a18	chr6:120773767-120793982	OK	1.08341	0
Tmem119	chr5:113793728-113800352	OK	1.28718	0
Tpsb2	chr17:25366332-25368092	OK	1.13464	0
Snhg9	chr17:24719530-24719965	OK	0.980643	0
Snord22	chr19:8723486-8726326	OK	30.6743	0
Snord15b	chr7:99477896-99483709	OK	4.91646	0
0610038B21Rik	chr8:77250365-77518578	NOTEST	0.0698523	0
1100001G20Rik	chr11:83746939-83752646	NOTEST	1.02833	0
1110015O18Rik	chr3:4798707-4814911	NOTEST	0.0371664	0
1300002K09Rik	chr4:45848946-45887008	NOTEST	0.131576	0
1600010M07Rik	chr7:109998376-110006646	NOTEST	0.130584	0
1600019K03Rik	chr16:35503169-35509419	NOTEST	0.0719973	0
1700001J11Rik	chr9:40050557-40053025	NOTEST	0.0231706	0
1700001K23Rik	chr19:53248735-53255205	NOTEST	0.0568585	0
1700003G13Rik	chr9:45318265-45347580	NOTEST	0.0343639	0
1700003M07Rik	chr4:129960373-129965138	NOTEST	0.0674483	0
1700007F19Rik	chr3:58141706-58163807	NOTEST	0.0857626	0
1700007P06Rik	chr1:187048406-187215446	NOTEST	0.0798946	0
1700008I05Rik	chrX:135654697-135693790	NOTEST	0.0722297	0
1700011E24Rik	chr17:87389570-87427741	NOTEST	0.0552445	0
1700013F07Rik	chr3:108537583-108544697	NOTEST	0.0919839	0
1700015F17Rik	chr5:5437826-5479143	NOTEST	0.364438	0
1700017G19Rik	chr3:40504864-40522912	NOTEST	0.00719854	0
1700017N19Rik	chr10:100592385-100618391	NOTEST	0.0490064	0
1700019B03Rik	chr8:3470861-3487178	NOTEST	0.0244129	0
1700020L24Rik	chr11:83437693-83441232	NOTEST	0.12078	0
1700020N18Rik	chr1:91404878-91406029	NOTEST	0.307079	0
1700029F12Rik	chr13:97021863-97035254	NOTEST	0.0218903	0
1700029M20Rik	chr4:135626654-135630198	NOTEST	0.00731143	0

1700040L02Rik	chr10:68430955-68541875	NOTEST	0.226297	0
1700042G15Rik	chr4:57359791-57364292	NOTEST	0.0105459	0
1700060C20Rik	chr2:158182532-158229224	NOTEST	0.0506396	0
1700064M15Rik	chr12:99626052-99627974	NOTEST	0.0442266	0
1700067K01Rik	chr8:84001705-84004770	NOTEST	0.0366095	0
1700084C01Rik	chr1:169928938-169934653	NOTEST	0.365021	0
1700092M07Rik	chr19:8740717-8741225	NOTEST	0.0968271	0
1700094J05Rik	chr10:76351253-76442912	NOTEST	0.0229058	0
1700101E01Rik	chr2:28955480-29055066	NOTEST	0.0249813	0
1700105P06Rik	chr19:7356463-7383557	NOTEST	0.144122	0
1700108F19Rik	chr14:76677567-76687108	NOTEST	0.0242751	0
1700109G14Rik	chr14:61292982-61305334	NOTEST	0.150187	0
1700109H08Rik	chr5:3571715-3637101	NOTEST	0.0652587	0
1700113H08Rik	chr10:87058045-87230599	NOTEST	0.0772444	0
1700120C14Rik	chr15:99224975-99262041	NOTEST	0.106959	0
1700120K04Rik	chr7:127603902-127604445	NOTEST	0.0476387	0
1700123O21Rik	chr16:5884792-7412480	NOTEST	0.0342582	0
1700124L16Rik	chr6:83761758-83762508	NOTEST	0.12354	0
1700125H20Rik	chr11:85171095-85181154	NOTEST	0.0502327	0
1810019D21Rik	chr8:106131182-106138722	NOTEST	0.0329069	0
1810021B22Rik	chr15:89071197-89075854	NOTEST	0.0717244	0
1810064F22Rik	chr9:22055459-22389206	NOTEST	0.0163948	0
1810065E05Rik	chr11:58421110-58426023	NOTEST	0.177419	0
2010001E11Rik	chr10:39920381-39926923	NOTEST	0.00826321	0
2010005H15Rik	chr16:36221561-36257427	NOTEST	0.105724	0
2010106C02Rik	chr17:86167784-86657919	NOTEST	0.0430369	0
2010109I03Rik	chr15:74878335-74881704	NOTEST	0.0108027	0
2010308F09Rik	chrX:13234640-13247733	NOTEST	0.0602376	0
2210010C04Rik	chr6:41030267-41035509	NOTEST	0.0364497	0
2210407C18Rik	chr11:58608205-58613492	NOTEST	0.263034	0
2300002M23Rik	chr17:35567484-35568945	NOTEST	0.017406	0
2310002D06Rik	chr12:80507205-80517954	NOTEST	0.185726	0
2310002J15Rik	chr2:25238818-25239897	NOTEST	0.0673416	0
2310015B20Rik	chr10:70204666-70219711	NOTEST	0.439057	0
2310015D24Rik	chr16:13514130-13520419	NOTEST	0.0398512	0
2310016D03Rik	chr12:30410558-30467358	NOTEST	0.0383315	0
2310042E22Rik	chr16:21152658-21153944	NOTEST	0.0148819	0
2310057J18Rik	chr10:28972287-28986306	NOTEST	0.159823	0
2410137M14Rik	chr17:36977700-36981237	NOTEST	0.0260362	0
2610528A11Rik	chr14:37102139-37110101	NOTEST	0.0664013	0
2810404M03Rik	chr8:41827266-42046202	NOTEST	0.0185553	0
2810405F15Rik	chr2:116074547-116076096	NOTEST	0.0127876	0
2810433D01Rik	chr11:102619506-102624416	NOTEST	0.226077	0
2810459M11Rik	chr1:86045862-86055456	NOTEST	0.273099	0
2810471M01Rik	chr11:28681563-28693276	NOTEST	0.0369514	0
2900057B20Rik	chr18:75820177-76148564	NOTEST	0.0211897	0
3110015C05Rik	chr13:111211468-111229431	NOTEST	0.0219545	0
3110035E14Rik	chr1:9548045-9631092	NOTEST	0.0229789	0
3830403N18Rik	chrX:56136571-56153496	NOTEST	0.0197435	0
3830417A13Rik	chrX:64173547-64178778	NOTEST	0.0622205	0
4732490B19Rik	chr11:113203314-113209669	NOTEST	0.0166935	0
4833403I15Rik	chr18:46850038-46905446	NOTEST	0.0646761	0
4833411C07Rik	chr8:10899921-10902334	NOTEST	0.0354974	0

4833417C18Rik	chr11:95858816-95861046	NOTEST	0.0615944	0
4921507L20Rik	chr2:93980033-94010730	NOTEST	0.0247373	0
4921530L21Rik	chr14:95881265-95882775	NOTEST	0.018071	0
4930401O10Rik	chr11:71928470-71940122	NOTEST	0.0276579	0
4930405J17Rik	chr10:20148919-20281590	NOTEST	0.0405162	0
4930415O20Rik	chr15:98571003-98589588	NOTEST	0.0946623	0
4930426D05Rik	chr18:21550376-21656107	NOTEST	0.0121375	0
4930431P03Rik	chr14:44954899-44961307	NOTEST	0.016018	0
4930432J09Rik	chr14:103977627-104027142	NOTEST	0.0537822	0
4930433N12Rik	chr9:3190268-3199813	NOTEST	0.0136673	0
4930444M15Rik	chr14:76514557-76520855	NOTEST	0.0125025	0
4930452G13Rik	chr14:79702919-79712930	NOTEST	0.0207389	0
4930465K10Rik	chr18:77714183-77715445	NOTEST	0.0516901	0
4930465M20Rik	chr12:107723742-107735488	NOTEST	0.0146696	0
4930467D21Rik	chr5:97392416-97588126	NOTEST	0.00688988	0
4930471C04Rik	chr14:64099294-64104235	NOTEST	0.0568139	0
4930479D17Rik	chr6:146657217-146665403	NOTEST	0.104003	0
4930483J18Rik	chr15:81190852-81192757	NOTEST	0.0408263	0
4930483O08Rik	chr7:133128250-133142457	NOTEST	0.0208302	0
4930502A04Rik	chr9:68470901-68520200	NOTEST	0.0243855	0
4930509E16Rik	chr9:72518249-72531858	NOTEST	0.0554732	0
4930524B15Rik	chr11:31965632-31979651	NOTEST	0.00916934	0
4930525D18Rik	chr9:114341110-114364627	NOTEST	0.024811	0
4930542C21Rik	chr16:38017322-38054526	NOTEST	0.0487699	0
4930544M13Rik	chr13:114607227-114697822	NOTEST	0.028373	0
4930545L23Rik	chr2:134786163-135475258	NOTEST	0.00837278	0
4930546K05Rik	chr9:42182237-42209231	NOTEST	0.00576351	0
4930555B11Rik	chr2:57181830-57188257	NOTEST	0.0129417	0
4930556N09Rik	chr10:97035767-97061059	NOTEST	0.0223982	0
4930563E18Rik	chr18:10706859-10711832	NOTEST	0.0270451	0
4930579G18Rik	chr14:54642160-54690742	NOTEST	0.0144698	0
4930583K01Rik	chr7:118243906-118245551	NOTEST	0.104589	0
4930595M18Rik	chrX:81419574-81458122	NOTEST	0.00659061	0
4931406B18Rik	chr7:43492043-43505938	NOTEST	0.0364922	0
4931423N10Rik	chr2:23207475-23267129	NOTEST	0.009825	0
4931429P17Rik	chr13:47960329-48018608	NOTEST	0.0977569	0
4931440F15Rik	chr11:29692897-30026033	NOTEST	0.00608425	0
4931440J10Rik	chr14:62663666-62830126	NOTEST	0.0250497	0
4932414N04Rik	chr2:68657883-68748465	NOTEST	0.00528892	0
4932441J04Rik	chr5:57570083-57717919	NOTEST	0.331554	0
4933400C23Rik	chr9:92718715-92795711	NOTEST	0.03349	0
4933401H06Rik	chr3:135825278-135888572	NOTEST	0.043969	0
4933402C06Rik	chr7:40674736-40691260	NOTEST	0.0228196	0
4933405L10Rik	chr8:105708302-105710168	NOTEST	0.0210156	0
4933406F09Rik	chr14:7412472-7422685	NOTEST	0.0157959	0
4933406G16Rik	chr11:19065274-19075740	NOTEST	0.0141918	0
4933407L21Rik	chr1:85928482-85931756	NOTEST	0.197995	0
4933408N05Rik	chr8:114205639-114374070	NOTEST	0.0521482	0
4933411E08Rik	chr10:117925458-117948307	NOTEST	0.0371639	0
4933411G11Rik	chr5:143181016-143205068	NOTEST	0.00930555	0
4933411K16Rik	chr19:42045850-42070939	NOTEST	0.0278198	0
4933412O06Rik	chr13:15781663-15802630	NOTEST	0.0187204	0
4933413J09Rik	chr14:26357546-26400456	NOTEST	0.0181182	0

4933416C03Rik	chr10:116018362-116274929	NOTEST	0.00887428	0
4933416M06Rik	chr13:101254318-101293396	NOTEST	0.0505879	0
4933422A05Rik	chr9:35281104-35285423	NOTEST	0.0157761	0
4933422H20Rik	chr11:115440544-115448268	NOTEST	0.118631	0
4933427D06Rik	chr6:89096114-89110037	NOTEST	0.0146381	0
4933430M04Rik	chr11:24481908-24569951	NOTEST	0.101688	0
4933432K03Rik	chr7:121587385-121589836	NOTEST	0.140523	0
4933433G15Rik	chr9:75410183-75415537	NOTEST	0.0169714	0
4933439K11Rik	chr1:172521129-172550806	NOTEST	0.0466968	0
5031425F14Rik	chr2:166447450-166458770	NOTEST	0.0600514	0
5330413P13Rik	chr2:131820005-131847656	NOTEST	0.00560845	0
5430402O13Rik	chr6:50566642-50596590	NOTEST	0.135627	0
5430419D17Rik	chr7:131174401-131250945	NOTEST	0.0125819	0
5430421N21Rik	chr15:101431013-101491512	NOTEST	0.0103634	0
5530401A14Rik	chr11:80880162-81968396	NOTEST	0.0117907	0
5730435O14Rik	chr10:41538848-41587753	NOTEST	0.0390855	0
5730559C18Rik	chr1:136213521-136234280	NOTEST	0.0312713	0
5830416I19Rik	chr5:64044972-64050226	NOTEST	0.0158593	0
5830418P13Rik	chr9:103423577-103480328	NOTEST	0.00975221	0
6030407O03Rik	chr1:73618380-73864466	NOTEST	0.054449	0
6030466F02Rik	chr8:123733957-123739941	NOTEST	0.013984	0
6430531B16Rik	chr7:139972302-139978755	NOTEST	0.107584	0
6530411M01Rik	chr17:9147718-9168022	NOTEST	0.317147	0
7630403G23Rik	chr9:34042370-34059019	NOTEST	0.0220294	0
9030619P08Rik	chr15:75427605-75431829	NOTEST	0.0246851	0
9130227L01Rik	chr1:55931240-55972098	NOTEST	0.00945517	0
9130409I23Rik	chr1:181051236-181060667	NOTEST	0.0429884	0
9330158H04Rik	chr6:36333137-36524774	NOTEST	0.0494641	0
9330175E14Rik	chr8:94433126-94435103	NOTEST	0.02496	0
9330179D12Rik	chr6:127125708-127212419	NOTEST	0.121608	0
9430018G01Rik	chr6:43345006-43666175	NOTEST	0.018685	0
9530027J09Rik	chrX:48256933-48285426	NOTEST	0.0116206	0
9630013A20Rik	chr14:84443562-84537060	NOTEST	0.0735575	0
9630028B13Rik	chr1:185429356-185441819	NOTEST	0.00536959	0
A1cf	chr19:31868760-31949406	NOTEST	0.0150662	0
A230020J21Rik	chr1:191005831-191029781	NOTEST	0.0111389	0
A330048O09Rik	chr13:48272417-48273884	NOTEST	0.151321	0
A330070K13Rik	chr5:130369457-130840645	NOTEST	0.0798984	0
A330076C08Rik	chr13:44193588-44216487	NOTEST	0.0204146	0
A430078G23Rik	chr8:3353414-3390299	NOTEST	0.024491	0
A530016L24Rik	chr12:112489447-112499927	NOTEST	0.00661502	0
A530064D06Rik	chr17:48151895-48167257	NOTEST	0.0433066	0
A530099J19Rik	chr13:19727416-19732951	NOTEST	0.0354392	0
A630020A06	chr15:3996038-4015858	NOTEST	0.0106507	0
A630077J23Rik	chr4:43751858-43759464	NOTEST	0.0213992	0
A730020M07Rik	chr3:121634935-121646453	NOTEST	0.123691	0
A730090N16Rik	chr3:65109367-65378225	NOTEST	0.0318365	0
A830009L08Rik	chr13:91368989-91388085	NOTEST	0.0197724	0
A930001A20Rik	chr3:14971200-15002727	NOTEST	0.0444078	0
A930001C03Rik	chr19:4425456-4477143	NOTEST	0.0226637	0
A930003A15Rik	chr16:19876567-19884274	NOTEST	0.0630948	0
A930006I01Rik	chr2:103338600-103372764	NOTEST	0.00897951	0
A930009A15Rik	chr10:115450313-115587780	NOTEST	0.625976	0

AI607873	chr1:173723427-173741809	NOTEST	0.270564	0
AU019990	chr2:132598195-132653064	NOTEST	0.00866522	0
AU022793	chr15:39962648-39967515	NOTEST	0.010335	0
AU040972	chr11:79339891-79581609	NOTEST	0.0232048	0
AW495222	chr13:93674435-93752823	NOTEST	0.165272	0
AW822252	chrX:53696921-53716578	NOTEST	0.0207153	0
Aass	chr6:23072172-23132986	NOTEST	0.363167	0
Abcb11	chr2:69238281-69342616	NOTEST	0.00366491	0
Abcc2	chr19:43782307-43838218	NOTEST	0.013223	0
Abcg5	chr17:84658233-84700333	NOTEST	0.00934817	0
Acan	chr7:79053482-79115099	NOTEST	0.27768	0
Acot3	chr12:84052150-84059564	NOTEST	0.0502852	0
Acot5	chr12:84069324-84076019	NOTEST	0.0146784	0
Actbl2	chr13:111255012-111257749	NOTEST	0.00635107	0
Actc1	chr2:114047288-114052811	NOTEST	0.0434025	0
Actg2	chr6:83512908-83536251	NOTEST	0.6673	0
Actl7b	chr4:56740004-56741425	NOTEST	0.0141335	0
Adam18	chr8:24602245-24674755	NOTEST	0.00892198	0
Adam28	chr14:68604997-68655842	NOTEST	0.00509327	0
Adam7	chr14:68497336-68533689	NOTEST	0.0117783	0
Adamdec1	chr14:68563386-68582072	NOTEST	0.0315242	0
Adig	chr2:158502611-158508198	NOTEST	0.0377116	0
Adora3	chr3:105870857-105924044	NOTEST	0.0101217	0
Adrb3	chr8:27225775-27229588	NOTEST	0.0148465	0
Agbl2	chr2:90782743-90816231	NOTEST	0.239347	0
Agmat	chr4:141746674-141759263	NOTEST	0.0143338	0
Agr2	chr12:35992924-36004081	NOTEST	0.0290052	0
Ahsg	chr16:22857844-22899451	NOTEST	0.0536265	0
Aicda	chr6:122553808-122564180	NOTEST	0.00829204	0
Akr1b7	chr6:34412361-34423137	NOTEST	0.0513321	0
Aldh8a1	chr10:21377299-21396578	NOTEST	0.016809	0
Alx1	chr10:103007846-103028777	NOTEST	0.00751208	0
Alx3	chr3:107595030-107605875	NOTEST	0.0375681	0
Alx4	chr2:93642433-93681339	NOTEST	0.0321387	0
Amdhd1	chr10:93523337-93540033	NOTEST	0.00775613	0
Ampd1	chr3:103074013-103099720	NOTEST	0.0170444	0
Ankrd1	chr19:36111964-36119844	NOTEST	0.0232925	0
Ankrd22	chr19:34100942-34166041	NOTEST	0.0103834	0
Ankrd63	chr2:118699102-118703963	NOTEST	0.0110511	0
Ankrd7	chr6:18866317-18879584	NOTEST	0.058915	0
Ankub1	chr3:57667421-57692537	NOTEST	0.210056	0
Ano9	chr7:141101218-141117806	NOTEST	0.00572869	0
Anxa10	chr8:62057041-62123193	NOTEST	0.0105119	0
Aox2	chr1:58278325-58379264	NOTEST	0.00752063	0
Apela	chr8:65028416-65037336	NOTEST	0.0208985	0
Apoa1	chr9:46228629-46230469	NOTEST	0.0219473	0
Apoc2	chr7:19671578-19677941	NOTEST	0.0616829	0
Apof	chr10:128267996-128270151	NOTEST	0.0192871	0
Apol6	chr15:77015486-77057108	NOTEST	0.054348	0
Apol7b	chr15:77422208-77447460	NOTEST	0.00850021	0
Apol7d	chr1:71653334-71662843	NOTEST	0.0173944	0
Aqp12	chr1:93006333-93012269	NOTEST	0.0194956	0
Aqp2	chr15:99579055-99584545	NOTEST	0.03985	0

Aqp5	chr15:99591027-99594829	NOTEST	0.0127686	0
Aqp7	chr4:41033073-41048136	NOTEST	0.0304778	0
Aqp8	chr7:123462293-123468003	NOTEST	0.0134322	0
Arhgap15os	chr2:43748823-44387623	NOTEST	0.0598514	0
Arhgap40	chr2:158512795-158550628	NOTEST	0.0293479	0
Arhgap8	chr15:84714628-84772207	NOTEST	0.0537307	0
Arl14epl	chr18:46921814-46934222	NOTEST	0.00890044	0
Arl9	chr5:77004054-77061522	NOTEST	0.0811829	0
Armc4	chr18:7088232-7297901	NOTEST	0.00525308	0
Arr3	chrX:100605496-100618493	NOTEST	0.0148927	0
Arsi	chr18:60912239-60917768	NOTEST	0.178116	0
Art1	chr7:102101742-102111148	NOTEST	0.120915	0
Art2b	chr7:101578859-101581161	NOTEST	0.0484039	0
Asb10	chr5:24532696-24540448	NOTEST	0.0420317	0
Asb11	chrX:164438100-164459100	NOTEST	0.0862043	0
Asb16	chr11:102268822-102278061	NOTEST	0.0786297	0
Asgr2	chr11:70092643-70106186	NOTEST	0.0625033	0
Aspdh	chr7:44465434-44467751	NOTEST	0.0944149	0
Atp12a	chr14:56365067-56388551	NOTEST	0.0134392	0
Atp1a4	chr1:172223507-172258424	NOTEST	0.0577967	0
Atp4b	chr8:13386208-13396778	NOTEST	0.0315291	0
Atp6v0d2	chr4:19876837-19922566	NOTEST	0.0307565	0
Avpr1b	chr1:131599113-131612000	NOTEST	0.00948384	0
Azgp1	chr5:137981520-137990232	NOTEST	0.184686	0
B230119M05Rik	chrX:134684561-134686462	NOTEST	0.0249854	0
B230214G05Rik	chr15:88314873-88372651	NOTEST	0.0137222	0
B430010I23Rik	chr8:40990911-41133726	NOTEST	0.00750083	0
B430306N03Rik	chr17:48316161-48326511	NOTEST	0.0440516	0
BB123696	chr13:52729369-52757205	NOTEST	0.0576029	0
BB557941	chr2:57127476-57181754	NOTEST	0.160721	0
BC021785	chr10:39946911-39986646	NOTEST	0.0173282	0
BC024139	chr15:76101487-76126556	NOTEST	0.00706151	0
BC027072	chr17:71743554-71752885	NOTEST	0.00334902	0
BC030870	chr8:65085614-65129537	NOTEST	0.0999094	0
BC039771	chr2:145701194-145753672	NOTEST	0.0649972	0
BC089597	chr10:127866475-127877319	NOTEST	0.0162131	0
Bach2os	chr4:32417434-32586108	NOTEST	0.0228511	0
Barhl1	chr2:28907679-28916440	NOTEST	0.0110775	0
Barx1	chr13:48663035-48666507	NOTEST	0.0472579	0
Bbox1	chr2:110265082-110305725	NOTEST	0.0255313	0
Bcl2a1b	chr9:89199272-89207838	NOTEST	0.470327	0
Bcl2l10	chr9:75347757-75351640	NOTEST	0.0188656	0
Bdkrb1	chr12:105604090-105605428	NOTEST	0.0151686	0
Best3	chr10:116986313-117025040	NOTEST	0.187842	0
Bglap2	chr3:88377735-88378699	NOTEST	0.124878	0
Bhlha15	chr5:144190285-144194441	NOTEST	0.0150039	0
Bpifa2	chr2:154008275-154016073	NOTEST	0.0479862	0
Bpifa5	chr2:154162606-154168446	NOTEST	0.1632	0
Bpifb4	chr2:153940861-153963852	NOTEST	0.0437738	0
Bpifc	chr10:85959690-86011860	NOTEST	0.0161363	0
Bricd5	chr17:24473549-24479078	NOTEST	0.0203222	0
Btbd16	chr7:130774068-130825899	NOTEST	0.143201	0
Btbd18	chr2:84659078-84668781	NOTEST	0.0115932	0

Btn2a2	chr13:23477062-23488857	NOTEST	0.154435	0
C130021I20Rik	chr2:33641192-33645663	NOTEST	0.516077	0
C130026L21Rik	chr5:111581560-111587153	NOTEST	0.0105248	0
C130080G10Rik	chr2:114054395-114061502	NOTEST	0.0434078	0
C1ql1	chr11:102939263-102946461	NOTEST	0.128783	0
C230035I16Rik	chr13:23427975-23431017	NOTEST	0.161559	0
C330021F23Rik	chr8:3567997-3584776	NOTEST	0.0620698	0
C3ar1	chr6:122847139-122856157	NOTEST	0.389779	0
C730002L08Rik	chr19:20492714-20556410	NOTEST	0.0260592	0
C8a	chr4:104815679-104876398	NOTEST	0.00483123	0
C9	chr15:6445332-6498476	NOTEST	0.010297	0
C920009B18Rik	chr10:22158608-22374139	NOTEST	0.00771863	0
Cacng1	chr11:107703217-107716476	NOTEST	0.018189	0
Capn12	chr7:28881655-28962280	NOTEST	0.0534655	0
Capn13	chr17:73306463-73399296	NOTEST	0.00798247	0
Capns2	chr8:92855349-92919279	NOTEST	0.0422637	0
Capsl	chr15:9436027-9466035	NOTEST	0.176577	0
Car5a	chr8:121907832-121944912	NOTEST	0.0329251	0
Casq2	chr3:102086454-102146512	NOTEST	0.641449	0
Catsper4	chr4:134211967-134227383	NOTEST	0.0139382	0
Cav3	chr6:112459504-112472872	NOTEST	0.0743643	0
Ccdc108	chr1:74902079-74935599	NOTEST	0.0228797	0
Ccdc129	chr6:55837017-55978598	NOTEST	0.022629	0
Ccdc146	chr5:21292960-21424677	NOTEST	0.0171444	0
Ccdc153	chr9:44240676-44247306	NOTEST	0.020598	0
Ccdc185	chr1:182747125-182749180	NOTEST	0.0104029	0
Ccdc19	chr1:172521129-172550806	NOTEST	0.044327	0
Ccdc33	chr9:58028681-58118823	NOTEST	0.0218911	0
Ccdc36	chr9:108403632-108428482	NOTEST	0.0334341	0
Ccdc38	chr10:93540631-93605245	NOTEST	0.0111387	0
Ccdc42	chr11:68587036-68597951	NOTEST	0.0570088	0
Ccdc63	chr5:122108051-122138062	NOTEST	0.132496	0
Ccdc7	chr8:128980018-129065492	NOTEST	0.0146105	0
Ccer1	chr10:97644067-97967090	NOTEST	0.00967132	0
Cck	chr9:121489823-121495694	NOTEST	0.284405	0
Ccl12	chr11:82101844-82103399	NOTEST	0.652058	0
Ccl19	chr4_JH584294_random:10233	NOTEST	0.0646249	0
Ccl21a,Gm1987	chr4_JH584294_random:12065	LOWDAT	0.104784	0
Ccl21c	chr4_GL456350_random:21132	NOTEST	0.0586854	0
Ccl8	chr11:82115184-82116799	NOTEST	0.343666	0
Ccna1	chr3:55045468-55055055	NOTEST	0.0133462	0
Ccr4	chr9:114490315-114496544	NOTEST	0.00665678	0
Ccr8	chr9:120092132-120094906	NOTEST	0.0744428	0
Cd163l1	chr7:140218266-140231145	NOTEST	0.00529027	0
Cd1d2	chr3:86986585-86989532	NOTEST	0.0173923	0
Cd200r1	chr16:44765735-44794977	NOTEST	0.0617471	0
Cd200r2	chr16:44867096-44915840	NOTEST	0.0104103	0
Cd200r3	chr16:44943677-44981380	NOTEST	0.0329409	0
Cd209a	chr8:3743394-3748984	NOTEST	0.410691	0
Cd209b	chr8:3917654-3926841	NOTEST	0.0412324	0
Cd209e	chr8:3847972-3854286	NOTEST	0.0102707	0
Cd209g	chr8:4134735-4137707	NOTEST	0.0390573	0
Cd300e	chr11:115051916-115062038	NOTEST	0.0312969	0

Cd300ld	chr11:114982445-114989886	NOTEST	0.208377	0
Cd5l	chr3:87357880-87371074	NOTEST	0.0309302	0
Cdh17	chr4:11758156-11817905	NOTEST	0.00527728	0
Cdr1	chrX:61183245-61185558	NOTEST	0.0253976	0
Ceacam16	chr7:19852002-19861299	NOTEST	0.02472	0
Ceacam20	chr7:19965411-19991111	NOTEST	0.018757	0
Ceacam3	chr7:17150399-17163231	NOTEST	0.0100433	0
Ces1d	chr8:93166071-93197804	NOTEST	0.0383444	0
Ces2c	chr8:104847067-104854482	NOTEST	0.0103012	0
Cftr	chr6:18170686-18322769	NOTEST	0.00843671	0
Chmp4c	chr3:10366972-10391005	NOTEST	0.0885294	0
Chn1os3	chr2:73596525-73775346	NOTEST	0.0201216	0
Chrdl2	chr7:100006403-100034726	NOTEST	0.0792247	0
Chrm5	chr2:112479071-112480817	NOTEST	0.109304	0
Chrna2	chr14:66140959-66152948	NOTEST	0.010348	0
Chrnd	chr1:87190596-87200070	NOTEST	0.00582627	0
Chrng	chr1:87205810-87211835	NOTEST	0.0112182	0
Chst4	chr8:110029074-110039334	NOTEST	0.00957505	0
Clca6	chr3:144952485-144975045	NOTEST	0.0122667	0
Cldn16	chr16:26463134-26482764	NOTEST	0.017772	0
Cldn2	chrX:139800807-139811388	NOTEST	0.0980482	0
Cldn22	chr8:47824481-47825475	NOTEST	0.225334	0
Cldn3	chr5:134986213-135001350	NOTEST	0.0800983	0
Cldn7	chr11:69964778-69967886	NOTEST	0.0683264	0
Clec10a	chr11:70166622-70170836	NOTEST	0.321336	0
Clec12b	chr6:129375512-129385874	NOTEST	0.0276576	0
Clec2h	chr6:128662384-128677374	NOTEST	0.0289806	0
Clec2i	chr6:128848043-128898167	NOTEST	0.0670556	0
Clec3a	chr8:114418033-114428133	NOTEST	0.012615	0
Clec4a3	chr6:122952514-122969878	NOTEST	0.44121	0
Clec4b1	chr6:123049961-123071555	NOTEST	0.198106	0
Clec4n	chr6:123229842-123247024	NOTEST	0.207677	0
Clec5a	chr6:40529090-40910666	NOTEST	0.0775583	0
Cml3	chr6:85760630-85765744	NOTEST	0.0315551	0
Cnfn	chr7:25367615-25369724	NOTEST	0.060127	0
Cnga1	chr5:72603696-72642752	NOTEST	0.00717679	0
Col9a1	chr1:24177609-24252738	NOTEST	0.00664613	0
Cox8b	chr7:140898941-140900446	NOTEST	0.106659	0
Cpa2	chr6:30541641-30564473	NOTEST	0.126399	0
Cpa4	chr6:30568375-30591747	NOTEST	0.0277812	0
Cphx1,Cphx2	chr14:26221903-26235740	LOWDAT	0.0311139	0
Cphx2	chr14:26221903-26235740	NOTEST	0.0168467	0
Cplx4	chr18:65955721-65970178	NOTEST	0.0117137	0
Cpn2	chr16:30256378-30267532	NOTEST	0.00785395	0
Cpvl	chr6:53873278-53978673	NOTEST	0.0401224	0
Cpz	chr5:35502217-35525626	NOTEST	0.517305	0
Crb2	chr2:37776248-38287384	NOTEST	0.0286502	0
Crb3	chr17:57062276-57065914	NOTEST	0.0349888	0
Creb3l3	chr10:81084332-81098872	NOTEST	0.0180043	0
Crisp1	chr17:40293757-40319207	NOTEST	0.412206	0
Crnde	chr8:92326030-92356120	NOTEST	0.0945975	0
Crp	chr1:172698055-172699966	NOTEST	0.0107731	0
Crx	chr7:15865946-15879955	NOTEST	0.0120245	0

Crybb2	chr5:113058264-113068766	NOTEST	0.205169	0
Cryga	chr1:65100388-65103363	NOTEST	0.139135	0
Crygn	chr5:24751001-24757843	NOTEST	0.233651	0
Crygs	chr16:22805202-22811410	NOTEST	0.615936	0
Csn1s2a	chr5:87774566-87788797	NOTEST	0.152557	0
Csprs	chr1_GL456221_random:11157	NOTEST	0.00723098	0
Csrp3	chr7:48830397-48848051	NOTEST	0.0541587	0
Cst12	chr2:148789360-148793437	NOTEST	0.295314	0
Ctrb1	chr8:111686509-111691010	NOTEST	0.023598	0
Ctsg	chr14:56099880-56102574	NOTEST	0.0862473	0
Cxcl13	chr5:95956938-95961068	NOTEST	0.0168117	0
Cxcr5	chr9:44511786-44526421	NOTEST	0.0640672	0
Cyct	chr2:76353942-76360448	NOTEST	0.040489	0
Cyp11a1	chr9:58015016-58027023	NOTEST	0.0539122	0
Cyp24a1	chr2:170482964-170519070	NOTEST	0.0218493	0
Cyp27b1	chr10:127048245-127053006	NOTEST	0.00820233	0
Cyp2b10	chr7:25897657-25926624	NOTEST	0.0404331	0
Cyp2c66	chr19:39113897-39186756	NOTEST	0.0112874	0
Cypt2	chrX:105499771-105500637	NOTEST	0.0328583	0
D030018L15Rik	chr15:96073336-96079552	NOTEST	0.0171221	0
D030025P21Rik	chr12:84783211-84879755	NOTEST	0.0368317	0
D330045A20Rik	chrX:139480366-139554580	NOTEST	0.106342	0
D630024D03Rik	chr11:31800687-31824547	NOTEST	0.179431	0
D630029K05Rik	chr10:116964739-116969107	NOTEST	0.0293533	0
D630033O11Rik	chr9:43259878-43280075	NOTEST	0.374827	0
D630039A03Rik	chr4:57908383-57916264	NOTEST	0.00638717	0
D6Ert527e	chr6:87104745-87113003	NOTEST	0.027551	0
D830013O20Rik	chr12:73364074-73409563	NOTEST	0.0332661	0
D830030K20Rik	chr14:3846244-3856080	NOTEST	0.0133163	0
D830032E09Rik	chr1:107917258-107950947	NOTEST	0.00846342	0
D830046C22Rik	chr5:139359738-139460534	NOTEST	0.0253714	0
D930015M05Rik	chr2:92403646-92434069	NOTEST	0.0195982	0
Dcdc2b	chr4:129608330-129614257	NOTEST	0.0519345	0
Dct	chr14:118012789-118052246	NOTEST	0.00781439	0
Ddo	chr10:40630010-40649931	NOTEST	0.168365	0
Defb20	chr2:152477062-152479934	NOTEST	0.153412	0
Defb28	chr2:152518254-152521447	NOTEST	0.166453	0
Defb30	chr14:63034086-63037846	NOTEST	0.0685829	0
Dhrs7c	chr11:67798270-67816002	NOTEST	0.0979871	0
Dhrs9	chr2:69380461-69403086	NOTEST	0.0545617	0
Dio3	chr12:110279229-110281097	NOTEST	0.010335	0
Dio3os	chr12:110275384-110278129	NOTEST	0.0160018	0
Dlx2	chr2:71543407-71546754	NOTEST	0.0160585	0
Dlx5	chr6:6877800-6882068	NOTEST	0.0153011	0
Dlx6	chr6:6820545-6869533	NOTEST	0.0223113	0
Dmr	chr5:144244436-144361005	NOTEST	0.0342588	0
Dmrt2	chr19:25672410-25678991	NOTEST	0.00902272	0
Dmrta1	chr4:89688197-89694766	NOTEST	0.022404	0
Dnajb13	chr7:100503019-100514815	NOTEST	0.0798729	0
Dnajb7	chr15:81400187-81454888	NOTEST	0.0393572	0
Dnase2b	chr3:146581372-146631483	NOTEST	0.0178666	0
Dpep2	chr8:105985056-105996423	NOTEST	0.0439541	0
Dpep3	chr8:105973519-105979419	NOTEST	0.0232883	0

Dpy19I2	chr9:24557047-24696293	NOTEST	0.0168459	0
Dsc3	chr18:19960929-20002097	NOTEST	0.00336462	0
Dspp	chr5:104170711-104180127	NOTEST	0.00380478	0
Duoxa2	chr2:122298899-122302885	NOTEST	0.0115969	0
Dynap	chr18:70240428-70244584	NOTEST	0.117504	0
E030003E18Rik	chr19:20492714-20556410	NOTEST	0.749112	0
E030019B06Rik	chr7:139600950-139616329	NOTEST	0.0256015	0
E130018N17Rik	chr2:168152602-168154513	NOTEST	0.046585	0
E130215H24Rik	chr2:150618110-150668932	NOTEST	0.561693	0
E130304I02Rik	chr7:35772345-35838074	NOTEST	0.071873	0
E230016K23Rik	chr11:83582060-83623693	NOTEST	0.0288133	0
E230029C05Rik	chr7:90029158-90049071	NOTEST	0.140418	0
E330013P04Rik	chr19:60144674-60162591	NOTEST	0.0183675	0
E330017A01Rik	chr16:58635261-58638403	NOTEST	0.0682257	0
E330017L17Rik	chr4:129906225-129908996	NOTEST	0.0310037	0
E330021D16Rik	chr6:136400318-136415569	NOTEST	0.0119897	0
E330034G19Rik	chr14:24293363-24309959	NOTEST	0.0124985	0
Ear1	chr14:43818764-43819639	NOTEST	0.539961	0
Ear6,Ear7	chr14:51853767-51854642	NOTEST	0.0634893	0
Ear7	chr14:51853767-51854642	LOWDAT	0.198717	0
Eci3	chr13:34924408-34963809	NOTEST	0.0422964	0
Ect2l	chr10:18129021-18210890	NOTEST	0.0420444	0
Efcab9	chr11:32522732-32527574	NOTEST	0.244762	0
Eif4e1b	chr13:54783997-54788458	NOTEST	0.0114456	0
Elane	chr10:79697304-80369637	NOTEST	0.213373	0
Elf5	chr2:103412097-103450988	NOTEST	0.335418	0
Ell3	chr2:121439026-121442601	NOTEST	0.0226488	0
Emr4	chr17:55749983-55853662	NOTEST	0.0926888	0
Epgn	chr5:91027516-91035212	NOTEST	0.0357044	0
Epha1	chr6:42349827-42380558	NOTEST	0.0447817	0
Epo	chr5:137483019-137485816	NOTEST	0.0380831	0
Eppk1	chr15:76101487-76126556	NOTEST	0.00732999	0
Epx	chr11:87863997-87875536	NOTEST	0.0548187	0
Erbp4	chr1:68039965-69108059	NOTEST	0.0996245	0
Erich4	chr7:25614620-25615892	NOTEST	0.144701	0
Esp8	chr17:40520021-40530702	NOTEST	0.0478127	0
Eva1a	chr6:82041627-82093099	NOTEST	0.797782	0
Evi2a-evi2b,Evi2b	chr11:79339891-79581609	NOTEST	0.00351872	0
Eya4	chr10:23104167-23349903	NOTEST	0.169663	0
F7	chr8:13026033-13035809	NOTEST	0.0109853	0
Faim3	chr1:130865776-130880790	NOTEST	0.232658	0
Fam181a	chr12:103314958-103317065	NOTEST	0.099995	0
Fam187a	chr11:102881243-102886731	NOTEST	0.0267512	0
Fam187b	chr7:30973803-30989725	NOTEST	0.0698183	0
Fam227b	chr2:125859108-126152004	NOTEST	0.0763982	0
Fam229a	chr4:129491189-129491956	NOTEST	0.0486419	0
Fam26f	chr10:34126066-34127972	NOTEST	0.0965756	0
Fam3b	chr16:97471085-97504936	NOTEST	0.0599714	0
Fam47e	chr5:92571536-92591284	NOTEST	0.121619	0
Fam71a	chr1:191162583-191164817	NOTEST	0.0094822	0
Fam71e2	chr7:4753225-4771270	NOTEST	0.00774709	0
Fam83a	chr15:57985902-58010702	NOTEST	0.0193785	0
Fat2	chr11:55250609-55312257	NOTEST	0.00850917	0

Fate1	chrX:71972985-71989046	NOTEST	0.0775341	0
Fbxo43	chr15:36150059-36164884	NOTEST	0.00950366	0
Fbxw16	chr9:109432317-109449140	NOTEST	0.0246331	0
Fcer1a	chr1:173221270-173227229	NOTEST	0.0418633	0
Fcer2a	chr8:3681736-3694174	NOTEST	0.082901	0
Fcgbp	chr7:28071235-28120864	NOTEST	0.00914579	0
Fcgr1	chr3:96282908-96293969	NOTEST	0.241399	0
Fcgr4	chr1:171018925-171029761	NOTEST	0.166149	0
Fcna	chr2:25624666-25627974	NOTEST	0.275869	0
Fcnb	chr2:28076478-28084878	NOTEST	0.0388277	0
Fcrl1	chr3:87376386-87392133	NOTEST	0.0595541	0
Fer1l4	chr2:156019139-156052947	NOTEST	0.00325415	0
Fev	chr1:74881508-74885408	NOTEST	0.0547363	0
Ffar4	chr19:38097078-38114263	NOTEST	0.0144665	0
Fga	chr3:83026152-83033617	NOTEST	0.00746821	0
Fgf16	chrX:105764476-105776532	NOTEST	0.0181478	0
Fgf21	chr7:45613889-45615490	NOTEST	0.0216879	0
Fgf8	chr19:45736797-45742884	NOTEST	0.0214209	0
Fgfr4	chr13:55152817-55168759	NOTEST	0.0309023	0
Fhl5	chr4:25199908-25242876	NOTEST	0.214562	0
Fitm1	chr14:55575673-55576952	NOTEST	0.0243058	0
Fkbp6	chr5:135291703-135350044	NOTEST	0.0166663	0
Fmo4	chr1:162793882-162812549	NOTEST	0.255973	0
Folr4	chr9:14885813-14903951	NOTEST	0.0155529	0
Foxa1	chr12:57540631-57546121	NOTEST	0.0172302	0
Foxd4	chr19:24898964-24901309	NOTEST	0.00803155	0
Foxh1	chr15:76668223-76669948	NOTEST	0.0442992	0
Foxi2	chr7:135410366-135413615	NOTEST	0.0368251	0
Foxl1	chr8:121127684-121130644	NOTEST	0.0183144	0
Foxn1	chr11:78357576-78386608	NOTEST	0.00525923	0
G630090E17Rik	chr10:39946911-39986646	NOTEST	0.0699512	0
G6b	chr17:35062692-35066184	NOTEST	0.043403	0
Gabrp	chr11:33550780-33578957	NOTEST	0.0055896	0
Gad1os	chr2:70489939-70602012	NOTEST	0.0265099	0
Gal3st2	chr1:93861343-93876494	NOTEST	0.00608887	0
Gapdhs	chr7:30729778-30743681	NOTEST	0.0137039	0
Gapt	chr13:110352614-110357172	NOTEST	0.104273	0
Gareml	chr5:30103583-30154980	NOTEST	0.148869	0
Gata4	chr14:63198914-63245260	NOTEST	0.0396015	0
Gata6	chr18:11042036-11085635	NOTEST	0.0827777	0
Gbx2	chr1:89927961-89931176	NOTEST	0.0100171	0
Gcg	chr2:62474529-62483653	NOTEST	0.01816	0
Gchfr	chr2:119167787-119172389	NOTEST	0.555823	0
Gcsam	chr16:45610439-45622867	NOTEST	0.0339501	0
Gdf5	chr2:155941024-155945364	NOTEST	0.0823171	0
Gfral	chr9:76164101-76213657	NOTEST	0.00857738	0
Gja10	chr4:32600864-32602382	NOTEST	0.0538519	0
Gja3	chr14:57034459-57058030	NOTEST	0.0229871	0
Gja6	chrX:160768012-160994681	NOTEST	0.0106218	0
Gjb3	chr4:127325234-127330836	NOTEST	0.0395219	0
Gjb4	chr4:127351085-127354081	NOTEST	0.0268324	0
Gjb5	chr4:127354808-127358164	NOTEST	0.125216	0
Gldnos	chr9:54268579-54341777	NOTEST	0.0305591	0

Gli2	chr1:118834060-119053619	NOTEST	0.154519	0
Glp1r	chr17:30901866-30936510	NOTEST	0.0704683	0
Glr4	chrX:136732947-136803361	NOTEST	0.0159879	0
Gltpd2	chr11:70519208-70520736	NOTEST	0.032241	0
Glyat13	chr17:40904740-40914350	NOTEST	0.0271426	0
Gm10364	chr14:55038461-55042976	NOTEST	0.154086	0
Gm10390	chr5:120116512-120198971	NOTEST	0.051636	0
Gm10406	chr14:7006114-7027449	NOTEST	0.00919031	0
Gm10416	chr5:109833500-109834142	NOTEST	0.567405	0
Gm10433	chr12:100187967-100193538	NOTEST	0.0181012	0
Gm10440	chr5:54349991-54358542	NOTEST	0.0353109	0
Gm10536	chr18:56936259-56940518	NOTEST	0.0174301	0
Gm10556	chr18:4812485-4850959	NOTEST	0.00928842	0
Gm10635	chr9:79444036-79519302	NOTEST	0.00517167	0
Gm10649	chr8:76749086-76900173	NOTEST	0.0273708	0
Gm10653	chr9:62838786-62875917	NOTEST	0.0334679	0
Gm10745	chr3:11823228-11844359	NOTEST	0.0146224	0
Gm10768	chr19:43838802-43840845	NOTEST	0.010471	0
Gm10787	chr10:77011994-77022214	NOTEST	0.0247742	0
Gm10804	chr2:93419101-93469874	NOTEST	0.00787996	0
Gm10863	chr15:79166065-79216401	NOTEST	0.595902	0
Gm11190	chr11:77912126-77929288	NOTEST	0.0393422	0
Gm11201	chr11:79014800-79146354	NOTEST	0.017021	0
Gm11346	chr13:24582188-24733806	NOTEST	0.071927	0
Gm11351	chr13:25921034-25966316	NOTEST	0.0428284	0
Gm11517	chr11:96789135-96808640	NOTEST	0.181856	0
Gm11541	chr11:94694497-94704499	NOTEST	0.0108972	0
Gm11627	chr11:102576398-102579119	NOTEST	0.475805	0
Gm11978	chr11:6650147-6677475	NOTEST	0.0311024	0
Gm12	chr11:98598290-98599586	NOTEST	0.0277713	0
Gm12130	chr11:38491547-38520045	NOTEST	0.00764573	0
Gm12159	chr11:45102865-45116928	NOTEST	0.0146225	0
Gm12633	chr4:90359624-90361314	NOTEST	0.125362	0
Gm12709	chr4:102760134-103011965	NOTEST	0.0225554	0
Gm13031	chr4:140906359-140957902	NOTEST	0.070183	0
Gm13154	chr4:147553276-147585201	NOTEST	0.00655524	0
Gm13546	chr2:58163973-58177063	NOTEST	0.0223707	0
Gm13547	chr2:29761527-29764089	NOTEST	0.0810325	0
Gm13939	chr2:109902395-109913319	NOTEST	0.0158725	0
Gm14015	chr2:106463822-106523103	NOTEST	0.00972215	0
Gm14207	chr2:119321198-119335666	NOTEST	0.0456392	0
Gm14548	chr7:3731632-3915501	NOTEST	0.000530765	0
Gm14812	chrX:99405330-99443797	NOTEST	0.0121185	0
Gm15055	chr6:52102948-52113684	NOTEST	0.0489179	0
Gm15348	chr8:12706943-12719127	NOTEST	0.0108399	0
Gm15401	chr6:72626370-72789045	NOTEST	0.0222595	0
Gm15471	chr3:103193822-103854618	NOTEST	0.0401632	0
Gm1564	chr11:102665584-102682238	NOTEST	0.00393146	0
Gm15880	chr7:80586631-80688877	NOTEST	0.00600248	0
Gm15941	chr15:37366174-37792428	NOTEST	0.0118906	0
Gm15987	chr6:128934380-128984707	NOTEST	0.0183465	0
Gm16325	chr3:146641931-146651715	NOTEST	0.0350077	0
Gm16523	chr2:39066214-39190730	NOTEST	0.00778323	0

Gm16907	chr13:62964892-63431745	NOTEST	0.0209271	0
Gm17359	chr3:79345375-79567679	NOTEST	0.0339089	0
Gm19557	chr19:47501047-47537020	NOTEST	0.0623145	0
Gm1965	chr6:89141004-89146016	NOTEST	0.0227615	0
Gm19689	chr17:83033591-83078225	NOTEST	0.012845	0
Gm1987	chr4_JH584294_random:12065	NOTEST	0.103468	0
Gm19897	chr7:28766751-28788665	NOTEST	0.0356188	0
Gm20110	chr10:99609170-99658134	NOTEST	0.0101819	0
Gm20125	chr10:16951093-17095782	NOTEST	0.00503126	0
Gm20187	chr12:27090236-27114995	NOTEST	0.0194425	0
Gm20743	chr1:164863120-164871438	NOTEST	0.705457	0
Gm20744	chr7:82070386-82081758	NOTEST	0.0079428	0
Gm20754	chr3:73066350-73594830	NOTEST	0.152548	0
Gm20756	chr6:25931425-25977227	NOTEST	0.0118272	0
Gm2083,Mup19	chr4:61778324-61782224	NOTEST	0.0237024	0
Gm3002	chr14:3814912-3830681	NOTEST	0.00383297	0
Gm3776	chr9:78257128-78269166	NOTEST	0.0289448	0
Gm4432	chr17:32196271-32284133	NOTEST	0.0220146	0
Gm4477	chr6:85706706-85708561	NOTEST	0.0480195	0
Gm4489	chr10:122119696-122130558	NOTEST	0.0572785	0
Gm4792	chr10:94293662-94298703	NOTEST	0.0283405	0
Gm4861	chr3:137550044-137552622	NOTEST	0.0213992	0
Gm4961	chr5:30092939-30097686	NOTEST	0.0178211	0
Gm4975	chr8:63924693-63952170	NOTEST	0.00454996	0
Gm4984	chrX:12651882-12652820	NOTEST	0.0234439	0
Gm5084	chr13:60205470-60216018	NOTEST	0.00946143	0
Gm5105	chr3:138048760-138067388	NOTEST	0.0586905	0
Gm5111	chr6:48589444-48590584	NOTEST	0.0932247	0
Gm5431	chr11:48887421-48902152	NOTEST	0.0708136	0
Gm5475	chr15:100423192-100428150	NOTEST	0.0425356	0
Gm5523	chr1:13785684-13786929	NOTEST	0.0339809	0
Gm5640	chrX:74639118-74645635	NOTEST	0.0128992	0
Gm572	chr4:148643316-148671572	NOTEST	0.0299538	0
Gm5741	chr8:85067567-85067982	NOTEST	0.126024	0
Gm5833	chr1:138640094-138682075	NOTEST	0.00996356	0
Gm5936	chrX:74837195-74843369	NOTEST	0.00681908	0
Gm595	chrX:48841465-48877713	NOTEST	0.00896575	0
Gm6083	chr5:29537948-29538624	NOTEST	0.0683707	0
Gm614	chrX:101261376-101263992	NOTEST	0.0655101	0
Gm6150	chr10:9684721-9691909	NOTEST	0.0185401	0
Gm6307	chr2:180370857-180401802	NOTEST	0.0177319	0
Gm6408	chr5:146481942-146484702	NOTEST	0.0195782	0
Gm6588	chr5:112419150-112577198	NOTEST	0.00862209	0
Gm6614	chr6:141972195-142008745	NOTEST	0.00920083	0
Gm6634	chr3:70772378-70807291	NOTEST	0.0201172	0
Gm6642	chr19:30564486-31765033	NOTEST	0.0432888	0
Gm6936	chr16:49980459-49997475	NOTEST	0.0428293	0
Gm7361	chr5:26257761-26262188	NOTEST	0.032364	0
Gm7538	chr5:119194312-119200018	NOTEST	0.0293343	0
Gm7903	chrX:135373283-135383393	NOTEST	0.0141701	0
Gm805	chr12:86169340-86195102	NOTEST	0.0112583	0
Gm806	chr13:50467306-50475355	NOTEST	0.00733575	0
Gm8300	chr12:87514315-87518265	NOTEST	0.0115493	0

Gm833	chr4:152697539-152700922	NOTEST	0.108668	0
Gm8439	chr4:120588744-120609672	NOTEST	0.16713	0
Gm8579	chr6:3288518-3317019	NOTEST	0.0343072	0
Gm8787	chrX:79330512-79358068	NOTEST	0.0614443	0
Gm8801	chr17:35947153-35953317	NOTEST	0.0103412	0
Gm9054	chr3:95985509-95986967	NOTEST	0.066299	0
Gm906	chr13:50245180-50250308	NOTEST	0.0116647	0
Gm973	chr1:59516263-59634509	NOTEST	0.0887906	0
Gm9733	chr3:15296550-15332302	NOTEST	0.0389908	0
Gmfg	chr7:28437446-28446895	NOTEST	0.0477235	0
Gnat1	chr9:107674473-107679592	NOTEST	0.00802904	0
Gng13	chr17:25717171-25727415	NOTEST	0.0854875	0
Gngt1	chr6:3994011-3997436	NOTEST	0.0255173	0
Golt1a	chr1:133309822-133323026	NOTEST	0.042511	0
Got1l1	chr8:27197458-27202547	NOTEST	0.0307076	0
Gpr101	chrX:57496667-57503757	NOTEST	0.00349425	0
Gpr110	chr17:43270346-43324406	NOTEST	0.0107217	0
Gpr12	chr5:146582149-146585239	NOTEST	0.0349587	0
Gpr183	chr14:121878605-122021035	NOTEST	0.125255	0
Gpr20	chr15:73694606-73707505	NOTEST	0.195537	0
Gpr25	chr1:136258913-136260873	NOTEST	0.116403	0
Gpr84	chr15:103308234-103310438	NOTEST	0.0134946	0
Gpx6	chr13:21312202-21319624	NOTEST	0.017176	0
Grifin	chr5:140563188-140565067	NOTEST	0.151001	0
Grin2a	chr16:9577709-9992533	NOTEST	0.00422239	0
Grin2b	chr6:135729804-136173511	NOTEST	0.00220244	0
Grm6	chr11:50850684-50866208	NOTEST	0.00465434	0
Gsg1	chr6:135237329-135254336	NOTEST	0.0316369	0
Gsta1	chr9:78230668-78242683	NOTEST	0.0245344	0
Gsta2	chr9:78331019-78347145	NOTEST	0.0297994	0
Gstm3	chr3:107963695-107969174	NOTEST	0.0387215	0
Gucy2f	chrX:142079288-142196936	NOTEST	0.00906041	0
Gys2	chr6:142422612-142473109	NOTEST	0.013568	0
H2-Eb2	chr17:34325674-34341410	NOTEST	0.0330617	0
H2-M9	chr17:36640424-36642644	NOTEST	0.0469149	0
H2-Oa	chr17:34083842-34095309	NOTEST	0.0826846	0
H2-Q2	chr17:35342332-35345722	NOTEST	0.0372202	0
H2-T3	chr17:36185570-36190151	NOTEST	0.00975221	0
Hao	chr17:83831353-83846790	NOTEST	0.147479	0
Hao2	chr3:98874518-98893230	NOTEST	0.00875488	0
Has2os	chr15:56665626-56694546	NOTEST	0.192378	0
Havcr2	chr11:46193848-46589232	NOTEST	0.0698728	0
Hcst	chr7:30417711-30419854	NOTEST	0.207704	0
Hes7	chr11:69120452-69123259	NOTEST	0.0466851	0
Hgd	chr16:37580152-37632026	NOTEST	0.0257754	0
Hhla1	chr15:65922442-65976804	NOTEST	0.0338247	0
Hils1	chr11:94962776-94976327	NOTEST	0.0290749	0
Hist1h2ap	chr13:21833023-21833575	LOWDAI	0.0793447	0
Hist1h4j	chr13:21735095-21735407	NOTEST	0.151582	0
Hist2h2ab	chr3:96219915-96220353	NOTEST	0.137823	0
Hist4h4	chr6:136803992-136804431	NOTEST	0.068622	0
Hmgb4	chr4:127988043-128567656	NOTEST	0.073668	0
Hormad2	chr11:4346382-4441082	NOTEST	0.031058	0

Hoxa11	chr6:52242104-52249769	NOTEST	0.0596712	0
Hoxa11os	chr6:52242104-52249769	NOTEST	0.0302045	0
Hpgds	chr6:65117292-65144730	NOTEST	0.168377	0
Hrasls5	chr19:7612568-7639238	NOTEST	0.0230348	0
Hsd11b2	chr8:105518745-105523988	NOTEST	0.0841356	0
Hsd17b13	chr5:103955441-103977388	NOTEST	0.0168261	0
Hsd17b2	chr8:117701945-117759029	NOTEST	0.0339345	0
Hsd17b3	chr13:64058273-64089201	NOTEST	0.0148819	0
Hsd17b6	chr10:127990935-128007508	NOTEST	0.0128276	0
Hsd3b1	chr3:98852196-98859794	NOTEST	0.022722	0
Hsf3	chrX:96306866-96357240	NOTEST	0.0302789	0
Hspb3	chr13:113662895-113663676	NOTEST	0.0673416	0
Htr2c	chrX:146962512-147197277	NOTEST	0.0855653	0
I830077J02Rik	chr3:105925890-105932664	NOTEST	0.1558	0
Ifi44l	chr3:151758736-151762891	NOTEST	0.0475755	0
Ifltd1	chr6:145397234-145434925	NOTEST	0.100141	0
Igf2bp1	chr11:95957163-96005944	NOTEST	0.00692	0
Igf2bp3	chr6:49085217-49214954	NOTEST	0.00803172	0
Igf2os	chr7:142650767-142670356	NOTEST	0.0368146	0
Igfbp1	chr11:7197786-7202546	NOTEST	0.0122322	0
Igsf1	chrX:49782536-49797745	NOTEST	0.160295	0
Il12a	chr3:68690643-68698547	NOTEST	0.0311713	0
Il1a	chr2:129297369-129309972	NOTEST	0.0199879	0
Il1rapl2	chrX:137571548-138846955	NOTEST	0.115876	0
Il1rl2	chr1:40324626-40365471	NOTEST	0.250573	0
Il20	chr1:130907191-130911296	NOTEST	0.0260027	0
Il20ra	chr10:19712586-19760053	NOTEST	0.0193475	0
Il21	chr3:37222758-37232636	NOTEST	0.0374702	0
Il22ra2	chr10:19622027-19634681	NOTEST	0.0922826	0
Il25	chr14:54932694-54935836	NOTEST	0.624986	0
Il2ra	chr2:11642791-11693194	NOTEST	0.159782	0
Il4	chr11:53612460-53618665	NOTEST	0.042363	0
Ins2	chr7:142678655-142679708	NOTEST	0.07965	0
Irx4	chr13:73260496-73269620	NOTEST	0.0210587	0
Itih1	chr14:30929179-30943289	NOTEST	0.00633037	0
Itih3	chr14:30908573-30923587	NOTEST	0.408622	0
Izumo1	chr7:45621810-45627242	NOTEST	0.0124888	0
Izumo3	chr4:92144317-92147221	NOTEST	0.0152056	0
Kcne2	chr16:92292388-92298133	NOTEST	0.0129359	0
Kcnj5	chr9:32314782-32344237	NOTEST	0.00400567	0
Kcnv2	chr19:27322618-27337179	NOTEST	0.00724189	0
Kera	chr10:97607204-97613688	NOTEST	0.0614597	0
Kif6	chr17:49615171-49909847	NOTEST	0.144587	0
Kirrel2	chr7:30447765-30457515	NOTEST	0.0352522	0
Kiss1	chr1:133327211-133329722	NOTEST	0.0589362	0
Klb	chr5:65348410-65384003	NOTEST	0.0261962	0
Klk13	chr7:43712566-43726758	NOTEST	0.0207548	0
Klk1b27	chr7:44052289-44056711	NOTEST	0.050112	0
Klra1	chr6:129972081-130386874	NOTEST	0.0235114	0
Klra15	chr6:129972081-130386874	NOTEST	0.0221823	0
Klra19,Klra6	chr6:129972081-130386874	NOTEST	0.01599	0
Klra2	chr6:131219234-131247362	NOTEST	0.175585	0
Klra4	chr6:129972081-130386874	NOTEST	0.0304051	0

Klra6	chr6:129972081-130386874	NOTEST	0.00184694	0
Klrb1	chr6:128706507-128723046	NOTEST	0.0411292	0
Klrb1f	chr6:129045900-129057471	NOTEST	0.0356851	0
Klri1	chr6:129697217-129717132	NOTEST	0.0271464	0
Kmo	chr1:175632192-175660853	NOTEST	0.103822	0
Kng1	chr16:23058299-23082078	NOTEST	0.0200956	0
Krt14	chr11:100203161-100207510	NOTEST	0.0367794	0
Krt15	chr11:100131758-100135949	NOTEST	0.0113445	0
Krt17	chr11:100256216-100260989	NOTEST	0.0254762	0
Krt2	chr15:101810688-101818169	NOTEST	0.0502562	0
Krt20	chr11:99428402-99438153	NOTEST	0.0609075	0
Krt36	chr11:100102012-100105626	NOTEST	0.0110167	0
Krt40	chr11:99537484-99543158	NOTEST	0.0316979	0
Krt42	chr11:100262881-100269871	NOTEST	0.0128067	0
Krt7	chr15:101412402-101427806	NOTEST	0.0767973	0
Krt78	chr15:101946003-101954287	NOTEST	0.0275162	0
Krt8	chr15:101996710-102004342	NOTEST	0.0594949	0
Krt80	chr15:101349570-101370125	NOTEST	0.307326	0
Krt82	chr15:101541220-101550659	NOTEST	0.00850928	0
Krtdap	chr7:30787904-30791083	NOTEST	0.796866	0
LOC100043315	chr15:95097621-95149318	NOTEST	0.0200889	0
LOC100504608	chr10:127032904-127041394	NOTEST	0.112646	0
LOC100862268	chr3:127161304-127168290	NOTEST	0.0213093	0
LOC101243624	chr3:132842201-132878596	NOTEST	0.496738	0
LOC102632423	chr6:118300166-118308719	NOTEST	0.0779436	0
LOC102633035	chr9:101342193-101348017	NOTEST	0.0136056	0
Lair1	chr7:4007072-4063204	NOTEST	0.566976	0
Lalba	chr15:98480399-98482683	NOTEST	0.0367692	0
Lce1d	chr3:92685498-92687210	NOTEST	0.0363239	0
Lce1g	chr3:92750150-92752338	NOTEST	0.0509566	0
Lce6a	chr3:92620084-92621660	NOTEST	0.149568	0
Ldlrad1	chr4:107209179-107217914	NOTEST	0.0244443	0
Ldoc1	chrX:61709615-61710950	NOTEST	0.355622	0
Lgals12	chr19:7596660-7607176	NOTEST	0.0142803	0
Lhx3	chr2:26200211-26208249	NOTEST	0.0187429	0
Lhx4	chr1:155701693-155742027	NOTEST	0.00977125	0
Lhx8	chr3:154306293-154330560	NOTEST	0.00907616	0
Lhx9	chr1:138825185-138847579	NOTEST	0.0300018	0
Lilra5	chr7:4237753-4243463	NOTEST	0.147921	0
Lincrna-cox2	chr1:150159042-150164948	NOTEST	0.0104441	0
Lipc	chr9:70798127-70934808	NOTEST	0.104273	0
Lipn	chr19:34067357-34084918	NOTEST	0.0429716	0
Lman1l	chr9:57607032-57620774	NOTEST	0.0112186	0
Loxhd1	chr18:77281957-77442257	NOTEST	0.00772217	0
Lpo	chr11:87806427-87826114	NOTEST	0.0118153	0
Lrp2bp	chr8:46010601-46029476	NOTEST	0.048975	0
Lrrc10	chr10:117045340-117046768	NOTEST	0.0298168	0
Lrrc26	chr2:25289910-25319187	NOTEST	0.0160561	0
Lrrc30	chr17:67630964-67632723	NOTEST	0.01035	0
Lrrc38	chr4:143349749-143371028	NOTEST	0.0247437	0
Lrrc52	chr1:167445674-167466780	NOTEST	0.093089	0
Lta	chr17:35203164-35205351	NOTEST	0.0436811	0
Ltb4r2	chr14:55761427-55763229	NOTEST	0.015623	0

Ltc4s	chr11:50236471-50238471	NOTEST	0.226142	0
Ly6g6e	chr17:35076941-35078804	NOTEST	0.110352	0
Ly6k	chr15:74796873-74799968	NOTEST	0.0302518	0
Lyg2	chr1:37905922-37916493	NOTEST	0.014572	0
Lypd4	chr7:24864619-24869691	NOTEST	0.0180783	0
Lyzl4	chr9:121577842-121641566	NOTEST	0.0203431	0
Madcam1	chr10:79664573-79668536	NOTEST	0.0141451	0
Mansc4	chr6:147075061-147087032	NOTEST	0.109865	0
Mapk15	chr15:75993768-75999153	NOTEST	0.0521542	0
35489	chr1:184786766-184811300	NOTEST	0.0453229	0
Marcksl1-ps4	chr13:4248734-4249777	NOTEST	0.0410143	0
Matn3	chr12:8947928-8972028	NOTEST	0.0866777	0
Mb	chr15:77015486-77057108	NOTEST	0.0448601	0
Mcemp1	chr8:3665761-3668905	NOTEST	0.20934	0
Mcpt8	chr14:56082163-56085197	NOTEST	0.0525732	0
Meiob	chr17:24804381-24839787	NOTEST	0.0222103	0
Mep1b	chr18:21072343-21100199	NOTEST	0.0169725	0
Mesp1	chr7:79792240-79793590	NOTEST	0.0369036	0
Mettl21c	chr1:44009407-44020006	NOTEST	0.0425267	0
Mfsd6l	chr11:68556185-68558245	NOTEST	0.0103747	0
Mia	chr7:27179740-27181149	NOTEST	0.823989	0
Micalcl	chr7:112368307-112413104	NOTEST	0.123993	0
Milr1	chr11:106751225-106779537	NOTEST	0.200962	0
Mir3473e	chr5:31624438-31697610	NOTEST	105.866	0
Mir546	chr10:126978716-126999975	LOWDAT	6.87382	0
Mir8101	chr11:102195746-102230172	LOWDAT	15.6832	0
Mlana	chr19:29697940-29708306	NOTEST	0.0668971	0
Mlxipl	chr5:135106890-135138382	NOTEST	0.0759063	0
Mmp12	chr9:7347373-7360461	NOTEST	0.0100714	0
Mmp3	chr9:7445821-7455974	NOTEST	0.0215511	0
Mogat1	chr1:78511059-78538173	NOTEST	0.326524	0
Mrgprb1	chr7:48444112-48456342	NOTEST	0.0738262	0
Mrgprb2	chr7:48550965-48558086	NOTEST	0.0457857	0
Mrgprh	chr17:12876033-12877842	NOTEST	0.188969	0
Mrgprx2	chr7:48478618-48499270	NOTEST	0.0113335	0
Mro	chr18:73859386-73879134	NOTEST	0.674356	0
Mroh5	chr15:73786935-73839671	NOTEST	0.0236849	0
Ms4a1	chr19:11196816-11299884	NOTEST	0.598675	0
Ms4a6d	chr19:11586605-11604804	NOTEST	0.249127	0
Ms4a7	chr19:11321038-11336146	NOTEST	0.34785	0
Ms4a8a	chr19:11067470-11081103	NOTEST	0.0206917	0
Msr1	chr8:39467447-40227787	NOTEST	0.357828	0
Msx2	chr13:53466880-53472780	NOTEST	0.0246535	0
Mt4	chr8:94137203-94139031	NOTEST	0.0955504	0
Mtl5	chr19:3388856-3407823	NOTEST	0.0711727	0
Mtnr1a	chr8:45069209-45088506	NOTEST	0.147928	0
Mup20	chr4:62050234-62054117	NOTEST	0.156193	0
Mybpc1	chr10:88518278-88605152	NOTEST	0.0146766	0
Myh15	chr16:49057485-49199104	NOTEST	0.0542741	0
Myh2	chr11:67171026-67197517	NOTEST	0.00928302	0
Myh6	chr14:54941920-54966607	NOTEST	0.00330134	0
Myh7	chr14:54968786-54994549	NOTEST	0.00914111	0
Mylk2	chr2:152911351-152923065	NOTEST	0.0249804	0

Myo3a	chr2:22227502-22423370	NOTEST	0.0320803	0
Myot	chr18:44334073-44355722	NOTEST	0.00907806	0
Myoz1	chr14:20649101-20656540	NOTEST	0.11585	0
Naa11	chr5:97382208-97392330	NOTEST	0.0121669	0
Nanos3	chr8:84173732-84176552	NOTEST	0.102439	0
Nanp	chr2:151029684-151039379	NOTEST	0.0329645	0
Nat3	chr8:67523853-67548627	NOTEST	0.0324075	0
Nat8	chr6:85830386-85831890	NOTEST	0.0236374	0
Nepn	chr10:52391607-52404604	NOTEST	0.0106224	0
Nespas	chr2:174281236-174346742	NOTEST	0.00889609	0
Neu2	chr1:87574026-87597840	NOTEST	0.282976	0
Neu4	chr1:94020492-94028330	NOTEST	0.0042273	0
Nkx2-2	chr2:147177545-147331681	NOTEST	0.00872163	0
Nkx6-1	chr5:101659196-101664711	NOTEST	0.156318	0
Nlrc4	chr17:74426294-74459108	NOTEST	0.0749413	0
Nlrp1a	chr11:71091196-71144704	NOTEST	0.0114243	0
Nlrp1b	chr11:71153101-71230733	NOTEST	0.0388764	0
Nlrp1c-ps	chr11:71242429-71285232	NOTEST	0.0108537	0
Nlrp6	chr7:140920901-140929192	NOTEST	0.0166801	0
Nme8	chr13:19645078-19697760	NOTEST	0.0114727	0
Nobox	chr6:43303673-43309554	NOTEST	0.0107644	0
Npbwr1	chr1:5913706-5917398	NOTEST	0.0101215	0
Npffr1	chr10:61595483-61626385	NOTEST	0.0494283	0
Nphs1	chr7:30460057-30488609	NOTEST	0.00315039	0
Nphs2	chr1:156310734-156328035	NOTEST	0.0280776	0
Nppa	chr4:148000745-148002067	NOTEST	0.0275378	0
Nppc	chr1:86666292-86670573	NOTEST	0.139742	0
Nps	chr7:135268618-135272942	NOTEST	0.0245719	0
Npy6r	chr18:44270126-44277700	NOTEST	0.0684104	0
Nr0b2	chr4:133553389-133556536	NOTEST	0.477353	0
Nr1i2	chr16:38248348-38294824	NOTEST	0.0165648	0
Nt5c1a	chr4:123201552-123216207	NOTEST	0.239834	0
Nxph2	chr2:23321245-23401973	NOTEST	0.0446457	0
Oas1f	chr5:120847366-120857986	NOTEST	0.0302361	0
Oas1h	chr5:120861421-120873505	NOTEST	0.0145449	0
Obp2b	chr2:25737008-25740097	NOTEST	0.0326043	0
Ocstamp	chr2:165395449-165400394	NOTEST	0.0183701	0
Odf3	chr7:140847915-140850925	NOTEST	0.0223824	0
Odf3l1	chr9:56848658-56851963	NOTEST	0.278132	0
Olah	chr2:3341987-3366569	NOTEST	0.0278783	0
Olf1245	chr2:89574711-89575773	NOTEST	0.0211733	0
Olf1249	chr2:89629939-89630896	NOTEST	0.0213992	0
Olf1254	chr2:89788405-89789350	NOTEST	0.0232222	0
Olf1259	chr2:89943183-89944113	NOTEST	0.145177	0
Olf1344	chr7:6439901-6440867	NOTEST	0.184667	0
Olf1361	chr13:21658367-21659321	NOTEST	0.0758698	0
Olf1371	chr11:52213051-52213987	NOTEST	0.0264682	0
Olf1393	chr11:49280149-49281085	NOTEST	0.0999524	0
Olf212	chr6:116506515-116517965	NOTEST	0.00696706	0
Olf221	chr14:52035173-52036109	NOTEST	0.023508	0
Olf222	chr11:59570781-59571738	NOTEST	0.136559	0
Olf284	chr15:98340021-98340939	NOTEST	0.141154	0
Olf419	chr1:174249888-174250976	NOTEST	0.0364435	0

Olfr48	chr2:89844065-89844971	NOTEST	0.0521252	0
Olfr503	chr7:108544526-108545498	NOTEST	0.0488654	0
Olfr550	chr7:102578468-102579506	NOTEST	0.0424118	0
Olfr561	chr7:102774525-102775470	NOTEST	0.0232222	0
Olfr761	chr17:37952050-37953022	NOTEST	0.0461957	0
Olfr859	chr9:19808319-19809249	NOTEST	0.0962912	0
Olfr898	chr9:38349084-38350035	NOTEST	0.0475028	0
Olig2	chr16:91225549-91228677	NOTEST	0.0081436	0
Onecut3	chr10:80494905-80517260	NOTEST	0.0742649	0
Opn5	chr17:42556782-42611313	NOTEST	0.134244	0
Optc	chr1:133897193-133907999	NOTEST	0.0484579	0
Osr1	chr12:9574441-9581500	NOTEST	0.328888	0
Osr2	chr15:35296111-35303305	NOTEST	0.22935	0
Ostn	chr16:27307640-27351209	NOTEST	0.0151341	0
Otogl	chr10:107762309-107912134	NOTEST	0.065499	0
Otol1	chr3:70007612-70028708	NOTEST	0.103379	0
Otos	chr1:92644217-92648841	NOTEST	0.251105	0
Ovol3	chr7:30232073-30236765	NOTEST	0.0194867	0
Pah	chr10:87521794-87584137	NOTEST	0.00937749	0
Pax1	chr2:147364993-147375048	NOTEST	0.0718198	0
Pax3	chr1:78101266-78197136	NOTEST	0.0202472	0
Pax5	chr4:44531505-44710440	NOTEST	0.101633	0
Pax7	chr4:139738080-139832968	NOTEST	0.00918775	0
Pax9	chr12:56695638-56711230	NOTEST	0.132495	0
Pdcd1lg2	chr19:29410918-29472927	NOTEST	0.00500932	0
Pde6c	chr19:38132780-38183951	NOTEST	0.0131773	0
Pdilt	chr7:119486586-119523482	NOTEST	0.0537087	0
Pdxk-ps	chr17:32076082-32091423	NOTEST	0.033075	0
Pdzd9	chr7:120635188-120670343	NOTEST	0.0437722	0
Pgam2	chr11:5801636-5803796	NOTEST	0.17856	0
Pgr15l	chrX:97072595-97082104	NOTEST	0.00642964	0
Pigr	chr1:130826683-130852249	NOTEST	0.00499013	0
Pilrb2	chr5:137865828-137871758	NOTEST	0.0522649	0
Pin1rt1	chr2:104713925-104716290	NOTEST	0.0183256	0
Pira11	chr7:3731632-3915501	NOTEST	0.0266586	0
Pira4,Pira7	chr7:3731632-3915501	LOWDAT	0.00907811	0
Pira6	chr7:3731632-3915501	NOTEST	0.0245507	0
Pira7	chr7:3731632-3915501	NOTEST	0.00036711	0
Pitx3	chr19:46131898-46148325	NOTEST	0.0164399	0
Pkhd1	chr1:20057778-20618057	NOTEST	0.00514188	0
Pla2g2c	chr4:138709836-138744575	NOTEST	0.0242393	0
Pla2g4d	chr2:120265868-120289069	NOTEST	0.0163765	0
Plac1	chrX:53070001-53114405	NOTEST	0.0409386	0
Plac9a,Plac9b	chr14:26167317-26182351	LOWDAT	7.17E-05	0
Plb1	chr5:32232707-32364356	NOTEST	0.199833	0
Plekhg6	chr6:125362650-125380504	NOTEST	0.0232513	0
Plscr5	chr9:92192935-92209698	NOTEST	0.13169	0
Pnma5	chrX:73033980-73037103	NOTEST	0.0159796	0
Pof1b	chrX:112638426-112698651	NOTEST	0.00872696	0
Pou1f1	chr16:65520628-65533981	NOTEST	0.0528431	0
Pou3f3os	chr1:42648199-42694825	NOTEST	0.0975665	0
Pou3f4	chrX:110814464-110815550	NOTEST	0.020598	0
Ppp1r14d	chr2:119218118-119229865	NOTEST	0.0299087	0

Ppp1r3g	chr13:35967905-35970388	NOTEST	0.0172851	0
Pramel7	chr2:87489087-87492418	NOTEST	0.0109787	0
Prdm6	chr18:53464545-53575857	NOTEST	0.178565	0
Prg3	chr2:84988214-84993886	NOTEST	0.0230974	0
Prl7a1	chr13:27633363-27642493	NOTEST	0.0257059	0
Prnd	chr2:131909927-131956131	NOTEST	0.0621251	0
Prok2	chr6:99711298-99726392	NOTEST	0.064062	0
Prom2	chr2:127526952-127541417	NOTEST	0.462445	0
Prr19	chr7:25301358-25304133	NOTEST	0.0166877	0
Prss34	chr17:25298393-25300161	NOTEST	0.101735	0
Prss44	chr9:110813993-110817999	NOTEST	0.0111264	0
Psapl1	chr5:36017180-36398139	NOTEST	0.00686648	0
Psg17	chr7:18813936-18821591	NOTEST	0.0102418	0
Psg19	chr7:18786301-18798510	NOTEST	0.00733888	0
Pter	chr2:12924040-13010864	NOTEST	0.449479	0
Ptgdr2	chr19:10937159-10949266	NOTEST	0.0140941	0
Ptgs2os	chr1:150076660-150099766	NOTEST	0.0383395	0
Ptprh	chr7:4548613-4604041	NOTEST	0.00953319	0
Ptprv	chr1:135108497-135132575	NOTEST	0.0158088	0
Pzp	chr6:128438756-128526720	NOTEST	0.0304031	0
Qrfp	chr2:31806167-31810518	NOTEST	0.00723287	0
Qrich2	chr11:116441324-116454347	NOTEST	0.00928656	0
Rab17	chr1:90958132-90969620	NOTEST	0.0118788	0
Rad51b	chr12:79297281-79814690	NOTEST	0.0526616	0
Raet1b	chr10:22158608-22374139	LOWDAT	0.0174357	0
Raet1d	chr10:22158608-22374139	NOTEST	0.0151603	0
Rem1	chr2:152627007-152635191	NOTEST	0.358699	0
Ren1	chr1:133350565-133360323	NOTEST	0.0273162	0
Ren2	chr1:133350565-133360323	NOTEST	2.16E-05	0
Rergl	chr6:139493181-139501909	NOTEST	0.0360196	0
Rfx4	chr10:84756047-84906538	NOTEST	0.0125242	0
Rgn	chrX:20549817-20562087	NOTEST	0.0531679	0
Rgs13	chr1:144138666-144177372	NOTEST	0.0133022	0
Ribc2	chr15:85132098-85144569	NOTEST	0.023755	0
Ripply1	chrX:139779680-139782353	NOTEST	0.112638	0
Rln1	chr19:29331754-29334670	NOTEST	0.141257	0
Rnase10	chr14:51007750-51010758	NOTEST	0.0949521	0
Rnase6	chr14:51129067-51131121	NOTEST	0.177024	0
Rnf222	chr11:68888552-68895015	NOTEST	0.00770352	0
Rorb	chr19:18930608-19111196	NOTEST	0.00600577	0
Ros1	chr10:52045925-52195244	NOTEST	0.00252778	0
Rpe65	chr3:159599180-159625307	NOTEST	0.0511161	0
Rpl39l	chr16:10170227-10174911	NOTEST	0.0536542	0
Rubie	chr14:46568330-46575851	NOTEST	0.0589593	0
S100z	chr13:95477300-95478655	NOTEST	0.157229	0
Sbk2	chr7:4957080-4964348	NOTEST	0.0388643	0
Scgb1a1	chr19:9083641-9087956	NOTEST	1.25821	0
Scimp	chr11:70790931-70812561	NOTEST	0.0617826	0
Scnn1g	chr7:121734506-121768477	NOTEST	0.0193783	0
Scrg1	chr8:57455922-57477585	NOTEST	0.0717778	0
Sct	chr7:141278328-141279133	NOTEST	0.0525667	0
Sebox	chr11:78503512-78505081	NOTEST	0.0148957	0
Sel1l2	chr2:140229857-140389710	NOTEST	0.0330383	0

Selenbp2	chr3:94693572-94704406	NOTEST	0.0229873	0
Serpina3k	chr12:104338485-104345739	NOTEST	0.0229932	0
Serpina5	chr12:104101112-104106137	NOTEST	0.00821784	0
Serpinb10	chr1:107529002-107549271	NOTEST	0.0300443	0
Serpinb6e	chr13:33832344-33843408	NOTEST	0.0274234	0
Sfrp2	chr3:83766320-83774314	NOTEST	0.390651	0
Sfta2	chr17:35649707-35650569	NOTEST	0.0599048	0
Sftpc	chr14:70520941-70524081	NOTEST	0.0303072	0
Sgca	chr11:94962776-94976327	NOTEST	0.034194	0
Sh2d7	chr9:54538983-54545020	NOTEST	0.00752814	0
Siglec1	chr2:131069219-131086765	NOTEST	0.116953	0
Siglece	chr7:43651069-43660161	NOTEST	0.208037	0
Siglech	chr7:55768177-55778833	NOTEST	0.210206	0
Sirpb1a	chr3:15371826-15426427	NOTEST	0.0355256	0
Sit1	chr4:43482082-43483709	NOTEST	0.0505312	0
Six3	chr17:85620833-85626191	NOTEST	0.0357143	0
Six3os1	chr17:85601931-85618396	NOTEST	0.0142708	0
Skint3	chr4:112232244-112300468	NOTEST	0.0247571	0
Slamf6	chr1:171917536-171943868	NOTEST	0.0302254	0
Slamf8	chr1:172581376-172590568	NOTEST	0.0765726	0
Slc10a5	chr3:10331733-10335656	NOTEST	0.00462297	0
Slc13a2	chr11:78394484-78422185	NOTEST	0.0193763	0
Slc15a1	chr14:121459620-121505254	NOTEST	0.0781668	0
Slc16a5	chr11:115462472-115474398	NOTEST	0.0312111	0
Slc18a3	chr14:32408202-32465909	NOTEST	0.00728004	0
Slc22a1	chr17:12648874-12675838	NOTEST	0.0293212	0
Slc22a12	chr19:6535855-6543070	NOTEST	0.00785256	0
Slc24a1	chr9:64922860-64951607	NOTEST	0.0136879	0
Slc25a31	chr3:40708870-40726094	NOTEST	0.0101015	0
Slc26a3	chr12:31438218-31473919	NOTEST	0.013461	0
Slc26a4	chr12:31519818-31559969	NOTEST	0.0193297	0
Slc27a2	chr2:126553023-126588243	NOTEST	0.0332156	0
Slc32a1	chr2:158610757-158615747	NOTEST	0.00618492	0
Slc36a1os	chr11:55191718-55197682	NOTEST	0.486367	0
Slc39a4	chr15:76612382-76616852	NOTEST	0.00850442	0
Slc46a2	chr4:59905898-59915056	NOTEST	0.038702	0
Slc5a10	chr11:61672781-61720799	NOTEST	0.0505605	0
Slc6a18	chr13:73661749-73678023	NOTEST	0.0137123	0
Slc6a2	chr8:92961046-93001667	NOTEST	0.0436755	0
Slc7a10	chr7:35186384-35215345	NOTEST	0.0490943	0
Slc7a13	chr4:19818726-19842213	NOTEST	0.0193966	0
Slco1a6	chr6:142085767-142186149	NOTEST	0.0061873	0
Slco6c1	chr1:97059448-97128303	NOTEST	0.193561	0
Slurp1	chr15:74726643-74728026	NOTEST	0.160897	0
Smco2	chr6:146850109-146871404	NOTEST	0.0181514	0
Smim9	chrX:75146056-75163751	NOTEST	0.0345019	0
Smpdl3b	chr4:132732965-132757171	NOTEST	0.128465	0
Snora74a	chr18:35553409-35558316	NOTEST	0.690469	0
Snora7a	chr6:115774556-115808743	NOTEST	11.6757	0
Sox1	chr8:12385770-12436732	NOTEST	0.00949092	0
Sox30	chr11:45980309-46017992	NOTEST	0.0126535	0
Sp7	chr15:102357176-102366271	NOTEST	0.0407474	0
Spag17	chr3:99885416-100162403	NOTEST	0.00447538	0

Spata17	chr1:187048406-187215446	NOTEST	0.171443	0
Spata20	chr11:94478903-94485310	NOTEST	0.0237577	0
Spata22	chr11:73329740-73346044	NOTEST	0.0491746	0
Spata31	chr13:64917405-64923195	NOTEST	0.00531048	0
Spata31d1a	chr13:59700082-59706197	NOTEST	0.0042211	0
Spata31d1c	chr13:65033057-65038004	NOTEST	0.00603369	0
Spata4	chr8:54600780-54610098	NOTEST	0.056656	0
Speer4a	chr5:26034269-26039505	NOTEST	0.0139927	0
Spesp1	chr9:62270728-62282179	NOTEST	0.00647453	0
Spi1	chr2:91096796-91115756	NOTEST	0.721037	0
Spink5	chr18:43963240-44022487	NOTEST	0.00352605	0
Spns3	chr11:72498155-72550246	NOTEST	0.0768889	0
Spo11	chr2:172979841-172993576	NOTEST	0.0122979	0
Spp2	chr1:88407018-88426438	NOTEST	0.195428	0
Sstr3	chr15:78537014-78544345	NOTEST	0.00488431	0
Sstr5	chr17:25489874-25497288	NOTEST	0.0378007	0
Ssu2	chr6:112359323-112388023	NOTEST	0.0643833	0
Stab2	chr10:86841209-87007942	NOTEST	0.0244536	0
Stfa1	chr16:36277147-36285371	NOTEST	0.0801118	0
Strc	chr2:121358640-121380940	NOTEST	0.00289595	0
Sult6b1	chr17:78883937-78906992	NOTEST	0.00866989	0
Sycp3	chr10:88459586-88503970	NOTEST	0.253831	0
Syngr4	chr7:45886844-45896711	NOTEST	0.0313073	0
Sypl2	chr3:108212265-108226599	NOTEST	0.0633521	0
T	chr17:8434422-8442496	NOTEST	0.0104539	0
Tarm1	chr7:3489075-3502552	NOTEST	0.0897705	0
Tbpl2	chr2:24071365-24096595	NOTEST	0.0105425	0
Tbx20	chr9:24720811-24774303	NOTEST	0.00551712	0
Tceal7	chrX:136224040-136226100	NOTEST	0.0446885	0
Tcf21	chr10:22817274-22820128	NOTEST	0.0177628	0
Tcl1	chr12:105216754-105222737	NOTEST	0.0178481	0
Tctex1d4	chr4:117126812-117133952	NOTEST	0.02071	0
Tdrd12	chr7:35493609-35537744	NOTEST	0.0462152	0
Tectb	chr19:55180884-55196313	NOTEST	0.00682054	0
Tekt1	chr11:72344716-72362442	NOTEST	0.0720625	0
Tex11	chrX:100838647-101059639	NOTEST	0.0141084	0
Tex13	chrX:140808306-140813433	NOTEST	0.0100697	0
Tex19.1	chr11:121146142-121148313	NOTEST	0.0335323	0
Tex35	chr1:157099147-157108645	NOTEST	0.0247967	0
Tex37	chr6:70913088-70918922	NOTEST	0.0267379	0
Tfap2b	chr1:19208913-19238845	NOTEST	0.00474019	0
Tfpi2	chr6:3962594-3968354	NOTEST	0.212265	0
Tgm1	chr14:55700008-55713492	NOTEST	0.00630734	0
Theg	chr10:79576476-79587136	NOTEST	0.0198595	0
Thpo	chr16:20724453-20742384	NOTEST	0.0167112	0
Ticam2	chr18:46558230-46574533	NOTEST	0.149418	0
Timd4	chr11:46810798-46844333	NOTEST	0.0625551	0
Timm8a2	chr14:122034673-122038422	NOTEST	0.0272582	0
Tldc2	chr2:157087054-157096481	NOTEST	0.16849	0
Tlr11	chr14:50357913-50363663	NOTEST	0.0235639	0
Tlr8	chrX:167242731-167263788	NOTEST	0.129914	0
Tm4sf19	chr16:32400505-32408227	NOTEST	0.0172574	0
Tm4sf20	chr1:82756648-82768456	NOTEST	0.0148488	0

Tm4sf4	chr3:57425409-57441675	NOTEST	0.0627692	0
Tmbim7	chr5:3657003-3679544	NOTEST	0.0129612	0
Tmc2	chr2:130195193-130264445	NOTEST	0.146615	0
Tmco2	chr4:121105650-121109226	NOTEST	0.0313221	0
Tmco5	chr2:116878690-116892500	NOTEST	0.0196584	0
Tmem125	chr4:118540940-118543726	NOTEST	0.0213256	0
Tmem139	chr6:42261969-42264555	NOTEST	0.0375111	0
Tmem213	chr6:38048482-38254009	NOTEST	0.173068	0
Tmem215	chr4:40472179-40475653	NOTEST	0.00776518	0
Tmem217	chr17:29526017-29549593	NOTEST	0.0258754	0
Tmem235	chr11:117860751-117865543	NOTEST	0.0212091	0
Tmem27	chrX:164090186-164118859	NOTEST	0.456266	0
Tmem45a	chr16:56805160-56886163	NOTEST	0.260238	0
Tmevpg1	chr10:118502034-118556525	NOTEST	0.0351295	0
Tmprss11f	chr5:86521225-86632424	NOTEST	0.0047173	0
Tnfrsf17	chr16:11313808-11320068	NOTEST	0.0298596	0
Tnfsf4	chr1:161395437-161418206	NOTEST	0.0122412	0
Tnip3	chr6:65590397-65634040	NOTEST	0.00510206	0
Tnmd	chrX:133851007-133865578	NOTEST	0.295451	0
Tnni3k	chr3:154786290-155055407	NOTEST	0.029902	0
Tnp1	chr1:73015074-73015899	NOTEST	0.0810106	0
Tns4	chr11:99065677-99089306	NOTEST	0.0386143	0
Tpsab1	chr17:25343244-25345562	NOTEST	0.0568209	0
Tpsg1	chr17:25370552-25433783	NOTEST	0.0349199	0
Trdn	chr10:33083482-33476709	NOTEST	0.0126613	0
Trem3	chr17:48247728-48258847	NOTEST	0.11712	0
Treml4	chr17:48264294-48275358	NOTEST	0.0127151	0
Trh	chr6:92242060-92244650	NOTEST	0.0299998	0
Trim30b	chr7:104355397-104358646	NOTEST	0.0133966	0
Trim30e-ps1	chr7:104532958-104535361	NOTEST	0.021567	0
Trim34b	chr7:104329470-104336617	NOTEST	0.0120942	0
Trim55	chr3:19644459-19691599	NOTEST	0.0216513	0
Trim63	chr4:134315119-134329629	NOTEST	0.0763533	0
Trp73	chr4:154056248-154140208	NOTEST	0.0265532	0
Trpm5	chr7:143071528-143094642	NOTEST	0.00822801	0
Trpv3	chr11:73267619-73297200	NOTEST	0.015328	0
Tsga13	chr6:30896980-30915573	NOTEST	0.0193907	0
Tsnaxip1	chr8:105827743-105844676	NOTEST	0.00802103	0
Tssk6	chr8:69894181-69903518	NOTEST	0.0459136	0
Tuba3a	chr6:125278273-125286042	NOTEST	0.0271156	0
Tulp1	chr17:28351518-28365143	NOTEST	0.0302701	0
Txndc2	chr17:65637504-65642204	NOTEST	0.0105667	0
Ube2u	chr4:100478866-100550145	NOTEST	0.0146896	0
Ucma	chr2:4976121-4985748	NOTEST	0.0262543	0
Ucn2	chr9:108986162-108987164	NOTEST	0.0227625	0
Ugt1a1	chr1:88055410-88220002	NOTEST	0.014312	0
Ugt1a5	chr1:88055410-88220002	NOTEST	0.198673	0
Ugt1a7c	chr1:88055410-88220002	NOTEST	0.222926	0
Unc93a	chr17:13108616-13131791	NOTEST	0.0197881	0
Urah	chr7:140835495-140846769	NOTEST	0.0798859	0
Usp50	chr2:126761049-126783460	NOTEST	0.204898	0
Utf1	chr7:139943855-139945112	NOTEST	0.0190059	0
Uts2	chr4:150997096-151001810	NOTEST	0.117328	0

V1rd18,V1rd19	chr7:24003090-24004247	NOTEST	0.0202832	0
V1rd19	chr7:24003090-24004247	LOWDAT	0.0225695	0
Vgll2	chr10:52022685-52028471	NOTEST	0.157026	0
Vip	chr10:5639217-5647614	NOTEST	0.0511686	0
Vmn1r212	chr13:22883087-22884161	NOTEST	0.0197758	0
Vmn1r228	chr17:20776058-20777501	NOTEST	0.0138823	0
Vmn1r5	chr6:56985341-56986289	NOTEST	0.0244115	0
Vmn2r20	chr6:123385261-123418061	NOTEST	0.00815906	0
Vmn2r47	chr7:9816781-9841325	NOTEST	0.00817297	0
Vmn2r84	chr10:130385799-130394241	NOTEST	0.0141872	0
Vmn2r86	chr10:130446198-130455894	NOTEST	0.00686648	0
Vmn2r90	chr17:17703940-17734167	NOTEST	0.00673699	0
Vnn1	chr10:23894687-23905343	NOTEST	0.224009	0
Vnn3	chr10:23851461-23869843	NOTEST	0.0327166	0
Vrtn	chr12:84641018-84651455	NOTEST	0.0174758	0
Vsig4	chrX:96247202-96293438	NOTEST	0.0279109	0
Vsig8	chr1:172555937-172563717	NOTEST	0.0479021	0
Wbp2nl	chr15:82298983-82314558	NOTEST	0.0173313	0
Wdr64	chr1:175698592-175815733	NOTEST	0.0231544	0
Wdr86	chr5:24712268-24730680	NOTEST	0.0753219	0
Wdr96	chr19:47736856-47837361	NOTEST	0.00299348	0
Wee2	chr6:40442862-40466815	NOTEST	0.01919	0
Wfdc12	chr2:164189230-164190558	NOTEST	0.0348325	0
Wfdc13	chr2:164685106-164687706	NOTEST	0.0197758	0
Wfdc15a	chr2:164198871-164200117	NOTEST	0.0689087	0
Wfdc18	chr11:83709003-83711360	NOTEST	0.161524	0
Wnt10b	chr15:98771751-98778150	NOTEST	0.0768918	0
Wnt2	chr6:17988939-18030445	NOTEST	0.143238	0
Wnt8b	chr19:44493471-44514273	NOTEST	0.0155623	0
Wt1	chr2:105126528-105173614	NOTEST	0.0251832	0
Xcr1	chr9:123852314-123862029	NOTEST	0.0375751	0
Xirp1	chr9:120013754-120023598	NOTEST	0.0600434	0
Zan	chr5:137378636-137477064	NOTEST	0.00861259	0
Zbbx	chr3:75037906-75143723	NOTEST	0.017383	0
Zfp345	chr2:150470990-150485063	NOTEST	0.0149566	0
Zfp36l3	chrX:53772685-53776394	NOTEST	0.00667822	0
Zfp648	chr1:154201186-154205674	NOTEST	0.00961924	0
Zfp663	chr2:165351296-165362119	NOTEST	0.622045	0
Zfp819	chr7:43607168-43618279	NOTEST	0.00728664	0
Zglp1	chr9:21062392-21067093	NOTEST	0.155909	0
Zim3	chr7:6730582-6976662	NOTEST	0.00532631	0
Cyp4b1-ps2	chr4:115582037-115583127	OK	0	2.1262
Scarna13	chr12:105030616-105032279	OK	0	4.27251
Snora16a	chr4:132308677-132311024	OK	0	10.4224
Snora65	chr2:32961711-32964045	OK	0	83.0789
Snora70	chrX:74270815-74273135	OK	0	8.09522
1110028F18Rik	chr8:106587142-106594820	NOTEST	0	0.0160092
1600029I14Rik	chr9:99456242-99568899	NOTEST	0	0.0653683
1700007K09Rik	chr7:131325930-131329499	NOTEST	0	0.040805
1700011H14Rik	chr14:49226358-49245428	NOTEST	0	0.047255
1700012L04Rik	chrX:9272783-9313245	NOTEST	0	0.397581
1700022I11Rik	chr4:42969945-42974325	NOTEST	0	0.0166569
1700029P11Rik	chr15:81980539-81981563	NOTEST	0	0.0277215

1700030L20Rik	chr3:136435269-136449349	NOTEST	0	0.0248324
1700054M17Rik	chr2:118277097-118373419	NOTEST	0	0.0924635
1700071K01Rik	chr11:80880162-81968396	NOTEST	0	0.0272591
1700072O05Rik	chr6:120554795-120574204	NOTEST	0	0.0829912
1700084E18Rik	chr2:30237197-30237631	NOTEST	0	0.161597
1700097N02Rik	chr17:30622440-30626905	NOTEST	0	0.14923
1810046K07Rik	chr9:51289685-51328917	NOTEST	0	0.0817598
2310007B03Rik	chr1:93151354-93160948	NOTEST	0	0.0803566
2310030A07Rik	chr1:150319416-150346771	NOTEST	0	0.158133
2610028E06Rik	chr4:125887850-125922310	NOTEST	0	0.0478866
2610318N02Rik	chr16:17113397-17125106	NOTEST	0	0.0214358
2700086A05Rik	chr6:52169061-52213597	NOTEST	0	0.21289
3110099E03Rik	chr2:115493512-115512201	NOTEST	0	0.016012
4732416N19Rik	chr6:148047415-148444352	NOTEST	0	0.116577
4921506M07Rik	chr12:57564114-57622109	NOTEST	0	0.0763686
4930404I05Rik	chr16:90936096-91044379	NOTEST	0	0.0235614
4930405L22Rik	chr5:45926821-45932409	NOTEST	0	0.113339
4930428G15Rik	chr9:115336160-115341924	NOTEST	0	0.112833
4930440I19Rik	chr2:78051176-78194430	NOTEST	0	0.0218571
4930469G21Rik	chr1:161142711-161170507	NOTEST	0	0.0302908
4930482G09Rik	chr3:153147942-153152108	NOTEST	0	0.0292664
4930500F04Rik	chr5:149847746-149864280	NOTEST	0	0.060614
4930507D10Rik	chr11:80850380-80858300	NOTEST	0	0.0384323
4930546C10Rik	chr18:68889486-68951528	NOTEST	0	0.0092184
4930594C11Rik	chr1:37439339-37541016	NOTEST	0	0.0306352
4931406H21Rik	chr14:25459184-25666747	NOTEST	0	0.00535218
4932702P03Rik	chr13:24905599-24939049	NOTEST	0	0.0396499
4933402N22Rik	chr5:11918042-11922804	NOTEST	0	0.0491035
4933403O08Rik	chrX:112239048-112243852	NOTEST	0	0.0138242
4933406M09Rik	chr1:134385939-134390983	NOTEST	0	0.0284351
4933413G19Rik	chr6:128362993-128385144	NOTEST	0	0.0205212
4933424G05Rik	chr18:14968684-15151446	NOTEST	0	0.0140989
4933436E23Rik	chr1:139379451-139402852	NOTEST	0	0.0214142
5430437J10Rik	chr15:5496317-5594983	NOTEST	0	0.0189352
5730460C07Rik	chr3:153789304-153792087	NOTEST	0	0.0279805
5830428M24Rik	chr12:69464786-69475550	NOTEST	0	0.0219955
8030423J24Rik	chr13:70882947-70884503	NOTEST	0	0.162207
9130024F11Rik	chr1:56971468-56975196	NOTEST	0	0.00515138
9830107B12Rik	chr17:48125604-48146307	NOTEST	0	0.020279
A430090L17Rik	chr13:113794507-114157461	NOTEST	0	0.0112286
A630023P12Rik	chr5:110514922-110525979	NOTEST	0	0.0415308
A630075F10Rik	chr2:170061239-170070778	NOTEST	0	0.0219657
A730082K24Rik	chr7:114948649-114983967	NOTEST	0	0.041016
A930019D19Rik	chr2:146241298-146512004	NOTEST	0	0.0514238
AI463170	chr12:76533559-76579039	NOTEST	0	0.253567
Abca14	chr7:120203963-120325352	NOTEST	0	0.00700619
Abhd16b	chr2:181493205-181494980	NOTEST	0	0.0115738
Actl10	chr2:154544404-154558853	NOTEST	0	0.0140274
Adam24	chr8:40675093-40682199	NOTEST	0	0.00681206
Aim1l	chr4:134068451-134092504	NOTEST	0	0.0143542
Akap14	chrX:37126762-37168842	NOTEST	0	0.0143591
Ankk1	chr9:49415221-49427021	NOTEST	0	0.0508279
Ankrd60	chr2:173568660-173578341	NOTEST	0	0.0211681

Apol11a	chr15:77508270-77517319	NOTEST	0	0.349938
Apon	chr10:128254130-128255901	NOTEST	0	0.0153578
Arhgap33os	chr7:30515121-30522193	NOTEST	0	0.00890738
B230323A14Rik	chr9:69761145-69830199	NOTEST	0	0.0408549
B930092H01Rik	chr9:61259226-61293809	NOTEST	0	0.00922768
BC021614	chr19:4057486-4059294	NOTEST	0	0.123295
BC024386	chr7:140906063-140907967	NOTEST	0	0.03233
BC051019	chr7:109703736-109723771	NOTEST	0	0.0104588
BC094916	chr1:173521310-173535957	NOTEST	0	0.0795529
Bhmt	chr13:93616890-93637758	NOTEST	0	0.034944
Bmp8b	chr4:123105164-123126091	NOTEST	0	0.00834574
Bpifb6	chr2:153900387-153912793	NOTEST	0	0.044539
Bsx	chr9:40874126-40877972	NOTEST	0	0.160775
Btn1a1	chr13:23456992-23465901	NOTEST	0	0.0190294
C130083M11Rik	chr5:52199983-52216433	NOTEST	0	0.0893568
C330024C12Rik	chr17:87192215-87194942	NOTEST	0	0.0305354
C730027H18Rik	chr10:71168736-71182040	NOTEST	0	0.0622826
C8b	chr4:104766316-104804548	NOTEST	0	0.0112132
Cabp4	chr19:4135422-4139609	NOTEST	0	0.0148064
Car6	chr4:150187015-150201135	NOTEST	0	0.0501168
Ccdc27	chr4:154026643-154042677	NOTEST	0	0.0339371
Ccdc54	chr16:50589858-50654166	NOTEST	0	0.0833582
Ccdc73	chr2:104886323-105017027	NOTEST	0	0.00485351
Cdhr3	chr12:33033795-33092875	NOTEST	0	0.0142177
Cdx1	chr18:61018861-61036199	NOTEST	0	0.0799387
Ceacam15	chr7:16671330-16675705	NOTEST	0	0.0575654
Chil6	chr3:106387383-106406182	NOTEST	0	0.0747059
Cidec	chr6:113424635-113435755	NOTEST	0	0.0405266
Clcnkb	chr4:141404356-141415988	NOTEST	0	0.0203736
Cldn20	chr17:3326572-3557713	NOTEST	0	0.451086
Cldn6	chr17:23679364-23682446	NOTEST	0	0.0139733
Clec4b2	chr6:123173022-123204671	NOTEST	0	0.0217001
Cplx3	chr9:57599991-57606281	NOTEST	0	0.00684034
Csf3	chr11:98701312-98703629	NOTEST	0	0.0374253
Cxcr1	chr1:74191785-74194631	NOTEST	0	0.0470604
Cyp17a1	chr19:46667164-46673000	NOTEST	0	0.0119133
D030025E07Rik	chr3:128117014-128231605	NOTEST	0	0.00847409
D230030E09Rik	chr12:118518296-118530193	NOTEST	0	0.0268401
D730045A05Rik	chr18:73928485-74064949	NOTEST	0	0.0536201
Daw1	chr1:83159761-83210572	NOTEST	0	0.0150405
Dbh	chr2:27165506-27183204	NOTEST	0	0.0109817
Dbhos	chr2:27144897-27162703	NOTEST	0	0.0171354
Dear1	chr3:84815576-84979198	NOTEST	0	0.280164
Dmbt1	chr7:131032075-131121628	NOTEST	0	0.0144486
Dnmt3l	chr10:78030021-78063622	NOTEST	0	0.0212046
Dupd1	chr14:21676571-21714576	NOTEST	0	0.0252997
E130201H02Rik	chr7:120597624-120598475	NOTEST	0	0.307716
E230008N13Rik	chr4:45890302-45950774	NOTEST	0	0.00372094
En1	chr1:120602486-120607991	NOTEST	0	0.0463121
F12	chr13:55417965-55426802	NOTEST	0	0.0103454
Fabp1	chr6:71199887-71205023	NOTEST	0	0.0660175
Fam166a	chr2:25218744-25224702	NOTEST	0	0.0421379
Fam166b	chr4:43381981-43429134	NOTEST	0	0.0199064

Fam216b	chr14:78081023-78089007	NOTEST	0	0.0213911
Fam83b	chr9:76490704-76545804	NOTEST	0	0.0123862
Fer1l5	chr1:36372290-36422110	NOTEST	0	0.0217489
Ffar3	chr7:30854329-30856178	NOTEST	0	0.0127994
Fmo9	chr1:166662054-166681845	NOTEST	0	0.0268411
Foxi3	chr6:70956605-70961066	NOTEST	0	0.0227127
Foxn4	chr5:114254163-114273761	NOTEST	0	0.00656538
Frs3os	chr17:47695206-47704286	NOTEST	0	0.0261525
Gm10012	chr17:25882113-25919714	NOTEST	0	0.129663
Gm11166	chr17:13096659-13098472	NOTEST	0	0.0150925
Gm11437	chr11:84148360-84167476	NOTEST	0	0.0189689
Gm11554	chr11:99798185-99809896	NOTEST	0	0.0318919
Gm12295	chr11:65277653-65287833	NOTEST	0	0.00608297
Gm12409	chr4:45762376-45764223	NOTEST	0	0.0970044
Gm12718	chr4:103382499-103492188	NOTEST	0	0.0302428
Gm13283	chr4:88760773-88761584	NOTEST	0	0.0747306
Gm13490	chr2:51656965-51732009	NOTEST	0	0.00885605
Gm136	chr4:34743787-34756259	NOTEST	0	0.049695
Gm14085	chr2:122484940-122528040	NOTEST	0	0.0323019
Gm14164	chr2:152345668-152376566	NOTEST	0	0.0101372
Gm14501	chrX:9350598-9351137	NOTEST	0	0.127151
Gm15319	chr8:20337663-20363202	NOTEST	0	0.0282176
Gm15698	chr11:88964665-88966917	NOTEST	0	0.0318542
Gm1720	chrX:166662024-166689812	NOTEST	0	0.0420171
Gm17745	chr10:93336231-93348879	NOTEST	0	0.0611744
Gm20878	chr4_GL456350_random:17325	LOWDAT	0	0.106441
Gm21586	chr4:41889794-42462993	LOWDAT	0	0.225133
Gm2176	chr18:80541891-80544546	NOTEST	0	0.0509677
Gm2381	chr7:42816826-42867234	NOTEST	0	0.00468907
Gm3336	chr8:70718542-70722635	NOTEST	0	0.0204962
Gm3417	chr17:14964188-15022449	NOTEST	0	0.0164483
Gm4566	chr17:71333200-71341804	NOTEST	0	0.124552
Gm4846	chr1:166483612-166497588	NOTEST	0	0.0118075
Gm4956	chr1:21285245-21298312	NOTEST	0	0.0411645
Gm5083	chr13:44121166-44125179	NOTEST	0	0.0182124
Gm5122	chr9:61017068-61019797	NOTEST	0	0.0303107
Gm5136	chr10:108497649-109010975	NOTEST	0	0.0199565
Gm5415	chr1:32172805-32657738	NOTEST	0	0.0307458
Gm5424	chr2:31470269-31520670	LOWDAT	0	4.64E-05
Gm5464	chr14:66868849-66871005	NOTEST	0	0.00930954
Gm5512	chr19:12905230-12906985	NOTEST	0	7.03E-06
Gm5531	chr1:153874344-153876871	NOTEST	0	0.0469191
Gm5547	chr3:105815566-105817359	NOTEST	0	0.144064
Gm5901	chr7:105371210-105400054	NOTEST	0	0.0243089
Gm7457	chr6:142814230-142964452	NOTEST	0	0.00805613
Gm8267	chr14:44717166-44724987	NOTEST	0	0.0527302
Gm8363	chr17:5480988-5483069	NOTEST	0	0.0115862
Gm853	chr4:130209108-130222295	NOTEST	0	0.00974062
Gm8989	chr7:106322395-106324528	LOWDAT	0	0.0185228
Gnrh1	chr14:67745228-67749436	NOTEST	0	0.740139
Gp6	chr7:4368712-4397744	NOTEST	0	0.0192161
Gpr142	chr11:114798923-114806745	NOTEST	0	0.101761
Gsdmc4	chr15:63891264-63912297	NOTEST	0	0.00966694

Gtf2a1l	chr17:88668659-88715150	NOTEST	0	0.0137714
Gzmb	chr14:56258857-56262260	NOTEST	0	0.83026
H2-M1	chr17:36670007-36672197	NOTEST	0	0.0700595
H2-M10.5	chr17:36772909-36776235	NOTEST	0	0.0659789
Heatr9	chr11:83511678-83522099	NOTEST	0	0.039469
Hemt1	chr15:74819075-74824436	NOTEST	0	0.143868
Heph1l	chr9:15051840-15112108	NOTEST	0	0.0297443
Hesx1	chr14:27000361-27002325	NOTEST	0	0.0195266
Hgfac	chr5:35041552-35048436	NOTEST	0	0.0114526
Hist1h2ae	chr13:23570662-23571220	NOTEST	0	0.11209
Hist1h2ag	chr13:22042477-22042949	NOTEST	0	0.816721
Hist1h2ai	chr13:21716411-21716859	NOTEST	0	0.0752612
Hist1h2ak	chr13:21753376-21753912	NOTEST	0	0.878623
Hist1h2bm	chr13:21722043-21722526	NOTEST	0	0.199751
Hist1h3c	chr13:23745041-23745521	NOTEST	0	0.679807
Hist1h4d	chr13:23581601-23581969	NOTEST	0	1.14133
Hist1h4n	chr13:21811745-21812150	NOTEST	0	0.237999
Hist2h2ac	chr3:96220412-96220880	NOTEST	0	0.799904
Hist2h2bb	chr3:96269699-96270192	NOTEST	0	0.513369
Hmx2	chr7:131554061-131556582	NOTEST	0	0.0155603
Hmx3	chr7:131542962-131544931	NOTEST	0	0.0932437
Hsd3b6	chr3:98805503-98814443	NOTEST	0	0.0122025
Hyal6	chr6:24733244-24745452	NOTEST	0	0.00601948
Ifitm5	chr7:140948961-140950239	NOTEST	0	0.0724484
Ifng	chr10:118441046-118445892	NOTEST	0	0.102336
Kcnmb3	chr3:32472320-32491969	NOTEST	0	0.0728276
Kcnmb4os1	chr10:116417867-116473523	NOTEST	0	0.0998928
Klk12	chr7:43769099-43773481	NOTEST	0	0.0938547
Klra10	chr6:129972081-130386874	NOTEST	0	0.174101
Klra14-ps	chr6:129972081-130386874	NOTEST	0	0.067549
Klra3	chr6:129972081-130386874	NOTEST	0	0.129649
Klra33	chr6:129972081-130386874	LOWDAT	0	0.119207
Klra5	chr6:129898991-129913224	NOTEST	0	0.0384731
Klra9	chr6:129972081-130386874	NOTEST	0	0.281869
Klrc2	chr6:129656345-129660596	NOTEST	0	0.225029
Klrc3	chr6:129639084-129643288	NOTEST	0	0.232206
Krt13	chr11:100117595-100121495	NOTEST	0	0.0164002
Krt16	chr11:100246090-100248902	NOTEST	0	0.0286289
Krt6a	chr15:101689927-101694305	NOTEST	0	0.273167
LOC102634431	chr9:8544141-8740988	NOTEST	0	0.0197629
LOC102635087	chr9:71168775-71208122	NOTEST	0	0.0122455
LOC381967	chr7:99260480-99267218	NOTEST	0	0.0492622
Lactbl1	chr4:136622620-136638110	NOTEST	0	0.0103869
Lgals2	chr15:78842646-78855529	NOTEST	0	0.202109
Lipm	chr19:34100942-34166041	NOTEST	0	0.00727395
Mc5r	chr18:68337602-68339711	NOTEST	0	0.0811362
Mcpt1	chr14:56017963-56020391	NOTEST	0	0.121711
Mir686	chr14:54614119-54617995	LOWDAT	0	2.54399
Mir8094	chr17:35241745-35253707	NOTEST	0	40.5585
Mir8098	chr14:62837689-62956886	LOWDAT	0	3.37048
Mir8114	chr1:153899925-153909723	NOTEST	0	63.4114
Mogat2	chr7:99219083-99238611	NOTEST	0	0.0290832
Mrpl23	chr7:142533116-142540742	NOTEST	0	0.119336

Ms4a13	chr19:11169417-11196723	NOTEST	0	0.0155426
Mst1	chr9:108080435-108085027	NOTEST	0	0.142853
Myf6	chr10:107492859-107494729	NOTEST	0	0.0218035
Myl10	chr5:136693145-136701094	NOTEST	0	0.0476405
Myog	chr1:134290003-134292548	NOTEST	0	0.014259
Naaladl1	chr19:6105797-6115555	NOTEST	0	0.0106955
Nhlrc4	chr17:25942232-25944931	NOTEST	0	0.0962129
Olfr1034	chr2:86046443-86047466	NOTEST	0	0.0236919
Olfr1163	chr2:88070364-88071407	NOTEST	0	0.0869045
Olfr1392	chr11:49293296-49294322	NOTEST	0	0.0221779
Olfr1396	chr11:49037659-49135387	NOTEST	0	0.0292453
Olfr153	chr2:87532034-87532958	NOTEST	0	0.0946311
Olfr421-ps1	chr1:174151480-174152530	NOTEST	0	0.0215454
Olfr552	chr7:102604355-102605309	NOTEST	0	0.0486398
Olfr700	chr7:106805509-106806460	NOTEST	0	0.0244182
Oxct2a	chr4:123312649-123343252	NOTEST	0	0.0142437
Oxgr1	chr14:120019584-120042435	NOTEST	0	0.00617698
Pam16	chr16:4616465-4624946	NOTEST	0	0.400838
Pglyrp4	chr3:90726905-90741517	NOTEST	0	0.0322525
Phxr4	chr9:13431360-13432740	NOTEST	0	0.0154762
Pklr	chr3:89136141-89146594	NOTEST	0	0.654393
Plg	chr17:12378608-12419384	NOTEST	0	0.0421668
Pou5f2	chr13:77708689-78166240	NOTEST	0	0.0688097
Ppifos	chr14:25694169-25701282	NOTEST	0	0.0276272
Proz	chr8:13060907-13075006	NOTEST	0	0.00828058
Prss27	chr17:24038242-24045949	NOTEST	0	0.061682
Prss50	chr9:110857966-110864628	NOTEST	0	0.0182109
Pspn	chr17:56999456-57000018	NOTEST	0	0.140472
Rab25	chr3:88542028-88548279	NOTEST	0	0.0666478
Rbm44	chr1:91145102-91170795	NOTEST	0	0.0721529
Reg3b	chr6:78370884-78373466	NOTEST	0	0.0329347
Rhox8	chrX:37874775-37878944	NOTEST	0	0.151343
Rnu12	chr15:83149644-83149794	NOTEST	0	2.30161
Rrh	chr3:129808574-129822505	NOTEST	0	0.0305869
Serpina1a	chr12:103853294-103863619	NOTEST	0	0.0653348
Serpina1c	chr12:103894925-103904950	NOTEST	0	0.0607056
Serpinb9b	chr13:33027413-33040558	NOTEST	0	0.0365129
Serpinc1	chr1:160978605-161003014	NOTEST	0	0.0398942
Sftpb	chr6:72304609-72314373	NOTEST	0	0.0141233
Sh2d1b1	chr1:170277323-170285662	NOTEST	0	0.017654
Skint8	chr4:111919554-111950356	NOTEST	0	0.0201822
Sla2	chr2:156863121-156887078	NOTEST	0	0.019814
Slc17a4	chr13:23897888-23915007	NOTEST	0	0.0286498
Slc23a3	chr1:75125541-75133890	NOTEST	0	0.00980283
Spata31d1d	chr13:59725924-59731752	NOTEST	0	0.0107957
Spdyb	chr5:143216315-143225882	NOTEST	0	0.0120747
Spint5	chr2:164715304-164718068	NOTEST	0	0.372818
Srrm4os	chr5:116438721-116591817	NOTEST	0	0.00690752
St8sia3os	chr18:64157723-64277180	NOTEST	0	0.0836995
Stmn1-rs1	chr9:115242581-115310421	NOTEST	0	0.0235308
Svs3a	chr2:164289267-164291500	NOTEST	0	0.0182858
Tac2	chr10:127724477-127731768	NOTEST	0	0.171608
Tbx5	chr5:119834662-119885218	NOTEST	0	0.00583229

Tcp10a	chr17:7324659-7345860	NOTEST	0	0.0469565
Tcte3	chr17:14964188-15022449	LOWDAT	0	0.166928
Terc	chr3:96414436-96414833	NOTEST	0	0.214802
Tktl1	chrX:74177258-74208498	NOTEST	0	0.0160268
Tktl2	chr8:66511739-66519199	NOTEST	0	0.00741675
Tmem239	chr2:130406521-130407794	NOTEST	0	0.103893
Tmprss11a	chr5:86410409-86468990	NOTEST	0	0.00740466
Tmprss11d	chr5:86302853-86373387	NOTEST	0	0.00986685
Tmprss11e	chr5:86705185-86745807	NOTEST	0	0.0113332
Tmsb15a	chrX:135718666-135720673	NOTEST	0	0.589893
Tnnt2	chr1:135836333-135852268	NOTEST	0	0.0753965
Trim61	chr8:64998447-65018688	NOTEST	0	0.00930679
Trpv5	chr6:41652769-41680723	NOTEST	0	0.0545113
Ttll2	chr17:7350903-7352696	NOTEST	0	0.015304
Tubal3	chr13:3924694-3935277	NOTEST	0	0.0188367
Ubd	chr17:37193891-37196101	NOTEST	0	0.0746622
Ugt2a1	chr5:87459489-87490871	NOTEST	0	0.00039218
Ugt2a2	chr5:87459489-87490871	NOTEST	0	0.0247285
Vmn1r53	chr6:90223316-90224438	NOTEST	0	0.0396944
Vmn1r89	chr7:13219338-13220289	NOTEST	0	0.295608
Vmn2r118	chr17:55592340-55624672	NOTEST	0	0.0154071
Vmn2r46	chr7:9754635-9770571	NOTEST	0	0.0169341
Vmn2r7	chr3:64632862-64844743	NOTEST	0	0.0239029
Vpreb1	chr16:16868400-16869255	NOTEST	0	0.307778
Vwa5b1	chr4:138568968-138623992	NOTEST	0	0.00496925
Wdr38	chr2:38998308-39005131	NOTEST	0	0.151343
Wfdc8	chr2:164596457-164613626	NOTEST	0	0.00832899
Wt1os	chr2:105076537-105126510	NOTEST	0	0.0118557
Zdhhc19	chr16:32496280-32507214	NOTEST	0	0.0164597
Zf12	chrX_GL456233_random:15964	NOTEST	0	0.0202009
Zg16	chr7:127050155-127051977	NOTEST	0	0.0848077
Ndufs5	chr4:123712709-123718186	OK	0.000477027	2.04338
Naip7	chr13:100281120-100317688	NOTEST	1.94E-05	0.0213745
Gata1	chrX:7959259-7967910	OK	0.00947746	2.69833
Rhag	chr17:40811148-40840754	OK	0.032456	7.84823
Kel	chr6:41686329-41704325	OK	0.0287919	5.26575
Btnl10	chr11:58918056-58926965	OK	0.0195514	3.0869
Gfi1b	chr2:28609449-28621982	OK	0.0105936	1.44809
Gypa	chr8:80494044-80510785	OK	0.202132	25.7526
Hemgn	chr4:46393988-46404183	OK	0.135543	14.8647
Gm867	chr10:75935572-75940672	OK	0.0188656	1.94285
Apol11b	chr15:77633950-77643286	OK	0.101921	10.3909
Cldn13	chr5:134914249-134915530	OK	0.0942723	8.96922
Sfn14	chr11:83275111-83286726	OK	0.0354569	3.23075
Ermap	chr4:119175456-119190011	OK	0.0732344	6.42366
Rhd	chr4:134864535-134896172	OK	0.171048	13.8615
Slc4a1	chr11:102348819-102365281	OK	0.645247	51.4081
Icam4	chr9:21029372-21030531	OK	0.0244789	1.85941
Ctse	chr1:131638313-131675507	OK	0.222778	14.5107
Klf1	chr8:84901927-84905295	OK	0.0903362	5.88028
Spta1	chr1:174172775-174248449	OK	0.0733772	4.49132
Trim10	chr17:36869573-36877833	OK	0.231192	12.4368
Ankle1	chr8:71406011-71409904	OK	0.0193966	0.95466

Epb4.2	chr2:121018216-121036755	OK	0.127933	5.84297
Cd8a	chr6:71373426-71379171	NOTEST	0.00554984	0.230191
Hbb-bs	chr7:103826522-103827929	OK	96.2702	3953.83
Masp2	chr4:148602543-148626996	NOTEST	0.00563459	0.224264
Tspo2	chr17:48448434-48451501	OK	0.141051	5.51543
Kif18b	chr11:102905518-102925124	OK	0.0263865	1.00203
Pdzk1ip1	chr4:115088707-115093894	OK	0.16783	5.79831
Hist1h2ao,Hist1h2a	chr13:21833023-21833575	OK	0.0464062	1.5531
Crct1	chr3:93014204-93015686	OK	0.0353742	1.1707
1300017J02Rik	chr9:103250529-103288297	OK	0.0512295	1.69326
Alas2	chrX:150547384-150570622	OK	6.50897	201.419
Hba-a2	chr11:32283671-32284493	OK	63.594	1957.3
1700028K03Rik	chr5:107534710-107661853	NOTEST	0.00594533	0.178143
Cyp2c55	chr19:39007018-39042687	NOTEST	0.00963408	0.287933
Ube2c	chr2:164769928-164772902	OK	0.496417	14.0226
Nfe2	chr15:103248217-103255416	OK	0.18185	5.13329
6330415B21Rik	chr6:76881636-77979667	NOTEST	0.00955305	0.268041
Epor	chr9:21958898-21963576	OK	0.0857778	2.37176
Mki67	chr7:135689787-135716379	OK	0.369636	10.0538
Prf1	chr10:61297835-61304263	NOTEST	0.0173961	0.401597
Car1	chr3:14766213-14808365	OK	0.345281	7.80341
Grap2	chr15:80572596-80652854	OK	0.0448599	0.990724
Klre1	chr6:129578285-129585827	NOTEST	0.0227305	0.496289
Daf2	chr1:130388527-130422999	NOTEST	0.0287523	0.6273
Hbb-b1,Hbb-bs	chr7:103826522-103827929	OK	155.108	3377.95
Hbb-bt	chr7:103812523-103813923	OK	51.1775	1034.35
Fgf3	chr7:144838611-144843348	NOTEST	0.0162673	0.328727
Slc43a1	chr2:84839407-84863586	OK	0.242325	4.7879
Mybl2	chr2:163054634-163084687	NOTEST	0.0372921	0.730492
Nusap1	chr2:119609531-119650160	OK	0.216987	4.09208
Gpr128	chr16:56724608-56795858	NOTEST	0.0064427	0.118009
Neil3	chr8:53586866-53639065	OK	0.067003	1.2255
Gm11426	chr11:82633352-82636309	NOTEST	0.0170008	0.305122
LOC171588	chr2:144459279-144467794	NOTEST	0.012712	0.224643
Mobp	chr9:120149741-120176091	OK	0.494799	8.57956
Sap25	chr5:137629122-137642902	NOTEST	0.0096383	0.164077
Unc5cl	chr17:48454900-48468684	NOTEST	0.0146146	0.24854
Ccna2	chr3:36552605-36571996	OK	0.395881	6.67646
Isg20	chr7:78913423-78920396	OK	1.74712	29.3999
Aurkb	chr11:69045642-69051662	OK	0.0684495	1.14832
Fasl	chr1:161780691-161788495	NOTEST	0.0194923	0.321238
Pif1	chr9:65587204-65595962	NOTEST	0.0264475	0.43413
Hist1h3e	chr13:23561895-23562365	NOTEST	0.0739174	1.2099
6030468B19Rik	chr11:117797659-117807308	NOTEST	0.0196852	0.316655
Gzma	chr13:113093826-113100981	OK	0.223322	3.47837
Pnp2	chr14:50956140-50964749	NOTEST	0.0525949	0.818568
Ncr1	chr7:4337723-4345164	NOTEST	0.0392352	0.603336
Cenpf	chr1:189640613-189688086	OK	0.0791485	1.20094
Adm2	chr15:89322898-89324730	NOTEST	0.0176225	0.262315
1190002F15Rik	chr6:134929091-134951718	OK	0.32655	4.84995
Klri2	chr6:129729040-129740484	NOTEST	0.00924046	0.136252
Ccnb2	chr9:70407688-70421554	OK	0.28556	4.16736
Hist1h2ad	chr13:23574380-23574915	NOTEST	0.0487913	0.703508

Ptpn20	chr14:33589269-33640754	NOTEST	0.00595769	0.0837988
Xcl1	chr1:164931647-164935510	NOTEST	0.0658728	0.916067
AI662270	chr11:83223575-83226584	OK	0.330556	4.56945
Slc39a2	chr14:51893609-51896745	NOTEST	0.00903547	0.120178
Oas3	chr5:120753097-120777659	OK	0.0813801	1.07989
Mmel1	chr4:154869584-154895530	NOTEST	0.005886	0.0780474
Gdf1	chr8:70315774-70353273	OK	0.120626	1.5969
9830132P13Rik	chr3:127916170-127955220	NOTEST	0.00888107	0.117237
Klk7	chr7:43811443-43816359	NOTEST	0.0104441	0.137242
Gp9	chr6:87778135-87779762	NOTEST	0.0265612	0.346236
C730036E19Rik	chr1:151138033-151144095	NOTEST	0.00746535	0.0968218
Esco2	chr14:65819026-65833969	OK	0.0997203	1.27084
Top2a	chr11:98992946-99024189	OK	0.339108	4.18752
Kif14	chr1:136467934-136531511	NOTEST	0.0339521	0.414901
Mylk3	chr8:85324928-85365324	OK	0.0781472	0.954595
C630031E19Rik	chr12:29528383-29923209	NOTEST	0.0131145	0.159225
8430431K14Rik	chr19:30564486-31765033	NOTEST	0.012141	0.147232
Ppp1r42	chr1:9968621-10009136	NOTEST	0.0170246	0.206002
Il7r	chr15:9506158-9529876	NOTEST	0.0228179	0.269494
Cdc6	chr11:98907888-98923942	OK	0.0831984	0.969188
Mageb3	chr2:121953770-122015326	NOTEST	0.0085887	0.0995664
Cckbr	chr7:105425819-105436338	OK	0.0732628	0.848669
A530088E08Rik	chr17:32390660-32404808	NOTEST	0.0101156	0.116532
Fam46c	chr3:100471535-100489192	OK	1.58978	18.2088
1810053B23Rik	chr16:93343715-93359543	NOTEST	0.0167955	0.190259
Ms4a4b	chr19:11443557-11463548	OK	0.124309	1.4061
Cldn8	chr16:88560825-88563183	NOTEST	0.00746946	0.0844721
Nkg7	chr7:43437137-43438246	OK	0.135945	1.509
Trim58	chr11:58640464-58652404	OK	0.179913	1.9805
Apol10a	chr15:77477046-77491069	NOTEST	0.00607777	0.066729
Rrm2	chr12:24708253-24714146	OK	0.780061	8.52398
Il1bos	chr2:129364579-129375733	NOTEST	0.0161901	0.174508
Dtl	chr1:191537364-191575534	NOTEST	0.0525587	0.554755
Casc5	chr2:119047118-119104121	OK	0.0824826	0.868288
Eqtn	chr4:94907266-94928843	NOTEST	0.0201331	0.211247
Klrc1	chr6:129666015-129678973	NOTEST	0.0198436	0.207607
Lax1	chr1:133679028-133690108	NOTEST	0.0653583	0.68125
Tal1	chr4:115056425-115071755	OK	0.397239	4.12904
Pdia2	chr17:26195998-26199087	NOTEST	0.0233207	0.241408
Dlgap5	chr14:47387778-47418407	OK	0.146811	1.51385
Dntt	chr19:41029274-41059525	NOTEST	0.0367712	0.378612
Xist	chrX:103431516-103484957	NOTEST	0.0128597	0.132394
Olig3	chr10:19356538-19358604	NOTEST	0.0477312	0.480439
Rbm38	chr2:173021901-173034731	OK	1.07555	10.7971
Ccdc169	chr3:55137338-55172936	NOTEST	0.00677087	0.0676126
BC016579	chr16:45626847-45654118	NOTEST	0.00914651	0.0906148
Cxcr3	chrX:101731535-101734147	NOTEST	0.0229291	0.226658
Cd8b1	chr6:71322811-71337451	NOTEST	0.0540418	0.529195
E2f8	chr7:48866428-48881041	OK	0.21306	1.99523
Vmn1r90	chr7:14530653-14623066	LOWDAT	0.0362366	0.33872
Depdc1a	chr3:159495432-159529955	NOTEST	0.0235852	0.220229
A330093E20Rik	chr18:45560153-46045260	NOTEST	0.0165405	0.152028
Tnk1	chr11:69846371-69858730	NOTEST	0.011708	0.106858

Sgol1	chr17:53674786-53689315	NOTEST	0.0587685	0.535894
Bmp8a	chr4:123312649-123343252	NOTEST	0.0541952	0.48382
Pbk	chr14:65805910-65817822	OK	0.127966	1.13555
Fam132b	chr1:91366429-91374217	NOTEST	0.0123224	0.107465
Cnga2	chrX:71991874-72010218	NOTEST	0.00606704	0.0525187
Hist1h2ah	chr13:22035121-22035643	NOTEST	0.0541367	0.468083
Ccdc64b	chr17:23660522-23677449	NOTEST	0.0205971	0.177365
Sprr1a	chr3:92483953-92485881	OK	0.723039	6.19335
Gm14393	chr2:175061548-175067769	NOTEST	0.0424722	0.363189
Mc1r	chr8:123407081-123410744	NOTEST	0.00525835	0.0444157
Il18r1	chr1:40465551-40500854	NOTEST	0.0355955	0.300274
Lrr1	chr12:69168813-69179010	NOTEST	0.0553121	0.462453
Samd3	chr10:26229706-26272172	NOTEST	0.0102976	0.0857074
Myb	chr10:21124929-21160984	NOTEST	0.0869677	0.713044
Tbrg3	chr15:82808625-82912134	NOTEST	0.00427919	0.0349015
Tspan33	chr6:29694255-29718558	OK	1.00736	8.20401
Ecel1	chr1:87147654-87156356	OK	0.278622	2.25497
2810417H13Rik	chr9:65828925-65908794	OK	0.135117	1.09276
Aspm	chr1:139454772-139494088	NOTEST	0.0662011	0.534681
Xlr	chrX:53777117-53797706	NOTEST	0.0200594	0.161541
Hist1h3g	chr13:23535417-23535909	NOTEST	0.127946	1.03017
Il2rb	chr15:78480548-78495066	OK	0.114517	0.921651
Gm21119	chr8:20614926-20640703	NOTEST	0.00744376	0.0594779
Tnfaip2	chr12:111442660-111455018	OK	0.359602	2.86945
Gpr115	chr17:42656886-42692284	NOTEST	0.0251348	0.199751
1700012D14Rik	chr7:111117672-111122675	NOTEST	0.0759572	0.597541
Ccnb1	chr13:100778738-100786486	NOTEST	0.101942	0.79874
Khdc1a	chr1:21349676-21352199	NOTEST	0.00921665	0.0706271
Rpl12	chr2:32961711-32964045	NOTEST	0.0743772	0.562436
Acp5	chr9:22055459-22389206	OK	0.262037	1.9679
Erdr1	chrY:90785441-90816465	NOTEST	0.0678179	0.50896
Trim59	chr3:69035293-69044742	OK	0.776675	5.72103
Slc25a37	chr14:69241850-69285103	OK	3.87775	28.5614
1700093K21Rik	chr11:23516202-23519942	NOTEST	0.0215613	0.1583
4931431C16Rik	chr5:35581226-35613801	NOTEST	0.00635609	0.0463147
Aqp9	chr9:71110658-71163289	NOTEST	0.0974552	0.706041
Klrg1	chr6:122270596-122282833	NOTEST	0.0425878	0.306637
Tnfrsf14	chr4:154922209-154928077	OK	0.381935	2.74482
Usp44	chr10:93831554-93858087	NOTEST	0.0229759	0.164511
Gm4847	chr1:166628970-166647693	NOTEST	0.00684806	0.0485994
C030023E24Rik	chrX:61191292-61194164	OK	0.665575	4.72172
Grb7	chr11:98446833-98455373	NOTEST	0.0230186	0.161959
Apob	chr12:7977676-8016839	NOTEST	0.00509044	0.0356437
Olf1372-ps1	chr11:52154875-52157907	OK	0.19193	1.33346
Cd3d	chr9:44981785-44987052	NOTEST	0.0619978	0.427409
Kif15	chr9:122951080-123018733	NOTEST	0.113584	0.782936
4930467E23Rik	chr8:19729575-20063170	NOTEST	0.00674547	0.0461112
Mfsd2b	chr12:4862437-4874359	OK	0.322602	2.2
4930474G06Rik	chr18:28560163-28998176	NOTEST	0.00654233	0.0443194
Klrb1c	chr6:128778484-128788641	NOTEST	0.0756945	0.512766
BC049635	chr4:42868002-42874203	NOTEST	0.0236048	0.159758
4732456N10Rik	chr15:101552355-101562950	NOTEST	0.0156095	0.105558
Cdk1	chr10:69336634-69352912	OK	0.224095	1.51427

Snai3	chr8:122454205-122460692	NOTEST	0.0139218	0.0940646
1700011A15Rik	chr15:101431013-101491512	NOTEST	0.0246192	0.166267
Pkhd11l	chr15:44457552-44597135	NOTEST	0.0917268	0.615495
Klra7	chr6:129972081-130386874	NOTEST	0.0645078	0.430377
Mrgpra4	chr7:47980793-47982296	NOTEST	0.0684675	0.456664
Kif4	chrX:100626064-100727271	OK	0.121382	0.809371
Trpm1	chr7:64153834-64269759	NOTEST	0.00292866	0.0194527
Ubap1l	chr9:65361059-65380377	NOTEST	0.105629	0.700776
Slc22a29	chr19:8160167-8218839	NOTEST	0.00960568	0.0636796
Hes3	chr4:152285971-152291662	OK	0.193338	1.27958
Fam110c	chr12:31073967-31079940	NOTEST	0.0156013	0.103219
Ccdc175	chr12:72085838-72185029	NOTEST	0.0216488	0.142436
Nmur2	chr11:56024989-56040987	NOTEST	0.010833	0.0711317
Tmem91	chr7:25669139-25675166	OK	0.131112	0.846092
Ceacam2	chr7:25376818-25566417	NOTEST	0.00599894	0.0387045
Fam219aos	chr4:41517436-41569527	NOTEST	0.0321412	0.206839
Hnf4g	chr3:3508029-3659800	NOTEST	0.035811	0.230107
Kcnk16	chr14:20262755-20269162	NOTEST	0.0269018	0.172106
Serpina9	chr12:103996619-104013652	NOTEST	0.0251366	0.159253
Ddx43	chr9:78395776-78423589	NOTEST	0.00857656	0.054248
Sp5	chr2:70474922-70477726	NOTEST	0.0090842	0.0574436
Rsad2	chr12:26442742-26456452	OK	4.61319	29.11
Hist1h4c	chr13:23698083-23698458	NOTEST	0.0935192	0.586261
Slc14a1	chr18:78100090-78142119	OK	0.420107	2.63185
Hist1h3i	chr13:21782914-21783397	NOTEST	0.0647763	0.405085
Syce1l	chr8:113635585-113655533	NOTEST	0.0318445	0.198843
Hmmr	chr11:40701387-40733437	OK	0.246277	1.53347
Neurog1	chr13:56250497-56252163	NOTEST	0.0220184	0.136996
C030016D13Rik	chr19:27430036-27432631	NOTEST	0.0372264	0.231333
Cenpa	chr5:30666901-30674826	OK	0.621008	3.85636
F830002L21Rik	chr10:43593426-43630913	OK	0.183752	1.14088
Uhrf1	chr17:56303336-56323486	OK	0.206621	1.28267
Ctcf1	chr2:173093608-173119525	NOTEST	0.0181239	0.11223
Lat	chr7:126363827-126369534	NOTEST	0.0833006	0.511368
D930020B18Rik	chr10:121641700-121693914	NOTEST	0.00998131	0.0606935
Ctsw	chr19:5465239-5468498	NOTEST	0.0804627	0.488803
Otp	chr13:94875626-94883681	NOTEST	0.0164672	0.0993638
Clspn	chr4:126556979-126593903	NOTEST	0.0793412	0.478624
Cst7	chr2:150570414-150578944	NOTEST	0.0632111	0.378373
Gm15612	chr6:88842557-88874044	NOTEST	0.0117615	0.0702505
Ubash3a	chr17:31208065-31242403	NOTEST	0.0456254	0.270767
Slc22a13	chr9:119192977-119209105	NOTEST	0.0106988	0.0633642
C2cd4a	chr9:67830531-67832330	NOTEST	0.0168146	0.0995151
D6Ert474e	chr6:143245887-143297879	NOTEST	0.00672449	0.039751
Hmgb2	chr8:57511842-57515999	OK	0.209235	1.22445
Gm14827	chrX:94442731-94447727	NOTEST	0.0947267	0.550689
C1ql4	chr15:99084753-99087728	OK	4.3798	25.459
Trim29	chr9:43310762-43336125	NOTEST	0.0142495	0.082828
Snhg11	chr2:158375637-158386145	OK	36.2003	209.829
Hbq1a	chr11:32300068-32300873	NOTEST	0.188325	1.08649
Pglyrp2	chr17:32412460-32424167	NOTEST	0.00888778	0.0512333
Eomes	chr9:118478188-118486132	NOTEST	0.00962721	0.0552741
Ccl5	chr11:83525778-83530518	OK	1.01888	5.83732

Adcy10	chr1:165485182-165576773	NOTEST	0.00343494	0.0195494
A230028O05Rik	chr16:25059638-25069058	NOTEST	0.00664135	0.0377337
Tgm6	chr2:130112415-130154232	NOTEST	0.00582574	0.0330807
Bpgm	chr6:34476355-34505610	OK	12.7385	72.2734
Lrrc2	chr9:110951544-110984064	NOTEST	0.0450165	0.255135
Cenpe	chr3:135212562-135273540	OK	0.205055	1.16099
Ovol2	chr2:144305175-144332080	OK	0.493444	2.78361
Gm128	chr3:95236919-95241109	NOTEST	0.0152382	0.0857071
Aldh3b2	chr19:3972327-3981665	NOTEST	0.0268463	0.150753
Nccrp1	chr7:28543595-28547254	OK	0.264021	1.479
Slc12a3	chr8:94329207-94366221	NOTEST	0.0336092	0.187466
Hbq1b	chr11:32286963-32287912	OK	0.455816	2.54028
Cdca8	chr4:124918464-124936917	OK	0.908597	5.05147
C330024D21Rik	chr5:67463897-67477899	NOTEST	0.00671923	0.0373114
Sdr9c7	chr10:127898534-127911759	NOTEST	0.00727126	0.0403179
Trim71	chr9:114511272-114564369	NOTEST	0.0352112	0.195216
Cdc25c	chr18:34732996-34751533	NOTEST	0.0821318	0.454569
Meg3	chr12:109540995-109571729	OK	38.0262	206.413
Mcm10	chr2:4990723-5012791	NOTEST	0.118474	0.642151
Cd200r4	chr16:44820727-44839150	NOTEST	0.0107587	0.0580826
Plk1	chr7:122159436-122169875	OK	0.290002	1.56212
1600023N17Rik	chr5:45668700-45669708	NOTEST	0.153745	0.823789
Cldn26	chr16:8409275-8425136	NOTEST	0.103307	0.551248
Kif23	chr9:61917277-61946799	OK	0.78142	4.16384
B230216G23Rik	chr6:142413430-142419740	OK	0.283862	1.51106
Slc51a	chr16:32475577-32487879	OK	0.993672	5.28095
Ttll8	chr15:88913897-88954418	NOTEST	0.00620278	0.0329502
Gm7244	chr9:31271400-31275385	NOTEST	0.0378577	0.201102
5830432E09Rik	chr7:135537823-135686294	NOTEST	0.0258122	0.137111
Arhgef39	chr4:43496143-43499660	OK	0.234328	1.24303
Crh	chr3:19693400-19695396	NOTEST	0.0461257	0.244589
4921511I17Rik	chr12:12262138-12392475	NOTEST	0.0329624	0.174054
Ncapg	chr5:45669924-45857540	OK	0.292486	1.54393
Pde4c	chr8:70724063-70751176	OK	2.32634	12.2795
Gm7325	chr17:45600966-45602102	OK	0.369347	1.94889
4930467K11Rik	chr10:57478382-57486353	NOTEST	0.0331705	0.174547
Serpina1d	chr12:103763586-103773633	NOTEST	0.0146814	0.0765781
Slc16a10	chr10:40033534-40142254	OK	0.597818	3.10946
Ticrr	chr7:79660195-79714186	NOTEST	0.0349331	0.180847
2610203C22Rik	chr1:9548045-9631092	NOTEST	0.138084	0.712299
Cel	chr2:28555819-28563362	NOTEST	0.0204136	0.105144
Peg3os	chr7:6705959-6730419	NOTEST	0.0842843	0.433522
Ube2l6	chr2:84798827-84810003	OK	16.003	81.988
Slc30a2	chr4:134343045-134354484	NOTEST	0.012367	0.0631032
9230105E05Rik	chr10:120361274-120476935	NOTEST	0.13234	0.671856
Gm10248	chr14:22019711-23094571	NOTEST	0.00680704	0.0344767
Odf3b	chr15:89377448-89379254	NOTEST	0.0192702	0.0966745
Slc1a7	chr4:107968333-108013532	NOTEST	0.0317095	0.158505
Adamts19	chr18:58836763-59053678	NOTEST	0.125333	0.624098
Kcna3	chr3:107036161-107038129	OK	0.328046	1.62404
Mettl21e	chr1:44204069-44218931	NOTEST	0.0305771	0.151027
Slc25a21	chr12:56712633-57197472	NOTEST	0.0821572	0.405416
Ccdc83	chr7:90223877-90265432	NOTEST	0.0304169	0.149617

Wfdc2	chr2:164562715-164568506	OK	4.90589	24.0105
Gm6402	chr17:30215523-30576287	OK	0.320219	1.55862
Kcnq1ot1	chr7:143107253-143427042	NOTEST	0.0504931	0.245702
AI854517	chr7:79500025-79534403	NOTEST	0.00487134	0.0237025
BC048644	chr8:121907832-121944912	NOTEST	0.0177256	0.0862046
H2-T24	chr17:35994503-36038174	OK	0.376481	1.82536
Prss38	chr11:59372668-59375653	NOTEST	0.0175572	0.0847636
E2f2	chr4:136172393-136196056	OK	1.31658	6.34808
Stil	chr4:115000117-115043198	NOTEST	0.100036	0.481273
6430411K18Rik	chr12:109590168-109595403	OK	0.360805	1.73186
4930431F12Rik	chr5:44966200-44978805	NOTEST	0.0171709	0.0824001
Cdh9	chr15:16778100-16856777	OK	2.69985	12.9506
Cdcp1	chr9:123172284-123216038	NOTEST	0.00527234	0.025286
Bhlha9	chr11:76672469-76673676	OK	5.44651	26.0586
Pnliprp2	chr19:58759722-58777534	NOTEST	0.0133266	0.0636693
Cd160	chr3:96798762-96829351	NOTEST	0.0154989	0.0740402
9430060I03Rik	chr1:92933542-92950590	NOTEST	0.0233475	0.110515
Rdh7	chr10:127884026-127888733	NOTEST	0.0126682	0.0598511
Cd247	chr1:165788680-166002634	NOTEST	0.0970832	0.456874
Ckap2l	chr2:129268209-129297212	OK	0.356805	1.67783
Gpat2	chr2:127425198-127436092	NOTEST	0.0450894	0.211755
2410076I21Rik	chr9:58582239-58741559	OK	0.656255	3.0802
Gm15915	chr10:93641048-93745972	NOTEST	0.0275321	0.129021
Kifc1	chr17:33875665-33890633	OK	0.407315	1.90434
Smim6	chr11:115892594-115933492	NOTEST	0.144465	0.67219
Th	chr7:142892775-142899966	OK	44.8482	208.333
Zfp457	chr13:67292450-67306412	NOTEST	0.0481346	0.223295
Igll1	chr16:16860670-16863985	NOTEST	0.0822257	0.380516
Gm11240	chr4:73791243-73798378	NOTEST	0.132075	0.611065
Gimap3	chr6:48764463-48770851	NOTEST	0.167478	0.77368
Depdc1b	chr13:108316336-108389557	OK	0.259469	1.19863
Dmc1	chr15:79561497-79605109	NOTEST	0.158146	0.729807
Ctcflos	chr2:173124748-173133204	NOTEST	0.101796	0.466903
Dyrk4	chr6:126876198-126921839	OK	0.27075	1.24087
Rps12	chr10:23785182-23787209	NOTEST	0.0624642	0.286264
Ccl1	chr11:82176665-82179812	OK	0.537493	2.45743
Slc6a9	chr4:117835257-117872470	OK	1.13517	5.16866
Mfi2	chr16:31878809-31899019	NOTEST	0.0665334	0.301534
Fam92b	chr8:120166396-120177469	NOTEST	0.0860773	0.389374
Apol7e	chr15:77698888-77719288	NOTEST	0.0164538	0.0743617
Smco1	chr16:32271608-32274779	NOTEST	0.0181686	0.0815578
Eppin	chr2:164588342-164593571	OK	0.586676	2.6286
Acmsd	chr1:127729412-127774054	NOTEST	0.0592235	0.262238
Mrgpra3	chr7:47588949-47601372	OK	14.0776	62.2377
Mis18bp1	chr12:65132734-65172580	NOTEST	0.100865	0.444115
Cdca5	chr19:6085096-6091773	NOTEST	0.179473	0.789443
Ceacam10	chr7:24777203-24784655	OK	4.77003	20.9802
Trim40	chr17:36881597-36890125	NOTEST	0.0272583	0.119652
Gm20199	chr9:59388553-59486374	NOTEST	0.0340962	0.14893
Slc38a5	chrX:8271380-8280176	OK	0.596494	2.60135
Birc5	chr11:117849236-117855743	OK	1.87645	8.16802
Amy1	chr3:113555951-113577750	OK	3.44901	14.9848
Orc1	chr4:108579453-108614831	NOTEST	0.0999768	0.433987

Gdf15	chr8:70629393-70631635	NOTEST	0.10003	0.434192
Lrrc10b	chr19:10455370-10457447	OK	0.688486	2.98492
A730046J19Rik	chrX:144153694-144166274	NOTEST	0.0228581	0.0990697
Tnfrsf4	chr4:156013694-156016589	NOTEST	0.0957322	0.414711
Gm6994	chr14:77156762-77721763	NOTEST	0.0201543	0.0867393
Prr22	chr17:56770275-56772134	OK	0.259126	1.11291
Dmrt1	chr19:25505705-25604328	NOTEST	0.00888306	0.0381473
Gm7444	chr9:56027635-56031573	NOTEST	0.0092088	0.0394701
A930011O12Rik	chr14:64588114-64593961	OK	3.72841	15.9681
Dbx2	chr15:95623562-95654771	NOTEST	0.181918	0.776753
Cacna1i	chr15:80287237-80398292	OK	2.17031	9.25567
4933408J17Rik	chr10:93540631-93605245	NOTEST	0.0226257	0.0964573
Pnpla5	chr15:84112620-84123175	NOTEST	0.0244014	0.104006
Nxn1	chr8:71560554-71566649	NOTEST	0.0353471	0.150472
Gm15328	chr18:16816406-16822783	NOTEST	0.0436555	0.185584
Agrp	chr8:105566694-105579845	OK	0.397135	1.68531
Nup210l	chr3:90104131-90212017	NOTEST	0.0510436	0.216474
H1foo	chr6:115944938-115950233	NOTEST	0.0177001	0.074987
Klhl31	chr9:77636731-77660122	NOTEST	0.00300541	0.0126991
Klra18,Klra33,Klra40	chr6:129972081-130386874	NOTEST	0.0404217	0.17073
Mbnl3	chrX:51113493-51205832	NOTEST	0.0349247	0.14624
Hrg	chr16:22951071-22961659	NOTEST	0.0930146	0.388396
Bub1	chr2:127800199-127831859	OK	0.186519	0.777656
Gm15816	chr8:22974835-23150497	NOTEST	0.0365998	0.152577
Wfdc10	chr2:164656045-164657368	NOTEST	0.0707644	0.294562
Kcna7	chr7:45405959-45411382	NOTEST	0.0113709	0.0472688
4930581F22Rik	chr9:35046578-35175987	NOTEST	0.144835	0.601863
Slc17a8	chr10:89574019-89621249	OK	3.91945	16.2287
Gm20139	chr10:19141748-19207947	OK	0.370484	1.53032
Gm9767	chr10:25991185-26079447	OK	0.271128	1.11872
Epha8	chr4:136929418-136956816	OK	0.219647	0.904977
Gm16853	chr9:21367870-21411720	NOTEST	0.0204577	0.0840222
Bcl2l15	chr3:103193822-103854618	NOTEST	0.134671	0.551548
Cdca3	chr6:124830175-124833701	OK	0.760673	3.09085
Oas1e	chr5:120786311-120795530	NOTEST	0.0106517	0.0431318
Mlph	chr1:90915099-90951142	NOTEST	0.0743053	0.30076
Tm6sf2	chr8:70072931-70080052	NOTEST	0.132454	0.535667
Col7a1	chr9:108953744-108984875	NOTEST	0.135676	0.546124
Tekt2	chr4:126322120-126325199	NOTEST	0.166275	0.668229
Ly6i	chr15:74979811-74983430	NOTEST	0.023914	0.0960406
Unc13d	chr11:116062095-116077961	OK	0.697353	2.78781
Myf5	chr10:107482907-107486134	NOTEST	0.0279805	0.111169
Nxpe2	chr9:48318003-48340898	OK	3.11021	12.3391
Sbk3	chr7:4965259-4970961	OK	0.317208	1.25345
Kif2c	chr4:117159632-117182624	NOTEST	0.144341	0.570357
A930016O22Rik	chr7:19411093-19421583	NOTEST	0.0800535	0.316211
Msmg	chr4:43562633-43587487	NOTEST	0.029923	0.117988
Stac3	chr10:127501716-127508815	NOTEST	0.145358	0.573055
St14	chr9:31088589-31131799	NOTEST	0.133549	0.526097
Tmprss11c	chr5:86231480-86289308	OK	1.71747	6.76192
Ppef2	chr5:92226973-92253159	NOTEST	0.0590067	0.232083
Pet117	chr2:144368982-144407675	OK	1.61105	6.33562
Cct8l1	chr5:25516066-25518027	NOTEST	0.0378248	0.148486

Ndc80	chr17:71496099-71526857	NOTEST	0.19155	0.743601
Ildr1	chr16:36693977-36726804	NOTEST	0.0189732	0.0734718
A930013F10Rik	chr8:22628118-22653437	OK	0.306522	1.1841
BC107364	chr3:96433787-96452306	NOTEST	0.038688	0.149362
Fbxl13	chr5:21483846-21645605	NOTEST	0.0295555	0.113857
Il4i1	chr7:44812255-44849079	NOTEST	0.0678917	0.26123
Serpina1b	chr12:103728155-103738189	NOTEST	0.0158032	0.0606558
E530001F21Rik	chrX:105164377-105165505	OK	0.35153	1.34691
5730508B09Rik	chr3:127869687-127896323	OK	7.51956	28.8094
Btg3	chr16:78359859-78376785	NOTEST	0.189327	0.72527
Spag5	chr11:78301590-78322454	OK	0.458577	1.74977
Gm20751	chr13:43716790-43719038	NOTEST	0.148989	0.568233
Baiap2l2	chr15:79258194-79285509	NOTEST	0.146411	0.556758
Tnfsf14	chr17:57189473-57194181	NOTEST	0.0412424	0.156649
Clca3	chr3:145004536-145032776	NOTEST	0.0188878	0.0715555
Wnt11	chr7:98835111-98854747	OK	0.564211	2.13514
9530052E02Rik	chr8:10986963-11054541	NOTEST	0.0457016	0.172858
Muc2	chr7:141690339-141754694	NOTEST	0.0277035	0.104525
Aknad1	chr3:108739657-108782309	NOTEST	0.00758042	0.0285466
Opn1sw	chr6:29348105-29380513	NOTEST	0.0252411	0.0950442
Dgkk	chrX:6873483-6948363	OK	1.61636	6.07713
E030024N20Rik	chr19:16132830-16387453	NOTEST	0.0165384	0.0619857
Fut1	chr7:45617605-45621059	NOTEST	0.0316148	0.118362
Zfp57	chr17:37001162-37010729	OK	0.738508	2.75978
Gm1123	chr9:99006964-99035690	NOTEST	0.076683	0.285749
Gm7271	chr5:76484076-76516628	OK	47.0629	174.27
E330033B04Rik	chr15:96268563-96275275	NOTEST	0.102031	0.377377
Gm10677	chr9:47530351-47853385	NOTEST	0.0192045	0.0709225
Gm4787	chr12:81376990-81379486	NOTEST	0.118844	0.438148
C1s2	chr6:124624624-124636085	NOTEST	0.0483772	0.177286
Itih4	chr14:30886475-30901986	NOTEST	0.0299691	0.109816
Ska1	chr18:74195298-74207818	NOTEST	0.0366525	0.134134
Nmur1	chr1:86386324-86388141	OK	0.920592	3.36519
Grxcr1	chr5:68031834-68166398	NOTEST	0.0804247	0.29293
Klrk1	chr6:129610322-129623864	NOTEST	0.0544205	0.19679
Prss45	chr9:110834587-110841310	NOTEST	0.0521332	0.188389
Olfir239	chr17:33199061-33200009	NOTEST	0.0216587	0.078161
Prc1	chr7:80294450-80316259	OK	1.09255	3.93444
Nek2	chr1:191821472-191833049	NOTEST	0.223482	0.804713
Sh2d4b	chr14:40815867-40892965	OK	1.20091	4.31643
Mirg	chr12:109734980-109749457	OK	4.23411	15.2178
Nkx6-3	chr8:23153270-23158948	NOTEST	0.00894859	0.0321181
Plcz1	chr6:139989721-140041417	NOTEST	0.00919272	0.0329913
Myoz3	chr18:60573716-60591716	NOTEST	0.00569622	0.0204293
Gm6559	chr6:51379709-51392791	NOTEST	0.0374143	0.134095
Duxbl1,Duxbl2	chr14:26262257-26269434	NOTEST	0.00914602	0.0327518
Sis	chr3:72888559-72966866	NOTEST	0.00337914	0.0120659
BC018473	chr11:116752166-116757883	NOTEST	0.00628479	0.0223981
Klra13-ps	chr6:129972081-130386874	NOTEST	0.0297134	0.10581
Ryr1	chr7:29003339-29125151	NOTEST	0.0703013	0.249842
Ect2	chr3:27097221-27153878	OK	0.465342	1.65261
Fbp2	chr13:62836884-62858370	OK	1.70161	6.01929
Lgals3	chr14:47373859-47386167	OK	4.03869	14.2712

Tdg	chr10:82629837-82690650	OK	0.243566	0.858913
Cenph	chr13:100759685-100775899	OK	0.352502	1.23911
Tulp2	chr7:45473562-45522603	NOTEST	0.0130506	0.0458715
Tespa1	chr10:130322851-130362642	NOTEST	0.0237432	0.0833923
4930578M01Rik	chr15:98985964-98989281	NOTEST	0.0917	0.322027
Itk	chr11:46193848-46589232	OK	0.737862	2.59118
4930488L21Rik	chr8:93810837-93969388	NOTEST	0.0109655	0.0384743
Gm20324	chr15:82808625-82912134	NOTEST	0.151757	0.53108
Cenpu	chr8:46552068-46617200	NOTEST	0.192645	0.674083
Misp	chr10:79697304-80369637	OK	0.691547	2.418
Kif11	chr19:37376402-37421859	OK	0.631244	2.20066
Dppa5a	chr9:78367053-78368199	NOTEST	0.241354	0.840675
Klk11	chr7:43774616-43779262	NOTEST	0.101254	0.352494
Ccdc68	chr18:69925558-69969484	OK	12.0693	41.9807
Rtdr1	chr10:74957476-75032586	NOTEST	0.0163495	0.0567522
Dhrs11	chr11:84820727-84829003	OK	3.07042	10.6437
Galr3	chr15:79030873-79043558	NOTEST	0.0165248	0.0572432
Doc2g	chr19:4003384-4007005	OK	0.355656	1.23064
Tgm5	chr2:121046110-121085759	OK	0.369721	1.27862
Tecrl	chr5:83278121-83355195	NOTEST	0.0256399	0.0886354
1810010D01Rik	chr7:145205817-145208119	NOTEST	0.0513496	0.177272
5033406O09Rik	chr12:111941990-111944482	NOTEST	0.135002	0.465929
Bmp15	chrX:6314105-6320723	OK	1.91327	6.59549
Hrh1	chr6:114397935-114483296	OK	0.998586	3.43802
D730005E14Rik	chr15:79889531-79908429	NOTEST	0.0314953	0.108399
Serpinf2	chr11:75431735-75439501	NOTEST	0.00864993	0.0297587
Fcamr	chr1:130800901-130814740	NOTEST	0.0209144	0.0719242
Epb4.1	chr4:131923426-132075313	OK	8.8784	30.5311
Snx22	chr9:66060168-66069731	OK	0.323069	1.10867
Samd11	chr4:156236009-156255338	OK	0.788571	2.70398
Gm5088	chr14:89896223-89899447	NOTEST	0.0180586	0.0618454
Kcne3	chr7:100176669-100184869	OK	0.251717	0.859352
Cd3g	chr9:44969571-44980431	NOTEST	0.10471	0.357209
Orm3	chr4:63356161-63359511	NOTEST	0.0904936	0.308693
Card11	chr5:140872998-141000596	OK	2.49761	8.51389
Cib3	chr8:72204334-72212837	NOTEST	0.173411	0.590815
Gpr151	chr18:42578019-42579652	OK	0.837626	2.85308
Pkd2l1	chr19:44147636-44192442	NOTEST	0.00583505	0.0198709
4930407I10Rik	chr15:82059150-82066538	NOTEST	0.00429861	0.0146363
Prrt4	chr6:29169229-29179584	OK	0.861844	2.93168
4930550L24Rik	chrX:58911460-58920304	NOTEST	0.0525285	0.178681
Hus1b	chr13:30813917-30974047	NOTEST	0.0721573	0.245161
Espl1	chr15:102296292-102324356	NOTEST	0.188698	0.640868
Fscn2	chr11:120361533-120368173	NOTEST	0.0778904	0.264399
Gm4349	chr3:95427348-95431085	NOTEST	0.0176032	0.0597378
Asf1b	chr8:83955693-83970195	OK	0.6673	2.26174
Slc39a5	chr10:128395930-128401224	NOTEST	0.022016	0.0746157
Hoxd3	chr2:74710043-74748271	OK	1.20557	4.082
A330032B11Rik	chr19:37021290-37207471	NOTEST	0.0224628	0.0760522
1600029O15Rik	chr9:58196296-58208808	OK	0.30813	1.04067
Serpnb2	chr1:107511422-107525600	NOTEST	0.00971404	0.0327538
Gm4532	chr7:127232417-127233130	OK	0.333366	1.12268
Trim72	chr7:128004377-128011393	NOTEST	0.0855138	0.28798

P2rx2	chr5:110339811-110343035	OK	1.94761	6.54405
1700024F13Rik	chr13:3498049-3501393	NOTEST	0.0370278	0.124224
Tacr1	chr6:82402474-82560104	NOTEST	0.0177805	0.0596294
Cox7b2	chr5:71442822-71548205	NOTEST	0.146068	0.489858
Hmbs	chr9:44336347-44344228	OK	6.04483	20.2652
Fxyd2	chr9:45399708-45410278	OK	607.391	2035.6
Slc10a2	chr8:5085622-5105232	NOTEST	0.247392	0.829102
Chrna4	chr2:181022310-181039177	OK	1.29536	4.31961
Krt27	chr11:99345565-99351094	OK	1.35563	4.51088
Gm2518	chr19:8772521-8786417	NOTEST	0.0565341	0.188035
Soat2	chr15:102150574-102163436	OK	0.407721	1.35426
Nts	chr10:102481755-102490418	OK	5.18462	17.1737
Rasal3	chr17:32390660-32404808	NOTEST	0.101892	0.337413
Spata19	chr9:27396820-27401710	NOTEST	0.0395757	0.130974
Wfdc17	chr11:83704055-83706269	OK	0.621283	2.05284
Dna2	chr10:62947028-62974188	NOTEST	0.15996	0.527202
Cd3e	chr9:44998742-45009590	NOTEST	0.206635	0.680081
Cdc20	chr4:118428092-118437343	OK	0.556489	1.83137
4831440E17Rik	chr5:25499796-25504473	OK	0.261283	0.85816
Wnt16	chr6:22288226-22298522	OK	0.754555	2.47505
Hsd17b1	chr11:101078410-101080505	NOTEST	0.146402	0.478567
Gsg2	chr11:73090594-73147449	NOTEST	0.107697	0.351941
Tnnc1	chr14:31208311-31211711	OK	0.401156	1.31079
Tmem102	chr11:69803594-69806038	NOTEST	0.0820079	0.267887
Ttll6	chr11:96133785-96165452	OK	0.384423	1.2547
Miat	chr5:112213227-112228948	OK	18.1515	59.2417
Cd6	chr19:10789338-10830058	NOTEST	0.0754871	0.246129
Rhox5	chrX:37754607-37808878	NOTEST	0.16755	0.546179
Neurog3	chr10:62133089-62134763	OK	0.471801	1.53613
Mrgprb5	chr7:48168016-48168985	OK	5.94189	19.335
5830473C10Rik	chr5:90561208-90597906	OK	0.620974	2.01515
Hist1h2bk	chr13:22035820-22036320	NOTEST	0.0581438	0.188409
Fancd2	chr6:113531681-113596285	OK	0.316179	1.02428
Wdfy1	chr1:79702261-79761769	OK	3.67641	11.9041
Gpx2-ps1	chr7:100227606-100278872	NOTEST	0.151163	0.489317
Mei1	chr15:82070116-82126814	NOTEST	0.0811366	0.262513
Mtap7d3	chrX:56797952-56822325	NOTEST	0.105888	0.342247
Glp2r	chr11:67706429-67771153	NOTEST	0.00389602	0.0125722
Tex21	chr12:76198689-76246746	NOTEST	0.0102304	0.032936
AW551984	chr9:39587395-39604124	OK	1.6063	5.16749
Rpl36a	chrX:134585653-134588062	NOTEST	0.316538	1.0173
Cd36	chr5:17781689-17888959	OK	1.2316	3.95285
AU015836	chrX:93968655-93975470	NOTEST	0.0329138	0.105402
Spc25	chr2:69193894-69206190	OK	0.565667	1.81145
2310002F09Rik	chr7:43745465-43755936	OK	0.376958	1.20673
Fshr	chr17:88984951-89200675	NOTEST	0.0149251	0.0477107
Gabrr3	chr16:59407381-59461739	NOTEST	0.0145175	0.0463986
Kif20a	chr18:34598614-34651736	OK	0.509782	1.62876
Cdca2	chr14:67676353-67715841	NOTEST	0.213041	0.680107
Mrgprx1	chr7:48020970-48027597	OK	14.431	46.0247
Tnfsf11	chr14:78277445-78308043	NOTEST	0.0173997	0.0554444
Gm20611	chr10:61031302-61038080	NOTEST	0.0208556	0.0664525
Crip3	chr17:46428941-46431771	NOTEST	0.227589	0.724264

Il31ra	chr13:112522806-112580662	OK	6.35222	20.2027
Sowahd	chrX:37048844-37050418	NOTEST	0.239692	0.762284
Fam19a4	chr6:96831208-97060411	OK	25.392	80.7151
Ucp1	chr8:83290347-83298456	NOTEST	0.0491324	0.156053
Ptpn7	chr1:135132724-135145320	NOTEST	0.0813104	0.257974
Nrp	chr12:87428077-87472299	NOTEST	0.104258	0.330767
Ambn	chr5:88456010-88468529	NOTEST	0.0104354	0.0330946
Slamf1	chr1:171767131-171801184	NOTEST	0.0288627	0.0915021
Slc2a4rg-ps	chr2:181384249-181387596	OK	0.336885	1.06795
Ptk6	chr2:181195123-181202789	NOTEST	0.0649342	0.205687
Ftx	chrX:103560909-103623754	OK	1.09547	3.46438
Slc44a4	chr17:34914465-34930436	NOTEST	0.0155464	0.0491384
Tspan32	chr7:143005045-143019485	NOTEST	0.172793	0.545344
Dapk2	chr9:66158225-66272242	OK	7.28147	22.9663
Gch1	chr14:47153894-47189402	OK	1.31756	4.15424
Erich2	chr2:70489939-70602012	NOTEST	0.0541494	0.170644
Dlx1	chr2:71529444-71537891	NOTEST	0.0344964	0.108592
4932438H23Rik	chr16:91053934-91069145	NOTEST	0.00814652	0.0256364
Ppm1n	chr7:19276806-19280049	OK	0.336859	1.05989
Gabrd	chr4:155384978-155398069	NOTEST	0.240032	0.754699
9530059O14Rik	chr9:122572500-122580647	NOTEST	0.134141	0.420848
Plekhg4	chr8:105375380-105413487	NOTEST	0.135534	0.423313
Rad54l	chr4:116075464-116123690	NOTEST	0.149798	0.467569
Klk9	chr7:43791890-43796756	NOTEST	0.0270652	0.0844196
2010003K11Rik	chr19:4496787-4498583	NOTEST	0.125781	0.391986
Kcnj6	chr16:94748682-94997696	OK	0.674143	2.10084
Mcoln2	chr3:146149832-146195512	NOTEST	0.0987469	0.307356
C230029M16	chr10:118920380-118927143	NOTEST	0.0249122	0.0775172
Rag1	chr2:101638251-101649532	NOTEST	0.0744439	0.231488
Rdh18-ps	chr10:127824215-127846565	NOTEST	0.0254941	0.0792499
Gm7102	chr19:61174685-61176309	NOTEST	0.0363355	0.112926
Snurf	chr7:59982500-60140219	OK	19.1497	59.5016
H2-Q7,H2-Q9	chr17:35439154-35443773	OK	0.60352	1.87201
Gm19619	chr5:91257570-91283076	NOTEST	0.0335167	0.103924
2810008D09Rik	chr11:117076782-117078955	OK	7.18133	22.2027
Ctrl	chr8:105931993-105933862	NOTEST	0.238767	0.737873
Insm1	chr2:146221996-146225018	OK	3.41746	10.5448
Ccdc18	chr5:108132913-108232949	NOTEST	0.0976845	0.300915
Ncaph	chr2:127103809-127133954	OK	0.426932	1.31357
Scin	chr12:40059770-40134228	OK	4.54131	13.9631
Cdk3-ps	chr11:116216001-116220287	NOTEST	0.117446	0.361048
Ccdc147	chr19:47937711-48035379	NOTEST	0.18491	0.5682
Grin2c	chr11:115249168-115267243	NOTEST	0.2071	0.635571
Klf5	chr14:99298690-99313409	OK	14.1979	43.5496
Fgg	chr3:83007895-83015049	OK	0.639573	1.96055
Foxl2os	chr9:98949154-98955310	NOTEST	0.0194389	0.0595696
Nlrp12	chr7:3221509-3249740	NOTEST	0.083256	0.254756
BC089491	chr7:28284651-28291134	NOTEST	0.29604	0.90442
Kcnk7	chr19:5704475-5707101	NOTEST	0.114194	0.348701
Lrrc36	chr8:105413621-105464086	NOTEST	0.178118	0.543361
Gm3696	chr14:7083024-7105457	NOTEST	0.0365489	0.11146
Mxd3	chr13:55322054-55329730	OK	0.261751	0.797098
Slc5a11	chr7:123214865-123273251	OK	0.591262	1.79935

5031426D15Rik	chr2:6539698-7396198	NOTEST	0.0263719	0.0801674
Nppb	chr4:147985787-147987205	OK	11.5426	34.9622
Ddx26b	chrX:56454838-56507843	OK	4.37415	13.2397
Fgf23	chr6:127072901-127082296	NOTEST	0.0973722	0.294601
Ubl4b	chr3:107553697-107555073	NOTEST	0.0164681	0.0498196
Adam8	chr7:139978937-139992509	OK	2.11102	6.38586
Nlrc3	chr16:3946932-3976632	NOTEST	0.0877194	0.265306
Ly86	chr13:37345344-37419036	OK	58.9898	178.365
Gm16998	chr10:54075921-54081081	NOTEST	0.0188286	0.0568517
Rnf112	chr11:61448416-61453992	OK	45.0243	135.9
Plaur	chr7:24462499-24475873	OK	3.06948	9.23192
Mslnl	chr17:25736039-25748330	NOTEST	0.0613453	0.184269
Ovgp1	chr3:105973801-105987423	OK	0.346111	1.03883
0610040F04Rik	chr6:108577035-108666925	NOTEST	0.0118704	0.0356197
Ulbp1	chr10:7444872-7473477	NOTEST	0.08835	0.264933
Smyd1	chr6:71213939-71262281	OK	1.09813	3.28885
Foxe3	chr4:114925146-114926013	NOTEST	0.0292539	0.0875913
Murc	chr4:48663513-48673492	NOTEST	0.0949679	0.284308
Tmem158	chr9:123259056-123260789	OK	51.1339	152.882
Ada	chr2:163726570-163750239	OK	1.66099	4.96515
Wfdc5	chr2:164176324-164182742	NOTEST	0.0642909	0.192158
Sectm1b	chr11:121053422-121063569	OK	0.498768	1.48974
Gcnt1	chr19:17326140-17372844	OK	0.422423	1.26159
Rtp2	chr16:23925547-23930794	NOTEST	0.024063	0.0718155
Ldhal6b	chr17:5410863-5440260	NOTEST	0.0699844	0.208841
Sh2d2a	chr3:87846754-87855722	NOTEST	0.0155607	0.0464102
Celf3	chr3:94478294-94492198	OK	4.51423	13.4408
1700023L04Rik	chr6:29985328-29993531	OK	0.27397	0.815524
Smim5	chr11:115892594-115933492	OK	5.47549	16.2571
Dnase1l2	chr17:24440767-24443101	OK	0.365634	1.08512
Spn	chr7:127132231-127137823	OK	0.272044	0.807257
Slc5a4a	chr10:76147450-76189265	NOTEST	0.0272096	0.0807202
Gm10494	chr17:79506048-79510486	NOTEST	0.0161805	0.0479969
Eid3	chr10:82833950-82897724	NOTEST	0.0467968	0.138763
2010016I18Rik	chr3:106481985-106547761	NOTEST	0.0380159	0.112678
1700011L22Rik	chr8:79210429-79248583	OK	1.18807	3.51613
Irs3	chr5:137643031-137645714	OK	0.916665	2.71156
A630023A22Rik	chr14:34051129-34102754	NOTEST	0.125305	0.370373
AI504432	chr3:107039503-107054322	OK	0.844824	2.49635
Ppl	chr16:5086290-5132481	OK	0.370966	1.09492
Nuf2	chr1:169497933-169531464	OK	0.566677	1.67052
Gm14378	chr8:4248213-4251423	NOTEST	0.279423	0.822352
Fam167a	chr14:63436393-63465502	OK	2.31177	6.79963
Nmu	chr5:76183879-76469519	NOTEST	0.14015	0.41218
Bspry	chr4:62480066-62497298	NOTEST	0.0683168	0.20089
Phtf1os	chr3:103914119-104007491	NOTEST	0.164785	0.484513
Gm5886	chr6:133763998-133767403	NOTEST	0.206083	0.603734
H2-Q6,H2-Q8	chr17:35424846-35428361	LOWDAT	0.447323	1.31006
Nptxr	chr15:79786350-79834333	OK	20.273	59.214
AI661453	chr17:47412733-47470638	NOTEST	0.180392	0.526429
1500017E21Rik	chr19:36554638-36689479	NOTEST	0.0427559	0.124762
Mrgpra9	chr7:47234918-47252848	OK	0.449589	1.30919
Lmtk3	chr7:45783946-45804142	OK	1.25379	3.64816

Dnase1l3	chr14:7965189-7994182	OK	4.15721	12.0824
Cpn1	chr19:43956307-43986520	OK	2.41052	7.00292
Casp1	chr9:5298516-5307281	OK	3.56451	10.3536
Rgs8	chr1:153653036-153697665	OK	12.7367	36.9804
Tnfrsf13b	chr11:61140834-61147642	NOTEST	0.166862	0.484308
Ckap2	chr8:22168151-22185819	OK	0.626485	1.81821
Ppp1r32	chr19:10474256-10482897	NOTEST	0.043483	0.12619
F420014N23Rik	chr10:127190377-127211622	NOTEST	0.0536863	0.155537
Gas5	chr1:161035165-161038537	OK	5.47199	15.8505
Bub1b	chr2:118598210-118641592	OK	1.12937	3.27016
Ifrd2	chr9:107587717-107593038	OK	1.76227	5.10185
Gm5803	chr15:22713819-22714984	NOTEST	0.089371	0.258476
Cabp5	chr7:13398154-13408878	NOTEST	0.0235946	0.0681953
Dkk1	chr7:45207524-45211883	OK	1.03653	2.99205
Lck	chr4:129548343-129573641	OK	0.564132	1.62664
Sell	chr1:164062075-164080785	NOTEST	0.227993	0.656265
Gpr6	chr10:41070492-41071584	NOTEST	0.0820719	0.236196
Zdhhc23	chr16:43969145-43979050	OK	2.51237	7.22064
Npc11	chr11:6211010-6230245	NOTEST	0.0896169	0.2575
Fetub	chr16:22918381-22939768	NOTEST	0.146782	0.421381
Als2cr11	chr1:59050505-59094900	NOTEST	0.0461367	0.132375
Ercc6l	chrX:102142819-102157091	NOTEST	0.109137	0.31306
Clca4	chr3:144822623-144849302	NOTEST	0.122819	0.35105
Knstrn	chr2:118814002-118836212	NOTEST	0.266499	0.760027
Gm609	chr16:45416754-45492969	NOTEST	0.159431	0.454604
9330111N05Rik	chr13:80964073-81079857	NOTEST	0.0303392	0.0864134
Mns1	chr9:72438528-72491959	OK	1.05243	2.9941
Scn2b	chr9:45079182-45135606	OK	19.398	55.1479
Serpina11	chr12:103980242-103989957	OK	1.46376	4.1596
Kcnh6	chr11:106008202-106034064	OK	11.2649	32.0067
Acad10	chr5:121621028-121660510	OK	1.11727	3.17368
Exph5	chr9:53301669-53381158	NOTEST	0.204893	0.581621
Gp1ba	chr11:70639121-70642055	NOTEST	0.00637121	0.0180834
Dfnb59	chr2:76650272-76658554	NOTEST	0.141868	0.402369
Cpne5	chr17:29156520-29237790	OK	0.77759	2.204
Papolb	chr5:142484838-142551098	NOTEST	0.0848793	0.240262
Slc17a9	chr2:180725338-180742278	NOTEST	0.0344534	0.0974511
Igj	chr5:88519808-88527897	NOTEST	0.111724	0.315916
Cd4	chr6:124864692-124888209	NOTEST	0.206645	0.583876
Atp7b	chr8:21994347-22060074	NOTEST	0.115635	0.326546
Kif22	chr7:127027730-127042420	OK	1.18407	3.33883
Slc10a3-ubl4,Ubl4	chrX:74365717-74373349	OK	0.56682	1.59721
C130060C02Rik	chr19:15985074-16010912	NOTEST	0.0551696	0.15545
Pax8	chr2:24420550-24475599	OK	0.390466	1.09746
Patl2	chr2:122120107-122186189	NOTEST	0.210537	0.591265
Cdc25b	chr2:131127411-131604824	OK	2.62652	7.36692
Adat3	chr10:80602879-80615783	OK	0.73733	2.06706
1700024P16Rik	chr4:104913455-105016863	OK	0.435201	1.21873
Cd244	chr1:171559192-171585316	NOTEST	0.0391853	0.109596
Stx3	chr19:11775117-11819403	OK	2.72897	7.62657
D7Erttd715e	chr7:59969576-59974431	OK	14.8775	41.5111
Ankrd37	chr8:45975527-45999850	OK	1.45097	4.04545
Efcab3	chr11:105092218-105117537	NOTEST	0.0425204	0.118441

Lin28b	chr10:45376618-45470201	OK	0.535819	1.49244
Tmem221	chr8:71554302-71558871	OK	0.423294	1.17803
Figl1	chr11:11800287-11808962	OK	0.514336	1.43109
Myo1a	chr10:127705255-127720940	OK	10.8712	30.2437
Cyp4f39	chr17:32452722-32493320	OK	6.78942	18.8514
Nxpe5	chr5:138225903-138251875	OK	0.424424	1.17803
1700034F02Rik	chr11:29545841-29578352	NOTEST	0.00825448	0.0228678
Rarres1	chr3:67478885-67515523	OK	34.6985	96.0882
Tpx2	chr2:152847963-152895321	OK	0.879977	2.43656
Mroh6	chr15:75882933-75888723	NOTEST	0.0114953	0.0318274
Tbx21	chr11:97098006-97115331	NOTEST	0.07351	0.20339
Ccdc150	chr1:54250682-54368727	NOTEST	0.033001	0.0912642
Ppp1r1a	chr15:103530278-103537992	OK	21.8334	60.3361
Paqr5	chr9:61953737-62026790	OK	11.8149	32.6304
4933406C10Rik	chr12:32919383-32953789	NOTEST	0.0622322	0.171733
Zfp831	chr2:174643533-174710830	NOTEST	0.00568454	0.015679
Fbxo5	chr10:5799157-5805465	OK	0.868858	2.38003
Btk	chrX:134542340-134583140	NOTEST	0.182625	0.499472
Cysltr2	chr14:73029127-73049114	OK	4.93942	13.5079
Rhcg	chr7:79593362-79617657	NOTEST	0.0176498	0.0481805
9330175M20Rik	chr1:51218385-51333779	NOTEST	0.0717462	0.195556
Pask	chr1:93309436-93342788	OK	0.421014	1.14718
Gm19424	chr19:41746960-41750097	NOTEST	0.142887	0.389327
Lpar5	chr6:125067919-125082472	OK	8.18619	22.2504
Osmr	chr15:6813576-6874313	OK	10.5765	28.7426
Gzmm	chr10:79689019-79695260	NOTEST	0.191509	0.520145
Rasgrp1	chr2:117279992-117342877	OK	50.6337	137.336
Rnf223	chr4:156132169-156133419	NOTEST	0.081178	0.220157
Dynlt1a	chr17:6270469-6317474	OK	0.298852	0.809722
Tmem86b	chr7:4628039-4630482	OK	1.15599	3.13094
Nxph3	chr11:95509845-95514565	OK	5.79728	15.6915
Tmc8	chr11:117782296-117793137	OK	0.34343	0.929422
Gm10560	chr4:156021644-156023824	OK	1.12557	3.04175
Il18rap	chr1:40515361-40551705	NOTEST	0.0764731	0.20647
Kcnk12	chr17:87745820-87797994	OK	7.44636	20.0779
Hrh2	chr13:54192128-54222432	OK	0.731512	1.97224
Zfpm1	chr8:122282140-122337247	OK	2.21234	5.9598
Setd4	chr16:93583460-93603815	OK	0.58571	1.57733
Lrrn4	chr2:132868515-132880862	OK	0.96967	2.61018
Fam124b	chr1:80198698-80213944	NOTEST	0.0528042	0.142013
Serpina1e	chr12:103946931-103956897	OK	1.10543	2.96651
Celf6	chr9:59578336-59607292	OK	19.8591	53.2602
Tbc1d2	chr4:46604389-46650199	OK	0.426011	1.14128
Adam1a	chr5:121518603-121521695	OK	1.3993	3.74303
Sh2d1a	chrX:42502607-42522075	NOTEST	0.0262147	0.0700874
Avpr1a	chr10:122448498-122453453	OK	0.397698	1.05919
Oas1a	chr5:120896256-120907525	OK	0.572428	1.51787
1700019N19Rik	chr19:58785802-58794414	NOTEST	0.0476723	0.126349
Fam117a	chr11:95337017-95381872	OK	2.77542	7.34463
Capn9	chr8:124576110-124618731	OK	2.78996	7.38192
Rspo4	chr2:151842926-151874668	OK	1.97533	5.22009
2810442I21Rik	chr11:16934708-16951282	NOTEST	0.0892046	0.235664
T2	chr17:8372395-8422726	OK	0.831402	2.19496

Gm9920	chr15:55099916-55259273	NOTEST	0.0924746	0.243998
Ptafr	chr4:132564066-132580866	OK	0.708301	1.8683
Slc9b2	chr3:135307699-135342767	OK	0.627987	1.65533
Proc	chr18:32123125-32139570	NOTEST	0.0628642	0.1657
4933405D12Rik	chr3:122882591-122924116	NOTEST	0.091561	0.241126
Hist1h1d	chr13:23555031-23555807	OK	0.513513	1.35204
Gm8909	chr17:36164443-36168537	NOTEST	0.0474222	0.124734
Gm4759	chr7:106421549-106441073	NOTEST	0.0423378	0.111138
Pthr1	chr2:32775820-32784405	OK	12.4205	32.5967
Saa2	chr7:46751832-46754314	NOTEST	0.0424134	0.11123
Atp4a	chr7:30712208-30725534	NOTEST	0.0258499	0.0676288
2510049J12Rik	chr6:115583546-115592576	NOTEST	0.0142541	0.0372868
Gm13498	chr2:50909683-50911846	OK	2.56652	6.71282
Smpd5	chr15:76294433-76307245	OK	0.696273	1.81997
A430093F15Rik	chr19:10740946-10786043	NOTEST	0.0348375	0.0910478
Obscn	chr11:58994255-59136375	NOTEST	0.0662541	0.172904
1700003M02Rik	chr4:34711331-34730206	OK	3.44232	8.98301
Arhgap33	chr7:30522225-30535060	OK	3.11078	8.1175
1700020D05Rik	chr19:5495277-5510489	NOTEST	0.106684	0.278194
Kifc5b	chr17:26917090-26932579	OK	0.440917	1.1478
Ctnx3	chr18:57468485-57478134	OK	48.4221	125.877
Ppp1r2-ps3	chr19:30538875-30539679	OK	2.78031	7.22249
AB041803	chr6:31093562-31218474	NOTEST	0.266483	0.691975
E030030I06Rik	chr10:22113049-22149270	NOTEST	0.0497549	0.129029
Gfra2	chr14:70890129-70979838	OK	68.3953	177.267
A3galt2	chr4:128759257-128769298	OK	17.2829	44.7644
Aspg	chr12:112106682-112127573	NOTEST	0.0199669	0.0516743
Fsip1	chr2:118204887-118256966	NOTEST	0.18632	0.481822
Zfp296	chr7:19577286-19580656	OK	0.443336	1.1456
Hist2h4	chr3:96262933-96263317	NOTEST	0.37639	0.972046
Gpr35	chr1:92973118-92986391	OK	8.8864	22.9123
Rgs10	chr7:128373624-128418172	OK	137.501	354.443
Fut2	chr7:45648590-45666394	NOTEST	0.0935123	0.240991
Olfir570	chr7:102900368-102901307	NOTEST	0.023412	0.060291
Spc24	chr9:21755441-21760286	OK	0.573153	1.47596
Lxn	chr3:67430114-67475068	OK	184.94	476.185
Qrfpr	chr3:36179425-36222275	NOTEST	0.181904	0.468349
Mak	chr13:41025119-41079706	NOTEST	0.0325167	0.0836917
Acpp	chr9:104288239-104337722	OK	131.722	338.437
1700003F12Rik	chr2:154544404-154558853	NOTEST	0.0710764	0.182389
Atp13a4	chr16:29396037-29544864	NOTEST	0.0957505	0.245001
Barhl2	chr5:106452522-106458166	NOTEST	0.0329901	0.0843201
Card14	chr11:119314786-119355510	OK	1.24613	3.1744
Ttc22	chr4:106622448-106640187	OK	0.453345	1.15442
Cmtm8	chr9:114789344-114844152	OK	2.31264	5.88826
Ms4a3	chr19:11629496-11640834	OK	5.0909	12.9377
Wfdc3	chr2:164731225-164743267	NOTEST	0.321436	0.816812
Tmem150b	chr7:4690927-4725251	OK	0.526226	1.337
9530091C08Rik	chr9:68653785-69388246	NOTEST	0.00221162	0.00561443
Cd5	chr19:10718142-10738974	NOTEST	0.0585539	0.148534
Arx	chrX:93286645-93298355	NOTEST	0.00680974	0.0172452
Gm11549	chr3:36515056-36521445	OK	3.66638	9.28461
Ldb2	chr5:44472132-44799746	OK	47.2482	119.582

Otog	chr7:46240986-46311434	NOTEST	0.00348332	0.00881551
AA465934	chr11:83291698-83298977	NOTEST	0.32169	0.814025
Uba1y	chrY:818712-844224	NOTEST	0.116176	0.293943
Pnpla3	chr15:84167815-84189521	OK	3.99589	10.0945
Nrn1l	chr8:105893569-105895015	OK	18.4387	46.5793
1700034P13Rik	chr1:9723195-9771256	NOTEST	0.0265693	0.0670916
Esyt3	chr9:99309966-99358530	OK	1.13978	2.87138
Bag2	chr1:33745483-33757750	OK	11.2876	28.4295
Nt5e	chr9:88327608-88372089	OK	16.3601	41.2015
Ptger2	chr14:44988110-45003820	OK	0.428315	1.07798
Melk	chr4:44300916-44364675	NOTEST	0.193802	0.487286
P2ry1	chr3:61002784-61008982	OK	22.9793	57.7654
Ms4a2	chr19:11615520-11623719	NOTEST	0.224797	0.564963
Gm1661	chr4:117213332-117251917	NOTEST	0.208215	0.523229
Fndc9	chr11:46193848-46589232	NOTEST	0.00886964	0.0222704
Irx5	chr8:92357795-92361456	NOTEST	0.031675	0.0794793
Tslp	chr18:32663641-32866420	NOTEST	0.0389953	0.097845
Wdr27	chr17:14818671-14943124	NOTEST	0.0678915	0.170207
Btnl1	chr17:34377131-34386028	NOTEST	0.0751904	0.188419
Trim14	chr4:46505071-46536141	OK	3.15203	7.8985
Tmprss3	chr17:31179267-31198974	NOTEST	0.00635473	0.0159166
Mrgpra1	chr7:47334874-47354240	OK	0.490179	1.2275
Bbc3	chr7:16309582-16318334	OK	2.62663	6.57248
Hist1h2bn	chr13:21754122-21754553	NOTEST	0.237969	0.594771
Insm2	chr12:55598916-55602017	OK	6.3283	15.813
Isg15	chr4:156199423-156200818	OK	7.47716	18.6832
Pkp3	chr7:141078228-141090510	OK	0.769076	1.92128
Gdf2	chr14:33941038-33947198	NOTEST	0.0130653	0.0326143
Rad54b	chr4:11558919-11615808	NOTEST	0.118332	0.295068
Troap	chr15:99074972-99083409	NOTEST	0.0714732	0.17805
Kntc1	chr5:123749725-123821593	OK	0.944889	2.35265
Lor	chr3:92080270-92083142	NOTEST	0.144185	0.358922
Nnat	chr2:157556361-157566361	OK	13.8098	34.3594
Mss51	chr14:20482863-20496901	NOTEST	0.080989	0.201471
Dffb	chr4:153964448-153975081	OK	0.784644	1.94947
Rsrp1	chr4:134923624-134927370	OK	75.0788	186.398
Nptx2	chr5:144545886-144557478	OK	45.6728	113.352
Rasa4	chr5:136083915-136111861	OK	7.09664	17.5833
Gnb3	chr6:124834239-124840275	OK	0.968905	2.40041
Eaf2	chr16:36792883-36874826	NOTEST	0.107442	0.266145
Cntd1	chr11:101279202-101302267	NOTEST	0.179723	0.444949
Irx6	chr8:92674401-92680080	NOTEST	0.1262	0.312406
E230016M11Rik	chr6:67035095-67080652	OK	0.468474	1.15947
Efcab7	chr4:99829499-99912783	OK	0.854679	2.1134
Pla2g2d	chr4:138775734-138782143	NOTEST	0.0989037	0.244454
Slc6a4	chr11:76998596-77032343	NOTEST	0.0981696	0.242614
Adam5	chr8:24727092-24824369	OK	0.601024	1.48486
Fanci	chr7:79392337-79466273	NOTEST	0.0694285	0.171332
Cckar	chr5:53698484-53707704	OK	11.4473	28.2087
Dnd1	chr18:36760238-36766214	NOTEST	0.178049	0.438555
Runx1	chr16:92601465-92826074	OK	19.5781	48.1965
Hist1h2ac	chr13:23683472-23683959	NOTEST	0.0607993	0.149668
Oscar	chr7:3609814-3616157	NOTEST	0.214099	0.527007

Car8	chr4:8141492-8239041	OK	4.48229	11.0306
Apoa2	chr1:171225053-171226379	OK	0.590359	1.45262
Lmod3	chr6:97238527-97252780	NOTEST	0.0173599	0.0426986
Figf	chrX:164373547-164402647	OK	0.853517	2.0986
Pate2	chr9:35669638-35672889	NOTEST	0.0512469	0.125844
Dok1	chr6:83030935-83033471	OK	6.42803	15.7749
Cenpk	chr13:104205121-104249622	OK	0.716076	1.75701
Dusp26	chr8:31089661-31097047	OK	92.656	227.328
Mms22l	chr4:24496461-24602948	NOTEST	0.242418	0.594628
6720483E21Rik	chr1:20888649-20890473	NOTEST	0.114803	0.281231
Rnpc3	chr3:113605066-113630149	OK	4.75545	11.6329
Gm9962	chr7:57387271-57510009	NOTEST	0.0291638	0.0713392
9530053A07Rik	chr7:28129465-28164811	OK	0.325732	0.795881
Adam4	chr12:81419548-81421878	NOTEST	0.0347465	0.0848058
Lrrc39	chr3:116562972-116630986	NOTEST	0.0758977	0.185082
Mcm7	chr5:138164588-138171862	OK	1.16194	2.83319
Ccnb3	chrX:6979651-7041619	NOTEST	0.00369715	0.00899494
Syt5	chr7:4539764-4546567	OK	33.5326	81.4237
Col20a1	chr2:180986534-181017540	NOTEST	0.0951896	0.231136
4933432I09Rik	chr16:18209685-18213863	NOTEST	0.196227	0.476267
Fendrr	chr8:121054881-121083032	NOTEST	0.0812099	0.196932
Msantd2	chr9:37489320-37524150	OK	2.10882	5.11001
Mal2	chr15:54571365-54602846	OK	89.8087	217.472
Oas1b	chr5:120812634-120824160	OK	0.697219	1.68767
AI450353	chr11:83291698-83298977	NOTEST	0.34521	0.834835
Sox11	chr12:27334267-27342718	OK	2.29673	5.55328
A230056P14Rik	chr7:55962530-56019573	OK	0.783233	1.89333
Carhsp1	chr16:8658586-8672153	OK	38.8019	93.7669
Gadl1	chr9:115909454-116076176	OK	2.06023	4.978
Recq14	chr15:76701541-76710559	OK	0.472468	1.14154
Lrrc69	chr4:14665753-14796052	NOTEST	0.0160081	0.0386484
Ankrd2	chr19:42036037-42045110	NOTEST	0.0610612	0.147365
Nol4	chr18:22693154-23041653	OK	1.51917	3.66621
Dok2	chr14:70774380-70778494	NOTEST	0.327504	0.789521
Marveld2	chr13:100595956-100616971	OK	0.900917	2.17088
Ptcra	chr17:46755662-46763712	NOTEST	0.0845577	0.203698
Galnt3	chr2:66082765-66124793	OK	1.59467	3.84135
Reg4	chr3:98222155-98236748	NOTEST	0.0197193	0.0474986
Pou4f2	chr8:78433008-78436652	OK	7.57354	18.2333
4930447C04Rik	chr12:72881108-72917765	OK	0.969441	2.33364
Sst	chr16:23889580-23890844	OK	15.8063	38.0425
Il1b	chr2:129364579-129375733	OK	0.506692	1.21938
Pomc	chr12:3954944-3960643	OK	0.634829	1.52759
Stxbp2	chr8:3631159-3643644	OK	1.45739	3.50428
Hist3h2bb-ps	chr11:58954047-58954512	NOTEST	0.338128	0.812513
Grm2	chr9:106644533-106656109	NOTEST	0.0388699	0.0933552
AI839979	chr5:31569591-31571397	NOTEST	0.268149	0.64401
Fndc3c1	chrX:106420042-106485229	NOTEST	0.00394758	0.00946373
Gm6225	chr18:3266353-3366863	NOTEST	0.0222551	0.053353
Smc2	chr4:52439248-52488259	OK	1.68685	4.04227
Pdlim1	chr19:40222238-40271616	OK	6.50473	15.5801
Mir17hg	chr14:115044304-115046728	NOTEST	0.233342	0.558836
Nbl1	chr4:139082291-139092970	OK	90.5025	216.711

Ngfrap1	chrX:136270252-136271978	OK	124.467	297.984
Ass1	chr2:31470269-31520670	OK	5.05376	12.0911
Gpx2	chr12:76792334-76795554	OK	2.10114	5.0265
9230116N13Rik	chr1:136411915-136440220	NOTEST	0.111543	0.266526
Tmem207	chr16:26503792-26526771	NOTEST	0.013626	0.0325461
Gm14391	chr2:175869237-175988574	NOTEST	0.1394	0.332927
Wnt9b	chr11:103727362-103749821	NOTEST	0.00398432	0.00950157
Zbtb32	chr7:30589680-30592942	NOTEST	0.020489	0.0488072
Prr11	chr11:86583864-87555823	OK	0.422881	1.00618
Dgkz	chr2:91932821-91963563	OK	161.227	383.569
Kcng2	chr18:80294543-80364254	OK	4.65535	11.0753
Firre	chrX:50555743-50635258	OK	5.76584	13.7161
Grik1	chr16:87895896-88290258	OK	85.2794	202.837
Kcnip2	chr19:45792345-45816063	OK	54.5379	129.711
Bnc1	chr7:81966661-81992299	NOTEST	0.329767	0.783795
Rps17	chr7:81342732-81345234	OK	7.47309	17.7607
Ccr3	chr9:124021970-124031689	NOTEST	0.0160848	0.0382177
Zfp40	chr17:23173868-23193228	OK	5.62862	13.3714
Gm16702	chr17:8372395-8422726	OK	3.31534	7.87118
Bhlhe23	chr2:180774380-180776900	NOTEST	0.0213177	0.0505988
Pax2	chr19:44757393-44837869	OK	0.434894	1.032
Artn	chr4:117926159-117929763	NOTEST	0.0864633	0.205139
Rpl37	chr15:5116612-5119140	OK	0.761993	1.80744
AW112010	chr19:11047611-11050566	OK	1.48961	3.52989
Hoxd4	chr2:74710043-74748271	OK	1.35756	3.21688
Anks6	chr4:47015688-47057306	OK	1.87075	4.42884
0610040B10Rik	chr5:143329307-143332704	OK	1.1839	2.80041
Phf11a	chr14:59276912-59297522	NOTEST	0.105351	0.249113
Arid3a	chr10:79697304-80369637	OK	1.54369	3.64926
Arglu1	chr8:8666575-8690537	OK	18.9163	44.6715
Baat	chr4:49489417-49506558	NOTEST	0.0406035	0.0957485
Rnf138rt1	chrX:163760138-163761332	NOTEST	0.14322	0.337617
Chek1	chr9:36708481-36726658	OK	0.432508	1.01857
Rad51ap1	chr6:126923418-126939555	OK	0.538617	1.26793
Zbtb48	chr4:152019775-152027671	OK	2.24282	5.27835
Ptprcap	chr19:4154645-4156710	NOTEST	0.346128	0.814334
Atf5	chr7:44812255-44849079	OK	32.3517	75.8435
Synpr	chr14:13284779-13615469	OK	145.602	341.308
Gpr162	chr6:124858444-124863917	OK	10.1986	23.9063
Rps26	chr10:128624528-128626506	OK	20.3079	47.6016
4930511M06Rik	chr18:57533825-57731065	NOTEST	0.0473286	0.110932
Il12rb2	chr6:67292017-67376137	NOTEST	0.00586453	0.0137449
Celf5	chr10:81459227-81482709	OK	1.49541	3.5044
1810020O05Rik	chr6:87675592-87690847	OK	0.562171	1.31734
Leng8	chr7:4137055-4148173	OK	8.73878	20.4569
Mst1r	chr9:107906888-107920383	OK	2.3233	5.43661
Prkcd	chr14:30595353-30626208	OK	119.971	280.535
Isl2	chr9:55541148-55546178	OK	81.7221	190.99
Cct6b	chr11:82719247-82764321	OK	0.536505	1.25384
Tk1	chr11:117815518-117839908	OK	0.813461	1.89868
Tmsb15b2	chrX:136954987-136976874	OK	3.65562	8.532
Tmem45b	chr9:31426195-31464238	OK	109.094	254.443
Slc10a6	chr5:103605710-103629403	OK	3.81745	8.89477

Syt7	chr19:10389089-10453181	OK	45.1442	105.048
Sectm1a	chr11:121067402-121081139	NOTEST	0.0372614	0.0866816
Atp6v1c2	chr12:17266594-17324730	OK	0.699755	1.6267
Socs2	chr10:95411489-95416857	OK	15.5128	36.0513
Plxnc1	chr10:94790865-94944578	OK	59.4887	138.2
Dgki	chr6:36846021-37299976	OK	28.7491	66.759
Arntl2	chr6:146805529-146833529	OK	1.07242	2.4853
Gm527	chr12:64917910-64924591	OK	5.7805	13.3832
Mnd1-ps	chr14:9550093-11162032	NOTEST	0.177922	0.411582
Fam122b	chrX:53243414-53269805	OK	6.41953	14.8418
Hspa1b	chr17:34956428-34959238	OK	7.25762	16.7635
Mroh2b	chr15:4898736-4962201	OK	0.369026	0.851818
Ypel1	chr16:17070138-17111252	OK	2.79554	6.45239
Adamts9	chr6:92772698-92901441	OK	2.30415	5.31534
Slc45a3	chr1:131962914-131982972	OK	10.3901	23.9633
Ssh3	chr19:4261668-4269172	OK	4.71871	10.8794
Gpr179	chr11:97332108-97352073	OK	0.801764	1.84786
Asb17	chr3:153844246-153853615	NOTEST	0.0444486	0.102411
AI182371	chr2:35081860-35100685	NOTEST	0.0595432	0.137163
Ccnf	chr17:24223231-24251409	OK	0.557261	1.28313
Snora28	chr12:111538100-111546753	OK	21.1351	48.6556
Parvg	chr15:84324719-84342978	NOTEST	0.200726	0.461273
Vsig2	chr9:37539254-37544205	NOTEST	0.378961	0.870476
Ptgdr	chr14:44851234-44859375	OK	17.4054	39.9455
Snhg7	chr2:26637175-26640244	OK	2.69981	6.19551
Pbld1	chr10:63061616-63077536	NOTEST	0.0388517	0.0891489
Fam222a	chr5:114568250-114613218	OK	3.33616	7.64935
Gna14	chr19:16435666-16610818	OK	33.7869	77.4094
Ccdc106	chr7:5056151-5060784	OK	2.09559	4.79841
Cldn23	chr8:35824708-35826559	NOTEST	0.0527935	0.120817
Gm2694	chr8:87472811-87525554	OK	0.660911	1.5093
Far2	chr6:148047415-148444352	OK	2.72214	6.21646
Trpc3	chr3:36620481-36690167	OK	36.0726	82.3544
Rnf207	chr4:152297213-152318625	OK	1.01733	2.32187
Serinc2	chr4:130253496-130275586	OK	15.0028	34.229
Gpr160	chr3:30855949-30897194	OK	1.82919	4.16929
Gm9895	chr19:29067300-29069503	NOTEST	0.430573	0.98099
2700038G22Rik	chr5:23787743-24161231	NOTEST	0.136561	0.310715
Foxp3	chrX:7558561-7605420	NOTEST	0.00492933	0.0112083
Slc37a1	chr17:31295482-31350698	OK	6.56055	14.9124
Rfx2	chr17:56775896-56831008	NOTEST	0.281945	0.640718
Ttc29	chr8:78213341-78394326	OK	0.69368	1.57626
Samd14	chr11:95009878-95026087	OK	57.6525	130.988
Slc6a5	chr7:49910298-49959493	NOTEST	0.00759599	0.0172575
Kif20b	chr19:34922357-34975731	NOTEST	0.293247	0.666051
C030034I22Rik	chr17:69416446-69419192	OK	0.43681	0.99193
Gm4262	chr16:11008897-11015184	NOTEST	0.0193223	0.0438427
Grhl1	chr12:24572286-24617391	NOTEST	0.248395	0.563256
Luc7l3	chr11:94291138-94321911	OK	17.4366	39.5349
Spata25	chr2:164827381-164828534	NOTEST	0.0278496	0.0631177
Dbf4	chr5:8396968-8422716	OK	0.580265	1.31477
4930413F20Rik	chr15:34572798-34679204	NOTEST	0.018058	0.0408573
Fam179a	chr17:71673260-71729669	OK	1.17159	2.64921

Klk4	chr7:43881171-43885804	NOTEST	0.0333058	0.0752927
Ccno	chr13:112987801-112990778	NOTEST	0.173734	0.392597
N4bp2l1	chr5:150571642-150594525	OK	4.54131	10.2614
BC006965	chr11:112663926-112711356	NOTEST	0.0092061	0.0207976
Apol7a	chr15:77388216-77399110	NOTEST	0.00770406	0.0174018
Aoc1	chr6:48895254-48909187	NOTEST	0.00651248	0.0147101
Nog	chr11:89300637-89302559	OK	2.94987	6.66094
Rpl9	chr5:65388363-65391431	NOTEST	0.107007	0.241607
Snhg5	chr9:88521052-88522897	OK	4.4266	9.99172
D5Erttd605e	chr5:147418619-147423044	NOTEST	0.0200526	0.0452507
Wbp5	chrX:136245079-136247139	OK	51.7891	116.818
Txn1	chr4:57943372-57956411	OK	306.98	692.156
Cyp4b1	chr4:115624727-115647705	OK	0.954019	2.15038
Rpl28	chr7:4792964-4794547	OK	1.18254	2.66489
Myom2	chr8:15057652-15133419	NOTEST	0.0929623	0.209389
Zfp521	chr18:13687013-13972733	OK	8.80978	19.8338
Slc38a8	chr8:119479602-119501698	OK	0.429212	0.966263
Kcni4	chr5:48389502-49285659	OK	87.0295	195.867
2700099C18Rik	chr17:94750099-94834799	NOTEST	0.247139	0.555733
Tnfrsf9	chr4:150920154-150946102	NOTEST	0.0662946	0.148834
Stom	chr2:35313989-35337009	OK	12.2939	27.5976
Mzb1	chr18:35647264-35649367	NOTEST	0.0980406	0.220072
Slc16a12	chr19:34668405-34747111	OK	5.98954	13.4435
Tnr	chr1:159523768-159924922	OK	2.80068	6.27876
Rgs4	chr1:169741476-169747642	OK	464.407	1041.02
Iqgap3	chr3:88082050-88121048	OK	1.33967	3.00173
Ccdc88c	chr12:100912699-101028983	NOTEST	0.288005	0.644756
Cyp2j12	chr4:96099317-96141152	OK	4.24458	9.50122
Pkmyt1	chr17:23726335-23740330	OK	3.27464	7.32691
Actl9	chr17:33432898-33434267	NOTEST	0.062533	0.139756
Tlx3	chr11:33200751-33203588	OK	38.5865	86.1592
Atg16l2	chr7:101289615-101302088	OK	2.3425	5.23037
5830454E08Rik	chr9:120577330-120578073	OK	0.593118	1.32418
Ccdc171	chr4:83525544-83864670	OK	0.849986	1.89522
Myt1	chr2:181763331-181827775	OK	15.019	33.4874
Tubb2b	chr13:34127007-34130354	OK	164.977	367.79
Plcl2	chr17:50509546-50688494	OK	4.73354	10.5475
Gabrb1	chr5:71700015-72137244	OK	0.969031	2.15792
Ces2g	chr8:104961717-104969537	OK	0.886945	1.97509
Gimap7	chr6:48718620-48724636	NOTEST	0.0323043	0.0718821
Plekha5	chr6:140424098-140594906	OK	6.34873	14.1264
Cdk15	chr1:59256906-59352369	OK	23.266	51.7423
Hyls1	chr9:35559465-35570069	OK	3.45701	7.68484
Gabrq	chrX:72825177-72842602	NOTEST	0.032565	0.0723487
Nkain1	chr4:130530130-130574036	OK	5.79097	12.8652
Tyms-ps	chr10:87966670-87968017	NOTEST	0.123986	0.275309
C7	chr15:4988761-5063773	NOTEST	0.249904	0.554161
Rgs14	chr13:55369731-55384687	OK	1.99404	4.42146
Dimt1	chr13:106947128-106960224	OK	0.461631	1.02353
Tia1	chr6:86404218-86433405	OK	3.80603	8.42912
Tubb2a-ps2	chr12:11882195-11882899	OK	49.1676	108.887
Grhl3	chr4:135541887-135573620	OK	3.72934	8.25651
Casz1	chr4:148804391-148954892	OK	14.4527	31.9926

Cdt1	chr8:122568014-122573130	OK	0.554214	1.22586
Mef2b	chr8:70152777-70167488	NOTEST	0.0792729	0.175324
Crb1	chr1:139198253-139377076	NOTEST	0.162324	0.358821
Rasgef1a	chr6:118066384-118091546	OK	19.2068	42.4556
Clk4	chr11:51263170-51281764	OK	10.8709	24.0167
4931429I11Rik	chr9:40894848-40964112	OK	6.18992	13.6679
Kcnn1	chr8:70842048-70857008	OK	9.03001	19.9238
Prdm12	chr2:31640036-31655795	OK	64.8452	142.945
Gpr150	chr13:76054850-76056996	OK	0.520957	1.14795
Cd24a	chr10:43579168-43584265	OK	607.077	1337.68
Kcnt1	chr2:25863853-25918273	OK	30.7203	67.6819
Klrd1	chr6:129591810-129598775	NOTEST	0.18936	0.417019
Zfp575	chr7:24583837-24608926	OK	1.18829	2.61577
Malat1	chr19:5795689-5802671	OK	49.1384	108.138
Marveld3	chr8:109947908-109962205	OK	1.22076	2.68548
Tmem233	chr5:116040533-116083246	OK	206.674	454.533
Vstm5	chr9:15239044-15259413	OK	32.9116	72.312
Aff2	chrX:69360330-69868037	OK	2.9213	6.41539
Khdc3	chr9:73102397-73104443	NOTEST	0.0347318	0.0762698
Mmp25	chr17:23629457-23645269	OK	18.018	39.5623
Neurog2	chr3:127633144-127635631	NOTEST	0.018066	0.0396669
Rnasel	chr1:153749425-153764221	OK	4.00174	8.78296
Blvrb	chr7:27447977-27465981	OK	20.0896	44.0895
Gcnt7	chr2:172440577-172469899	OK	0.448287	0.983249
Mcm5	chr8:75109527-75128439	OK	1.39539	3.05764
Gnat2	chr3:108093065-108101430	NOTEST	0.0109471	0.0239849
Col10a1	chr10:34303611-34418528	NOTEST	0.221647	0.485374
9430021M05Rik	chr2:162661162-162675204	OK	6.49662	14.22
Fosl1	chr19:5447697-5457563	NOTEST	0.130689	0.285875
Camk2a	chr18:60925631-60988152	OK	46.25	101.101
Rpp25	chr9:57504101-57505447	OK	1.35097	2.95215
Serpina12	chr12:104028768-104044443	NOTEST	0.0359299	0.0784613
Slc35b3	chr13:38932139-38960875	OK	6.01332	13.1305
1700016K19Rik	chr11:75999911-76003569	NOTEST	0.049504	0.108094
Cspp1	chr1:10038217-10136768	OK	1.89526	4.13697
5730408K05Rik	chr19:8883877-8890759	OK	1.48863	3.24677
Lmnb1	chr18:56707812-56753424	OK	1.94739	4.2447
Trpc6	chr9:8544141-8740988	OK	7.13048	15.5383
Cxcr6	chr9:123789499-123851899	NOTEST	0.0801476	0.174639
Zap70	chr1:36761797-36782820	NOTEST	0.332509	0.724166
Gbx1	chr5:24504425-24526848	OK	0.814436	1.77192
Stamos	chr2:14070332-14073934	NOTEST	0.135264	0.294225
Drc1	chr5:30341662-30366708	OK	1.14572	2.49154
Setd6	chr8:95715912-95719004	OK	5.06273	11.0097
Ttr	chr18:20665249-20674326	NOTEST	0.315221	0.684922
Lyl1	chr8:84701456-84800338	OK	0.677069	1.47115
Gm16386	chr17:22776229-22817747	OK	0.769252	1.6707
Slc4a11	chr2:130684107-130697519	OK	7.3353	15.9202
Gfap	chr11:102887335-102897200	NOTEST	0.194518	0.421962
Slc24a4	chr12:102129418-102266749	OK	0.620617	1.34515
Spdef	chr17:27714446-27728951	NOTEST	0.0748315	0.1621
Chaf1a	chr17:56040415-56068026	OK	1.31044	2.83759
Prpf39	chr12:65036333-65073938	OK	4.84175	10.4832

Dcx	chrX:143855841-143933219	OK	1.33613	2.89285
Fbp1	chr13:62864752-62888282	OK	1.11026	2.40286
Moxd1	chr10:24223516-24302783	OK	14.6084	31.5741
Pla2g4b	chr2:120027482-120043032	NOTEST	0.132506	0.28637
Morc1	chr16:48431236-48630905	NOTEST	0.155775	0.336321
5830403L16Rik	chr1:153849541-153851195	NOTEST	0.283179	0.61066
Slc47a2	chr11:61301630-61342860	OK	2.04522	4.40459
Morn3	chr5:123037126-123046820	NOTEST	0.300032	0.646103
Cpne2	chr8:94533027-94570529	OK	24.5861	52.9124
Gm7694	chr1:170298192-170306332	OK	0.89462	1.92496
Hmga2-ps1	chr1:176814659-177020432	OK	4.68591	10.0755
Actn1	chr12:80167541-80260371	OK	17.404	37.4067
D930016D06Rik	chr5:104525734-104554211	OK	2.31003	4.96431
Hmox1	chr8:75093617-75100593	OK	14.2657	30.6412
Adora2b	chr11:62248983-62266452	OK	1.97068	4.23034
Zfp7	chr15:76879275-76892394	OK	2.13283	4.5766
Uox	chr3:146581372-146631483	NOTEST	0.0110925	0.0237976
Cnih2	chr19:5088537-5098418	OK	8.71718	18.7016
Kcnk13	chr12:99964498-100062682	OK	4.61203	9.89282
Fnbp1l	chr3:122538718-122619714	OK	7.40714	15.8865
Adrb1	chr19:56722371-56724862	OK	0.739183	1.58501
4930429D17Rik	chr5:103230374-103299029	NOTEST	0.0128016	0.0274464
5430440P10Rik	chr14:105427558-105437716	NOTEST	0.0634014	0.135866
Gm3558	chr14:7545150-7568566	NOTEST	0.0916283	0.196102
Fmnl1	chr11:103171137-103198900	OK	24.7759	52.9682
Lamp3	chr16:19653380-19706365	NOTEST	0.141978	0.303435
Scn11a	chr9:119753764-119825456	OK	147.309	314.697
Gm9958	chr5:90366996-90368488	NOTEST	0.350459	0.747905
Psd4	chr2:24385396-24408729	OK	1.27701	2.72471
A230073K19Rik	chr7:59228749-59306727	NOTEST	0.0824118	0.175707
Clec4e	chr6:123281788-123289871	NOTEST	0.0898419	0.191507
Rnf43	chr11:87663086-87735539	NOTEST	0.0478024	0.101878
Ltb	chr17:35194506-35196305	OK	0.485495	1.03407
Sbno2	chr10:79697304-80369637	OK	8.29199	17.6457
A930003O13Rik	chr5:22738910-23275597	OK	0.41231	0.877171
Efna2	chr10:79697304-80369637	OK	1.12038	2.38349
Rtbdn	chr8:84946990-84956603	NOTEST	0.340229	0.723264
4930563E22Rik	chr11:72211723-72218450	OK	0.442097	0.939351
Padi1	chr4:140810992-140845778	NOTEST	0.0763471	0.162196
Ccne2	chr4:11191350-11254259	OK	1.48582	3.15523
Gadd45a	chr6:67035095-67080652	OK	17.9346	38.0728
Eml5	chr12:98746967-98901484	OK	2.02138	4.29105
Kcng3	chr17:83585956-83631895	OK	3.65145	7.74312
Olfir560	chr7:102740720-102759471	NOTEST	0.0232233	0.0492351
Gpr133	chr5:129096749-129204599	OK	1.76725	3.7458
Tiam2	chr17:3326572-3557713	OK	2.25662	4.78037
4930474N09Rik	chr12:99161276-99162808	NOTEST	0.0176988	0.0374789
Il18bp	chr7:102015076-102018155	OK	0.60013	1.27069
Panx3	chr9:37659901-37669222	NOTEST	0.0550955	0.11663
Gm525	chr11:89073840-89093064	OK	3.05454	6.45801
E130309F12Rik	chr4:49059461-49340261	OK	0.451073	0.953621
Best2	chr8:85007202-85014531	NOTEST	0.00973703	0.0205843
LOC100504703	chr10:127070480-127071101	NOTEST	0.720028	1.52214

Clec2e	chr6:129091815-129100903	NOTEST	0.0249005	0.0526274
Pcgf1	chr6:83078389-83080855	OK	9.93021	20.9747
F2	chr2:91625319-91636414	NOTEST	0.0457201	0.096537
Rian	chr12:109603944-109661711	OK	62.5428	132.025
Tmc4	chr7:3645268-3677553	OK	0.614594	1.29731
Gng5	chr3:146499835-146505543	OK	4.16999	8.80139
Brca1	chr11:101488763-101551955	OK	0.523076	1.10395
Ager	chr17:34597849-34600937	NOTEST	0.232853	0.491242
Hook1	chr4:95959710-96024274	OK	2.17373	4.57825
Pnir	chr4:21846326-21876475	OK	8.89515	18.723
Kif18a	chr2:109280737-109341746	OK	0.399216	0.839999
Lrrc3	chr10:77897575-77902536	OK	6.87661	14.4667
Rnf39	chr17:36943050-36947986	NOTEST	0.325469	0.684657
8430426J06Rik	chr15:81242653-81251862	NOTEST	0.229305	0.482164
Ppox	chr1:171276991-171281186	OK	3.56822	7.49837
Rmi2	chr16:10835058-10843235	NOTEST	0.0285002	0.0598863
Fam220a	chr5:143548705-143564525	OK	17.5997	36.9734
Ube2t	chr1:134962564-134974179	OK	1.05956	2.22313
Mab21l1	chr3:55625197-56183701	OK	2.69624	5.65705
Hist2h3b	chr3:96268653-96269155	NOTEST	0.601384	1.26161
1110019D14Rik	chr6:13871568-13896421	OK	1.11904	2.34693
Ttk	chr9:83834688-83872390	NOTEST	0.220512	0.46221
Nhlh1	chr1:172052291-172057596	NOTEST	0.0473946	0.0992762
Ddit3	chr10:127290792-127311786	OK	16.8082	35.1896
Tfr2	chr5:137569839-137588081	OK	0.691699	1.44686
Zcchc7	chr4:44756558-44932214	OK	4.84868	10.1398
Pcgf6	chr19:47033618-47050845	OK	2.88951	6.03753
Plcb3	chr19:6953712-6969814	OK	113.299	236.447
Shisa9	chr16:11984112-12270904	NOTEST	0.0780468	0.162805
Acvr1c	chr2:58267452-58357758	NOTEST	0.0391231	0.0815581
Gm10451	chr12:76444496-76448698	NOTEST	0.126058	0.262644
Slc5a1	chr5:33104218-33162699	NOTEST	0.169464	0.353073
A430105I19Rik	chr2:118754144-118762661	OK	2.91073	6.06289
Tmcc2	chr1:132356314-132391281	OK	22.2507	46.3042
2010107G23Rik	chr10:62107655-62111013	OK	14.7269	30.6448
Ror2	chr13:53109316-53286109	OK	3.49369	7.26975
Fbxl19	chr7:127746774-127768928	OK	13.0497	27.1536
Sned1	chr1:93235896-93296448	OK	1.97649	4.11224
Pdzd3	chr9:44247311-44251464	NOTEST	0.0608072	0.126384
Kcnd3	chr3:105448189-105674002	OK	38.4005	79.7905
Jak3	chr8:71676382-71690577	OK	0.999275	2.07448
A330069E16Rik	chr2:91237145-91238357	NOTEST	0.385049	0.798625
2900005J15Rik	chr5:25100974-25103007	OK	0.543907	1.12787
Rbm3os	chrX:8138974-8147963	NOTEST	0.251005	0.519962
Eme1	chr11:94629823-94653754	NOTEST	0.134912	0.279252
Ccnl2	chr4:155812488-155824543	OK	7.1791	14.8544
Msc	chr1:14753345-14755966	OK	1.78728	3.69486
Tmem200a	chr10:25991185-26079447	OK	12.2716	25.3662
Stx1a	chr5:135023571-135051099	OK	17.6794	36.5316
St6galnac3	chr3:153202508-153725133	OK	2.99429	6.18212
Cd209f	chr8:4102792-4105764	NOTEST	0.0579488	0.119583
Kncn	chr4:115884399-115887964	NOTEST	0.0473492	0.0976726
Mrgprb8	chr7:48388525-48389648	NOTEST	0.0210386	0.0433811

N28178	chr4:42917250-42941607	OK	260.47	536.951
Dscc1	chr15:55076100-55090478	NOTEST	0.165149	0.34031
Hebp1	chr6:135137518-135168215	OK	4.60255	9.48316
B3gnt6	chr7:98192414-98199475	NOTEST	0.333275	0.686676
Ooep	chr9:78376902-78378588	OK	2.04034	4.20376
Slc28a2	chr2:122426476-122461130	NOTEST	0.0700735	0.144309
Fam89a	chr8:124740256-124751809	OK	36.3109	74.7045
Pabpc4	chr4:123282910-123298835	OK	3.17997	6.54203
Nrg2	chr18:36017657-36197160	OK	2.98258	6.13335
Vaultrc5	chr18:36801762-36802107	NOTEST	0.138404	0.284586
Pi4k2b	chr5:52741573-52769344	OK	3.08561	6.34115
Fam193b	chr13:55539315-55571120	OK	4.23231	8.69723
Tox2	chr2:163225453-163323102	OK	7.04412	14.4729
Cd46	chr1:195041899-195092248	NOTEST	0.404361	0.83043
Dgkh	chr14:78569608-78725089	OK	91.3741	187.55
A730036I17Rik	chr2:129218968-129235606	NOTEST	0.0219148	0.0449814
Gpr39	chr1:125676995-125912214	NOTEST	0.210472	0.43181
Syt9	chr7:107284774-107591365	OK	45.6169	93.5697
Hs3st3a1	chr11:64433134-64522835	NOTEST	0.183489	0.376315
Gm17801	chr17:25260510-25275528	NOTEST	0.0607797	0.124585
Asb4	chr6:5383385-5433021	NOTEST	0.0521655	0.10692
Npy2r	chr3:82538382-82548085	OK	8.22588	16.8471
Nbeal2	chr9:110624788-110654161	OK	0.887227	1.81676
Gm7334	chr16:78359859-78376785	LOWDAT	0.254007	0.519596
Hpca	chr4:129105529-129121925	OK	17.3732	35.5195
Tcerg1l	chr7:138208971-138397730	OK	7.29298	14.9075
Rab33a	chrX:48519284-48530240	OK	7.91763	16.1835
Tmem30c	chr16:57266138-57292851	NOTEST	0.0857414	0.17524
Samsn1	chr16:75858793-75909266	OK	6.3077	12.8843
Spink2	chr5:77205105-77211471	OK	3.25061	6.63676
Gm12359	chr11:98795768-98833807	NOTEST	0.131577	0.268638
Hs6st2	chrX:51386636-51681602	OK	29.3921	60.0057
Ttc14	chr3:33800182-33844310	OK	5.29474	10.8018
Scg3	chr9:75643365-75684056	OK	410.621	837.423
Dennd2d	chr3:106481985-106547761	NOTEST	0.062981	0.128438
Eps8l3	chr3:107877229-107898685	NOTEST	0.0445588	0.0908255
Gpr27	chr6:99692678-99693818	OK	3.36472	6.85752
Clk1	chr1:58411987-58424088	OK	25.3472	51.6584
Glod5	chrX:8004200-8018492	NOTEST	0.222939	0.454304
Cpox	chr16:58670207-58680389	OK	13.6337	27.7799
Rs1	chrX:160768012-160994681	NOTEST	0.00950576	0.0193503
1500015A07Rik	chr18:61726389-61728253	OK	0.610384	1.24191
Pcmt2	chr2:181837853-181857460	OK	12.3601	25.147
S100a7a	chr3:90654301-90658130	OK	1.54178	3.13089
Scn2a1	chr2:65670444-65767447	OK	1.45624	2.95711
Vmn2r113	chr17:22943183-22958814	NOTEST	0.00812794	0.0165041
Eml1	chr12:108371152-108702306	OK	153.626	311.913
St6galnac5	chr3:152820709-152982207	OK	5.84588	11.865
Zfhx2	chr14:55061658-55092048	OK	6.69321	13.5768
Rab27b	chr18:69979130-70141590	OK	19.4388	39.4178
Gm13032	chr4:140810992-140845778	NOTEST	0.0179097	0.0362989
Rpl35	chr2:38998308-39005131	OK	1.39878	2.83257
Cd2	chr3:101275907-101287939	NOTEST	0.186236	0.37712

Btbd19	chr4:117119217-117125725	OK	0.692281	1.40126
Pak4	chr7:28558818-28598184	OK	4.08585	8.26713
Cd44	chr2:102811141-102901665	OK	77.0094	155.691
Stac	chr9:111561433-111690216	OK	28.6869	57.9941
Snrpf	chr10:93540631-93605245	OK	3.87701	7.83686
Trmt13	chr3:116562972-116630986	OK	0.687782	1.38998
Zfp692	chr11:58307068-58314613	OK	2.71104	5.47694
Brpf3	chr17:28801125-28838789	OK	2.17213	4.38471
Iqcg	chr16:32914099-33056186	OK	3.54449	7.15002
Fam109b	chr15:82341178-82345710	OK	0.511648	1.0318
Sh2d4a	chr8:68276527-68347704	OK	1.37469	2.77163
Ppp1r14b	chr19:6975047-6977324	OK	8.35059	16.836
Ifit1	chr19:34640888-34650009	OK	9.09196	18.3208
Csf2rb2	chr15:78282507-78305721	NOTEST	0.303806	0.611477
Tmem132c	chr5:127241825-127565790	OK	3.50219	7.04674
Synpo2l	chr14:20659417-20668306	NOTEST	0.0790128	0.158923
Lef1	chr3:131110296-131224357	OK	1.61317	3.24289
Slc38a6	chr12:73286847-73354045	OK	1.14197	2.29493
Ces5a	chr8:93499212-93535707	NOTEST	0.250564	0.503347
4930558J18Rik	chr1:57359221-57377544	NOTEST	0.0300976	0.0604573
Olfcr632	chr7:103937381-103938335	NOTEST	0.0242166	0.0486398
Mrgprd	chr7:145314834-145324059	OK	66.7719	134.11
Redrum	chr18:54422294-54453294	OK	2.82484	5.67168
Syce2	chr8:84872110-84893921	NOTEST	0.411574	0.826126
Naip5	chr13:100211739-100247336	NOTEST	0.228985	0.459551
39141	chr15:26309071-26409573	OK	10.5145	21.0836
Tmem154	chr3:84666191-84704575	OK	1.24443	2.49511
Fam46b	chr4:133480132-133487940	OK	0.830259	1.66432
Kcnc2	chr10:112271122-112466304	OK	6.04687	12.1185
Asb12	chrX:95470198-95478129	NOTEST	0.0344169	0.0689697
Flt3l	chr7:45131188-45136432	OK	1.7087	3.42131
1700019L03Rik	chr2:32775820-32784405	NOTEST	0.0123581	0.024726
Cd28	chr1:60746387-60773359	NOTEST	0.0927652	0.185554
2700069I18Rik	chr3:5177823-5415855	NOTEST	0.39299	0.785969
Cd55	chr1:130439029-130462740	OK	132.616	265.221
1500012F01Rik	chr2:167035795-167065862	OK	16.0004	31.9771
Rspo1	chr4:124986429-125009099	OK	4.11246	8.21844
Fam159a	chr4:108367776-108383655	NOTEST	0.0278924	0.0557375
Trpm6	chr19:18749982-18892511	NOTEST	0.384492	0.768292
Timeless	chr10:128232062-128252941	OK	4.49198	8.97523
Apobec3	chr15:79889531-79908429	OK	1.27409	2.54383
Gbp8	chr5:105014152-105053561	NOTEST	0.0470767	0.0939261
Nfil3	chr13:52967208-52981039	OK	2.84965	5.67917
D330041H03Rik	chr17:24352022-24414513	NOTEST	0.0947459	0.188787
Gabra2	chr5:70961056-71095849	OK	11.7759	23.463
Lbr	chr1:181815314-181842401	OK	6.22334	12.3986
Clasrp	chr7:19581042-19604468	OK	6.29815	12.5456
Fam150b	chr12:30884323-30911612	OK	6.75444	13.4475
Ap1m2	chr9:21295456-21312333	NOTEST	0.137395	0.273453
Nxpe4	chr9:48362040-48400025	OK	3.7046	7.37013
Olfcr78	chr7:102740720-102759471	NOTEST	0.24483	0.486996
Hes6	chr1:91411482-91413222	OK	13.1416	26.1314
Tyms	chr5:30058199-30073625	OK	0.412637	0.820506

Mesdc1	chr7:83880494-83884341	OK	15.0591	29.933
Elf1	chr14:79459936-79582491	OK	7.35937	14.6183
Tspear	chr10:77686568-77886769	NOTEST	0.283403	0.562303
Pabpc1l	chr2:164025223-164050538	NOTEST	0.119425	0.236761
Rgs5	chr1:169655500-169693526	OK	53.9022	106.77
Insl3	chr8:71676382-71690577	NOTEST	0.0765364	0.151377
6720468P15Rik	chr19:57508563-57512788	OK	3.66293	7.23903
Klhdc8b	chr9:108447638-108465945	OK	10.3035	20.3593
Klhl29	chr12:5077465-5375682	OK	7.89542	15.5997
Ptma	chr1:86526735-86530698	OK	86.392	170.656
9430008C03Rik	chr2:158353699-158361522	OK	0.999237	1.97367
Clgn	chr8:83389890-83426829	OK	52.2039	103.082
Pstpip2	chr18:77794549-77882879	OK	17.2132	33.9455
Dpp10	chr1:123332137-124045559	OK	51.5312	101.586
Mpp4	chr1:59120934-59237231	NOTEST	0.0751818	0.148172
Ipw	chr7:59619157-59678878	OK	0.781915	1.5408
Spag16	chr1:69826969-70725132	NOTEST	0.028962	0.0570535
Catsper3	chr13:55784578-55809000	NOTEST	0.162936	0.320862
Nfkbid	chr7:30423303-30428746	NOTEST	0.356157	0.701346
2210408F21Rik	chr6:31220350-31337394	OK	8.62795	16.9857
Ak7	chr12:105705981-105782447	NOTEST	0.189507	0.372975
Stx2	chr5:128984557-129008572	OK	34.1865	67.2803
A330076H08Rik	chr7:61943900-61982359	OK	0.930642	1.82933
B130006D01Rik	chr11:95723585-95726773	NOTEST	0.0230096	0.0452133
Gm5868	chr5:72581638-72587550	NOTEST	0.237034	0.465694
1110020A21Rik	chr17:84917181-85023992	OK	0.818063	1.60644
Cgref1	chr5:30933142-31348845	OK	19.4011	38.0971
Lrp8	chr4:107802258-107876840	OK	5.17825	10.1655
Zfp54	chr17:21423226-21435384	OK	0.801844	1.57393
Tmem79	chr3:88328652-88334433	OK	47.4108	93.0201
Rps19-ps3	chr4:147821776-147822202	OK	1.5728	3.08407
Sdc1	chr12:8771395-8793687	OK	10.299	20.1939
9130204L05Rik	chr3:91088136-91090805	OK	1.21567	2.3826
Ak4	chr4:101419288-101467771	OK	1.08295	2.12214
Raet1e	chr10:22158608-22374139	NOTEST	0.037243	0.0729797
Amer2	chr14:60378285-60381003	OK	8.67797	17.0024
Npas2	chr1:39194271-39363240	OK	0.968766	1.89796
Palm2	chr4:57568247-57717128	OK	14.0831	27.5765
Mical1	chr10:41476313-41487030	OK	23.9169	46.8253
Mtag2	chr7:45339125-45370564	OK	2.58039	5.04986
Rgs11	chr17:26202961-26211324	OK	4.98534	9.74811
Sowaha	chr11:53476577-53480195	OK	0.891227	1.7423
Sdsl	chr5:120458201-120472763	OK	3.40431	6.65462
Ankrd10	chr8:11611580-11635757	OK	10.1806	19.8991
Pkig	chr2:163658385-163726158	OK	21.4591	41.9132
Mettl7a2Higd1c	chr15:100353199-100384435	OK	0.574074	1.12092
Mapk7	chr11:61488811-61494266	OK	7.52896	14.6973
Lpar3	chr3:146220960-146286214	OK	33.3301	65.0331
Unc79	chr12:102948858-103183997	OK	1.39416	2.72009
Eno3	chr11:70657175-70662513	OK	3.89248	7.58353
5730420D15Rik	chr10:95417374-95428640	NOTEST	0.0202518	0.0394466
Foxm1	chr6:128362993-128385144	OK	0.419501	0.816684
Cabyr	chr18:12741354-12755142	NOTEST	0.203167	0.395491

Mex3d	chr10:80380354-80387651	OK	5.90083	11.4837
Htr4	chr18:62324203-62467802	OK	3.12981	6.08992
Zdhhc12	chr2:30078765-30093635	OK	8.91271	17.3396
Tbx1	chr16:18581703-18590671	NOTEST	0.220611	0.429009
Haus4	chr14:54541784-54554361	OK	9.32055	18.1198
Arhgap26	chr18:38993144-39376285	OK	17.4433	33.8969
Ubald2	chr11:116434093-116439077	OK	4.32152	8.39541
Serpina3f	chr12:104214543-104241934	NOTEST	0.0704475	0.136854
3000002C10Rik	chr9:109830153-109831431	OK	0.590028	1.14564
Ccdc39	chr3:33800182-33844310	OK	1.46486	2.8442
Rpl24	chr16:55966274-55971437	NOTEST	0.523379	1.01553
Catsperd	chr17:56628142-56664456	NOTEST	0.275146	0.533529
P2ry10	chrX:107089334-107104970	NOTEST	0.15908	0.308358
Mgam	chr6:40529090-40910666	NOTEST	0.00563069	0.0109129
Cks2	chr13:51645231-51650662	OK	1.25129	2.42509
Dapk1	chr13:60601946-60763191	OK	22.1293	42.8703
Gsdma	chr11:98664350-98677708	NOTEST	0.115836	0.224393
Trim6	chr7:104218794-104235152	NOTEST	0.275748	0.533967
Bcl2l14	chr6:134396328-134438724	OK	2.26517	4.38632
Wbscr25	chr5:134986213-135001350	NOTEST	0.0188915	0.0365798
Kcnn3	chr3:89520163-89672494	OK	0.450565	0.872347
Zcchc16	chrX:144688906-145122410	OK	0.424308	0.821113
Drd3	chr16:43762241-43822839	NOTEST	0.128316	0.248244
Zc3hav1	chr6:38310496-38354603	OK	4.59618	8.89183
E130102H24Rik	chr4:101346523-101399185	OK	1.42176	2.75028
Rhebl1	chr15:98877759-98881414	OK	11.3531	21.9504
Ago4	chr4:126489542-126533458	OK	1.24529	2.40404
Cpne3	chr4:19519251-19570104	OK	78.7717	151.858
Alk	chr17:71868987-72604307	OK	0.496443	0.956824
Bach2	chr4:32417434-32586108	OK	3.07651	5.92365
Oca2	chr7:56239770-56536517	NOTEST	0.0363538	0.0699257
Gm13247	chr4:146501999-146546873	NOTEST	0.0260922	0.0501871
Magi1	chr6:93675452-94283917	OK	41.8162	80.4143
Frmd4b	chr6:97286866-97617657	OK	6.24471	12.0084
Ccdc120	chrX:7731713-7741324	OK	1.87135	3.59558
Grhl2	chr15:37233035-37363568	NOTEST	0.0596189	0.114541
Lca5	chr9:83391354-83454574	OK	1.36829	2.62866
Rgs3	chr4:62559846-62703019	OK	14.8704	28.5645
St6gal2	chr17:55445716-55499226	OK	2.20693	4.2363
Nlrp5-ps	chr7:14530653-14623066	NOTEST	0.140705	0.269902
Lime1	chr2:181381234-181383628	OK	5.03112	9.63985
Aldob	chr4:49535994-49549483	NOTEST	0.134778	0.258214
Gm10785	chr16:91688897-91728802	NOTEST	0.131628	0.2521
Gpha2	chr19:6226400-6235840	NOTEST	0.22795	0.436351
Klk5	chr7:43842268-43851181	OK	1.76412	3.37559
Med10	chr13:69809881-69816094	OK	28.5195	54.5568
Jmjd7-pla2g4b	chr2:120027482-120043032	NOTEST	0.196791	0.376263
Zbtb42	chr12:112678839-112682747	OK	1.5901	3.04015
Otoa	chr7:121083437-121163089	OK	1.7636	3.37152
AI413582	chr17:27563768-27565727	OK	62.8663	120.114
F2rl3	chr8:72761879-72763885	OK	1.20701	2.30526
Trim39	chr17:36258872-36272004	OK	4.43794	8.47515
1700047I17Rik2	chr12:55199591-55217146	OK	1.8105	3.45563

Itgal	chr7:127296259-127335137	NOTEST	0.326141	0.621916
Dgkg	chr16:22466568-22657231	OK	15.1395	28.8685
Pafah1b3	chr7:25295048-25297955	OK	17.7411	33.8242
Bex4	chrX:136139044-136140437	OK	3.98175	7.59061
Ssbp3	chr4:106911469-107049694	OK	74.0814	141.182
Cks1b	chr3:89415471-89418291	OK	4.41208	8.39969
Ttll13	chr7:80246375-80260821	NOTEST	0.100472	0.191262
Ccdc141	chr2:77009905-77170635	OK	16.4857	31.3823
Cenpn	chr8:116921739-116941503	OK	1.29275	2.46061
Bglap	chr3:88383494-88384466	NOTEST	0.117424	0.223195
Rgs17	chr10:5825663-5922400	OK	11.214	21.3145
Esr2	chr12:76120418-76177259	NOTEST	0.0632988	0.120273
Gm15760	chr16:20545111-20548556	NOTEST	0.0321138	0.0610068
Dennd2c	chr3:103127555-103169733	NOTEST	0.26063	0.494934
BC021891	chr8:125910449-125947439	OK	1.25414	2.38112
Cd82	chr2:93419101-93469874	OK	49.1243	93.1965
P2rx3	chr2:84996551-85035834	OK	111.77	211.955
Tfap4	chr16:4544660-4559720	OK	1.93438	3.66707
Rhov	chr2:119269200-119271226	OK	20.1123	38.11
Gm2011	chr3:40846998-40875609	NOTEST	0.118346	0.224228
Gm14634	chrX:12762277-12821492	OK	0.610789	1.1569
Hook2	chr8:84990594-85003364	OK	1.49548	2.83231
Pisd-ps3	chrUn_JH584304:52673-59689	OK	10.6369	20.1336
Ptbp3	chr4:59471867-59549364	OK	16.7017	31.6112
Zfp945	chr17:22846696-22867134	OK	3.37713	6.39174
Bahd1	chr2:118901614-118924524	OK	16.1137	30.4863
Eps8l2	chr7:141339001-141365110	OK	1.48829	2.81346
Dnttip1	chr2:164746014-164768219	OK	15.6025	29.4899
Ndst3	chr3:123526165-123672392	OK	3.69179	6.97403
Wdr95	chr5:149489055-149611894	NOTEST	0.00844653	0.0159493
5730403I07Rik	chr9:77366411-77399416	NOTEST	0.0105401	0.0198961
Prkcq	chr2:11172381-11301226	OK	33.6652	63.5433
Rps20	chr4:3834472-3835600	OK	45.8977	86.5941
Rpl11	chr4:136049947-136053371	OK	2.07808	3.91153
Dtwd1	chr2:126152140-126165277	OK	2.00843	3.77943
Mb21d1	chr9:78430517-78443147	NOTEST	0.202981	0.381882
Gnb4	chr3:32583527-32616535	OK	37.1262	69.8156
Rbm12b1	chr4:12140116-12146746	OK	1.16765	2.19517
Btc	chr5:91357260-91402994	NOTEST	0.354702	0.666739
Tnf	chr17:35199366-35202007	NOTEST	0.0519757	0.097607
Exo1	chr1:175880777-175911396	NOTEST	0.0527208	0.0989963
Cdc7	chr5:106964321-106984439	OK	1.63266	3.06533
Gm10767	chr13:66905414-66909166	OK	1.08401	2.03449
Slc25a43	chrX:36743631-36777307	OK	1.35012	2.53218
Neur11a	chr19:47178819-47259441	OK	10.5139	19.7116
Hist1h1e	chr13:23621776-23622558	OK	0.773806	1.45059
Pdlim2	chr14:70164217-70177672	OK	10.2102	19.1391
Tg	chr15:66670769-66850720	NOTEST	0.0219524	0.0410926
Sh2d5	chr4:138250410-138260968	OK	3.61108	6.75871
Fam183b	chr11:58792801-58801960	NOTEST	0.341717	0.639278
4632427E13Rik	chr7:92740705-92741459	NOTEST	0.219161	0.410001
Ccdc40	chr11:119228571-119265212	OK	1.59934	2.99141
Cblb	chr16:52031548-52208046	OK	7.94826	14.8617

Rps2	chr17:24720062-24721927	OK	16.7024	31.2209
1700037H04Rik	chr2:131127411-131604824	OK	67.3404	125.832
Cercam	chr2:29869493-29882840	OK	0.847901	1.58438
Nktr	chr9:121719180-121759943	OK	7.72408	14.4296
4930503L19Rik	chr18:70453139-70501065	OK	2.89264	5.40215
Prkca	chr11:107933386-108343888	OK	60.6531	113.27
Cxadr	chr16:78301670-78359785	OK	0.478116	0.892804
Izumo4	chr10:80702692-80705382	OK	13.6158	25.4237
Arhgap28	chr17:67842707-68004108	OK	26.6613	49.7811
A230103J11Rik	chr8:85036914-85067120	OK	0.714839	1.3347
Mrgpra2b	chr7:47463806-47489582	OK	5.6603	10.5582
Ptger3	chr3:157566891-157644758	OK	7.48439	13.9493
Rassf7	chr7:141215859-141218658	OK	1.58342	2.95034
Tle1	chr4:72109944-72200893	OK	22.0174	41.009
Mrm1	chr11:84813060-84819515	OK	8.22271	15.3124
Klhl2	chr8:64739674-64849924	OK	20.0227	37.28
Gpr45	chr1:42952871-43035449	NOTEST	0.32605	0.606963
Mrgprb4	chr7:48198212-48199178	OK	13.4722	25.0583
Tox3	chr8:90247111-90348252	OK	6.76159	12.5733
Spata32	chr11:103198943-103218432	NOTEST	0.212532	0.395189
Efcab11	chr12:99717530-99883442	NOTEST	0.237313	0.441189
Actl6b	chr5:137553554-137569573	OK	16.2207	30.1525
Smarca1	chrX:47809369-47892552	OK	8.83306	16.4138
Cep135	chr5:76591713-76646466	OK	1.08826	2.02143
Rpl7a	chr2:26910806-26913311	OK	3.35271	6.22703
Rpl35a	chr16:33056452-33060188	OK	2.67763	4.97209
2900041M22Rik	chr11:117611246-117613417	OK	2.63729	4.89304
2610005L07Rik	chr8:20385781-20424814	OK	1.55033	2.87422
Bex2	chrX:136066564-136068236	OK	194.481	360.474
Irf2	chr8:46739744-46847458	OK	12.2905	22.779
Slfm10-ps	chr11:83028125-83040533	NOTEST	0.0535992	0.0993163
Zfp821	chr8:109705545-109724932	OK	7.89405	14.6269
Car7	chr8:104446718-104624396	OK	1.32306	2.45144
Dancr	chr5:74093082-74094336	OK	0.88487	1.63903
Rpl34,Rpl34-ps1	chr3:130726826-130730398	OK	5.61151	10.3902
Plcx3	chr15:4375490-4575579	OK	19.7767	36.6044
Zfp560	chr9:20345135-20385158	OK	1.73679	3.21449
Ccnjl	chr11:43528748-43586999	OK	1.00446	1.85895
Exosc6	chr8:111056338-111057664	OK	5.4963	10.1709
Tmem164	chrX:142681399-142843494	OK	21.7072	40.1636
Nsg2	chr11:32000418-32059211	OK	86.6828	160.373
Ptpru	chr4:131768456-131838278	OK	1.20837	2.23472
Fam83h	chr15:76001091-76014336	OK	3.06164	5.65939
Crebzf	chr7:90442780-90448043	OK	14.169	26.1869
Prr18	chr17:8340405-8344113	NOTEST	0.232997	0.43062
Celsr3	chr9:108826319-108852969	OK	4.83204	8.92905
5031425E22Rik	chr5:23431807-23434353	OK	3.52178	6.50371
Abcb4	chr5:8893720-8959226	OK	2.55399	4.71446
Fam71f2	chr6:29281140-29290676	NOTEST	0.0705252	0.13015
Agpat4	chr17:12119283-12219640	OK	27.808	51.3149
Lcn2	chr2:32384636-32387739	OK	2.7482	5.07082
Bnipl	chr3:95241292-95251193	NOTEST	0.0813394	0.149982
Sox4	chr13:28950729-28953682	OK	11.1473	20.5538

Fads3	chr19:10041547-10059671	OK	21.8271	40.2104
Bora	chr14:99046376-99074107	OK	0.616714	1.1355
Ankrd23	chr1:36530533-36535729	OK	0.700372	1.28936
Rps6ka6	chrX:111387836-111537959	OK	2.47689	4.55945
Gucy2g	chr19:55198097-55241236	NOTEST	0.0860783	0.15842
Wdr65	chr4:118554550-118620405	OK	0.542976	0.999187
Rsph1	chr17:31255019-31277356	OK	1.91832	3.52971
Fdx1	chr9:51943306-51963533	OK	10.1817	18.7279
Rasef	chr4:73714578-73790602	OK	0.810342	1.49031
Smyd3	chr1:178955038-179518003	OK	7.98327	14.6802
Neur12	chr2:164830729-164857708	NOTEST	0.466239	0.857219
A930006K02Rik	chr16:91465103-91470123	OK	1.31108	2.40976
Ccdc138	chr10:58497936-58576244	OK	1.60343	2.94559
Uaca	chr9:60794547-60880370	OK	22.1622	40.6741
Pitpnc1	chr11:107207891-107470720	OK	65.7978	120.758
Ap1ar	chr3:127807264-127837492	OK	67.1805	123.292
Npff	chr15:102523838-102524942	NOTEST	0.171962	0.315494
Nat2	chr8:67494874-67502578	OK	1.60465	2.94322
Dytn	chr1:63622850-63686927	NOTEST	0.202535	0.371486
Amica1	chr9:45079182-45135606	NOTEST	0.336158	0.616517
Trpa1	chr1:14872647-14918862	OK	18.6735	34.2468
Basp1	chr15:25363276-25413764	OK	123.468	226.435
Ccdc112	chr18:46282150-46311928	OK	2.68929	4.93188
Hcn3	chr3:89146774-89160157	OK	11.1843	20.5054
Lcorl	chr5:45669924-45857540	OK	6.83288	12.5249
Pabpc1	chr15:36595657-36608973	OK	44.2272	81.0673
Pnn	chr12:59066918-59074017	OK	11.9037	21.8101
Lgals9	chr11:78962978-78984924	OK	52.4455	96.0884
Prrxl1	chr14:32599926-32649246	OK	15.2569	27.9518
Prr13	chr15:102459169-102462806	OK	136.241	249.499
Slc2a4	chr11:69942285-69948190	NOTEST	0.32489	0.594851
Ica1l	chr1:59989067-60043087	OK	4.244	7.76989
Gen1	chr12:11240925-11265787	OK	0.606877	1.11053
Lrrc34	chr3:30624266-30672431	NOTEST	0.354477	0.648502
Gsta3	chr1:21240584-21265575	NOTEST	0.104322	0.190782
Fam227a	chr15:79609575-79658956	NOTEST	0.267499	0.489176
Arid5a	chr1:36307732-36324029	OK	2.216	4.05146
Dedd2	chr7:25202839-25219859	OK	8.37647	15.308
Fam161a	chr11:23013386-23023741	OK	1.79132	3.27193
1600002K03Rik	chr10:79697304-80369637	OK	5.83944	10.6646
Gnao1	chr8:93810837-93969388	OK	305.811	558.236
2610206C17Rik	chr7:84689639-84776549	NOTEST	0.138978	0.253673
Stk32a	chr18:43207696-43317481	OK	2.42764	4.42923
Thoc1	chr18:9958179-10030149	OK	5.19913	9.48538
Sycp2	chr2:178345295-178407658	NOTEST	0.0508383	0.0927409
Hrh3	chr2:180099464-180104407	OK	1.27619	2.32684
Pira2	chr7:3731632-3915501	NOTEST	0.00986797	0.0179919
A230057D06Rik	chr7:61705849-61927574	OK	0.807676	1.47243
Tpt1	chr14:75845255-75848303	OK	10.181	18.5585
Fbxo9	chr9:78081499-78109065	OK	56.0671	102.087
Tes	chr6:17065148-17105825	OK	4.88649	8.88822
Nup210	chr6:91013066-91116826	OK	0.919379	1.6715
Dmrtc1a	chrX:102903220-102908687	OK	1.62792	2.95928

Lap3	chr5:45493373-45512691	OK	25.1905	45.7901
Rasl10a	chr11:5054130-5065327	OK	1.62256	2.94809
Tagln2	chr1:172500245-172507375	OK	126.898	230.401
Efcab4b	chr6:127577974-127629938	OK	1.01033	1.83415
Nyap1	chr5:137730962-137739998	OK	31.5156	57.1982
Hsf5	chr11:87617163-87659542	NOTEST	0.117029	0.212382
Ino80dos	chr1:63114470-63176822	OK	0.91145	1.65387
Unc13c	chr9:73479423-73933567	OK	6.69281	12.1403
Tescl	chr7:24333079-24333965	NOTEST	0.0550562	0.0998633
Lrrc45	chr11:120713952-120721127	OK	4.78961	8.68751
Arap1	chr7:101348068-101412586	OK	11.5387	20.9221
Irak3	chr10:120141653-120201537	OK	1.34758	2.44271
Tmem159	chr7:120102425-120120986	OK	7.42478	13.4583
Adrbk1	chr19:4285998-4306222	OK	72.7445	131.821
Srek1	chr13:103741614-103764582	OK	5.59321	10.1309
Cep72	chr13:74036494-74062285	NOTEST	0.284075	0.514492
BC005764	chr10:79697304-80369637	OK	5.62949	10.1891
Trim25	chr11:88999402-89020293	OK	6.65421	12.0343
Slc9b1	chr3:135348036-135397827	NOTEST	0.0247338	0.0447212
Trmt10b	chr4:45297167-45316131	OK	5.23878	9.47058
Gm16845	chr9:22055459-22389206	OK	0.585263	1.05786
Hyi	chr4:118359998-118409263	OK	18.1355	32.766
Trim11	chr11:58978092-58991462	OK	5.13837	9.27914
Gm16861	chr16:4886099-4941020	NOTEST	0.168131	0.303576
Rpl39	chrX:37082519-37085184	OK	22.3741	40.3976
Tshz2	chr2:169633645-169888504	OK	45.7996	82.683
Ano2	chr6:125690418-126040128	NOTEST	0.11535	0.208242
Aire	chr10:78030021-78063622	NOTEST	0.029465	0.0531677
Impg2	chr16:56204312-56273753	NOTEST	0.133467	0.240783
Akap5	chr12:76324890-76334151	NOTEST	0.21066	0.380038
Ehbp11	chr19:5707373-5726317	OK	6.99689	12.6185
Irf6	chr1:193153111-193172035	OK	2.78778	5.02536
Magel2	chr7:62376978-62381640	NOTEST	0.0665694	0.119954
Slc12a7	chr13:73763696-73816742	OK	6.87407	12.3827
Prph	chr15:99055173-99058978	OK	1065.39	1918.98
Fech	chr18:64456549-64489066	OK	25.2883	45.5184
Ctxn1	chr8:4257645-4259274	OK	36.7868	66.2085
Unc13b	chr4:43058983-43264887	OK	3.84719	6.92389
Pcna	chr2:132249285-132253180	OK	10.9499	19.698
Rpl13a	chr7:45125562-45128745	OK	59.4109	106.875
Preli2	chr18:41875695-41951194	OK	1.63873	2.94755
Hells	chr19:38930989-38968277	OK	2.52552	4.54134
4931440P22Rik	chr3:65527484-65555518	NOTEST	0.0941028	0.169171
Plek2	chr12:78888696-78906938	OK	2.36039	4.24287
Sncg	chr14:34370273-34374669	OK	2246.55	4037.66
Ppfia2	chr10:106470309-106933468	OK	9.36111	16.8239
Scn3a	chr2:65457117-65567492	OK	0.967434	1.73802
Efna1	chr3:89271729-89280951	OK	19.5254	35.0772
Snrnp70	chr7:45376453-45395647	OK	33.8025	60.6618
Rpl23a	chr11:78180935-78183584	OK	3.88955	6.97734
Etohd2	chr13:59769965-59823147	NOTEST	0.158624	0.284536
Slc4a3	chr1:75546265-75559431	OK	4.56178	8.18272
Rpl29	chr9:106429538-106431567	OK	30.6387	54.9577

Zc3h12d	chr10:7832469-7870397	NOTEST	0.312829	0.561078
Ptpn5	chr7:47077799-47133684	OK	1.89782	3.4025
Wdhd1	chr14:47240943-47276857	OK	1.79471	3.21556
Arid3b	chr9:57790504-57834234	OK	1.19241	2.13638
Timp1	chrX:20848542-20920918	OK	0.778278	1.39411
Smpd4	chr16:17619353-17644830	OK	5.4875	9.82916
ChkbCpt1b	chr15:89416404-89429927	NOTEST	0.0199058	0.0356482
Manr	chr3:29891016-29924191	NOTEST	0.0295297	0.0528765
2810410L24Rik	chr11:120186649-120189856	OK	0.593899	1.06322
Pou2f2	chr7:25091114-25132460	OK	0.61623	1.10278
Psd	chr19:46304736-46327156	OK	3.39088	6.0636
Zfp760	chr17:21707740-21725636	OK	3.11496	5.56654
Adrb2	chr18:62177712-62179981	OK	0.906627	1.61995
Bok	chr1:93685693-93695762	OK	4.48124	8.00665
Gmip	chr8:69808686-69821870	OK	2.00229	3.57503
Gm14405	chr2:176852791-176864437	NOTEST	0.0479782	0.085636
Magi3	chr3:104013264-104220406	OK	54.14	96.6172
Gucy2c	chr6:136697283-136781742	NOTEST	0.0676638	0.120747
Plekhn1	chr4:156221455-156228542	OK	0.575154	1.02632
2810032G03Rik	chr12:5376501-5416132	OK	3.61615	6.45082
Il2rg	chrX:101264386-101268206	OK	1.12355	2.00389
Vgf	chr5:137030294-137033351	OK	43.5806	77.6806
Agtr1a	chr13:30336355-30382867	OK	10.4187	18.5706
Gpx1	chr9:108339079-108340344	OK	133.712	238.258
Tmem151b	chr17:45523433-45549677	OK	21.208	37.7782
Hsbp111	chr18:80229755-80247102	OK	21.3241	37.973
Phactr3	chr2:178118974-178338492	OK	5.98244	10.6482
Mylpf	chr7:127211607-127214287	OK	0.616143	1.09658
D930015E06Rik	chr3:83898286-84040161	OK	12.6101	22.441
Hal	chr10:93488767-93516743	OK	3.42255	6.08885
Tyw5	chr1:57388243-57415958	OK	5.59134	9.94701
Kbtbd8	chr6:95117879-95129793	OK	1.90251	3.38416
AA543186	chr2:25327449-25332571	NOTEST	0.104231	0.185379
Ccdc134	chr15:82127921-82142202	OK	2.76367	4.91481
Grip1	chr10:119454033-120112965	OK	8.87331	15.775
Rps10	chr17:27630428-27635242	NOTEST	0.619949	1.10181
Sh3yl1	chr12:30911668-30960160	OK	10.5829	18.8043
Fam83d	chr2:158768098-158786637	OK	1.97571	3.50981
Apol9b	chr15:77729071-77736382	NOTEST	0.282868	0.502334
1700023F06Rik	chr11:103198943-103218432	OK	0.792252	1.40688
Atad5	chr11:80089399-80135791	OK	0.574918	1.02073
Trip13	chr13:73912461-73937767	NOTEST	0.340299	0.603817
Tapbpl	chr6:125224211-125239934	OK	8.1358	14.4325
Lmbr1l	chr15:98903920-98918098	OK	5.90722	10.4778
A330033J07Rik	chr13:48044230-48264036	OK	0.47131	0.835536
Ano7	chr1:93373895-93404304	NOTEST	0.0722721	0.128122
Spaca6	chr17:17830974-17839071	NOTEST	0.233831	0.414367
Abhd14b	chr9:106448639-106452918	OK	10.4258	18.474
Ammecr1	chrX:142853473-142966728	OK	0.885871	1.56926
Gnaq	chr19:16132830-16387453	OK	103.772	183.723
E4f1	chr17:24443778-24455311	OK	3.89283	6.89188
Bex1	chrX:136213971-136215513	OK	7.13669	12.634
Mrgbp	chr2:180581303-180585634	OK	2.00803	3.55426

Pcsk9	chr4:106442333-106464325	OK	1.00593	1.78017
Dhx58	chr11:100694883-100704271	OK	1.01214	1.79108
Gm10872	chr15:76266786-76292572	NOTEST	0.0420154	0.0743393
Prkd1	chr12:50341231-50649223	OK	8.5444	15.1158
9330188P03Rik	chr14:105589548-105593929	NOTEST	0.363117	0.642358
Mapk13	chr17:28769316-28778704	OK	0.504621	0.89246
Ncapd3	chr9:27030174-27095315	OK	2.44547	4.32426
Sigirr	chr7:141091174-141100546	OK	0.493003	0.871584
Cpne8	chr15:90487480-90679388	OK	27.7905	49.1135
Plekhs1	chr19:56461636-56486729	NOTEST	0.0519692	0.0918376
Zfp579	chr7:4992851-4996101	OK	3.33504	5.89324
Schip1	chr3:67892219-68626482	OK	32.3523	57.1475
Chia1	chr3:106113381-106132116	OK	3.64517	6.43652
Cadm1	chr9:47530351-47853385	OK	126.225	222.86
Mkrn3	chr7:62417592-62420139	NOTEST	0.297425	0.524904
D3Bwg0562e	chr3:117319145-117360876	OK	2.09499	3.69695
Lpcat3	chr6:124663103-124712178	OK	13.7224	24.1941
Gpr114	chr8:94923693-94943290	NOTEST	0.0451881	0.0796643
Ptms	chr6:124913674-124917946	OK	245.707	433.156
Gm16701	chr1:166974022-166999730	OK	0.779058	1.37332
Mycbpap	chr11:94501346-94521502	OK	1.15866	2.04246
Serpina3m	chr12:104387163-104394257	NOTEST	0.0382365	0.0673531
Pde1b	chr15:103503033-103530056	OK	2.37965	4.19054
Slc29a1	chr17:45585199-45599603	OK	20.305	35.7567
Tstd1	chr1:171419032-171420352	OK	6.44466	11.341
Trib3	chr2:152337424-152344060	OK	1.3836	2.4342
Snx15	chr19:6119403-6128215	OK	14.821	26.0747
Fam132a	chr4:155962311-155966629	OK	9.97493	17.5481
Arhgap22	chr14:33216822-33369936	OK	8.40394	14.7835
Bhlhe41	chr6:145858242-145865420	OK	10.4548	18.3911
Atp1b3	chr9:96332674-96364299	OK	225.44	396.445
Hist1h2bb	chr13:23746733-23747223	NOTEST	0.25769	0.453078
Odf2l	chr3:145118588-145153915	OK	4.35341	7.65299
Ppih	chr4:119300009-119320523	OK	0.769308	1.3522
M1ap	chr6:82946921-83030309	NOTEST	0.0852971	0.149914
5330417C22Rik	chr3:108458068-108536522	OK	4.24087	7.45161
Pde11a	chr2:75991131-76338653	OK	13.8868	24.3954
Tmem72	chr6:116692724-116716758	OK	13.2493	23.2693
Zfp948	chr17:21567045-21588682	OK	6.52926	11.4649
Syt1	chr10:108497649-109010975	OK	78.0097	136.955
Mterf1b	chr5:4192366-4197651	OK	0.542523	0.951893
4930415F15Rik	chr11:11489265-11515190	NOTEST	0.297778	0.522355
Shkbp1	chr7:27342132-27356008	OK	4.83404	8.47904
Camk4	chr18:32939040-33195767	OK	4.08034	7.15175
Gm14446	chr19:34592887-34601968	OK	1.43506	2.51496
Mex3b	chr7:82867332-82871576	OK	3.73299	6.54178
Slc26a1	chr5:108629809-108685446	NOTEST	0.0645248	0.113031
9430091E24Rik	chr8:111094744-111145498	OK	0.86873	1.52164
Agtr1b	chr3:20314472-20367177	OK	3.74766	6.56257
Ptprt	chr2:161521987-162661147	OK	23.346	40.878
Ebf3	chr7:137193670-137314445	OK	21.3776	37.399
Rpl30	chr15:34440505-34443276	OK	6.95372	12.1624
Krt25	chr11:99315843-99322941	OK	1.31199	2.29364

Shc1	chr3:89418550-89430029	OK	43.675	76.3483
Rarg	chr15:102234937-102257522	OK	13.7816	24.0813
Rpl10	chrX:74270815-74273135	OK	2.32308	4.05886
Defb42	chr14:63046990-63048606	OK	3.20272	5.59576
Rgs19	chr2:181688418-181693977	OK	5.38113	9.40142
Fermt3	chr19:6996130-7019469	OK	0.449907	0.785602
Fam129b	chr2:32876133-32961255	OK	33.6246	58.7031
Inha	chr1:75507076-75510354	OK	3.47718	6.07008
Rnh1	chr7:141160325-141172851	OK	46.898	81.8685
Pde6d	chr1:86543014-86582501	OK	46.2263	80.6614
Sft2d1	chr17:8283812-8327442	OK	5.57484	9.72513
Hpn	chr7:31098724-31115326	NOTEST	0.284256	0.49578
C330027C09Rik	chr16:48994187-49019705	OK	1.47119	2.56477
Klhl5	chr5:65131230-65168142	OK	36.8512	64.2216
Gm15446	chr5:109933562-109941710	OK	0.701844	1.22287
1600016N20Rik	chr7:141194129-141214080	NOTEST	0.0500061	0.0871242
Mpped2	chr2:106693458-106868360	OK	20.0778	34.9805
Chka	chr19:3851772-3894369	OK	26.8995	46.857
Pld5	chr1:175962305-176275312	OK	19.7142	34.3149
Rnf182	chr13:43615796-43670944	OK	2.46674	4.29204
Fgf17	chr14:70636204-70642268	NOTEST	0.0252555	0.0439416
Clhc1	chr4:134510998-134523922	NOTEST	0.130834	0.227622
Egfem1	chr3:29082576-29691056	OK	2.06656	3.59525
Kdm2b	chr5:122870674-122989092	OK	2.34352	4.07687
Srrm3	chr5:135818105-135874772	OK	6.31068	10.9778
Nrsn1	chr13:25252038-25269996	OK	45.1705	78.562
2010002M12Rik	chr19:34617050-34640743	OK	0.487039	0.846773
Tle2	chr10:81575286-81590845	OK	2.61361	4.54251
S100a6	chr3:90612893-90614414	OK	511.496	888.956
Hivep3	chr4:119814677-120135411	OK	2.93228	5.09581
Arpc1b	chr5:145114255-145128186	OK	92.4992	160.686
Ivns1abp	chr1:151344497-151364445	OK	79.5024	138.076
Tpd52	chr3:8929435-9004515	OK	136.577	237.157
Mycn	chr12:12936092-12941836	OK	2.75309	4.77765
Ret	chr6:118151747-118197744	OK	162.265	281.532
Pde6g	chr11:120447609-120453483	NOTEST	0.201978	0.350406
Vmn2r1	chr3:64081641-64105458	NOTEST	0.0565634	0.0981134
Acbd4	chr11:103101687-103112199	OK	21.3949	37.105
Xkr7	chr2:153031851-153055775	OK	1.49154	2.5863
Rbms1	chr2:60751952-60963204	OK	51.6348	89.5003
Mefv	chr16:3707214-3718124	NOTEST	0.0304385	0.0527508
Pabpn1	chr14:54894142-54898927	OK	52.1674	90.3958
Tacc3	chr5:33658146-33672197	OK	1.9261	3.3361
Rpgr	chrX:10158215-10216795	OK	2.61823	4.53437
Col17a1	chr19:47646340-47692042	NOTEST	0.0336741	0.0583112
Sapcd1	chr17:35016578-35028016	NOTEST	0.0573356	0.0992771
Scn3b	chr9:40269215-40291618	OK	32.0746	55.5313
H2afy	chr13:56073621-56135550	OK	24.2043	41.9047
Hist1h2bq	chr13:21833742-21837530	NOTEST	0.0458446	0.0793658
Slc7a7	chr14:54360840-54417702	OK	41.7696	72.3066
4933406I18Rik	chr7:114315478-114415161	NOTEST	0.101429	0.175518
C530044C16Rik	chr6:50776114-50814894	OK	1.03638	1.79304
Rnf144a	chr12:26306793-26415262	OK	18.431	31.8791

Bcat2	chr7:45567794-45589710	OK	15.1224	26.1437
Nedd4l	chr18:64887755-65751537	OK	54.1916	93.6837
Hk1os	chr10:62268854-62379908	NOTEST	0.302995	0.523716
Dok4	chr8:94857449-94876312	OK	134.304	232.095
Il4ra	chr7:125552281-125579474	OK	8.57857	14.8218
Il9r	chr11:32188996-32200279	NOTEST	0.0501431	0.0866269
Tprg	chr16:25286816-25422344	NOTEST	0.176835	0.305499
Rbks	chr5:31624438-31697610	OK	2.74462	4.74128
Gmnn	chr13:24751844-24761937	OK	5.29887	9.15314
Ppil4	chr10:7792893-7822563	OK	5.77564	9.97188
Hic2	chr16:17233586-17263430	OK	0.728424	1.25727
Ccl21b,Gm13304	chr4_JH584293_random:59768-	LOWDAT	0.109169	0.188408
Sftpa1	chr14:41131787-41136373	NOTEST	0.0483116	0.0833607
Ppil6	chr10:41490438-41514288	OK	0.565201	0.974974
Wipf3	chr6:54452882-54503768	OK	35.7087	61.5735
F2rl1	chr13:95511729-95525240	NOTEST	0.299452	0.516207
Maff	chr15:79347677-79359076	OK	2.77963	4.78945
Mapk4	chr18:73928485-74064949	OK	7.01155	12.0766
Adrbk2	chr5:112910477-113015538	OK	5.28975	9.11038
Bri3	chr5:144244436-144361005	OK	18.9926	32.6968
Map2k3os	chr11:60920940-60931867	OK	1.54624	2.66152
Ube2ql1	chr13:69702831-69739897	OK	32.2267	55.4638
Asic2	chr11:80880162-81968396	OK	40.7991	70.2082
Oser1	chr2:163405821-163419470	OK	2.42392	4.17094
Kpna2	chr11:106988628-106999525	OK	1.51568	2.60699
Tmem116	chr5:121452708-121495421	NOTEST	0.327675	0.563186
Dclk3	chr9:111439080-111489611	OK	13.6059	23.3813
Mgat4b	chr11:50225334-50235103	OK	38.5623	66.2632
Slc3a1	chr17:85028346-85090274	NOTEST	0.186369	0.320209
Tmem173	chr18:35733677-35740554	OK	1.63434	2.80762
Mvp	chr7:126986859-127014594	OK	20.6043	35.3945
Gprin1	chr13:54736672-54749669	OK	3.99786	6.86501
Fam76b	chr9:13827726-13846522	OK	3.42046	5.87067
Ppef1	chrX:160623093-160719972	OK	38.8228	66.6284
Flot1	chr17:35823356-35832787	OK	171.822	294.834
Abcb10	chr8:123952458-123983122	OK	7.86847	13.4969
Mb21d2	chr16:28826175-28929698	OK	7.15722	12.2722
Pusl1	chr4:155869566-155891762	OK	8.21137	14.0785
A930024E05Rik	chr5:122989353-122998341	OK	0.755499	1.2947
Msh4	chr3:153857140-153906138	NOTEST	0.0391702	0.0671127
Kcnk18	chr19:59219647-59237370	OK	4.73889	8.11874
Tusc5	chr11:76679872-76698664	OK	255.299	437.315
Cenpv	chr11:62524943-62539261	OK	5.32295	9.11647
Hnrnpm	chr17:33646232-33685458	OK	40.4298	69.2374
Sri	chr5:8046077-8069314	OK	64.3832	110.227
Arhgef1	chr7:24902985-24926591	OK	12.8669	22.0241
Gm13826	chr5:115102921-115110268	OK	71.9509	123.14
Tuft1	chr3:94612758-94658806	OK	1.32429	2.26609
Ccm2l	chr2:153065954-153081735	OK	0.985551	1.68637
9930104L06Rik	chr4:124937047-124944661	OK	3.00025	5.13281
Uroc1	chr6:90333288-90364548	NOTEST	0.0281799	0.0482094
Tbc1d1	chr5:64160259-64351486	OK	10.5281	18.0025
Trmt112	chr19:6909697-6921808	OK	5.44984	9.31674

Kcnf1	chr12:17172099-17176888	OK	1.25989	2.15347
Slc5a2	chr7:128265696-128298131	NOTEST	0.0166781	0.0284996
Mmp17	chr5:129584213-129608211	OK	4.40699	7.52857
Rab27a	chr9:73044864-73097592	OK	11.0969	18.9532
Tnfaip8l3	chr9:54025605-54068411	OK	1.72395	2.94311
Scn10a	chr9:119608455-119719032	OK	212.704	363.038
Fam135a	chr1:24010757-24100341	OK	5.92361	10.1094
Mum1	chr10:79697304-80369637	OK	11.3246	19.3222
A330023F24Rik	chr1:195017398-195037908	OK	0.623897	1.06415
6820431F20Rik	chr8:20268285-20297432	OK	3.04634	5.1934
1700086O06Rik	chr18:38238404-38262629	OK	2.24495	3.82712
Rad52	chr6:119902697-119922823	OK	2.41727	4.11971
Chfr	chr5:110135829-110176504	OK	8.18884	13.93
Slc22a13b-ps	chr9:119220490-119231692	NOTEST	0.130232	0.221522
Cpt1b	chr15:89416404-89429927	NOTEST	0.166404	0.283011
Oas1g	chr5:120876141-120887598	NOTEST	0.101769	0.17308
5830415F09Rik	chr4:46376974-46389423	OK	1.44193	2.45176
Gpd1l	chr9:114899338-114933987	OK	39.6072	67.3265
Wnt2b	chr3:104944804-104961709	OK	8.98123	15.2657
Scml2	chrX:161162749-161258213	NOTEST	0.136078	0.231287
Ccdc43	chr11:102684687-102697725	OK	17.3097	29.4188
Il3ra	chr14:14346494-14355490	OK	1.42684	2.42477
Bcl3	chr7:19808461-19822755	OK	3.25631	5.53258
Cdh10	chr15:18820328-19014234	OK	5.44225	9.24196
Taf1d	chr9:15283336-15357788	OK	5.35763	9.09531
Suv420h2	chr7:4740126-4747514	OK	3.26363	5.5403
Ska3	chr14:57806560-57826163	NOTEST	0.359242	0.609665
Scube2	chr7:109798690-109865679	OK	0.602419	1.02224
B930059L03Rik	chr12:110591373-110592679	NOTEST	0.299704	0.508535
1700019D03Rik	chr1:52925126-52952840	OK	5.26692	8.93559
Arhgap39	chr15:76723984-76818170	OK	22.0067	37.3334
Arl4d	chr11:101665540-101667832	OK	12.2816	20.8347
Lat2	chr5:134600102-134615025	NOTEST	0.19393	0.328863
LOC101055769	chr4:59260050-59269144	NOTEST	0.0798514	0.135395
Ptprc	chr1:138062858-138175305	OK	0.778906	1.32032
2900076A07Rik	chr7:81523549-81531498	OK	0.851502	1.44332
Serpina3g	chr12:104214543-104241934	OK	35.9627	60.9505
Gng2	chr14:19872558-19977249	OK	107.657	182.451
Plagl1	chr10:13090787-13131695	OK	16.012	27.1259
Gnal	chr18:67088297-67245830	OK	104.709	177.252
Fbxl2	chr9:113930933-114026751	OK	26.0697	44.1212
Gm6548	chr17:78850504-78852544	OK	11.8954	20.1281
Def6	chr17:28207777-28228608	OK	11.0659	18.7181
Zfp14	chr7:30036358-30051396	OK	2.90823	4.91467
Slc18a2	chr19:59260877-59296012	NOTEST	0.194613	0.328844
Klk8	chr7:43797576-43803822	OK	0.884285	1.49404
Gm13363	chr1:30940302-30949755	OK	1.3297	2.24648
Ppp1r2	chr16:30920553-31275697	OK	102.376	172.864
Ccnl1	chr3:65946150-65958225	OK	7.91788	13.3633
H2afj	chr6:136808247-136810074	OK	6.72335	11.3473
Klhl35	chr7:99466003-99474020	NOTEST	0.188225	0.317586
9030612E09Rik	chr10:43174698-43176565	NOTEST	0.386569	0.652087
Sun3	chr11:9016053-9069354	NOTEST	0.0754905	0.127225

Mbd6	chr10:127266261-127288771	OK	5.84564	9.84794
Usmg5	chr19:47067747-47090625	OK	7.87325	13.2609
F2rl2	chr13:95627176-95891922	OK	41.649	70.1458
Gm8234	chr3:58652041-58654041	NOTEST	0.183938	0.309769
Scand1	chr2:156311845-156375638	OK	13.1561	22.1558
Serac1	chr17:5941279-6079739	OK	2.74959	4.63013
Apba1	chr19:23758875-23949597	OK	94.6435	159.304
Kcnq1	chr7:143107253-143427042	NOTEST	0.361826	0.609008
Eif4ebp3	chr18:36664059-36666324	OK	1.99553	3.35815
Snx11	chr11:96767548-96777555	OK	22.6302	38.0672
2610018G03Rik	chrX:50841435-50891850	OK	2.07736	3.4941
Ncapd2	chr6:125168006-125191586	OK	2.9484	4.95813
Golga7b	chr19:42247577-42270348	OK	25.2693	42.4878
Apol10b	chr15:77584157-77596125	NOTEST	0.273813	0.460165
Itpkb	chr1:180326968-180423659	OK	32.2869	54.2524
Zfp593	chr4:134243305-134245873	OK	4.13132	6.94178
Trpv4	chr5:114622153-114658421	OK	0.557272	0.936349
Gm14023	chr2:129297369-129309972	NOTEST	0.224971	0.377994
Sfi1	chr11:3124020-3193463	OK	1.4522	2.43939
Hist2h3c2	chr3:96246684-96247348	LOWDAT	0.763375	1.28213
Hoxb4	chr11:96318266-96321638	OK	2.25792	3.78752
Htr5b	chr1:121509772-121528465	OK	3.40524	5.71148
Camk1g	chr1:193346345-193370282	OK	11.2101	18.801
Naa16	chr14:79334506-79390668	OK	1.46114	2.45038
Csf2ra	chr19:61224401-61228418	OK	2.73535	4.58725
Nudt8	chr19:4000579-4002102	OK	5.77339	9.68192
Cep152	chr2:125563087-125625113	NOTEST	0.437662	0.733913
C130036L24Rik	chr1:86359573-86367964	NOTEST	0.260462	0.436614
Sdcbp	chr4:6365679-6396122	OK	276.276	463.01
Tmeff1	chr4:48585192-48663131	OK	14.65	24.5342
Cenpi	chrX:134308162-134362639	NOTEST	0.437996	0.733493
Letm2	chr8:25578489-25597487	OK	3.56509	5.96974
Col24a1	chr3:145292471-145552005	OK	1.02273	1.71227
Gm5069	chr1:180326968-180423659	OK	2.99973	5.02192
Atp1b4	chrX:38316121-38336784	NOTEST	0.0181375	0.0303586
Cklf	chr8:104250860-104264936	OK	3.10629	5.19769
Wdr62	chr7:30240137-30280421	OK	1.07532	1.79931
Gm5577	chr6:87981682-87984180	NOTEST	0.526145	0.880322
Tmem63a	chr1:180942517-180975104	OK	9.28726	15.5333
Ptger1	chr8:83666639-83699179	OK	8.85994	14.8183
Pde1c	chr6:56069803-56369634	OK	17.0232	28.4675
Folr1	chr7:101858330-101870788	NOTEST	0.0798682	0.13352
Krit1	chr5:3803164-3844515	OK	5.49104	9.17818
Ccin	chr4:43983503-43985533	NOTEST	0.0381282	0.0637251
Zfp949	chr9:88548019-88571086	OK	4.09247	6.83987
AI847159	chr2:129178147-129180673	OK	0.634464	1.06027
Dock4	chr12:40446052-40846488	OK	7.78319	13.0054
Prkar2b	chr12:31958478-32061279	OK	110.598	184.753
Kcnmb1	chr11:33629340-33993193	OK	11.2669	18.8194
Fam43a	chr16:30599722-30602797	OK	3.18745	5.32389
Mybpc2	chr7:44501698-44524669	NOTEST	0.0835804	0.13957
5730422E09Rik	chr5:149119564-149182036	NOTEST	0.0240626	0.0401798
Mroh7	chr4:106680416-106727930	NOTEST	0.123624	0.206355

Gm16973	chr14:56668247-56701000	OK	1.1314	1.88752
Map7	chr10:20148919-20281590	OK	17.0187	28.3914
1600027J07Rik	chr8:103343877-103347534	NOTEST	0.173694	0.289672
Pcdh12	chr18:38267091-38284401	OK	0.60287	1.00535
Nipsnap3b	chr4:53011923-53022059	OK	22.0686	36.8
Htr1f	chr16:64924728-65105784	OK	2.45691	4.09502
Kctd16	chr18:40258360-40531184	OK	16.5833	27.6342
Prim2	chr1:33453807-33669794	OK	2.05454	3.42356
Trim56	chr5:137111285-137116207	OK	2.66716	4.44417
Samd12	chr15:53461800-53902436	OK	14.9516	24.9023
Anxa11	chr14:25842154-25886804	OK	16.5687	27.5909
1700001L19Rik	chr13:68597438-68614231	OK	1.57287	2.61885
Kcnd3os	chr3:105448189-105674002	NOTEST	0.289842	0.48255
Gm11974	chr11:6525590-6528760	OK	1.01383	1.68677
Trnp1	chr4:133491099-133498550	OK	275.669	458.506
4930414L22Rik	chr6:72432798-72440615	OK	3.10961	5.17162
Impact	chr18:12972251-12992948	OK	39.0591	64.9521
Tspan14	chr14:40906443-40966807	OK	28.4795	47.3584
Atp13a5	chr16:29231913-29378732	NOTEST	0.0870701	0.144758
9530077C05Rik	chr9:22411576-22444679	OK	7.23609	12.0281
Mafk	chr5:139791535-139802652	OK	5.724	9.51285
Grip2	chr6:91761509-91807393	OK	1.36764	2.27281
Tradd	chr8:105258574-105264594	OK	8.32771	13.8394
Adamts3	chr5:89673840-89883334	OK	3.2099	5.33417
Ocel1	chr8:71371297-71373689	OK	2.62144	4.35607
Ifit2	chr19:34550693-34576534	OK	9.76742	16.2305
Chek2	chr5:110840016-110874133	OK	0.61741	1.02551
Gtpbp6	chr5:110099968-110108197	OK	12.4196	20.6244
Baz1a	chr12:54892988-54986336	OK	1.12755	1.87235
BC068157	chr8:4209542-4217312	OK	1.06116	1.7619
Tspo	chr15:83563572-83574203	OK	12.7599	21.1802
H13	chr2:152669460-152708668	OK	30.316	50.314
Rras	chr7:45018006-45021644	OK	32.4943	53.9282
BC065397	chrX:136732947-136803361	NOTEST	0.347335	0.576371
Crtam	chr9:40972797-41004628	NOTEST	0.124273	0.206208
Txndc11	chr16:11066297-11134532	OK	5.9909	9.93978
Cd300lf	chr11:115091430-115162240	NOTEST	0.161083	0.267187
Gm14431	chr2:176521003-176533821	NOTEST	0.173995	0.288517
A930007I19Rik	chr19:29503662-29521987	NOTEST	0.0167229	0.0277204
Il17d	chr14:57524828-57543166	OK	2.59416	4.2975
36585	chr1:72427111-72536564	OK	5.39699	8.94051
Klk10	chr7:43781053-43785410	NOTEST	0.118617	0.196468
Srsf5	chr12:80945503-80950507	OK	41.6396	68.9623
Gad1	chr2:70489939-70602012	NOTEST	0.210834	0.349171
2700094K13Rik	chr2:84669220-84670708	OK	25.4439	42.1285
Rffl	chr11:82781108-82871210	OK	7.41325	12.2719
Jph2	chr2:163336241-163397993	OK	1.25443	2.07627
Odf2	chr2:29889719-29931746	OK	10.5923	17.5315
Serf1	chr13:100108018-100114233	OK	29.6207	49.0251
Rspo2	chr15:43020794-43170818	OK	25.2956	41.852
4930579K19Rik	chr9:98562459-98563611	NOTEST	0.186625	0.308751
Nek1	chr8:60993219-61130234	OK	23.2814	38.5064
Hnrnpa1	chr15:103240396-103246698	OK	9.99832	16.5366

Unc5d	chr8:28646716-29219636	OK	0.814541	1.34675
Hmgcll1	chr9:76014976-76136350	OK	3.82949	6.33092
Trpc5	chrX:144381670-144688180	NOTEST	0.448855	0.742006
Chd5	chr4:152338650-152390194	OK	12.2881	20.3077
Snx9	chr17:5841379-5930711	OK	14.5571	24.0496
Mov10l1	chr15:88982993-89055152	NOTEST	0.0622814	0.10286
Tcp10b	chr17:13061110-13082226	NOTEST	0.0673789	0.111189
Zfp872	chr9:22055459-22389206	NOTEST	0.0190567	0.0314472
Snhg6	chr1:9942024-9944118	OK	13.8802	22.8905
Rnase4	chr14:51091076-51106151	OK	10.4301	17.1995
Msantd1	chr5:34915914-34923839	OK	0.577485	0.952228
Gm5595	chr7:42660107-42692718	OK	1.04088	1.71623
Pla2g12b	chr10:59403684-59421976	NOTEST	0.184383	0.304008
Palm	chr10:79697304-80369637	OK	50.3596	83.0273
Diras2	chr13:52504374-52530836	OK	12.3861	20.4143
Sema3e	chr5:14025275-14256689	OK	4.61343	7.6002
Mcm2	chr6:88883473-88898780	OK	2.43115	4.00506
Bin2	chr15:100641081-100669500	NOTEST	0.247296	0.407382
Zmat4	chr8:23669660-24063116	OK	11.6135	19.1313
Rplp2	chr7:141447649-141451342	OK	3.86569	6.36469
Slpi	chr2:164354069-164356507	NOTEST	0.455674	0.749985
Kcna4	chr2:107290588-107298504	OK	7.53034	12.3911
Zfhx3	chr8:108714643-108961636	OK	13.1858	21.6859
Kctd8	chr5:69109284-69341709	OK	23.9238	39.3445
4921536K21Rik	chr11:3886087-3895126	NOTEST	0.254312	0.417978
Tssk4	chr14:55650183-55652539	NOTEST	0.0634519	0.104277
A330021E22Rik	chr5:5580981-5664232	OK	3.07546	5.05415
Epsti1	chr14:77904238-78002656	NOTEST	0.35873	0.589417
Gm10638	chr8:86723937-86747060	OK	1.5655	2.57101
Srsf11	chr3:158010492-158036639	OK	17.0209	27.9447
Lekr1	chr3:65666227-65831162	OK	1.11416	1.82901
Zfhx4	chr3:5177823-5415855	OK	1.90743	3.1311
Eri1	chr8:35465264-35495533	OK	2.33283	3.8284
Yy2	chrX:157547821-157598715	OK	0.577947	0.948154
Nlrc5	chr8:94472762-94527272	NOTEST	0.401801	0.659111
Plag1	chr4:3901157-3938405	OK	0.607983	0.997266
Ier3	chr17:35821712-35822911	OK	19.0557	31.2557
Stat4	chr1:52008243-52107184	NOTEST	0.08032	0.131735
Awat2	chrX:100402221-100442717	NOTEST	0.0930636	0.152578
5530601H04Rik	chrX:105040853-105070124	OK	0.828575	1.35831
Zfp580	chr7:5051531-5053723	OK	10.177	16.681
Card10	chr15:78775135-78803042	OK	3.80798	6.24095
Akap7	chr10:25169089-25299163	OK	3.94237	6.46028
Cenpj	chr14:56526760-56571846	OK	1.8555	3.04033
Car11	chr7:45699966-45704661	OK	31.0535	50.8532
Kri1	chr9:21265284-21287969	OK	8.83971	14.4642
U2af1	chr17:31647081-31658754	OK	3.19741	5.23046
Rpl10a	chr17:28328470-28331033	OK	0.897534	1.46809
Ankrd6	chr4:32804034-32950826	OK	7.33709	11.9997
Mxd1	chr6:86647044-86669159	OK	3.12438	5.10969
Nek3	chr8:22128282-22166435	OK	3.9114	6.3935
Tgm3	chr2:130012339-130050399	NOTEST	0.0323166	0.0528212
Pcdha6	chr18:36930284-37841872	OK	2.93361	4.79311

Lbh	chr17:72918304-72941946	OK	34.9467	57.0966
Rims2	chr15:39198285-39684372	OK	9.70151	15.8461
1700011I03Rik	chr18:57533825-57731065	OK	2.06732	3.37617
Dsc2	chr18:20030797-20059505	NOTEST	0.123236	0.201135
Zim1	chr7:6675442-6696432	NOTEST	0.460226	0.751049
Sae1	chr7:16320235-16387896	OK	48.5883	79.2842
Arhgap21	chr2:20847918-20967721	OK	14.0046	22.8512
Rin1	chr19:5050807-5057071	NOTEST	0.218165	0.355845
Ctsl	chr13:64363213-64370306	OK	412.355	672.458
Ccr9	chr9:123767210-123783457	NOTEST	0.0210468	0.0343168
Cacna2d2	chr9:107399879-107529343	OK	8.64915	14.1005
Bnip2	chr9:69989465-70011659	OK	7.231	11.787
Dek	chr13:47043498-47106221	OK	12.0578	19.6539
Emilin2	chr17:71252175-71310965	NOTEST	0.487382	0.794371
Trim21	chr7:102557919-102565482	OK	1.99578	3.24965
Tlx2	chr6:83068324-83070225	OK	40.7746	66.3746
Sh3glb1	chr3:144683677-144720335	OK	22.8784	37.2402
4930577N17Rik	chr3:51252719-51340644	NOTEST	0.267388	0.435112
2900060B14Rik	chr1:118389057-118609462	NOTEST	0.0908016	0.147717
Ddx55	chr5:124552863-124569660	OK	4.3463	7.06946
Zcchc9	chr13:91796532-91807696	OK	7.08635	11.5253
LOC101669761	chr16:31959669-32003287	NOTEST	0.36311	0.590478
Dazl	chr17:50279392-50293620	NOTEST	0.151356	0.245956
Ano3	chr2:110655200-110950244	OK	64.752	105.215
A930015D03Rik	chr17:35994503-36038174	NOTEST	0.495098	0.804463
Ccdc105	chr10:78746923-78753067	NOTEST	0.106185	0.172508
Tspan2os	chr3:102720230-102772310	NOTEST	0.534927	0.869
Rab15	chr12:76797962-76822524	OK	69.9104	113.552
Zfp92	chrX:73411102-73426987	NOTEST	0.153638	0.249536
Rnaset2a,Rnaset2b	chr17:8128590-8147832	LOWDAT	0.832519	1.35203
Ccr7	chr11:99144198-99155077	NOTEST	0.077599	0.126015
Cacnb3	chr15:98632327-98644536	OK	109.195	177.31
Tnfrsf11a	chr1:105780722-105847981	OK	8.86578	14.3961
Cdkn1a	chr17:29090985-29100722	OK	34.7025	56.3435
Ebf1	chr11:44618099-45008096	OK	46.4298	75.3745
Klf8	chrX:153238044-153396134	OK	4.31985	7.00744
Tomm6os	chr17:47686644-47694736	OK	0.524833	0.851314
Anks1b	chr10:89873508-90972984	OK	9.88292	16.0303
Slc35f4	chr14:49298519-49525837	OK	7.11492	11.5396
Nup93	chr8:94214600-94315066	OK	38.9466	63.1548
Catsper2	chr2:121394354-121413792	OK	0.740958	1.20096
Tmem132e	chr11:82388899-82446327	OK	47.7418	77.3285
Crip2	chr12:113140235-113145506	OK	227.863	369.02
Pcbd1	chr10:61089330-61094329	OK	29.3864	47.5706
Adk	chr14:21052573-21448569	OK	151.824	245.687
Thra	chr11:98741872-98765111	OK	71.6991	116.023
Cbln1	chr8:87468852-87472592	OK	1.83795	2.9741
Mfsd10	chr5:34633646-34637114	OK	8.66608	14.0204
Zfp389	chr13:21504315-21506524	NOTEST	0.352606	0.570367
Ptpro	chr6:137252298-137464633	OK	2.85574	4.61881
1700001C19Rik	chr17:47412733-47470638	NOTEST	0.0594828	0.0961965
Lrrc71	chr3:87618750-87748623	NOTEST	0.0404877	0.0654733
Arpc5	chr1:152766541-152775580	OK	89.9443	145.397

Htr1a	chr13:105443692-105448133	OK	2.85328	4.61
Syt14	chr1:192897306-193035698	OK	2.9174	4.7135
S1pr2	chr9:20965951-20976793	OK	2.43156	3.92737
Auts2	chr5:131437681-132542343	OK	11.2281	18.1319
Kif9	chr9:110476957-110525174	OK	1.15807	1.87006
Pde10a	chr17:8526800-8986648	OK	6.65739	10.7498
Lcor	chr19:41549638-41559781	OK	0.673474	1.08735
Nt5c	chr11:115475676-115491814	OK	46.189	74.5666
Amz1	chr5:140724126-140753312	OK	0.877518	1.4166
Dpys	chr15:39768484-39857470	NOTEST	0.180244	0.29089
Olf424	chr1:174136745-174137693	NOTEST	0.0939526	0.151621
Olf12	chr1:92619880-92621001	NOTEST	0.0385743	0.0622346
Tmem198	chr1:75479531-75485693	OK	3.2952	5.31415
Hypk	chr2:121457087-121458440	OK	95.6832	154.252
Slc25a27	chr17:43641899-43667015	OK	11.5684	18.6439
B230216N24Rik	chr1:97821093-98095632	OK	0.767852	1.23706
Syt4	chr18:31437807-31447415	OK	126.698	204.117
Nckap5l	chr15:99422033-99457748	OK	7.9067	12.7379
Dynll1	chr5:115297109-115300990	OK	71.6479	115.39
Tmsb4x	chrX:167207093-167209218	OK	1569.18	2527.15
Cebpa	chr7:35119292-35121931	OK	2.18105	3.51178
Srms	chr2:181205562-181213171	OK	0.640974	1.03189
BC048679	chr7:81494273-81498330	NOTEST	0.0467929	0.0753062
Dock11	chrX:35888831-36076562	OK	32.6793	52.5807
Pou4f1	chr14:104462324-104467999	OK	64.0662	103.05
Plau	chr14:20836661-20843388	OK	4.48719	7.21527
Ncapg2	chr12:116405401-116463531	OK	1.15936	1.86404
3110062M04Rik	chr6:34863145-34878065	OK	0.989361	1.59044
Fgd6	chr10:94036000-94145339	OK	1.39994	2.25043
Amh	chr10:80805247-80807648	NOTEST	0.122571	0.197033
Klf10	chr15:38291463-38300711	OK	8.93888	14.3649
Sidt1	chr16:44240179-44332838	NOTEST	0.0325723	0.052342
Pura	chr18:36281161-36288244	OK	12.7217	20.4349
Hcrtr2	chr9:76225879-76323578	OK	3.93078	6.3124
Arhgap17	chr7:123279148-123369915	OK	22.7859	36.5835
Rgmb	chr17:15806252-15826586	OK	81.8353	131.338
Zfp946	chr17:22424267-22456689	OK	7.15501	11.4831
Serp2	chr14:76532811-76556889	OK	35.4418	56.8746
Ccdc23	chr4:119195309-119201298	OK	10.849	17.4083
Xylt2	chr11:94663846-94677493	OK	11.4072	18.3029
Rps21	chr2:180257378-180258444	OK	132.184	212.087
Acin1	chr14:54642160-54690742	OK	20.141	32.3123
Nrn1	chr13:36725621-36734477	OK	332.066	532.674
Zfp524	chr7:5015507-5018488	OK	4.01795	6.4444
Stoml3	chr3:53488792-53507652	NOTEST	0.0794465	0.127381
Zfp78	chr7:6363307-6382605	OK	0.682799	1.09419
Myt1l	chr12:29528383-29923209	OK	20.4567	32.7807
Hpcal1	chr12:17690813-17791926	OK	78.9773	126.529
Slit1	chr19:41600256-41743856	OK	27.3332	43.7851
C2cd5	chr6:143010919-143100152	OK	12.8044	20.5105
Xkr6	chr14:63606529-63820410	OK	0.647939	1.03773
Myo18b	chr5:112688875-112896362	NOTEST	0.0131307	0.0210225
Stpg1	chr4:135495986-135537803	OK	1.34662	2.15555

Slc22a4	chr11:53983125-54028090	OK	2.04856	3.27859
4921524J17Rik	chr8:85408758-85432841	OK	5.82587	9.323
Acot12	chr13:91461096-91786148	NOTEST	0.0707131	0.113154
Cd47	chr16:49855653-49911683	OK	59.6197	95.4018
Fam124a	chr14:62555736-62608485	OK	5.03566	8.05694
Zfp182	chrX:21026183-21062038	OK	1.66885	2.66991
Gpr19	chr6:134869091-134897925	OK	5.87237	9.39217
A730020E08Rik	chr6:61175603-62382863	OK	0.664472	1.06201
Ndn	chr7:62348276-62349927	OK	117.846	188.35
Fgf13	chrX:59062145-59585572	OK	348.187	556.392
Upk1a	chr7:30603091-30612734	NOTEST	0.155495	0.248472
Rgl2	chr17:33929893-33937687	OK	6.88732	11.0054
Taf1c	chr8:119575234-119605240	OK	2.25501	3.60312
Eogt	chr6:97110943-97148883	OK	6.82171	10.8985
Zfand2b	chr1:75168645-75171626	OK	15.5276	24.8015
4930526I15Rik	chr9:124423250-124424856	OK	1.74885	2.79319
1700011B04Rik	chr13:35181622-35188014	NOTEST	0.131769	0.210401
Dcdc2a	chr13:25056003-25210706	NOTEST	0.120338	0.192077
Sema4d	chr13:51701247-51793747	OK	22.3474	35.662
Prr14	chr7:127471613-127476758	OK	7.20552	11.4979
Sfn	chr4:133600555-133602168	OK	3.4443	5.49386
Dusp11	chr6:85942268-85961667	OK	9.22402	14.7046
Mpzl3	chr9:45055180-45075042	OK	2.76212	4.40224
Tsen34	chr7:3693609-3701035	OK	26.5219	42.2517
Lrrc18	chr14:32959546-33185066	NOTEST	0.149543	0.238199
9230114K14Rik	chr5:52190680-52197984	OK	1.55982	2.48358
Ccdc11	chr18:74283099-74359984	NOTEST	0.0204972	0.0326176
Cds2	chr2:132263147-132312050	OK	182.459	290.163
Popdc2	chr16:38362172-38378216	NOTEST	0.380555	0.605108
Cdkl1	chr12:69746847-69987002	OK	3.73265	5.93367
Rd3	chr1:191977372-191988282	NOTEST	0.0159259	0.0253138
2310061J03Rik	chr16:55973267-56008912	OK	1.63578	2.59978
Rinl	chr7:28788968-28798966	OK	0.542833	0.86263
Tpm4	chr8:72135291-72153129	OK	35.7666	56.8208
Psme1	chr14:55578493-55585254	OK	17.9293	28.4622
Ankrd13b	chr11:77470486-77489678	OK	25.701	40.7974
Agfg2	chr5:137650853-137684693	OK	23.4885	37.2732
Myd88	chr9:119335987-119340040	OK	4.48125	7.10972
Il1r2	chr1:40076211-40125226	NOTEST	0.293479	0.465551
Fst	chr13:114452261-114458730	OK	1.01082	1.60315
Ptgs2	chr1:150100123-150108012	OK	0.60157	0.953889
Trim17	chr11:58963780-58971729	OK	0.594772	0.943076
Ubald1	chr16:4874778-4879851	OK	36.3267	57.5929
Avil	chr10:127000708-127020994	OK	281.18	445.734
Gm3435	chr17:14964188-15022449	NOTEST	0.270277	0.428335
A630089N07Rik	chr16:98062511-98082439	NOTEST	0.279434	0.442791
Zdhhc14	chr17:5492599-5753891	OK	11.4474	18.1396
Rpl13	chr8:123102349-123105242	OK	6.81732	10.799
Slc15a4	chr5:127595665-127617392	OK	10.8937	17.2554
Akap17b	chrX:36608182-36645414	OK	5.67838	8.99437
Chac2	chr11:30954397-31102704	OK	13.9732	22.1327
Csnk1e	chr15:79417851-79442057	OK	22.3626	35.4156
Ftl1	chr7:45457943-45459886	OK	112.766	178.568

Lst1	chr17:35185094-35188440	OK	2.16486	3.42765
Lrrc16b	chr14:55491092-55508264	OK	13.8522	21.931
Deaf1	chr7:141297175-141338783	OK	14.2442	22.5458
Cystm1	chr18:36348623-36393370	OK	71.8709	113.73
Myadm	chr7:3289037-3299349	OK	64.868	102.636
Gnb2	chr5:137528128-137533229	OK	139.399	220.471
Gm8773	chr5:5573798-5576203	OK	1.6188	2.56009
Rnaseh1	chr12:28649601-28659591	OK	6.38256	10.087
Psg16	chr7:17074039-17098971	NOTEST	0.23662	0.373945
Cbr3	chr16:93683218-93690991	OK	5.65749	8.94062
Ina	chr19:46886830-47024346	OK	17.3747	27.4544
Gimap9	chr6:48676134-48678704	NOTEST	0.504688	0.797469
Tnfsf13b	chr8:10006632-10035999	OK	0.990825	1.56554
Bax	chr7:45461694-45466898	OK	26.4263	41.741
Mtcl1	chr17:66336981-66449750	OK	24.0222	37.933
Tppp3	chr8:105467491-105471422	OK	1107.27	1747.59
Samd1	chr8:83997671-84000386	OK	6.77596	10.6898
Trpc4	chr3:54156056-54318471	OK	1.99546	3.14797
D030028A08Rik	chr11:96944145-96977688	OK	0.612628	0.964962
Ralgps1	chr2:33133418-33371494	OK	3.90534	6.14954
Terf1	chr1:15805645-15844052	OK	5.0476	7.94548
Bst2	chr8:71534261-71537437	OK	11.2122	17.6475
Unc119	chr11:78343521-78349156	OK	33.2972	52.4066
Pvrl1	chr9:43744575-43807461	OK	16.2551	25.583
Dok3	chr13:55523234-55528538	OK	0.789998	1.24306
Pinx1	chr14:63860311-63919859	OK	2.45164	3.85734
Aqp1	chr6:55336298-55348555	OK	152.59	240.062
Fez1	chr9:36843658-36878640	OK	248.193	390.45
Tbrg1	chr9:37649181-37657312	OK	31.7828	49.9972
Crocc	chr4:141016636-141060545	OK	1.16823	1.83748
Pgpep1l	chr7:68236607-68264233	NOTEST	0.143835	0.226217
Lsm5	chr6:56701062-56704699	NOTEST	0.728071	1.14484
Klf7	chr1:64035670-64121389	OK	61.001	95.9163
Star	chr8:25808512-25815982	NOTEST	0.313891	0.493524
Hoxc9	chr15:102977031-102984444	OK	1.6868	2.65187
Ccdc89	chr7:90426311-90428664	NOTEST	0.453169	0.712255
Ctu1	chr7:43672030-43678297	OK	2.34233	3.68116
Npas1	chr7:16455720-16476780	NOTEST	0.189552	0.297892
Stmn1	chr4:134468319-134473843	OK	139.701	219.537
Sh3bgrl3	chr4:134127405-134128753	OK	439.547	690.638
Rpf1	chr3:146506345-146521423	OK	6.78278	10.6564
Slc52a3	chr2:151996510-152009258	OK	2.97679	4.67665
Efcab4a	chr7:141461093-141466602	OK	1.43588	2.25432
Kcnk9	chr15:72512118-72546279	NOTEST	0.361935	0.568158
Edf1	chr2:25557899-25562082	OK	94.3087	148.027
Tspan2	chr3:102720230-102772310	OK	33.2992	52.2534
Tcp11	chr17:28066746-28080639	NOTEST	0.0428251	0.0672002
Rab10os	chr12:3235790-3309969	OK	1.68173	2.63864
Mgat4a	chr1:37439339-37541016	OK	13.3019	20.8685
Cdca7	chr2:72476218-72486890	OK	0.634014	0.994437
Pqlc3	chr12:16988647-17000118	OK	32.7742	51.402
Ptpn22	chr3:103859794-103912252	NOTEST	0.208999	0.327782
Ccdc109b	chr3:129914959-129970206	OK	17.7914	27.9008

Sfswap	chr5:129501230-129571384	OK	8.15914	12.7857
Gm20337	chr12:80942651-80945399	NOTEST	0.327181	0.512673
H2-D1	chr17:35263093-35267497	OK	95.4935	149.629
Coro1a	chr7:126699773-126704754	OK	70.4661	110.39
Snx10	chr6:51523902-51590670	OK	78.5115	122.982
Rps15a-ps6	chr11:6105691-6200451	OK	2.2388	3.50689
Faim	chr9:98986372-99002019	OK	19.4861	30.5213
Znf512b	chr2:181569152-181592461	OK	7.87464	12.3314
Tmem206	chr1:191325964-191397041	OK	4.95754	7.76201
Gm15708	chr5:144244436-144361005	NOTEST	0.0439548	0.0688111
Popdc3	chr10:45289304-45318450	OK	15.5249	24.3028
Fam189b	chr3:89183224-89189289	OK	183.273	286.819
Ttll9	chr2:152962484-153008482	OK	0.771259	1.20697
Tom1	chr8:75033685-75070121	NOTEST	0.169823	0.265746
Lig1	chr7:13258966-13311427	OK	5.75244	9.00162
Cdyl	chr13:35659861-35874064	OK	4.48346	7.01444
Mis18a	chr16:90719311-90727371	OK	2.70253	4.22807
Ankrd13d	chr19:4270179-4283137	OK	29.8869	46.7557
Gm2373	chr13:97434969-97497664	NOTEST	0.045759	0.0715751
Rps11	chr7:45122387-45124389	OK	88.7972	138.885
Snhg10	chr12:105030616-105032279	OK	3.20285	5.00926
Ptpla	chr2:14026830-14056035	OK	5.43302	8.496
Spice1	chr16:44347400-44388492	OK	2.53649	3.96575
Hdac9	chr12:34047581-34917095	OK	7.66699	11.987
Tmsb10	chr6:72957346-72958748	OK	119.127	186.236
F8a	chrX:73228305-73230795	OK	6.43214	10.0525
Lrrc75b	chr10:75550124-75560330	OK	40.3832	63.1005
Cnbd2	chr2:156311845-156375638	OK	0.577395	0.902057
Gm13889	chr2:93955809-93957100	OK	78.923	123.286
Rad23a	chr8:84832281-84840641	OK	28.7795	44.9554
6430550D23Rik	chr2:156000442-156007977	NOTEST	0.173153	0.27043
Rpl31	chr1:39367850-39478747	OK	6.54957	10.2261
Zgrf1	chr3:127553488-127618023	OK	0.557482	0.870309
Med11	chr11:70451930-70453726	OK	12.812	19.989
Pfkl	chr10:77986948-78009796	OK	25.7561	40.1815
Psma5	chr3:108256925-108279952	OK	6.26175	9.76733
Rbm43	chr2:51924448-51935009	OK	11.2139	17.4828
Mtrr	chr13:68560779-68582121	OK	2.78742	4.34558
Gemin2	chr12:59013392-59027988	OK	3.68594	5.74602
Magohb	chr6:131284388-131293244	OK	5.36259	8.35972
Ttc8	chr12:98920573-98983238	OK	4.37523	6.81996
Ggta1	chr2:35400178-35461425	OK	8.74979	13.6284
Vpreb3	chr10:75948311-75949646	NOTEST	0.33802	0.526428
Lrwd1	chr5:136123065-136136074	OK	4.49358	6.99637
Trpv2	chr11:62574485-62600305	OK	28.3063	44.0709
Gm15772	chr11:68901565-68904534	LOWDAT	17.1243	26.6598
Ap3b1	chr13:94358959-94566316	OK	6.48318	10.0919
Cstf3	chr2:104590483-104665425	OK	12.372	19.2533
Rpl32	chr6:115774556-115808743	OK	54.3847	84.6259
Mcm3	chr1:20803013-20820213	OK	0.947566	1.47426
1500004A13Rik	chr3:88777056-88832487	OK	6.09451	9.47892
AY358078	chr14:51800045-51826359	NOTEST	0.0955959	0.148678
1500011B03Rik	chr5:114808195-114813976	OK	54.5371	84.803

Ptpn9	chr9:56994967-57071966	OK	26.54	41.2644
Srsf4	chr4:131873638-131920029	OK	12.6154	19.599
Tmem169	chr1:72284372-72302995	OK	5.84383	9.07778
Lmnb2	chr10:80901362-80918245	OK	3.75735	5.83574
Gm17066	chr14:105106727-105177327	OK	6.10504	9.47992
Fcho2	chr13:98723405-98815449	OK	6.43876	9.99801
Ccdc166	chr15:75979871-75982285	OK	1.08608	1.6864
Duox1	chr2:122315671-122347972	NOTEST	0.0349272	0.0542266
Rmnd5b	chr11:51619772-51635896	OK	15.4206	23.9334
Cmah	chr13:24327403-24477289	NOTEST	0.180049	0.279408
Atxn2l	chr7:126491707-126503302	OK	24.2081	37.5655
Chrna6	chr8:27403211-27413944	OK	22.9159	35.559
Znhit1	chr5:136982200-136996646	OK	28.7654	44.6333
Six1	chr12:73041826-73046712	OK	25.0527	38.8619
Abca5	chr11:110269368-110337716	OK	27.7932	43.1036
Klrb1b	chr6:128813705-128826315	NOTEST	0.10367	0.160756
4933430I17Rik	chr4:62525368-62547993	NOTEST	0.127524	0.197689
Oxld1	chr11:120456603-120458063	OK	3.78111	5.86147
Rassf9	chr10:102512221-102546560	OK	1.85334	2.87268
1700026D08Rik	chr7:83775616-83794839	NOTEST	0.0492783	0.076367
Prr16	chr18:51117897-51304641	OK	0.949278	1.47092
Ddx17	chr15:79516407-79546741	OK	90.6371	140.441
Ltv1	chr10:13178637-13193137	OK	13.0106	20.1568
F930015N05Rik	chr11:64433134-64522835	NOTEST	0.147408	0.228361
Btbd8	chr5:107437996-107491596	OK	3.02304	4.68211
Gstp1	chr19:4035410-4037912	OK	32.3094	50.0362
Phkg1	chr5:129846989-129879083	NOTEST	0.065181	0.100927
Xpo7	chr14:70654245-70766628	OK	6.58515	10.1932
Tfdp1	chr8:13338750-13378448	OK	6.94446	10.7463
Sox18	chr2:181669836-181671640	OK	2.00881	3.10833
Lrrc8d	chr5:105699968-105815215	OK	32.5873	50.397
Agk	chr6:40325477-40396762	OK	4.06561	6.28681
Sertad4	chr1:192844487-192855752	OK	11.5593	17.874
Pgm2l1	chr7:100227606-100278872	OK	72.8988	112.672
Pold1	chr7:44532743-44548815	OK	2.10035	3.2458
4930486L24Rik	chr13:60842611-60864416	NOTEST	0.0788516	0.121851
1700026L06Rik	chr2:28692079-28699651	NOTEST	0.294839	0.455572
Zfp128	chr7:12881177-12893422	OK	1.62887	2.51678
Ranbp10	chr8:105768307-105827350	OK	9.84402	15.206
Skap2	chr6:51859164-52012549	OK	16.4729	25.4385
Arhgef28	chr13:97898594-98206165	OK	5.84518	9.02354
Gpr97	chr8:95017691-95045249	NOTEST	0.223699	0.345315
Brdt	chr5:107331193-107387058	OK	2.15329	3.32254
Enox1	chr14:77156762-77721763	OK	16.7506	25.8458
Incenp	chr19:9872296-9899533	OK	3.01416	4.65042
Lamb3	chr1:193301993-193343878	NOTEST	0.0508262	0.078413
Rcan3	chr4:135412308-135433805	OK	28.1986	43.4992
Rmdn1	chr4:19575065-19606932	OK	3.96372	6.11225
Coro2a	chr4:46536936-46601929	OK	51.1237	78.8252
Cntn3	chr6:102163305-102464667	OK	3.90556	6.01962
E2f4	chr8:105297662-105305370	OK	7.99122	12.3126
Pcdha5	chr18:36930284-37841872	OK	1.58149	2.43636
Snhg3	chr4:132351932-132353686	OK	12.9344	19.9236

4930430F08Rik	chr10:100488288-100589259	OK	8.68616	13.3763
4931428F04Rik	chr8:105276446-105289528	OK	10.5945	16.3139
Ap1s3	chr1:79606875-79671972	NOTEST	0.347191	0.534604
Rufy2	chr10:62980222-63023849	OK	8.84357	13.6136
Barx2	chr9:31846043-31913285	OK	2.41134	3.71184
Btf3	chr13:98309896-98317006	OK	12.596	19.3817
Rplp2-ps1	chr12:75630593-75669537	LOWDAT	89.616	137.88
Brinp2	chr1:158245268-158356260	OK	14.1124	21.7085
Smc4	chr3:69004971-69034623	OK	10.1795	15.6575
Erlin1	chr19:44034942-44069785	OK	6.77551	10.4203
Osbpl8	chr10:111164801-111297247	OK	15.3315	23.5772
Gm826	chr2:160311400-160327494	NOTEST	0.0565697	0.0869873
Brd9	chr13:73937837-73960895	OK	14.8591	22.8474
Cacna2d1	chr5:15934690-16374511	OK	44.2517	68.0367
Stk11ip	chr1:75521528-75537335	OK	8.09348	12.441
Rac3	chr11:120721467-120723969	OK	27.6683	42.5214
Acrbp	chr6:125049926-125063265	OK	0.623647	0.958298
Myh9	chr15:77760584-77842175	OK	54.5248	83.7774
Crybb3	chr5:113075838-113081584	OK	1.48837	2.28647
Adrm1	chr2:180171587-180176283	OK	3.08907	4.74542
Uri1	chr7:37959991-38019552	OK	10.0251	15.4005
Polr2i	chr7:30232073-30236765	OK	7.72442	11.8657
Slc25a24	chr3:109123148-109168409	OK	4.67637	7.18267
Zfp112	chr7:24112319-24127952	OK	1.83121	2.81221
Zc3h7a	chr16:11136593-11176393	OK	8.48492	13.0283
Cxxc4	chr3:134236494-134262089	OK	4.70818	7.22896
Foxo3	chr10:42185785-42276742	OK	14.673	22.5236
Icmt	chr4:152297213-152318625	OK	47.2822	72.5743
Steap1	chr5:5736321-5749317	OK	1.62276	2.4904
Bbs5	chr2:69647254-69667569	OK	7.06313	10.8393
Gramd4	chr15:86057694-86137636	OK	13.1833	20.2314
Armxc6	chrX:134748454-134751419	OK	5.47151	8.39667
Rsph3a	chr17:7945613-7979556	OK	4.85024	7.44288
Cpne9	chr6:113282306-113305571	OK	1.86486	2.86163
Atad2b	chr12:4917352-5047410	OK	2.09345	3.21147
Snx7	chr3:117781496-117868936	OK	78.5812	120.526
Gt(ROSA)26Sor	chr6:113046326-113077244	OK	9.45276	14.4976
Tac1	chr6:7555070-7562973	OK	188.8	289.472
Dqx1	chr6:83057843-83067219	NOTEST	0.100796	0.154512
B3glct	chr5:149678256-149762599	OK	12.5912	19.2966
Vmo1	chr11:70513515-70514616	NOTEST	0.213469	0.327146
Boc	chr16:44485044-44558870	OK	6.28079	9.62355
C130071C03Rik	chr13:83728105-83735669	NOTEST	0.0608051	0.0931641
Styx	chr14:45351185-45388796	OK	0.841353	1.28878
Cpsf4	chr5:145167212-145182041	OK	3.42826	5.25137
Apitd1	chr4:149128348-149137600	OK	3.11046	4.7642
Vezt	chr10:93968099-94035748	OK	14.8229	22.7022
Aacs	chr5:125475872-125517403	OK	54.855	84.0048
Ccdc12	chr9:110656502-110711593	OK	7.84602	12.0152
Asprv1	chr6:86628173-86629704	NOTEST	0.300062	0.459481
Slc25a38	chr9:120110398-120124319	OK	26.6602	40.8153
Bdnf	chr2:109674699-109727043	OK	9.21153	14.1019
Pop5	chr5:115235850-115240970	OK	48.1907	73.7546

Nol3	chr8:105276446-105289528	OK	42.3412	64.7975
Tor4a	chr2:25192719-25196813	OK	0.531965	0.813896
Tyk2	chr9:21104067-21131275	OK	3.00226	4.59339
B4galt5	chr2:167298444-167349178	OK	32.7663	50.1142
Hilpda	chr6:29272487-29275449	OK	6.20655	9.49182
Abr	chr11:76416731-76577739	OK	60.7909	92.9577
Taf10	chr7:105731729-105744338	OK	13.1464	20.1001
Kifc2	chr15:76660640-76668196	OK	13.7947	21.0911
Parpbp	chr10:88091071-88146941	NOTEST	0.383115	0.585656
Bend4	chr5:67392146-67427799	OK	3.48219	5.32293
Fbxl22	chr9:66350449-66514593	NOTEST	0.0979491	0.149725
Cep70	chr9:99243467-99300403	OK	2.59781	3.97082
Lmo7	chr14:101729927-101934693	OK	1.18156	1.80591
Prdm8	chr5:98180868-98187448	OK	7.63028	11.6607
G2e3	chr12:51348229-51376986	OK	1.64733	2.51731
Snx21	chr2:164786020-164804881	OK	35.0435	53.5439
Supt20	chr3:54693104-54716837	OK	11.1734	17.0716
Safb2	chr17:56562941-56584583	OK	5.56278	8.49893
Zdhhc13	chr7:48789002-48827437	OK	17.0199	26.0033
Rab40c	chr17:25882113-25919714	OK	11.8805	18.1492
4930526L06Rik	chr19:11196816-11299884	NOTEST	0.0657233	0.100397
Sp110	chr1:85576898-85645036	NOTEST	0.210641	0.321696
Wipf1	chr2:73429609-73529487	OK	13.8356	21.1291
Upf3b	chrX:37091833-37110322	OK	10.3421	15.7934
Cited1	chrX:102247377-102252181	OK	1.83207	2.79771
Jph1	chr1:16994939-17097889	OK	1.10506	1.68751
Lnx1	chr5:74535481-74702903	OK	5.00142	7.63579
1110007C09Rik	chr13:49202950-49216026	OK	43.0135	65.6672
BC020402	chr10:7678970-7681158	OK	0.987077	1.50649
Plcl1	chr1:55405945-55754285	OK	3.47142	5.29757
Rgs9bp	chr7:35578995-35585582	NOTEST	0.192057	0.29308
Utp18	chr11:93859242-93885766	OK	5.1263	7.82064
2700081O15Rik	chr19:7417624-7483291	OK	14.2152	21.6817
Zkscan2	chr7:123478638-123500449	OK	0.857653	1.30776
Asl	chr5:130011502-130024331	OK	14.3327	21.8525
Uimc1	chr13:55027879-55100295	OK	3.14577	4.79616
Paxbp1	chr16:90936096-91044379	OK	3.57913	5.45664
Ralgds	chr2:28513166-28553082	OK	21.7336	33.1256
Ino80b	chr6:83121827-83125029	OK	9.04555	13.7858
8430408G22Rik	chr6:116633007-116673836	OK	2.87787	4.38565
Creld1	chr6:113483568-113493338	OK	99.6485	151.85
8430427H17Rik	chr2:153407460-153529971	OK	19.812	30.1826
2010111I01Rik	chr13:62964892-63431745	OK	21.6158	32.9262
A230072C01Rik	chrX:20951664-20987349	OK	2.43276	3.70432
Glipr2	chr4:43957701-43979118	OK	7.24067	11.0245
Ankrd12	chr17:65967500-66077046	OK	10.0006	15.222
Tmem238	chr7:4784784-4789560	OK	0.978662	1.48958
Rp9	chr9:22448311-22468356	OK	21.4134	32.5709
Xpa	chr4:46175221-46196311	OK	6.0483	9.19955
Bcl7c	chr7:127704977-127708766	OK	5.33232	8.10895
Zmat5	chr11:4704677-4737666	OK	18.5755	28.2457
Pla2g6	chr15:79286227-79328371	OK	12.034	18.2956
Ost4	chr5:30888851-30907788	OK	36.7687	55.8999

Ydjc	chr16:17146966-17148857	OK	9.44873	14.3634
Mroh2a	chr1:88227019-88277579	NOTEST	0.00983456	0.0149486
Rassf1	chr9:107551554-107562267	OK	5.79897	8.81436
Rpusd1	chr17:25727750-25731456	OK	9.60435	14.597
Gpatch4	chr3:88043105-88055994	OK	8.64985	13.1422
Fbxo36	chr1:84839840-84900486	OK	7.63436	11.5993
2310036O22Rik	chr8:85026832-85030286	OK	54.8491	83.333
Fgf22	chr10:79697304-80369637	OK	1.08527	1.64852
Rsrc2	chr5:123728425-123749414	OK	21.698	32.9512
Flot2	chr11:78037940-78060432	OK	140.006	212.615
Cbr1	chr16:93607836-93610349	OK	42.8434	65.0606
Cep78	chr19:15955772-15984989	OK	4.21976	6.40722
Kin	chr2:10080611-10092701	OK	4.96515	7.53595
Wbscr17	chr5:130874950-131307522	OK	50.5631	76.7386
Rbm39	chr2:156147240-156180238	OK	56.9051	86.3632
Tec	chr5:72755717-72868448	OK	3.62284	5.4967
Noxo1	chr17:24696233-24700529	NOTEST	0.45217	0.686007
Jph4	chr14:55106825-55116935	OK	50.6527	76.8172
Gucd1	chr10:75506813-75517322	OK	11.2307	17.0291
Msl3l2	chr10:56014293-56228689	OK	3.07007	4.65478
Gabrr1	chr4:33132555-33163588	NOTEST	0.0774743	0.117427
Zfp827	chr8:79028436-79193766	OK	5.44555	8.25329
Cyp2j13	chr4:96042659-96077540	NOTEST	0.3997	0.605761
Rab26os	chr17:24528250-24528744	OK	7.4724	11.3242
Fam178a	chr19:44931118-44984550	OK	3.82463	5.79562
Hhipl1	chr12:108306269-108328300	OK	0.787931	1.19397
Zcchc18	chrX:136981115-137038302	OK	82.5457	125.059
AW549877	chr15:3982034-3995752	OK	25.4253	38.5137
Lgals4	chr7:28833793-28841703	OK	0.576801	0.873409
B230112J18Rik	chr5:116312359-116318274	NOTEST	0.24396	0.369397
Nagk	chr6:83795056-83802556	OK	44.0442	66.6892
Grk5	chr19:60889748-61092555	OK	5.44676	8.24652
Pknx2	chr9:36890978-37147322	OK	20.9052	31.6497
Igflr1	chr7:30565426-30567962	OK	1.0531	1.59397
Rps19bp1	chr15:80260613-80264306	OK	11.0525	16.7279
Pygl	chr12:70190814-70227683	OK	11.1903	16.9344
2510002D24Rik	chr16:18836579-18840113	OK	4.61409	6.98197
Socs7	chr11:97362550-97398542	OK	20.1869	30.546
Dennd6b	chr15:89182212-89196474	OK	4.23366	6.40561
Mkrn1	chr6:39397820-39420369	OK	40.6156	61.4153
Anxa5	chr3:36448923-36475887	OK	640.234	967.842
Erich3	chr3:154711132-154749012	OK	3.48788	5.27207
Prex1	chr2:166566344-166722152	OK	9.80022	14.8131
Cenpw	chr10:30196008-30200540	OK	0.683784	1.03307
Slc25a1	chr16:17925210-17928219	OK	65.4516	98.8534
Rnf219	chr14:104477533-104522666	OK	9.73866	14.706
Mypn	chr10:63115794-63203952	NOTEST	0.217482	0.328411
Klhl10	chr11:100441923-100457024	NOTEST	0.0766204	0.115673
Map2k3	chr11:60932056-60952803	OK	8.86907	13.3888
Efcab5	chr11:77089914-77188968	NOTEST	0.216468	0.326749
Fah	chr7:84585158-84605942	OK	13.5849	20.5041
Id4	chr13:48044230-48264036	OK	27.4859	41.4835
Tmem74	chr15:43866694-43870029	OK	15.537	23.4386

Anapc15	chr7:101881324-101899545	OK	3.51557	5.30314
Pkd2l2	chr18:34409422-34506823	NOTEST	0.213791	0.322439
Plp2	chrX:7657378-7671278	OK	1.39736	2.10734
Gstt2	chr10:75831844-75834881	OK	2.31535	3.49155
Pcdhb5	chr18:36930284-37841872	OK	1.19172	1.79675
5730405015Rik	chrX:13042014-13045295	OK	0.844177	1.27267
Pin4	chrX:102119464-102127673	OK	1.75728	2.64885
Ccdc84	chr9:44407713-44418007	OK	2.22504	3.35322
Brca2	chr5:150522620-150570146	NOTEST	0.330431	0.497937
Rtn4rl1	chr11:75193992-75267762	OK	39.0057	58.7689
1110002L01Rik	chr12:3365131-3426747	OK	2.56638	3.86465
Gcnt2	chr13:40859767-40960892	OK	111.801	168.346
Kl	chr5:150952606-150993817	NOTEST	0.428157	0.644664
Gm2109	chr9:83691474-83693247	NOTEST	0.244343	0.367886
4930538K18Rik	chr4:119205054-119218217	NOTEST	0.260733	0.392498
Myl6	chr10:128490860-128493825	OK	29.9911	45.1465
Sirt7	chr11:120618371-120625002	OK	10.4161	15.6773
Pde8a	chr7:81213803-81333622	OK	3.32466	5.00393
Ugcg	chr4:59189549-59222833	OK	54.5559	82.1009
Ankzf1	chr1:75192159-75210778	OK	4.97716	7.49008
Pdcd5	chr7:35641984-35647482	OK	5.83743	8.78276
9530026P05Rik	chr6:92940581-93111749	OK	1.24517	1.873
Rps19	chr7:24884713-24889802	OK	6.28731	9.45734
Piga	chrX:164419786-164433915	OK	1.33145	2.00233
Rtl1	chr12:109590168-109595403	NOTEST	0.0216792	0.0325983
Zfp941	chr7:140809676-140822178	OK	5.76556	8.66933
Atg4a	chr3:103193822-103854618	OK	3.67002	5.51392
Chuk	chr19:44073333-44107477	OK	10.0965	15.1646
Cdh1	chr8:106603367-106670246	OK	51.2669	76.9926
Arfgap3	chr15:83299739-83350247	OK	30.2365	45.4072
2510009E07Rik	chr16:21649044-21694665	OK	43.4253	65.2086
Cacna1b	chr2:24603888-24763152	OK	22.0412	33.0934
Rps18	chr17:33951998-33955641	OK	17.0506	25.5909
Ppp1r1c	chr2:79707779-79818546	OK	123.184	184.878
Nkiras2	chr11:100622954-100650693	OK	13.5898	20.3806
Fam189a2	chr19:23972749-24031019	OK	12.7599	19.1264
Slc8a1	chr17:81373104-81738387	OK	1.17097	1.75462
A930012L18Rik	chr18:44425059-44812182	NOTEST	0.427455	0.640453
Emp3	chr7:45918022-45921426	OK	28.6394	42.8926
Ermn	chr2:58045114-58052752	NOTEST	0.0329002	0.0492645
Rrp36	chr17:46667452-46674255	OK	8.62876	12.9203
Frat2	chr19:41845975-41848132	OK	5.63341	8.43484
Skp1a	chr11:52231994-52246858	OK	724.433	1084.68
Gm17762	chr2:18025188-18037741	NOTEST	0.375605	0.562375
Fzd5	chr1:64730557-64737750	OK	0.730593	1.09367
Dbdd2	chr2:164486139-164493323	OK	8.37646	12.5353
Yeats4	chr10:117215140-117224507	OK	21.2521	31.7957
Dda1	chr8:71469193-71486067	OK	30.6088	45.794
Gm10516	chr1:192098545-192151025	OK	3.87681	5.7998
Nipal2	chr15:34572798-34679204	OK	10.0304	15.005
Grk6	chr13:55445071-55460927	OK	21.0334	31.4649
Cfp	chrX:20925534-20931524	OK	1.03046	1.54098
Fam102b	chr3:108970996-109027607	OK	58.9717	88.1789

Rps27,Rps27rt	chr3:90212666-90213648	OK	1.71047	2.5573
Tspan5	chr3:138742194-138904424	OK	48.6281	72.6711
Zfp28	chr7:6383317-6396637	OK	1.32442	1.97916
Ssna1	chr2:25271038-25272418	OK	22.1345	33.0758
C77080	chr4:129189794-129261404	OK	38.9646	58.2246
Rbm25	chr12:83632233-83683123	OK	23.8857	35.6753
Fbxo22	chr9:55208934-55283625	OK	26.8944	40.1626
Lclat1	chr17:73107984-73243366	OK	23.1676	34.5864
Rnf7	chr9:96470956-96478595	OK	88.1451	131.59
Eef1g	chr19:8967040-8978180	OK	16.534	24.6794
Bbs9	chr9:22475714-22888280	OK	6.39062	9.53645
Myc	chr15:61985340-61990361	OK	4.62496	6.89908
Ccdc85a	chr11:28385683-28584324	OK	15.6701	23.3724
Taf4a	chr2:179912145-179976646	OK	2.84517	4.24291
Lypd6b	chr2:49787685-49948846	OK	4.15571	6.19621
Irf7	chr7:141263182-141266424	OK	3.62568	5.4044
Pten	chr19:32757576-32826160	OK	44.1691	65.8353
Tmem256	chr11:69838524-69839558	OK	67.0782	99.9723
Tcof1	chr18:60813755-60848964	OK	5.0445	7.51817
Raph1	chr1:60483184-60566765	OK	18.42	27.4522
Rnps1	chr17:24414674-24425897	OK	11.9318	17.7805
37499	chrX:36910833-36989695	OK	33.6244	50.1005
Taf9b	chrX:106206873-106221158	OK	14.9687	22.2996
Vav3	chr3:109340682-109685694	OK	7.73783	11.5268
Clk2	chr3:89164804-89177087	OK	4.51737	6.72851
3110009E18Rik	chr1:120121186-120188189	OK	1.41281	2.10349
Tmem106a	chr11:101582241-101591785	OK	3.94941	5.87832
Arrdc2	chr8:70835137-70839720	OK	4.91462	7.31391
Xaf1	chr11:72301628-72313733	OK	2.52386	3.75594
Kdsr	chr1:106720409-106759742	OK	11.18	16.6336
Trim46	chr3:89234176-89245897	OK	13.9702	20.7803
Zadh2	chr18:84088157-84097514	OK	20.4347	30.3931
Plekha6	chr1:133246096-133303435	OK	54.1547	80.5455
Slc9a3r2	chr17:24639281-24650305	OK	51.3576	76.3847
Arl10	chr13:54575012-54581128	OK	10.2048	15.1697
Pwwp2a	chr11:43681997-43722633	OK	3.84794	5.71899
Palb2	chr7:122107261-122132946	NOTEST	0.402595	0.59814
2900056M20Rik	chrX:152294823-152327493	OK	5.94834	8.83192
Ak8	chr2:28700160-28813165	OK	1.15001	1.70724
Rabgap1l	chr1:160219173-160792938	OK	40.2849	59.8023
Gtf3a	chr5:146948656-146963797	OK	11.6585	17.3057
Mrgpre	chr7:143778362-143784500	OK	9.27307	13.7599
Tmem29	chrX:150397772-150459150	OK	11.1274	16.5097
Ccdc62	chr5:123930688-123969895	NOTEST	0.248629	0.368796
Gadd45g	chr13:51846674-51848474	OK	18.9937	28.1726
Fam63a	chr3:95282934-95307176	OK	32.029	47.4904
Leo1	chr9:75441523-75466432	OK	14.1059	20.914
Rbm5	chr9:107740494-107771002	OK	25.401	37.66
Ankrd24	chr10:81628539-81647612	OK	4.56136	6.76222
Lrch4	chr5:137629122-137642902	OK	9.45851	14.0144
Zmym6	chr4:127077382-127124374	OK	3.85734	5.71503
Rep15	chr6:147032536-147033518	NOTEST	0.589154	0.87284
Jade3	chrX:20425687-20519939	OK	1.37096	2.03089

Gtpbp2	chr17:46161031-46169370	OK	15.3827	22.7822
Spag7	chr11:70663768-70669416	OK	37.4946	55.5262
Apol8	chr15:77748612-77755229	OK	1.6896	2.50189
Luc7l2	chr6:38551443-38609470	OK	24.3159	35.9973
Mbnl2	chr14:120275668-120431698	OK	153.729	227.483
Atp8b5	chr4:43267158-43373831	NOTEST	0.28433	0.420719
Pkp4	chr2:59160849-59355205	OK	10.2769	15.2051
Angptl6	chr9:20868641-20879710	OK	2.87352	4.25075
Adipoq	chr16:23146535-23157968	NOTEST	0.0511444	0.0756559
Tifa	chr3:127789912-127798389	OK	10.1599	15.0286
Banp	chr8:121950491-122029260	OK	2.47605	3.66254
Cisd3	chr11:97685951-97688625	OK	49.365	73.0155
Zfp185	chrX:72987338-73031543	NOTEST	0.164085	0.242667
Tex9	chr9:72438528-72491959	OK	2.43912	3.60723
Pgls	chr8:71592183-71596267	OK	25.0058	36.9778
6230400D17Rik	chr14:20702011-20704425	NOTEST	0.137109	0.202722
Supt4a	chr11:87737564-87743617	OK	11.9622	17.6854
Insl5	chr4:103017872-103026842	NOTEST	0.108309	0.160116
Abcg3	chr5:104935056-104982717	NOTEST	0.0863284	0.127613
Stk38	chr17:28970884-29007937	OK	5.05226	7.46493
Cngb1	chr8:95239042-95306585	NOTEST	0.104887	0.154942
Zfp738	chr13:67667440-67683512	OK	5.01256	7.40435
Stat2	chr10:128270575-128292849	OK	16.6849	24.6435
Cnr2	chr4:135895403-135920210	NOTEST	0.0557413	0.0823272
Lyar	chr5:38220481-38234306	OK	5.02996	7.42635
Cml2	chr6:85865421-85869137	NOTEST	0.0703631	0.103874
Tmem51os1	chr4:142030992-142088101	NOTEST	0.123536	0.182359
H2-Q5	chr17:35394098-35395630	NOTEST	0.250321	0.369467
Sh2b2	chr5:136218148-136244903	OK	1.10066	1.62434
Smim22	chr16:5007287-5008308	NOTEST	0.0746206	0.110121
Gp1bb	chr16:18620318-18629938	OK	4.2694	6.29974
AK010878	chr12:102739829-102757810	OK	3.66408	5.40642
Hdac10	chr15:89123302-89128700	OK	6.36098	9.3837
Camkk2	chr5:122731169-122779410	OK	8.01091	11.814
Igsf9	chr1:172482212-172498877	NOTEST	0.29145	0.429707
Rbfox1	chr16:5884792-7412480	OK	64.6056	95.2511
Wdr81	chr11:75440942-75454717	OK	5.05487	7.45098
Fam107b	chr2:3713457-3782134	OK	25.2766	37.2577
Tpcn2	chr7:145253922-145283927	OK	1.81071	2.66721
Zfp354a	chr11:51059256-51072799	OK	1.13541	1.67212
A230050P20Rik	chr9:20868641-20879710	OK	6.21831	9.15741
Hspb11	chr4:107253933-107279888	OK	11.2415	16.5544
Lpar2	chr8:69822564-69831102	NOTEST	0.0595496	0.0876802
Dnajc17	chr2:119172499-119217050	OK	2.3246	3.42256
Cd34	chr1:194938820-194976959	OK	28.4079	41.8246
Nin	chr12:70011434-70112035	OK	3.63201	5.34412
Cobl	chr11:12236675-12464960	OK	17.9751	26.443
Rnf44	chr13:54679398-54693960	OK	24.5711	36.1367
Abcc6	chr7:45976379-46030286	NOTEST	0.057943	0.0852076
St6galnac2	chr11:116676704-116694660	OK	1.33579	1.96419
9930012K11Rik	chr14:70154404-70159502	OK	1.57709	2.31885
Ccdc151	chr9:21989870-22002634	NOTEST	0.515855	0.758197
Pitpnm2	chr5:124118688-124249760	OK	45.5515	66.9324

Trpv1	chr11:73238258-73260507	OK	44.4312	65.284
Scn9a	chr2:66440879-66634962	OK	62.9032	92.4137
Fbxl12	chr9:20637748-20646789	OK	2.62144	3.85075
Ckap5	chr2:91546321-91620665	OK	65.4555	96.1479
Rtel1	chr2:181319723-181356616	OK	2.75321	4.04381
Plekho1	chr3:95988835-95995839	OK	14.9052	21.8915
9330159F19Rik	chr10:29211642-29230779	OK	15.8453	23.2708
Ppp1r35	chr5:137778917-137780107	OK	11.3607	16.6823
Cyb5	chr18:84851413-84879863	OK	62.8847	92.3353
Zbtb44	chr9:31030643-31075885	OK	3.25902	4.78517
Qdpr	chr5:45434031-45450229	OK	99.2172	145.677
Ptpr	chr10:116018362-116274929	OK	16.5822	24.3457
BC029214	chr2:25459487-25461094	OK	11.302	16.5926
Lonrf1	chr8:36216063-36249516	OK	10.4328	15.3163
Dync1i2	chr2:71211705-71263302	OK	193.489	283.99
Arhgef18	chr8:3393007-3456600	OK	10.6964	15.6957
Trmt1	chr8:84689246-84699808	OK	13.0528	19.1533
Chrm4	chr2:91922188-91932297	OK	3.58217	5.25588
Nox1	chrX:134059175-134111854	NOTEST	0.0282179	0.0413998
Nubpl	chr12:52097745-52310959	OK	3.3522	4.91656
Dapk3	chr10:81183006-81193197	OK	19.0629	27.9537
Snhg4	chr18:35553409-35558316	OK	2.79508	4.09807
Ankra2	chr13:98263075-98274754	OK	12.5703	18.4289
Kdelc2	chr9:53384022-53401867	OK	7.81401	11.4544
Dolpp1	chr2:30392253-30415748	OK	17.1587	25.1523
Gpr176	chr2:118277097-118373419	OK	4.60399	6.74846
Lats2	chr14:57689661-57746123	OK	16.3859	24.0178
Ppp1r3fos	chrX:7558561-7605420	NOTEST	0.129776	0.190187
Nme4	chr17:26091744-26095470	OK	1.57283	2.30358
Sec61g	chr11:16501637-16508484	NOTEST	0.185685	0.271918
Srsf9	chr5:115327176-115333080	OK	16.2144	23.7426
A530050N04Rik	chr18:61470224-61484607	NOTEST	0.0680609	0.0996316
Ypel3	chr7:126776974-126780514	OK	172.622	252.694
Rfc5	chr5:117379144-117389023	OK	1.04113	1.52343
Snx8	chr5:140340302-140389247	OK	7.75645	11.3485
Parp11	chr6:127453722-127494239	OK	6.90991	10.1097
Gramd1c	chr16:43980349-44027945	OK	0.746601	1.09217
Slc35f5	chr1:125561015-125595684	OK	16.6209	24.3104
Apex2	chrX:150571506-150588149	OK	1.86546	2.72847
Calcb	chr7:114718642-114723365	OK	149.559	218.746
Pola2	chr19:5940542-5964206	OK	3.31138	4.84181
Agfg1	chr1:82839482-82896275	OK	34.9572	51.1127
Mrps6	chr16:92058321-92112227	OK	67.3982	98.5301
Ezh2	chr6:47530273-47595030	OK	1.33608	1.95311
Sema4b	chr7:80186840-80226524	OK	13.6083	19.8928
Mtmt14	chr6:113237842-113281392	OK	12.4944	18.2575
2610203C20Rik	chr9:41581338-41592487	OK	3.82917	5.59503
BC030867	chr11:102248881-102265183	OK	0.735324	1.07434
Kcnab1	chr3:65109367-65378225	OK	62.6625	91.5469
Trappc5	chr8:3676476-3680921	OK	16.9854	24.8138
Tspan1	chr4:116161880-116167598	NOTEST	0.339165	0.495283
Epb4.1I5	chr1:119545032-119649000	OK	1.76095	2.57117
Zbtbd6	chr14:79451834-79454816	NOTEST	0.167491	0.244554

Nfkbil1	chr17:35220174-35235815	OK	4.65952	6.80322
Smad1	chr8:79338397-79399468	OK	18.7824	27.4135
Stk19	chr17:34823992-34836903	OK	12.6746	18.496
AI414108	chr9:27352684-27357543	OK	4.409	6.43253
Gigyf1	chr5:137518879-137527935	OK	5.54022	8.08072
Spag8	chr4:43651329-43653552	NOTEST	0.0669435	0.0976352
Pcdha9	chr18:36930284-37841872	OK	3.59346	5.24097
Cyp26b1	chr6:84571413-84593908	OK	0.785081	1.14473
Osbpl3	chr6:50293326-50456170	OK	72.5162	105.722
Mafg	chr11:120628350-120633547	OK	32.091	46.7751
Gpr61	chr3:108148320-108154882	OK	3.41303	4.97401
Lactb	chr9:66955392-66975484	OK	5.4702	7.97193
Nr6a1	chr2:38723373-38926461	OK	1.75352	2.55541
Map4k5	chr12:69746847-69987002	OK	9.63466	14.0396
Usp49	chr17:47630689-47684067	OK	2.88631	4.2056
Prkx	chrX:77762029-77795960	OK	33.6808	49.0589
A230001M10Rik	chr3:102262404-102288771	NOTEST	0.0225575	0.0328548
Fkbp1b	chr12:4833173-4841595	OK	148.646	216.491
Tada1	chr1:166379166-166409828	OK	7.64726	11.1373
AI846148	chr19:7356463-7383557	OK	5.97281	8.69812
Dvl1	chr4:155847411-155863353	OK	19.568	28.4874
Tfrc	chr16:32608895-32632794	OK	39.5258	57.5397
Eif1a	chr18:46597703-46610225	OK	27.7249	40.3572
Cacna1c	chr6:118587239-119221614	OK	9.59312	13.9583
Zbtb10	chr3:9250566-9285332	OK	5.22701	7.60495
Tom1l1	chr11:90638183-90687601	OK	6.08732	8.85652
Lsr	chr7:30957769-30973469	OK	1.3919	2.02504
Uchl4	chr9:64185792-64253605	OK	2.80209	4.07635
Hcn4	chr9:58823511-58860955	OK	2.98992	4.34958
Cd97	chr8:83715176-83741311	OK	4.50125	6.54818
Batf3	chr1:191098413-191108943	NOTEST	0.232656	0.338444
Nmi	chr2:51948498-51973208	OK	5.88805	8.56401
Ppapdc1b	chr8:25720047-25724887	OK	7.2064	10.4803
Pkd1l2	chr8:116995678-117082449	NOTEST	0.333985	0.485692
Pcdhgb8	chr18:36930284-37841872	NOTEST	0.111672	0.16235
Stt3b	chr9:115242581-115310421	OK	52.5974	76.464
Snhg8	chr3:123507551-123508336	OK	4.87253	7.08303
Mrpl57	chr14:57826238-57828745	OK	6.15684	8.94847
9430038I01Rik	chr7:137375568-137410756	OK	1.33467	1.93959
Prorsd1	chr11:29511756-29515033	OK	1.64695	2.3929
Hoxa1	chr6:52155366-52158317	NOTEST	0.384025	0.557952
Gin1	chr1:97770178-97792971	OK	2.65175	3.85248
Ift140	chr17:25016085-25099497	OK	9.00213	13.0779
A230070E04Rik	chr14:68119544-68131371	OK	3.66033	5.31724
Man1c1	chr4:134561689-134704290	OK	11.7934	17.1298
Mocs3	chr2:168230621-168232303	OK	3.94548	5.73004
Slco4a1	chr2:180460977-180474853	OK	0.637311	0.925529
2010320M18Rik	chr8:70776861-70777606	OK	5.68499	8.25559
Acap3	chr4:155891874-155907251	OK	17.9243	26.0286
9030404E10Rik	chr16:30021841-30039479	NOTEST	0.295652	0.429286
Enkur	chr2:21180730-21205365	NOTEST	0.448249	0.650732
Lmo2	chr2:103957994-103981878	OK	7.33895	10.6538
Cenpl	chr1:161070891-161086343	OK	2.18284	3.16838

Mob3a	chr10:80685252-80701820	OK	11.4418	16.606
Pkp2	chr16:16213344-16272712	OK	0.660413	0.958338
B230217O12Rik	chr19:57323196-57360899	OK	7.49357	10.8704
2610001J05Rik	chr6:13869073-13871483	OK	24.2599	35.1801
Acy1	chr9:106432980-106438236	OK	2.72193	3.94709
Zfp672	chr11:58315113-58330339	OK	6.21443	9.00781
Ctla2b	chr13:60895350-60897447	OK	0.679424	0.984823
Slc22a18	chr7:143473754-143499332	OK	8.93671	12.9535
Clk3	chr9:57750710-57765860	OK	15.8202	22.9306
Kcnj12	chr11:61022563-61073267	OK	16.4833	23.884
Armcx4	chrX:134686518-134697772	OK	6.12125	8.86916
Manf	chr9:106887414-106891938	OK	24.9568	36.1477
Syn3	chr10:86048745-86498896	OK	2.27674	3.29707
Fbl	chr7:28169747-28179269	OK	1.53098	2.21709
Elavl3	chr9:22015004-22052023	OK	44.9874	65.1393
Cdcp2	chr4:107096890-107107748	NOTEST	0.0285264	0.0412959
Rad17	chr13:100617163-100651061	OK	5.9386	8.59581
Macrodl	chr19:7056767-7198062	OK	8.26483	11.9622
Arrdc1	chr2:24925351-24935281	OK	13.7101	19.8421
Gale	chr4:135965164-135968178	OK	15.4659	22.3793
Sdk2	chr11:113780789-114065951	OK	2.22798	3.22379
BC018507	chr13:70588688-70637634	OK	11.6618	16.8697
Gps2	chr11:69914191-69916591	OK	6.64755	9.61502
Wsb1	chr11:79239381-79254695	OK	20.0619	29.0089
Stard6	chr18:70453139-70501065	NOTEST	0.511805	0.740048
Wdr63	chr3:146040525-146108036	NOTEST	0.0439004	0.0634777
Stat6	chr10:127642985-127666703	OK	32.3504	46.7627
Mettl7a1	chr15:100304816-100314348	OK	23.4961	33.9637
Dcaf15	chr8:84097071-84104762	OK	5.30522	7.66809
Sdccag8	chr1:176814659-177020432	OK	4.78159	6.91049
Otop2	chr11:115307162-115332303	NOTEST	0.0317027	0.0458119
Zfp830	chr11:82764344-82767622	OK	3.03104	4.37979
Hagh	chr17:24850489-24864450	OK	84.8859	122.645
Rrnad1	chr3:87919543-87930195	OK	3.29586	4.76133
Mllt10	chr2:18055236-18392830	OK	3.54844	5.1258
Dnajc5b	chr3:19508594-19610862	OK	0.627185	0.905676
Ppwd1	chr13:104205121-104249622	OK	2.12397	3.06678
Frrs1	chr3:116859566-116903750	NOTEST	0.241398	0.348477
Pik3cd	chr4:149649167-149701629	OK	16.6954	24.0902
Mink1	chr11:70562880-70614482	OK	49.6519	71.6285
Tnfsf15	chr4:63724602-63745113	NOTEST	0.0489758	0.0706518
Piezo2	chr18:63010212-63387183	OK	69.1812	99.7844
Syng3	chr17:24685091-24689949	OK	119.336	172.041
S100g	chrX:162407199-163352564	NOTEST	0.299614	0.431928
Rslcan18	chr13:67069397-67114028	NOTEST	0.377323	0.543947
Ikzf1	chr11:11686212-11772926	OK	0.756303	1.09001
Wdr34	chr2:30031557-30048879	OK	5.4294	7.82499
Tmem191c	chr16:17276299-17278661	OK	1.82621	2.63196
Atxn7l2	chr3:108202227-108210527	OK	1.51264	2.17897
Adc	chr4:128932145-128962417	OK	50.9081	73.3322
Rbm4	chr19:4784292-4811634	OK	2.97613	4.28433
4933407K13Rik	chrX:75725457-75764699	NOTEST	0.374911	0.539702
Mtmr1	chrX:71364759-71419196	OK	6.0012	8.6356

Chd3	chr11:69343272-69369426	OK	42.2012	60.7024
Ism1	chr2:139678177-139758581	OK	1.55308	2.23392
Crmp1	chr5:37242057-37292163	OK	47.7852	68.7267
Zfp292	chr4:34803109-34882948	OK	3.20163	4.60445
Lifr	chr15:7129571-7197489	OK	114.786	165.066
Paqr3	chr5:96997688-97111596	OK	5.26985	7.57818
Vps4b	chr1:106770787-106796725	OK	41.5721	59.7737
Vamp4	chr1:162570827-162599078	OK	46.4784	66.8229
Fam89b	chr19:5728086-5729666	OK	90.3686	129.917
Plekha3	chr2:76675314-76697335	OK	12.8034	18.4039
Csrnp3	chr2:65845766-66031546	OK	12.4917	17.9557
Mtss1	chr15:58941233-59082026	OK	16.2765	23.3956
Rnf38	chr4:44126211-44168283	OK	14.332	20.5985
Tpgs1	chr10:79669409-79676126	OK	35.3231	50.7672
Irg1	chr14:103047011-103056573	NOTEST	0.0647707	0.0930858
1810043H04Rik	chr11:120098933-120100424	OK	15.1193	21.7277
Ap4m1	chr5:138172020-138187186	OK	7.84564	11.2741
Prmt2	chr10:76207221-76237865	OK	52.9646	76.1078
Atxn7	chr14:14012490-14107301	OK	3.08926	4.43911
Fbxl8	chr8:105264647-105269326	OK	2.22	3.18958
Pnp	chr14:50944302-50953412	OK	2.70447	3.8851
Mef2a	chr7:67231162-67372858	OK	34.2831	49.2413
5031434O11Rik	chr3:51515317-51567116	NOTEST	0.485366	0.696998
Cpm	chr10:117629499-117687352	NOTEST	0.359756	0.516544
Meig1	chr2:3409042-3422648	NOTEST	0.384979	0.55263
Irf9	chr14:55603984-55610030	OK	7.31944	10.5061
Mcf2l	chr8:12915892-13020509	OK	19.5324	28.0354
Fbrs	chr7:127485220-127491513	OK	8.22476	11.805
Hras	chr7:141189933-141194004	OK	38.365	55.058
Gm10548	chr18:34207774-34322190	NOTEST	0.160735	0.230633
Ralbp1	chr17:65848427-65885755	OK	42.8336	61.4597
Cdyl2	chr8:116568723-116732991	OK	4.68642	6.72307
Gprin2	chr14:34194440-34201633	OK	1.91258	2.74356
Acly	chr11:100476351-100528000	OK	179.654	257.651
Parp8	chr13:116854823-117025516	OK	10.6559	15.282
Adamts16	chr13:70727807-70841810	NOTEST	0.177408	0.254292
Efcab1	chr16:14906645-14924522	OK	4.12463	5.91189
Osbpl6	chr2:76406507-76600647	OK	11.5383	16.5378
Rbm15b	chr9:106883984-106887000	OK	11.6606	16.7126
Krt10	chr11:99385255-99389364	OK	0.85731	1.22871
Pdcd2	chr17:15521574-15527301	OK	14.9354	21.3988
Zmym5	chr14:56790584-56811716	OK	6.13444	8.78902
Bid	chr6:120893118-120916820	OK	14.7088	21.073
Klc4	chr17:46630630-46645144	OK	13.6605	19.5641
Pdcl3	chr1:38987813-38997236	OK	19.9361	28.5505
Mapkapk5	chr5:121525050-121545892	OK	10.3439	14.8117
Rab39	chr9:53684109-53706232	OK	13.4018	19.1896
2610034B18Rik	chr7:79925358-79935264	OK	13.438	19.2392
Swt1	chr1:151367698-151428435	OK	3.0396	4.34853
Gyltl1b	chr2:92365045-92371057	NOTEST	0.179613	0.256935
Hirip3	chr7:126861971-126865122	OK	2.21249	3.16467
Mapk11	chr15:89142483-89149606	OK	45.9643	65.7406
Abrac1	chr10:18011259-18023252	OK	9.07583	12.9794

Ccdc163	chr4:116708929-116715104	OK	1.60762	2.29896
Epcam	chr17:87635978-87651127	NOTEST	0.0288899	0.0413117
Lag3	chr6:124904358-124911705	NOTEST	0.351513	0.502418
Rplp1	chr9:61913282-61914510	OK	155.792	222.639
Map3k14	chr11:103219763-103267401	OK	1.65534	2.36525
Bag1	chr4:40936397-40948294	OK	97.2731	138.966
Vamp2	chr11:69088527-69092381	OK	297.805	425.344
Actr5	chr2:158624912-158639211	OK	1.89787	2.70969
Hn1	chr11:115497352-115514370	OK	82.0384	117.124
Fam72a	chr1:131527988-131539872	NOTEST	0.42842	0.611549
Mnt	chr11:74830923-74845725	OK	12.3251	17.5931
Usp12	chr5:146734811-146794956	OK	31.9607	45.6159
Mnda	chr1:173896354-173912922	NOTEST	0.0474549	0.0677252
Slc1a6	chr10:78780495-78814825	OK	3.40324	4.8567
Aff3	chr1:38175990-38664955	OK	17.6851	25.2298
Nxf1	chr19:8757102-8770910	OK	13.2228	18.8631
Hist3h2a	chr11:58954684-58955192	OK	24.8845	35.4986
Syt10	chr15:89782392-89841860	NOTEST	0.427605	0.609869
Gpatch11	chr17:78835515-78848308	OK	10.4553	14.9091
H2-Ke2	chr17:33938908-33940343	OK	48.1597	68.6696
Usp18	chr6:121245905-121270917	OK	1.76193	2.51223
Gm10640	chr7:31162357-31170641	NOTEST	0.432879	0.617212
Lsmem1	chr12:40176385-40199315	NOTEST	0.121236	0.172858
Ank3	chr10:69533707-70027436	OK	35.381	50.4455
Nvl	chr1:181093422-181144157	OK	9.32227	13.2909
Dazap1	chr10:79697304-80369637	OK	19.3674	27.5978
Fbxw4	chr19:45560614-45660193	OK	7.58817	10.8107
Abhd5	chr9:122351615-122381523	OK	12.9743	18.4828
Vti1b	chr12:79130787-79172458	OK	90.9311	129.531
Disp2	chr2:118779718-118795175	OK	73.9096	105.246
Zfp428	chr7:24507086-24515682	OK	11.2079	15.9564
Tmcc3	chr10:94514856-94590954	OK	11.6272	16.5511
Lrriq4	chr3:30624266-30672431	NOTEST	0.0619921	0.0882316
Zkscan6	chr11:65807243-65829239	OK	3.31061	4.71113
Atg16l1	chr1:87756010-87792428	OK	19.8535	28.2506
Grrp1	chr4:134251109-134254106	OK	1.40555	1.99982
Polk	chr13:96480688-96542485	OK	3.0217	4.29928
4921504A21Rik	chr5:19202367-19226555	OK	0.908255	1.2922
2610015P09Rik	chr16:43889901-43964314	OK	1.04686	1.48868
Rnf31	chr14:55591789-55603671	OK	6.4684	9.19813
Mcmdc2	chr1:9908637-9940954	NOTEST	0.125468	0.178392
D630041G03Rik	chr7:4464734-4480487	OK	0.936911	1.33208
Mtm1	chrX:71210766-71315295	OK	5.49765	7.81386
Eif4e3	chr6:99625136-99666771	OK	19.9244	28.3177
Prkrip1	chr5:136180356-136198954	OK	8.96851	12.7464
Tmem236	chr2:14174523-14221993	NOTEST	0.188372	0.267708
Gm6654	chr6:146642578-146650600	OK	1.7506	2.4879
Filip1	chr9:79815561-79977882	OK	10.1256	14.3897
Rps8	chr4:117153835-117156132	OK	13.046	18.5398
Ubn2	chr6:38433924-38512763	OK	2.21575	3.14875
Ccp110	chr7:118712610-118737018	OK	25.5579	36.3123
Zfp954	chr7:7114682-7121476	OK	6.96264	9.89205
Erich1	chr8:14027564-14090327	OK	4.80446	6.82583

Galk2	chr2:125859108-126152004	OK	8.13237	11.5501
Zfp703	chr8:26977335-26981462	OK	13.1554	18.6828
Tubb5	chr17:35833919-35838301	OK	471.615	669.754
Crhr2	chr6:55090048-55133016	OK	0.646077	0.917498
Slc6a20b	chr9:123593819-123632565	NOTEST	0.00521741	0.00740801
Mettl7a2	chr15:100353199-100384435	NOTEST	0.115229	0.163587
Cmss1	chr16:57301999-57606867	OK	6.77617	9.61968
Slc45a2	chr15:11000720-11029233	NOTEST	0.00578851	0.00821685
Gm3414	chr5:45669924-45857540	OK	0.598485	0.849354
Atg9a	chr1:75180860-75192010	OK	39.6846	56.3117
Ahsa2	chr11:23306894-23498039	OK	15.1332	21.47
Ppp3cc	chr14:70217897-70289449	OK	22.3936	31.7634
Gm13152	chr4:147175865-147513420	OK	3.7816	5.36349
5330426P16Rik	chr16:50726750-50732773	OK	8.85221	12.5546
Luzp2	chr7:54835244-55268888	OK	37.6919	53.456
Ccdc82	chr9:13246978-13292353	OK	4.09531	5.80804
Vbp1	chrX:75514296-75534946	OK	65.5777	92.9922
Ccdc34	chr2:110017816-110050479	OK	3.50591	4.97095
Arhgap6	chrX:168795098-169304440	OK	0.822603	1.16633
Tmem254c	chr14:26202666-26207041	LOWDAT	1.0712	1.51862
Lrrc8b	chr5:105415774-105486189	OK	23.9728	33.9846
Oraov1	chr7:144915193-144921137	OK	17.0228	24.1311
Rbck1	chr2:152316333-152332639	OK	22.3785	31.7197
Mvd	chr8:122433595-122443422	OK	26.4792	37.5228
Map3k19	chr1:127815270-127840290	NOTEST	0.0102984	0.0145918
Elk3	chr10:93247415-93311159	OK	2.88601	4.08918
Zfp583	chr7:6315664-6330434	OK	1.39258	1.97302
A530032D15Rik	chr1:85088138-85109853	NOTEST	0.0103433	0.0146534
Xkr4	chr1:3214481-3671498	OK	1.76403	2.49894
Nup62	chr7:44812255-44849079	OK	12.5044	17.709
Chit1	chr1:134111241-134151540	NOTEST	0.310582	0.439801
AI317395	chr10:40001572-40025268	NOTEST	0.350981	0.496948
Dnajc12	chr10:63382442-63408840	OK	12.1688	17.2295
A630066F11Rik	chr10:7630235-7664623	OK	1.06466	1.50717
9530080O11Rik	chr4:95959710-96024274	NOTEST	0.596687	0.844581
Zfp72	chr13:74371425-74376566	OK	2.35101	3.32719
Zfp280d	chr9:72274898-72363771	OK	4.81193	6.80743
Ston2	chr12:91633008-91786436	OK	5.10969	7.22744
Slc7a6os	chr8:106200437-106210933	OK	7.03739	9.95409
Fgfr1op	chr17:8165517-8196470	OK	9.01349	12.7473
Uros	chr7:133686329-133709295	OK	17.4614	24.6946
Id2	chr12:25093798-25096092	OK	19.5332	27.6187
Gm16039	chr6:8259287-8428765	OK	4.48202	6.33675
Tial1	chr7:128439776-128461513	OK	12.6382	17.8679
Asun	chr6:146549631-146577835	OK	4.26957	6.03607
Fxyd6	chr9:45370184-45396159	OK	44.4407	62.827
BC005561	chr5:104508351-104522383	OK	1.83551	2.59457
9330151L19Rik	chr12:69189837-69199868	OK	2.68853	3.79898
Wiz	chr17:32354049-32389439	OK	11.9526	16.8852
Phactr1	chr13:42680622-43138512	OK	40.4785	57.1806
Sync	chr4:129287620-129335370	OK	13.6861	19.3308
Pxmp2	chr5:110274285-110286168	OK	4.10718	5.80112
Ell	chr8:70539674-70592858	OK	3.7874	5.3487

Ppp1r3d	chr2:178411205-178414463	OK	2.58267	3.64728
Slc40a1	chr1:45908069-45925594	OK	1.35597	1.91408
Trak2	chr1:58900449-58973482	OK	19.1665	27.0416
Trub1	chr19:57452905-57491005	OK	4.60372	6.49487
Spats1	chr17:45448936-45474938	OK	0.75738	1.06832
Gas8	chr8:123518834-123536650	OK	12.9089	18.2067
1110004E09Rik	chr16:90925810-90934849	OK	12.6543	17.845
Rpl6	chr5:121204500-121209241	OK	10.8548	15.3047
Il17ra	chr6:120463196-120483727	OK	0.750577	1.05827
Pcdha12	chr18:36930284-37841872	OK	5.30783	7.4829
Tpk1	chr6:43345006-43666175	OK	4.35597	6.14078
1700034H15Rik	chr1:191894071-191913247	NOTEST	0.0892086	0.125759
Mapk1ip1	chr7:138835817-138846267	OK	12.395	17.471
3110052M02Rik	chr17:21650610-21664966	OK	3.3472	4.71746
Mfsd4	chr1:132026620-132068062	OK	2.32517	3.27624
Zswim3	chr2:164805113-164822127	OK	3.36949	4.74768
Camta1	chr4:151059522-151861768	OK	51.8152	72.9913
Snopc3	chr4:83417743-83453340	OK	5.56421	7.83753
Abi1	chr2:22895521-23040241	OK	33.5948	47.3164
Aaed1	chr13:64291835-64312710	OK	9.72587	13.696
Fam53c	chr18:34758905-34773760	OK	26.3526	37.1072
Appl2	chr10:83600033-83648664	OK	11.33	15.9507
Caskin1	chr17:24488782-24527938	OK	39.4771	55.5718
Wbp4	chr14:79459936-79582491	OK	28.3761	39.9319
Cr2	chr1:195136810-195176715	NOTEST	0.0975075	0.137196
Anapc11	chr11:120598420-120608198	OK	20.2961	28.5567
Hoxa4	chr6:52169061-52213597	OK	1.78307	2.50852
Xbp1	chr11:5520640-5525993	OK	27.5776	38.7894
Zfp551	chr7:12415148-12422491	OK	1.15949	1.63074
Nle1	chr11:82900767-82908395	OK	3.30703	4.65047
Prpf38b	chr3:108902806-108911704	OK	11.3195	15.9164
Dalrd3	chr9:108569891-108578670	OK	17.1618	24.1304
Pmm1	chr15:81951105-81960930	OK	113.605	159.725
Stx4a	chr7:127841807-127848965	OK	36.1617	50.8392
Tmem51	chr4:142030992-142088101	OK	7.24301	10.1825
Fbxl16	chr17:25809084-25821265	OK	36.6526	51.517
Pydc3	chr1:173673679-173698392	NOTEST	0.220941	0.310499
Mospd1	chrX:53344593-53370559	OK	10.0979	14.1782
Mrpl27	chr11:94653790-94660087	OK	27.5473	38.6708
Hexim1	chr11:103116324-103119724	OK	20.4274	28.6751
Mtfr1l	chr4:134525554-134535387	OK	58.7917	82.5182
Parp12	chr6:39086411-39118349	OK	5.5328	7.76485
Rbm17	chr2:11585438-11603199	OK	23.8079	33.4116
Brap	chr5:121660562-121687249	OK	67.1932	94.2934
Mcf2	chr17:87254442-87265947	OK	34.8722	48.9333
Uhrf1bp1l	chr10:89744990-89819869	OK	26.7892	37.5872
Rac2	chr15:78559168-78572783	NOTEST	0.530068	0.743621
Pagr1a	chr7:127015050-127017352	OK	22.5466	31.6268
Psip1	chr4:83455680-83486448	OK	53.8812	75.5798
Srrt	chr5:137295703-137307674	OK	20.0831	28.1688
Meis3	chr7:16175324-16186503	OK	12.8154	17.973
Zfp541	chr7:16071941-16096328	NOTEST	0.032677	0.0458204
Wdsub1	chr2:59852364-59882606	OK	7.62131	10.6866

B4galnt2	chr11:95863558-95914871	NOTEST	0.017972	0.0251925
Grik4	chr9:42520411-42944371	OK	21.2993	29.8478
H2-M10.2	chr17:36284280-36286421	NOTEST	0.236408	0.331287
Trappc6a	chr7:19508728-19516145	OK	12.3801	17.3478
Rpl14	chr9:120571516-120574653	OK	35.4235	49.6326
Hspb8	chr5:116408494-116422864	OK	182.092	255.11
AA987161	chr13:67589438-67609707	OK	2.93915	4.11721
Dis3	chr14:99076633-99254494	OK	2.82368	3.95529
Ino80d	chr1:63047800-63114267	OK	4.23319	5.92848
Rad9a	chr19:4192173-4201603	OK	5.01771	7.0268
2310003H01Rik	chr11:120369561-120378746	OK	5.54477	7.7626
Tubb2a	chr13:34074279-34078008	OK	416.262	582.717
Pnlcd1	chr17:12888901-12910000	NOTEST	0.143517	0.200903
Fam109a	chr5:121849027-121854599	OK	4.31392	6.03762
Fbrsl1	chr5:110361751-110448503	OK	3.83912	5.37227
Tprgl	chr4:154157484-154160684	OK	155.234	217.185
Cbwd1	chr19:24919915-24961616	OK	9.0559	12.6689
Il10rb	chr16:91406234-91425834	OK	35.3498	49.4475
Hoxb5	chr11:96303511-96306121	OK	12.61	17.6386
Pdzd4	chrX:73793356-73824969	OK	26.6612	37.2805
Zmynd8	chr2:165784151-165884838	OK	12.8708	17.9967
Sltm	chr9:70542777-70592232	OK	13.8618	19.3794
Igsf3	chr3:101377124-101463060	OK	20.2002	28.2404
Xrcc1	chr7:24547149-24573438	OK	4.85142	6.78215
Bloc1s3	chr7:19505803-19508331	OK	9.23593	12.9097
C920006O11Rik	chr9:78175913-78178882	OK	0.925989	1.29421
Hs1bp3	chr12:8313432-8343824	OK	6.48483	9.06338
Samd10	chr2:181595217-181599147	OK	13.8844	19.4025
Chkb	chr15:89416404-89429927	OK	14.3995	20.1222
Trim36	chr18:46165299-46212607	OK	102.244	142.868
Rps9	chr7:3704040-3706897	OK	256.585	358.524
H2afy2	chr10:61715262-61783864	OK	6.40726	8.95271
Med20	chr17:47611595-47624418	OK	11.7212	16.3752
Icosl	chr10:78069367-78079525	OK	1.28892	1.80038
Ahnak	chr19:8989283-9076926	OK	71.7617	100.229
Tceal8	chrX:136168983-136172251	OK	18.8363	26.3065
Dpp3	chr19:4907228-4928287	OK	38.1008	53.2072
Rdh1	chr10:127759762-127768299	NOTEST	0.0514426	0.071793
Evi5l	chr8:4166566-4193701	OK	28.7361	40.1024
B3gnt2	chr11:22834738-22860336	OK	27.2413	38.0157
Pex6	chr17:46711462-46725541	OK	13.4689	18.7945
Gm20748	chr18:61639652-61665538	OK	3.69491	5.15585
Mllt3	chr4:87769924-88033407	OK	7.56646	10.5558
Pde6h	chr6:136954522-136963483	NOTEST	0.0456172	0.0636397
Eepd1	chr9:25481596-25604110	OK	73.2067	102.129
Pifo	chr3:105996956-106014646	OK	0.594813	0.829726
Hist1h2bl	chr13:21715712-21716143	NOTEST	0.450853	0.628871
Lrrc42	chr4:107233513-107253533	OK	14.5577	20.3054
Tcte1	chr17:45523433-45549677	NOTEST	0.0785255	0.10949
Gm16793	chr8:35582502-35679449	OK	0.991707	1.38238
Tmtc4	chr14:122918974-122983261	OK	11.5131	16.0471
Nol12	chr15:78934932-78941910	OK	5.15974	7.19146
Wnt9a	chr11:59306929-59333552	OK	4.51122	6.28726

Rab43	chr6:87788852-87812164	OK	4.2093	5.86575
Zfp605	chr5:110110091-110129794	OK	2.81767	3.92582
Esm1	chr13:113209658-113218104	OK	0.623328	0.868397
Gm6297	chr4:40720153-40757885	NOTEST	0.336488	0.468695
Tgm7	chr2:121093588-121109791	NOTEST	0.03634	0.0506142
3110082I17Rik	chr5:139359738-139460534	OK	2.7556	3.83795
Rpl38	chr11:114344525-114757886	OK	5.26964	7.3374
Gtf2f1	chr17:57003401-57011288	OK	28.8616	40.172
Lin54	chr5:100442034-100500639	OK	4.7792	6.65158
Itga3	chr11:95044481-95076714	OK	22.0751	30.7228
Armc7	chr11:115475676-115491814	OK	3.27795	4.56181
Atp6v1f	chr6:29467782-29470509	OK	124.491	173.238
Nob1	chr8:107412488-107425038	OK	10.2681	14.288
Donson	chr16:91679264-91688728	OK	4.74397	6.60032
Cdca4	chr12:112820234-112829389	OK	2.16774	3.0145
Chrne	chr11:70614882-70619194	NOTEST	0.0533093	0.0741268
Mia2	chr12:59095799-59109130	NOTEST	0.283968	0.394836
Rpl31-ps12	chr16:16753015-16829363	OK	12.5483	17.4462
Soga3	chr10:29143995-29199628	OK	59.4795	82.6734
Galnt5	chr2:57998154-58039171	OK	10.9062	15.1582
Coil	chr11:88973934-88991613	OK	6.43097	8.93779
Gtse1	chr15:85859706-85876573	NOTEST	0.368939	0.512753
Rnf141	chr7:110816534-110844381	OK	14.111	19.6112
Deptor	chr15:55099916-55259273	OK	32.8412	45.6376
2210404O09Rik	chr17:21879569-21909926	OK	1.92696	2.67779
Isl1	chr13:116298269-116309688	OK	36.9439	51.3377
Nav1	chr1:135434579-135585355	OK	22.5518	31.3373
Yeats2	chr16:20141062-20232573	OK	3.5603	4.94718
Pvrl2	chr7:19716643-19749573	OK	18.6158	25.8673
Nexn	chr3:152236983-152266320	OK	7.9376	11.0262
Zfp791	chr8:85109166-85123095	OK	0.767449	1.06606
Ttc25	chr11:100545631-100572566	NOTEST	0.542033	0.752926
Tonsl	chr15:76626236-76639929	OK	2.24231	3.11475
Mllt11	chr3:95181765-95236424	OK	111.528	154.918
Pik3ip1	chr11:3202352-3479831	OK	44.727	62.1215
Ap5z1	chr5:142463930-142478715	OK	6.29698	8.74566
Lrnf4	chr19:4510471-4621752	OK	10.7135	14.8768
Mphosph6	chr8:117791644-117801929	OK	5.70747	7.92438
Cdk5r2	chr1:74855028-74857732	OK	80.2391	111.395
Anxa2	chr9:69453682-69491785	OK	723.856	1004.83
Mfn1	chr3:32529481-32579225	OK	18.105	25.1295
Psme2b	chr11:48945351-48979398	OK	26.6606	37.003
Runx2	chr17:44495986-45119284	OK	1.1559	1.60423
Ric8	chr7:140857396-140882309	OK	31.5964	43.8478
Ewsr1	chr11:5069686-5099088	OK	19.4706	27.0202
Nfkbie	chr17:45555715-45563168	OK	3.49464	4.84962
Hist1h1a	chr13:23763667-23764412	NOTEST	0.226302	0.314032
Ahctf1	chr1:179744903-179804015	OK	4.45147	6.17638
Tmem50a	chr4:134897848-134914916	OK	172.343	239.088
Thop1	chr10:81070082-81082360	OK	18.7787	26.05
Zfp1	chr8:111643442-111671011	OK	5.15838	7.15569
Prkab1	chr5:116013589-116024428	OK	4.22944	5.86659
Pot1b	chr17:55652024-55712628	OK	1.81467	2.51706

Cndp2	chr18:84667464-84685702	OK	49.2023	68.2426
Il13ra1	chrX:36112138-36171261	OK	3.30943	4.58959
Wdr52	chr16:44394798-44482428	NOTEST	0.0952021	0.132027
Bnc2	chr4:84272541-84675086	OK	4.43177	6.14572
Cenpc1	chr5:86012024-86065583	OK	8.48271	11.7627
Rnf125	chr18:20944624-20983848	OK	16.1644	22.4133
Rab3d	chr9:21907510-21918121	OK	41.0138	56.8623
Tfpt	chr7:3620323-3629929	OK	10.5747	14.6555
Rcan1	chr16:92391950-92466169	OK	37.7961	52.374
Ube2j2	chr4:155943812-155959604	OK	3.00545	4.16462
Ablim3	chr18:61799392-61911852	OK	14.6611	20.3137
Slc36a1	chr11:55204339-55236330	OK	82.3964	114.142
Uck2	chr1:167226083-167285127	OK	26.0414	36.0747
Ccdc77	chr6:120324321-120444574	OK	1.50179	2.08032
Map3k3	chr11:106084901-106155434	OK	7.0597	9.7733
Siah3	chr14:75455981-75526141	OK	7.29489	10.0987
Sertm1	chr3:54897068-54915887	OK	4.09613	5.67025
Myef2	chr2:125068126-125123660	OK	17.8464	24.689
Lama3	chr18:12334023-12583012	NOTEST	0.462646	0.63991
D6Wsu163e	chr6:126939965-126975704	OK	15.0848	20.8629
Rnf113a2	chr12:84409067-84450950	OK	4.48311	6.19961
Mppe1	chr18:67088297-67245830	OK	9.22008	12.7501
Dpm2	chr2:32570857-32573571	OK	27.4569	37.968
Casp2	chr6:42265038-42282496	OK	2.45152	3.39002
Phip	chr9:82866158-82975489	OK	4.77343	6.59912
Gm16938	chr7:98121564-98184799	NOTEST	0.546405	0.75536
4933421O10Rik	chr4:33027138-33031323	OK	1.53045	2.11555
Lrrc59	chr11:94629823-94653754	OK	70.0136	96.7757
Polr3d	chr14:70438747-70443471	OK	8.77053	12.1229
Ncoa4	chr14:32159886-32179855	OK	6.37993	8.81747
Pm20d2	chr4:33170405-33189737	OK	1.36314	1.88381
Shisa5	chr9:109038566-109057792	OK	40.4613	55.9126
Aurka	chr2:172356189-172370570	OK	2.57149	3.5532
Vps36	chr8:22192859-22218597	OK	18.0868	24.9902
Sh3gl1	chr17:56009200-56036637	OK	11.6231	16.059
Acsl5	chr19:55253368-55296628	OK	26.8087	37.0376
Srsf12	chr4:33208990-33233340	OK	3.38344	4.67422
Islr2	chr9:58196296-58208808	OK	3.39725	4.69279
Pcf11	chr7:92643711-92669912	OK	4.00854	5.53717
Slc26a6	chr9:108854042-108862143	OK	1.73309	2.39366
Pdcd7	chr9:65346067-65359643	OK	10.4727	14.4632
Unc13a	chr8:71626711-71671757	OK	26.5973	36.7308
Nxf3	chrX:136072098-136085255	NOTEST	0.0196867	0.0271828
Ddx54	chr5:120613129-120634235	OK	16.85	23.2655
Tpm1	chr9:67022592-67049213	OK	167.682	231.463
Phf20l1	chr15:66577571-66645255	OK	4.40925	6.08549
Dnm2	chr9:21424907-21510186	OK	14.3372	19.7857
Smc5	chr19:23206440-23273897	OK	5.11778	7.06242
Gm10814	chr19:5988544-6018459	OK	0.752631	1.03861
Arid4a	chr12:71015966-71099351	OK	4.72013	6.51331
Ush2a	chr1:188262837-188965039	NOTEST	0.00335189	0.00462492
Arhgap18	chr10:26772511-26918648	OK	1.21314	1.67387
Mlf1	chr3:67374096-67400000	OK	2.82708	3.90043

Snap29	chr16:17280350-17430826	OK	13.5002	18.6247
Dock8	chr19:24999528-25202432	OK	1.78383	2.46094
Map1s	chr8:70905973-70917529	OK	18.0411	24.8869
Thoc7	chr14:13949011-13961313	OK	32.9961	45.5134
Jakmip3	chr7:138940729-139083976	OK	4.37707	6.03728
Fxn	chr19:24261452-24280586	OK	2.69323	3.71473
2900008C10Rik	chrX:12036737-12160355	OK	7.94913	10.9605
Ipmk	chr10:71347792-71385885	OK	8.462	11.6672
Pcdha3	chr18:36930284-37841872	OK	2.99904	4.13431
Erp29	chr5:121444752-121452474	OK	53.9136	74.3109
Socs1	chr16:10783808-10785536	OK	1.57698	2.17323
Ccdc74a	chr16:17646469-17650738	OK	12.7916	17.6278
Pnma1	chr12:84146130-84148489	OK	1.84377	2.54082
Slc6a20a	chr9:123636906-123678832	NOTEST	0.228661	0.315058
Fam169a	chr13:97067286-97137926	OK	12.0885	16.6526
Ifnar1	chr16:91485214-91510522	OK	16.0892	22.1612
Asxl3	chr18:22345088-22530227	OK	1.74055	2.39742
Cers4	chr8:4493404-4526079	OK	30.0661	41.4025
Spem1	chr11:69820870-69822165	NOTEST	0.0389607	0.0536383
Rrm1	chr7:102441694-102469771	OK	5.03731	6.93447
Hist2h2aa1,Hist2h2	chr3:96245456-96246052	LOWDAT	6.8344	9.40792
Tbce	chr13:13954673-14039600	OK	16.1454	22.225
Rhbdd3	chr11:5099272-5106100	OK	4.07253	5.60588
Ribc1	chrX:152004583-152016295	NOTEST	0.147482	0.202972
1600020E01Rik	chr6:86527329-86564449	OK	2.41986	3.33024
Synj2	chr17:5941279-6079739	OK	8.02824	11.0477
Atg7	chr6:114643096-114860614	OK	10.2517	14.1057
S1pr4	chr10:81497744-81500137	NOTEST	0.329605	0.453504
Dcaf6	chr1:165329500-165460463	OK	27.6084	37.9855
Trp53rk	chr2:166793766-166799492	OK	0.692656	0.952951
Pacsin1	chr17:27655590-27711117	OK	82.257	113.168
Exosc2	chr2:31670736-31681307	OK	11.9687	16.4635
Ccdc87	chr19:4839365-4842528	NOTEST	0.518287	0.712862
Atp13a2	chr4:140986872-141007701	OK	68.6004	94.3401
Rpp40	chr13:35895103-35906347	OK	2.462	3.38572
Ccdc167	chr17:29660600-29717017	OK	3.70201	5.09093
Cbx2	chr11:119023028-119031270	OK	1.4219	1.95516
Arhgdia	chr11:120577234-120581620	OK	169.913	233.631
Prr7	chr13:55464266-55473155	OK	4.24205	5.83259
Dsc1	chr18:20083470-20114773	NOTEST	0.00698479	0.00960361
Endov	chr11:119491346-119511465	OK	4.25343	5.84801
Rai1	chr11:60105012-60220604	OK	7.97059	10.9584
Vps13a	chr19:16615365-16780933	OK	8.14247	11.1906
Serpina3h	chr12:104247895-104254405	OK	0.655935	0.90131
Ets1	chr9:32696041-32757820	OK	5.8515	8.03958
Camk2n1	chr4:138455147-138460126	OK	16.3531	22.4669
Rps5	chr7:12922310-12926686	OK	171.075	235.031
Ubxn2b	chr4:6191104-6219788	OK	3.23038	4.43773
Snapc5	chr9:64179296-64182688	OK	38.992	53.5612
Ccdc66	chr14:27428846-27508460	OK	3.5866	4.92623
Psmb8	chr17:34198194-34201454	OK	9.36762	12.8646
Tenm1	chrX:42532392-43274784	OK	1.91252	2.62582
2810013P06Rik	chr8:123042574-123044602	OK	5.05345	6.93635

Rpsa	chr9:120127765-120132369	OK	12.6436	17.3529
Aars2	chr17:45506840-45520843	OK	7.15859	9.82064
Actl6a	chr3:32708545-32726971	OK	8.48022	11.6316
Igsf8	chr1:172312406-172319835	OK	47.7268	65.422
Fubp1	chr3:152210457-152236830	OK	11.6062	15.9056
Pcbd2	chr13:55727367-55776830	OK	21.9669	30.099
Cntrl	chr2:35109491-35178822	OK	1.11938	1.53335
Pml	chr9:58217179-58249786	OK	2.51833	3.4493
Apoh	chr11:108395296-108414396	OK	1.58737	2.17341
Pqbp1	chrX:7894518-7899269	OK	31.6328	43.3081
Gm10125	chr18:5491500-5775468	NOTEST	0.57912	0.792805
Zfp449	chrX:56346399-56365674	OK	2.17902	2.9827
Rbbp8	chr18:11633275-11743207	OK	2.2618	3.096
Lpcat1	chr13:73467382-73514538	OK	14.107	19.3095
Polb	chr8:22628118-22653437	OK	19.9856	27.3525
Cir1	chr2:73283871-73312592	OK	6.04361	8.27129
Nelfe	chr17:34850390-34856372	OK	11.2017	15.327
Morc3	chr16:93832120-93876073	OK	5.84049	7.99121
Acat3	chr17:12916328-12940396	NOTEST	0.275833	0.377398
Tsacc	chr3:88282759-88296838	OK	1.39115	1.90336
Gm2027	chr12:44221355-44224380	NOTEST	0.328513	0.449417
Mpst	chr15:78406711-78414015	OK	12.8592	17.5898
Prkra	chr2:76629936-76647994	OK	14.3452	19.6173
Nudc	chr4:133532541-133546027	OK	38.4418	52.569
Prkcg	chr7:3303531-3331097	NOTEST	0.130141	0.17795
1190005I06Rik	chr8:120608601-120634382	OK	2.9067	3.97332
Homer2	chr7:81600480-81706925	OK	8.37204	11.4433
Zfp513	chr5:30933142-31348845	OK	3.73448	5.1041
Tspan8	chr10:115817283-115849893	OK	61.3673	83.8705
Wdr48	chr9:119894894-119937558	OK	21.8916	29.9181
Zc3h18	chr8:122376615-122417360	OK	5.65073	7.72165
Pkia	chr3:7366603-7445365	OK	38.9521	53.225
Gm11944	chr11:3202352-3479831	NOTEST	0.514523	0.703051
Pan3	chr5:147430579-147548501	OK	6.47194	8.84321
Heca	chr10:17900465-17948067	OK	8.08296	11.0444
Pcyt2	chr11:120610086-120617890	OK	36.2783	49.5696
Sf3a2	chr10:80798734-80804922	OK	11.5169	15.7358
Zfp867	chr11:59461196-59472474	OK	1.19501	1.6326
Fbxo30	chr10:11281329-11297969	OK	7.21313	9.85436
Rps3a1	chr3:86137939-86142668	OK	15.9397	21.7747
Rgs1	chr1:144244668-144249104	NOTEST	0.204752	0.279682
Armc2	chr10:41914989-42018382	NOTEST	0.56309	0.769091
Bnip3l	chr14:66985239-67008877	OK	31.877	43.5377
Prdm15	chr16:97791466-97851227	OK	1.50118	2.05014
Lbx2	chr6:83086364-83088241	NOTEST	0.224695	0.306818
Dus3l	chr17:56764750-56770093	OK	13.8216	18.8721
Mbip	chr12:56328306-56345894	OK	5.04544	6.88784
Zfp771	chr7:127244525-127254801	OK	13.848	18.904
Zbtb46	chr2:181390885-181459426	OK	3.76522	5.13923
Sc1t1	chr3:41626704-41742514	OK	1.93189	2.63684
35673	chr7:127214441-127218445	OK	1.34535	1.83579
Fcho1	chr8:71708386-71725681	OK	6.80245	9.28202
Tmem194	chr10:127677064-127701047	OK	1.69454	2.31191

Serpinb6a	chr13:33917917-34002794	OK	329.064	448.939
Cdkn3	chr14:46760540-46771525	OK	5.30451	7.23669
Spsb2	chr6:124808940-124814296	OK	6.11478	8.34179
Bloc1s4	chr5:36747373-36748679	OK	5.31004	7.24317
Rps6ka2	chr17:7170114-7303316	OK	41.3061	56.3419
Sec11a	chr7:80915378-80947550	OK	28.7665	39.2371
Pir	chrX:164269430-164373013	OK	17.4487	23.7951
Atf4	chr15:80255183-80257545	OK	88.0221	120.032
Ap3s1	chr18:46741916-46790826	OK	24.8028	33.8186
Cep57	chr9:13807787-13827107	OK	3.84371	5.23819
Msantd3	chr4:48539945-48561920	OK	6.13333	8.35835
Map9	chr3:82358071-82395268	OK	15.5461	21.1858
Carf	chr1:60076867-60153953	OK	1.89417	2.581
L1cam	chrX:73853779-73880834	OK	133.896	182.433
Zfp566	chr7:30077336-30090510	OK	1.23997	1.68941
Cmpk1	chr4:114960612-114987228	OK	82.5652	112.486
Otub2	chr12:103376893-103406350	OK	5.09367	6.9391
Elmo3	chr8:105305600-105310623	NOTEST	0.232186	0.316264
Acvr2b	chr9:119402500-119433506	OK	1.01532	1.38288
Ankrd39	chr1:36538172-36547201	OK	5.09418	6.93836
Zfp282	chr6:47877554-47908484	OK	3.06618	4.176
Sprn	chr7:140137563-140154659	OK	20.0144	27.2584
Fam210b	chr2:172345576-172355749	OK	6.48608	8.83341
Dlx3	chr11:95120116-95125291	OK	0.808386	1.10093
Nme3	chr17:24896499-24936977	OK	17.2393	23.4895
Slfn1	chr11:83116844-83122659	NOTEST	0.184352	0.251007
Tbcb	chr7:30224130-30232029	OK	81.341	110.741
Crlf2	chr5:109554708-109558993	OK	5.96977	8.12686
Rsu1	chr2:13076966-13271415	OK	54.7241	74.4881
Spata2l	chr8:123232257-123254175	OK	1.35688	1.84688
Lyst	chr13:13590408-13777440	OK	8.72546	11.876
Lrfn1	chr7:28451984-28482345	OK	13.4747	18.3392
Mettl25	chr10:105763184-105841380	OK	2.63127	3.58112
Tmem88b	chr4:155781590-155785874	NOTEST	0.458629	0.624134
Uchl1os	chr5:66626494-66687234	NOTEST	0.193358	0.263065
Msh5	chr17:35028604-35046723	NOTEST	0.086261	0.117356
Lars2	chr9:123366939-123462664	OK	71.7978	97.6662
Lysmd3	chr13:81657805-81671890	OK	4.31508	5.8686
Enoph1	chr5:100039993-100068765	OK	17.7947	24.198
Frg1	chr8:41397453-41417118	OK	18.6964	25.4202
Gm4285	chr14:75842917-75844964	OK	0.872391	1.18612
Pth2r	chr1:65311256-65389244	NOTEST	0.103813	0.141134
Rps6kb2	chr19:4156976-4163245	OK	7.81645	10.6262
Zfp354b	chr11:50921785-50931635	OK	1.02819	1.39753
Pja1	chrX:99465733-99470735	OK	64.1773	87.2154
Wdr76	chr2:121506722-121544859	OK	0.84669	1.15042
Ift46	chr9:44773008-44792714	OK	13.4399	18.2603
Ifi35	chr11:101448411-101458701	OK	10.3443	14.0544
Xpo1	chr11:23256040-23297597	OK	25.5259	34.6777
D130009I18Rik	chr14:104639146-104966783	OK	6.43346	8.73962
Eef1a1	chr9:78478453-78481724	OK	422.679	574.163
Flnc	chr6:29433152-29461888	OK	0.592426	0.804714
Spopl	chr2:23510053-23572104	OK	6.69565	9.09412

Arhgap1	chr2:91650117-91672320	OK	25.3269	34.3991
Dnajc2	chr5:21757276-21785165	OK	15.7749	21.424
Trim68	chr7:102677579-102687326	OK	3.07968	4.18247
Rpl18	chr7:45718070-45720835	OK	4.63934	6.30056
Gstp2	chr19:4040287-4042221	OK	4.16271	5.65322
Spns2	chr11:72451637-72489920	OK	7.74783	10.5216
Kti12	chr4:108834677-108862119	OK	6.02328	8.17949
Taf5	chr19:47067747-47090625	OK	2.45766	3.33724
Smarcb1	chr10:75896768-75921614	OK	27.2481	36.9982
Tex30	chr1:44086616-44102388	OK	3.61737	4.91156
C920021L13Rik	chr3:95871521-95891930	NOTEST	0.0830328	0.112726
Cdc5l	chr17:45391887-45433707	OK	11.1607	15.1504
Zfp511	chr7:139995954-140040605	OK	7.27194	9.86844
Rasgrp4	chr7:29134932-29156210	NOTEST	0.191334	0.259644
Dos	chr10:79697304-80369637	OK	38.9158	52.8063
Fert2	chr17:63863980-64139496	OK	8.89565	12.0686
Rnf126	chr10:79697304-80369637	OK	17.2141	23.3532
Chst14	chr2:118926496-118928583	OK	6.80672	9.23275
Rsph3b	chr17:6904715-6948356	OK	5.99658	8.13321
Capzb	chr4:139192898-139291820	OK	192.354	260.868
Dctn6	chr8:34090422-34108511	OK	65.6827	89.0725
Topaz1	chr9:122747345-122802074	NOTEST	0.00337504	0.00457623
Arhgap11a	chr2:113831491-113848661	OK	1.53082	2.07539
Vmn2r29	chr7:7212995-7278289	OK	1.10032	1.4914
Cab39l	chr14:59440980-59548903	OK	49.7716	67.4592
Gpr165	chrX:96713467-96719388	OK	1.69152	2.29265
Ikzf3	chr11:98464692-98546031	NOTEST	0.154889	0.209924
Nudt16l1	chr16:4886099-4941020	OK	37.385	50.6676
Ppfia3	chr7:45339125-45370564	OK	18.9696	25.7045
Uhrf2	chr19:30030512-30093724	OK	11.9213	16.1524
Ppm1b	chr17:84917181-85023992	OK	38.8494	52.636
Mpv17l	chr16:13903160-13949619	OK	10.7076	14.507
Flrt3	chr2:140395429-142390050	OK	6.72926	9.117
Zfp963	chr8:69741638-69749962	OK	1.37421	1.86165
Epc1	chr18:6435950-6516108	OK	6.40326	8.67195
Dyrk1b	chr7:28179482-28187298	OK	8.63313	11.691
Mbl2	chr19:30232956-30239682	NOTEST	0.16623	0.225109
Fmo5	chr3:97628803-97655287	OK	2.28927	3.10007
Jund	chr8:70697738-70700616	OK	52.5834	71.2002
Clic1	chr17:35050242-35058719	OK	93.4509	126.533
Lrif1	chr3:106684986-106736576	OK	6.53717	8.85099
Muc13	chr16:33794036-33819927	NOTEST	0.00581784	0.0078764
Rps4l	chr6:148047415-148444352	OK	30.6989	41.5608
Nudt17	chr3:96696374-96708560	OK	1.07554	1.45608
9330182L06Rik	chr5:9266192-9480717	OK	26.8388	36.3337
Hs6st3	chr14:119138264-119869815	OK	4.80942	6.51029
H2-Q10	chr17:35470088-35474563	NOTEST	0.0397937	0.053861
Spata5l1	chr2:122630624-122632704	OK	2.13397	2.88802
Spata1	chr3:146450492-146499753	OK	0.948008	1.28294
Fam78a	chr2:32066884-32083705	NOTEST	0.415761	0.562517
Adamts10	chr17:33524195-33553782	OK	2.00232	2.70884
Ccdc162	chr10:41538848-41587753	NOTEST	0.450541	0.609453
Tmsb15b1	chrX:136954987-136976874	OK	5.65468	7.64761

Tmod4	chr3:95124513-95129208	NOTEST	0.136536	0.184655
Iba57	chr11:59155368-59163745	OK	2.37004	3.2048
Zcchc3	chr2:152411955-152415044	OK	2.64128	3.57138
Rngtt	chr4:33310310-33502610	OK	8.51833	11.5176
Rad51d	chr11:82871960-82890624	OK	8.05088	10.8836
Stk4	chr2:164074177-164155521	OK	8.69489	11.7541
Vat1	chr11:101458747-101466199	OK	115.936	156.712
Gnai2	chr9:107614137-107635342	OK	117.317	158.576
Wdr17	chr8:54629615-54724368	OK	5.75322	7.77618
Plscr3	chr11:69846371-69858730	OK	19.3513	26.154
Ostf1	chr19:18580363-18631813	OK	100.854	136.307
Rpa3	chr6:8255935-8259141	OK	4.71184	6.36785
Zfp82	chr7:30056033-30072823	OK	1.75015	2.36512
Tmem120b	chr5:123076274-123117445	OK	9.2645	12.5194
Tefm	chr11:80136677-80142153	OK	3.39768	4.59096
Ctdspl	chr9:118926535-119044119	OK	4.88524	6.60071
Guf1	chr5:69556941-69573630	OK	4.38269	5.92165
Gm20604	chr12:102739829-102757810	OK	5.37253	7.25905
Ccdc103	chr11:102881243-102886731	OK	0.594853	0.803699
Hoxa5	chr6:52169061-52213597	OK	3.93923	5.32199
Gm13305,Gm2002	chr4_JH584293_random:7077-2	LOWDAT	0.00920012	0.0124293
Hsf1	chr15:76477444-76500972	OK	10.8904	14.7124
Cacnb1	chr11:98001507-98022627	OK	19.3545	26.1438
Palmd	chr3:116918261-116984406	OK	25.737	34.7543
Adcy5	chr16:35155635-35304549	OK	16.278	21.9778
Saysd1	chr14:20075635-20083172	OK	2.21991	2.99708
Pck2	chr14:55540265-55550017	OK	20.6639	27.894
1810037I17Rik	chr3:122924396-122926194	OK	18.9435	25.5715
Rps25	chr9:44407713-44418007	OK	11.2875	15.2355
Scai	chr2:39066214-39190730	OK	3.56599	4.81268
Sobp	chr10:43002499-43174530	OK	9.51241	12.8351
Nova2	chr7:18925887-18965319	OK	2.03145	2.74076
Prpsap2	chr11:61729649-61762088	OK	4.95236	6.67968
Fpgs	chr2:32646594-32694175	OK	4.89525	6.60247
Ilkap	chr1:91375830-91398783	OK	20.9846	28.3028
Gramd2	chr9:59707763-59716424	OK	1.30727	1.76301
Nudt13	chr14:20294689-20317575	OK	2.9333	3.95477
LOC100038947	chr3:15795146-15848487	NOTEST	0.0128583	0.0173318
1700123M08Rik	chr4:11966573-11994295	OK	1.09039	1.46974
Dck	chr5:88765012-88783277	OK	14.4609	19.4902
E030013I19Rik	chr2:12106659-12312315	NOTEST	0.0604872	0.0815161
Nudt6	chr3:37404981-37419596	OK	2.53381	3.4146
4930512B01Rik	chr12:69746847-69987002	NOTEST	0.0132287	0.0178269
Nlrx1	chr9:44252712-44268599	OK	4.66308	6.2838
Tfdp2	chr9:96196274-96323646	OK	7.87807	10.6149
A530054K11Rik	chr13:67617000-67637753	OK	2.99234	4.03119
Taldo1	chr7:141392159-141402976	OK	79.2236	106.719
Slc5a3	chr16:92058321-92112227	OK	5.75195	7.74757
Tceal5	chrX:136200950-136203851	OK	7.25001	9.76512
Far1	chr7:113513833-113570888	OK	40.9418	55.1415
Gdpd5	chr7:99381548-99460984	OK	21.0836	28.3854
Aldoart1	chr4:72850582-72852634	OK	3.65157	4.91594
Spag4	chr2:156065212-156069499	OK	0.88949	1.19747

Tex22	chr12:113074501-113088914	NOTEST	0.0151483	0.0203894
Nr2c2ap	chr8:70130805-70139197	OK	28.129	37.8596
Gria1	chr11:57011617-57330244	OK	5.42034	7.29364
Phf23	chr11:69995765-70000011	OK	24.164	32.5131
Rgs16	chr1:153740352-153745468	OK	2.36615	3.18367
Cep170b	chr12:112722173-112746591	OK	25.7207	34.6056
Reps2	chrX:162407199-163352564	OK	16.9334	22.7783
Chmp6	chr11:119913809-119919552	OK	21.8061	29.3285
Glt25d1	chr8:71611023-71624911	OK	21.9236	29.4782
Rcor3	chr1:192098545-192151025	OK	9.61505	12.9281
Nadsyn1	chr7:143795593-143822841	OK	1.16245	1.56286
Lypla2	chr4:135968224-135972594	OK	73.1883	98.3968
Zfp442	chr2:150407136-150451494	OK	0.64689	0.869627
Gimap8	chr6:48647233-48660875	OK	0.84252	1.13252
Imp3	chr9:56937499-56938398	OK	23.3144	31.3359
Ube2s	chr7:4808013-4812340	OK	1.27799	1.71758
Plxna3	chrX:74329065-74344689	OK	4.05795	5.45362
Bbx	chr16:50191843-50432389	OK	9.6044	12.9059
Ythdf2	chr4:132184915-132212256	OK	15.6262	20.9946
Llph	chr10:120227059-120232070	OK	5.06032	6.79748
Txlna	chr4:129626076-129641065	OK	17.4856	23.4871
Kctd3	chr1:188971097-189007840	OK	16.7829	22.5398
Asb6	chr2:30823097-30828300	OK	18.1593	24.3857
Npl	chr1:153503015-153549714	OK	1.92953	2.59096
Ccdc55	chr11:77044291-77078437	OK	4.52902	6.08116
Sun1	chr5:139200636-139249839	OK	18.0869	24.2835
Orc6	chr8:85299631-85308279	OK	6.39207	8.58188
Rita1	chr5:120609059-120612589	OK	5.8711	7.8817
Tra2a	chr6:49243920-49264052	OK	26.0606	34.9822
Tro	chrX:150644709-150657583	OK	32.3871	43.4737
Ccdc174	chr6:91878052-91899848	OK	6.67906	8.96469
Rpl19	chr11:98026709-98030493	OK	4.53488	6.08653
Ift122	chr6:115853527-115926699	OK	15.3406	20.5893
Trappc6b	chr12:59043091-59061461	OK	50.0995	67.2406
Zfp329	chr7:12803779-12818860	OK	3.01233	4.04197
Rpain	chr11:70970199-70983026	OK	7.2683	9.75259
Park2	chr17:10840383-12063360	OK	3.05575	4.09984
Slamf7	chr1:171632402-171653037	NOTEST	0.0914495	0.122686
Taok3	chr5:117120128-117275098	OK	9.49249	12.7346
Icam1	chr9:21015959-21028796	OK	1.01883	1.36669
B330016D10Rik	chr4:141546161-141548313	NOTEST	0.60401	0.810226
Phf3	chr1:30802341-30863256	OK	7.2409	9.71088
Tbca	chr13:94788942-94842899	OK	116.623	156.403
Ints6	chr14:62663666-62830126	OK	2.27153	3.04583
Jakmip1	chr5:37050856-37125298	OK	37.4217	50.1741
Snrpd2	chr7:19149837-19152726	OK	35.7931	47.9898
Zdhhc2	chr8:40423814-40484842	OK	127.073	170.369
Otud7a	chr7:63444771-63759027	OK	8.38519	11.2421
Tbcc	chr17:46890620-46892463	OK	20.4852	27.4638
Aatf	chr11:84422855-84513501	OK	9.02317	12.0956
AA388235	chr17:33981491-33985358	OK	1.60293	2.1485
Pcsk1n	chrX:7919821-7928607	OK	158.381	212.24
Lrrc15	chr16:30269301-30283254	NOTEST	0.126524	0.169549

Ldlrad4	chr18:67933256-68255549	OK	4.29958	5.76044
Ruvbl2	chr7:45421897-45434464	OK	12.2063	16.3516
4930506M07Rik	chr19:58973357-59076069	OK	6.34522	8.49998
Ppan	chr9:20888174-20892179	OK	4.88343	6.53995
Mef2d	chr3:88142394-88169167	OK	15.2276	20.3926
Zfp444	chr7:6172512-6193104	OK	4.18026	5.59783
Ift80	chr3:68892498-69004570	OK	14.5186	19.4353
Zranb2	chr3:157534396-157548339	OK	43.0355	57.6051
Ctnna2	chr6:76881636-77979667	OK	89.0763	119.221
Srsf2	chr11:116849896-116853094	OK	54.5515	73.0115
Zfp64	chr2:168925360-168955587	OK	4.71074	6.30415
Commd7	chr2:153616929-153632781	OK	11.3079	15.1327
Rbm12b2	chr4:12089369-12096271	OK	2.01092	2.69044
Itsn2	chr12:4593007-4738383	OK	18.4069	24.618
Rpl23	chr11:97777525-97782439	OK	6.32166	8.45475
Pold4	chr19:4231898-4233634	OK	17.7232	23.6981
Hjurp	chr1:88227019-88277579	OK	2.70548	3.61717
Dusp13	chr14:21733394-21748622	NOTEST	0.0354555	0.0474014
Kiz	chr2:146855888-146970089	OK	9.74722	13.0274
Tmem2	chr19:21778339-21858360	OK	8.83834	11.8124
Celf1	chr2:90940396-91019497	OK	17.8647	23.8699
Oaz1	chr10:80826655-80829290	OK	28.3174	37.8358
Nt5c3	chr6:56882401-56923932	OK	21.0037	28.0596
Zc3h11a	chr1:133619870-133661399	OK	19.9633	26.6686
Ccdc94	chr17:55952622-55967951	OK	3.49592	4.66872
Slc44a2	chr9:21320718-21355028	OK	59.1028	78.9258
Cwc27	chr13:104631326-104816953	OK	8.49921	11.3495
Crcp	chr5:130029305-130060783	OK	23.9247	31.9479
Coro7	chr16:4626883-4679720	OK	31.5137	42.075
Cstb	chr10:78425669-78427622	OK	58.1262	77.5899
Elavl4	chr4:110203736-110351911	OK	89.6567	119.678
Pfkfb2	chr1:130689042-130729253	OK	10.0602	13.4276
Ano6	chr15:95790842-95975472	OK	24.5759	32.8004
Atp11b	chr3:35754137-35856276	OK	14.576	19.4526
U2af2	chr7:5062142-5079945	OK	24.4888	32.6799
Fbxo48	chr11:16951409-16954772	NOTEST	0.219098	0.292371
Upf3a	chr8:13785614-13798537	OK	12.0415	16.0685
Ormdl2	chr10:128805675-128821631	OK	4.35441	5.81012
Camk2d	chr3:126596972-126845054	OK	74.6037	99.5436
Clca1	chr3:144730315-144760739	NOTEST	0.155857	0.207959
Wdr55	chr18:36760238-36766214	OK	9.10812	12.1517
Gabrr2	chr4:33063111-33095865	NOTEST	0.0975066	0.130075
Med6	chr12:81573563-81594958	OK	13.1089	17.4871
Mta3	chr17:83706162-83814905	OK	30.9038	41.2233
Dcaf12	chr4:41291299-41314901	OK	26.5783	35.4521
Eml6	chr11:29692897-30026033	OK	3.14414	4.19376
Ebna1bp2	chr4:118620798-118631915	OK	13.3399	17.7928
Arfgef2	chr2:166805580-166898051	OK	36.6003	48.8168
Fam114a1	chr5:64970074-65041901	OK	11.1747	14.9034
Pgp	chr17:24470472-24471596	OK	42.6142	56.8302
Rasip1	chr7:45627536-45639092	OK	4.02244	5.36366
Dcaf12l1	chrX:44786566-44790197	OK	6.78037	9.03941
Sec61b	chr4:47474660-47483233	OK	11.6546	15.5358

Morc2b	chr17:33135589-33139683	NOTEST	0.307541	0.409816
Gdf7	chr12:8297917-8301954	NOTEST	0.0897677	0.119615
Cited4	chr4:120666562-120667820	NOTEST	0.431251	0.574637
C530005A16Rik	chr4:116557726-116600266	OK	1.09423	1.45803
Hdx	chrX:111575203-111697079	OK	0.707372	0.942328
Sbds	chr5:130245731-130255462	OK	52.5018	69.8902
Sqstm1	chr11:50200151-50210820	OK	317.722	422.948
Pex26	chr6:121183666-121196185	OK	5.68054	7.56123
Lpxn	chr19:12798608-12833808	NOTEST	0.266465	0.354681
Polr2f	chr15:79141366-79151767	OK	30.767	40.9496
Nap1l1	chr10:111473191-111498150	OK	39.9722	53.2011
Ick	chr9:78109191-78172109	OK	5.03703	6.70364
C2cd4b	chr9:67759436-67760933	NOTEST	0.0494253	0.0657786
Gfra3	chr18:34689902-34720387	OK	28.0764	37.3624
Tshz3	chr7:36698117-36773457	OK	7.49333	9.97043
Spdl1	chr11:34809184-34833641	NOTEST	0.578281	0.7694
Kctd10	chr5:114314940-114380505	OK	66.8162	88.8957
Dnajb5	chr4:42953093-42958732	OK	7.07788	9.41656
Asap1	chr15:64086839-64382919	OK	73.5561	97.8537
Cer1	chr4:82881750-82885151	NOTEST	0.600259	0.798537
Ift172	chr5:30933142-31348845	OK	18.5229	24.6409
Nop9	chr14:55745692-55758424	OK	4.54804	6.04872
Snopc4	chr2:26362764-26380653	OK	2.79556	3.71659
Mrpl54	chr10:81264721-81266926	OK	34.3619	45.6786
Dhx37	chr5:125414403-125434048	OK	4.16619	5.53804
Zfp46	chr4:136286068-136293942	OK	7.05195	9.37267
Chmp2a	chr7:13032005-13034777	OK	60.1139	79.8828
Hoxd11	chr2:74679557-74687016	OK	0.722153	0.959524
Bves	chr10:45335761-45369708	OK	11.341	15.0683
Smn1	chr13:100123204-100137698	OK	9.53745	12.6712
Morf4l2	chrX:136732947-136803361	OK	135.648	180.212
Milt6	chr11:97663411-97685458	OK	11.414	15.1624
Gpr155	chr2:73341505-73386480	OK	18.1636	24.1278
Gm8994	chr6:136327538-136329983	OK	0.845193	1.12257
Rps15	chr10:79697304-80369637	OK	68.8578	91.4554
Thg1l	chr11:45945305-45955503	OK	2.25464	2.9945
Pfkfb4	chr9:108991901-109032225	OK	5.77795	7.6723
A930004D18Rik	chr2:18025188-18037741	OK	3.43013	4.55457
4833418N02Rik	chr17:87274885-87282814	NOTEST	0.382643	0.508072
C230091D08Rik	chr7:59307923-59324149	NOTEST	0.0775314	0.102935
Sfpq	chr4:127021300-127037014	OK	39.5509	52.5009
Clec4f	chr6:83644541-83656116	NOTEST	0.00783033	0.010393
Dtx3	chr10:127190377-127211622	OK	30.4206	40.3766
Rbm45	chr2:76369983-76383767	OK	11.3274	15.0323
Nnt	chr13:119334316-119409138	OK	5.11486	6.7878
Lnx2	chr5:147016654-147076572	OK	3.23568	4.29397
Gpr180	chr14:118137126-118164232	OK	7.01592	9.31043
Myl4	chr11:104550662-104587219	OK	1.68201	2.23195
2210016L21Rik	chr5:114942201-114948540	OK	53.8282	71.4259
Arpc2	chr1:74236549-74268213	OK	105.586	140.085
Zfp772	chr7:7202121-7209998	OK	2.53129	3.35818
Hexb	chr13:97137936-97198357	OK	71.2516	94.52
Atp11c	chrX:60223289-60403981	OK	6.39827	8.48773

2810002D19Rik	chr2:94406706-94411680	OK	2.93908	3.89885
Evl	chr12:108371152-108702306	OK	57.6624	76.4852
Rpl41	chr10:128548109-128549168	OK	274.448	363.948
Rpl36a1	chr12:69182733-69184067	OK	50.6114	67.1101
Rpl14-ps1	chr7:45303154-45333780	OK	198.189	262.786
Pan2	chr10:128303334-128321358	OK	4.14337	5.49291
Ikbkb	chr8:22659204-22706583	OK	8.96822	11.8889
Lhfpl3	chr5:22738910-23275597	OK	20.5659	27.2581
Npw	chr17:24657329-24658425	NOTEST	0.0803163	0.106448
Actr1b	chr1:36699201-36709925	OK	121.137	160.536
Hnrnpab	chr11:51584756-51606881	OK	66.1274	87.6342
U2af114	chr7:30563339-30565364	OK	21.0016	27.8281
Fam57a	chr11:76202055-76208257	OK	7.46368	9.88953
Polq	chr16:37011785-37095417	NOTEST	0.275821	0.365467
Crybg3	chr16:59471774-59555752	OK	2.14434	2.84098
Fmo6	chr1:162916550-162937225	NOTEST	0.127448	0.168842
Cntnap4	chr8:112570042-112882707	OK	10.6341	14.0879
Slc25a48	chr13:56438354-56472363	NOTEST	0.0132919	0.0176082
Upb1	chr10:75406910-75441679	NOTEST	0.459879	0.609134
Pgbd5	chr8:124369048-124433936	OK	21.5727	28.5654
Lenep	chr3:89401895-89402650	OK	1.91161	2.53106
Ccdc88a	chr11:29374171-29510808	OK	5.83045	7.7197
Ccm2	chr11:6546886-6596761	OK	24.2821	32.1475
Prkag2	chr5:24862734-25100642	OK	54.1791	71.7236
Vwa5a	chr9:38718267-38743337	OK	127.885	169.285
Sra1	chr18:36667186-36670311	OK	23.8345	31.5493
38046	chr6:116338122-116409540	OK	11.5749	15.3192
Cacna1h	chr17:25370552-25433783	OK	8.9863	11.8924
Zfp787	chr7:6131488-6155971	OK	4.43646	5.86947
Nfkbib	chr7:28756173-28766524	OK	8.40796	11.123
Pdia6	chr12:17266594-17324730	OK	51.2855	67.8409
Nfu1	chr6:87009835-87028461	OK	26.2757	34.7575
Sf3b5	chr10:13008449-13009183	OK	29.0423	38.4083
Mamld1	chrX:71050255-71154717	OK	5.88769	7.7863
2610035F20Rik	chr14:122470376-122475199	NOTEST	0.0182049	0.024075
Stat3	chr11:100886809-100939511	OK	101.526	134.262
Cebpg	chr7:35046421-35056566	OK	10.7608	14.2246
Cnot3	chr7:3645268-3677553	OK	5.72212	7.56308
Naa40	chr19:7225667-7241222	OK	3.50391	4.63106
Ttc32	chr12:9029996-9036394	OK	1.00161	1.32366
Car10	chr11:93099289-93601751	OK	31.3808	41.4662
Snca	chr6:60731572-60829855	OK	16.9348	22.3774
Ept1	chr5:30232617-30272430	OK	26.6523	35.2168
Rccd1	chr7:80316615-80324454	OK	1.44237	1.90579
Akap12	chr10:4266328-4359471	OK	164.167	216.905
Stat5b	chr11:100780730-100850585	OK	11.7615	15.5395
Srpk1	chr17:28589591-28622454	OK	21.8353	28.8476
Man2c1	chr9:57129981-57142210	OK	17.7278	23.4174
Mphosph9	chr5:124250958-124327972	OK	2.10543	2.78095
2310033P09Rik	chr11:59208360-59210734	OK	7.93208	10.4768
Nol8	chr13:49653077-49679016	OK	4.96491	6.55664
0610012G03Rik	chr16:31947050-31948521	OK	12.3041	16.2443
2310068J16Rik	chr15:99970064-100016358	NOTEST	0.359109	0.474083

Fbxw9	chr8:85036914-85067120	OK	8.88827	11.7324
Trim27	chr13:21179930-21194723	OK	4.8443	6.39441
Traf3ip2	chr10:39612933-39732007	OK	2.47085	3.26148
Tctex1d2	chr16:32419701-32428892	OK	11.8865	15.6897
2310034G01Rik	chr19:46348200-46348988	NOTEST	0.413291	0.545488
Tmod1	chr4:46039221-46138475	OK	90.5648	119.531
Dusp5	chr19:53529317-53541322	OK	12.1092	15.9821
Rpa1	chr11:75300258-75348383	OK	35.1652	46.4112
Rock1	chr18:10064400-10181792	OK	5.58851	7.375
Bbs7	chr3:36573142-36613389	OK	9.0092	11.8887
Ppp1r18	chr17:35865594-35875596	OK	9.37371	12.3683
Gm3230	chr2:19655805-19657897	OK	0.799424	1.05472
Arl6	chr16:59613320-60605531	OK	20.1675	26.6074
Acsm3	chr7:119760922-119794058	NOTEST	0.0377819	0.0498461
Akap8l	chr17:32321423-32350577	OK	14.2659	18.8168
Plxnd1	chr6:115954810-115995005	OK	30.0063	39.577
Pole	chr5:110286318-110337453	OK	0.704268	0.928672
Trpm4	chr7:45303154-45333780	OK	6.17506	8.13997
1700030K09Rik	chr8:72443879-72475233	OK	2.48679	3.27729
Slc2a2	chr3:28697902-28728360	NOTEST	0.0461433	0.0608099
Msh2	chr17:87672556-87723713	OK	22.0707	29.0828
Zfp382	chr7:30121947-30135032	OK	5.84144	7.69686
Rwdd1	chr10:33996554-34019616	OK	8.19543	10.798
Gdap1l1	chr2:163438466-163455324	OK	25.8701	34.0853
Rrbp1	chr2:143947394-144011263	OK	20.0198	26.3738
Dnajc28	chr16:91614256-91618999	OK	2.10541	2.77321
4833420G17Rik	chr13:119462758-119486117	OK	7.71213	10.1577
Dpy30	chr17:74299473-74323944	OK	45.0643	59.3491
Pkib	chr10:57631980-57741112	OK	3.87619	5.10487
Dtd1	chr2:144599952-144768747	OK	25.7373	33.8914
Eif5b	chr1:37998009-38129662	OK	12.8845	16.9651
Zfp641	chr15:98286121-98296083	OK	2.35628	3.10251
B4galt7	chr13:55600110-55609954	OK	6.67788	8.79275
5830418K08Rik	chr9:15283336-15357788	OK	2.24479	2.95558
Vash1	chr12:86678699-86695681	OK	31.1295	40.9783
Nmral1	chr16:4711317-4719356	OK	1.40845	1.85394
Pigv	chr4:133661424-133672647	OK	3.42158	4.50297
Stam2	chr2:52692205-52742149	OK	12.4066	16.3255
Rgs7	chr1:175059075-175492545	OK	33.4823	44.0569
Igf1r	chr7:67952256-68233667	OK	11.7132	15.4119
Itfg2	chr6:128409443-128424910	OK	13.2088	17.3785
Mterfd2	chr1:93299210-93305870	OK	2.99957	3.94598
Epc2	chr2:49451485-49551609	OK	5.55592	7.30827
Rap2c	chrX:51003913-51018018	OK	25.6889	33.7876
Mvk	chr5:114444305-114460590	OK	29.6652	39.0156
Abcd4	chr12:84602530-84617466	OK	6.40216	8.41904
Slc2a3	chr6:122727808-122742745	OK	28.3276	37.2507
Fnbp1	chr2:31026205-31142008	OK	58.6683	77.1409
Cep55	chr19:38055024-38074425	NOTEST	0.228006	0.299757
Ciz1	chr2:32363009-32378313	OK	9.00427	11.8378
I7Rn6	chr7:89918684-89941204	OK	29.9746	39.3916
Gmeb1	chr4:132221024-132261549	OK	2.49153	3.27417
Nmb	chr7:80902226-80905062	OK	180.834	237.629

Zfp235	chr7:24134162-24143241	OK	1.99095	2.61621
Snupn	chr9:56950923-56983199	OK	10.454	13.7353
Cenpo	chr12:4133396-4240123	OK	0.885665	1.16359
Iqcc	chr4:129615616-129619093	OK	3.99813	5.25228
Il6	chr5:30013160-30019968	NOTEST	0.280913	0.368983
Ppil1	chr17:29250834-29263971	OK	12.9429	17.0001
Fam229b	chr10:39118807-39133895	OK	8.01091	10.5179
Leng9	chr7:4148182-4149872	OK	2.56318	3.36459
Rps4x	chrX:102184942-102188371	OK	28.9273	37.9713
Gpld1	chr13:24943151-24991936	OK	3.12239	4.09813
Rbmx2	chrX:48695003-48710719	OK	3.4505	4.52848
Adamts8	chr9:30942562-30962858	OK	2.35154	3.08568
Glr3	chr7:137437647-137468594	OK	9.41993	12.3596
Gpr75	chr11:30885357-30893725	OK	4.06615	5.33488
Ptprk	chr10:28074819-28597397	OK	4.20958	5.52301
Pmvk	chr3:89459117-89469009	OK	57.0625	74.857
Mina	chr16:59471774-59555752	OK	6.17746	8.10354
Gpr135	chr12:72069617-72070991	OK	4.36452	5.72527
Nrf1	chr6:30047987-30153458	OK	3.60652	4.73023
Esco1	chr18:10566511-10610352	OK	3.16855	4.15571
Snx2	chr18:53176364-53220860	OK	32.7613	42.9627
Tsfm	chr10:127022331-127030814	OK	11.8116	15.4884
Riok1	chr13:38036988-38061433	OK	3.99798	5.24233
Rnf166	chr8:122466146-122476064	OK	6.59147	8.64284
Tsga10	chr1:37754571-37865298	OK	3.4001	4.458
Anp32b	chr4:46451116-46472523	OK	31.9155	41.8456
Hs6st1	chr1:36068399-36106446	OK	35.0814	45.9935
Tprn	chr2:25262597-25269886	OK	4.16916	5.46583
Diablo	chr5:123510459-123524164	OK	84.6026	110.908
Mospd2	chrX:164936170-164980375	OK	10.5338	13.8079
Map2k1	chr9:64185792-64253605	OK	72.9822	95.6483
Gan	chr8:117158134-117205186	OK	9.02991	11.834
Tshz1	chr18:84011626-84086562	OK	4.99368	6.54192
Glr5	chr12:105032688-105040910	OK	53.6717	70.3044
Rps6	chr4:86854098-86857367	OK	11.4656	15.0179
Pdia5	chr16:35397311-35490873	OK	5.18582	6.79033
Poln	chr5:34007178-34169526	NOTEST	0.206119	0.269838
Slc26a8	chr17:28637778-28689987	NOTEST	0.241713	0.31635
Trabd	chr15:89076063-89087075	OK	13.4233	17.5648
Gpr21	chr2:37443284-37566437	OK	1.01218	1.32438
Clcf1	chr19:4214391-4222615	NOTEST	0.280117	0.366494
Ubp1	chr9:113930933-114026751	OK	9.98989	13.0699
Ppm1g	chr5:30933142-31348845	OK	33.0566	43.2446
Unk	chr11:116030315-116061214	OK	3.49111	4.56681
Thap3	chr4:151982637-151988986	OK	5.64453	7.38285
Arrdc4	chr7:68736993-68749238	OK	8.23066	10.7652
Slc25a53	chrX:136981115-137038302	OK	11.5336	15.0816
Ptpn1	chr2:167932326-167979385	OK	8.84124	11.5608
Gng3	chr19:8836928-8848683	OK	187.214	244.776
Ubl4	chrX:74365717-74373349	OK	37.5119	49.0422
Garnl3	chr2:32986365-33087204	OK	25.8283	33.7605
Lzts1	chr8:69135502-69140953	OK	9.54265	12.473
Top1	chr2:160645896-160722763	OK	18.7487	24.5056

Tamm41	chr6:115004380-115037874	OK	5.49534	7.18245
Iqce	chr5:140663504-140702378	OK	4.33856	5.67039
Ttc13	chr8:124671326-124721975	OK	9.94462	12.9969
Cep63	chr9:102586577-102626124	OK	6.49516	8.48855
Ncor1	chr11:62281472-62457332	OK	22.1151	28.8968
Nme2	chr11:93949813-93956256	OK	29.2449	38.2094
Tardbp	chr4:148602543-148626996	OK	20.0143	26.1461
Ethe1	chr7:24583837-24608926	OK	7.28919	9.52234
Hmgxb4	chr8:74993702-75031972	OK	3.70257	4.83664
2610524H06Rik	chr5:114821936-114823468	OK	13.5213	17.6573
Ctdp1	chr18:80407958-80469667	OK	4.25585	5.55722
Smug1	chr15:103153289-103163284	OK	5.67322	7.40777
Josd1	chr15:79674249-79687872	OK	14.9933	19.5759
Zmiz2	chr11:6395124-6406162	OK	34.0053	44.3985
Ubac1	chr2:25996957-26021760	OK	17.7733	23.2036
Cdca7l	chr12:117843860-118199043	NOTEST	0.292051	0.381168
Morn4	chr19:42074938-42086370	OK	34.7266	45.32
Zfp408	chr2:91643687-91649791	OK	1.69507	2.21198
Pigyl	chr9:22055459-22389206	OK	19.4909	25.4286
Cdh7	chr1:109983736-110139001	NOTEST	0.518576	0.676545
Cdkl2	chr5:92006073-92043042	OK	31.6587	41.3024
Rabggtb	chr3:153907288-153912966	OK	32.9185	42.9434
Ifi27	chr12:103433872-103443680	OK	151.308	197.367
Qtrtd1	chr16:43861412-43889676	OK	4.17418	5.44358
Myo1h	chr5:114314940-114380505	NOTEST	0.070899	0.0924393
Ten1	chr11:116171882-116215318	OK	24.7389	32.2546
Fubp3	chr2:31572650-31617526	OK	14.0491	18.3164
Ring1	chr17:34020791-34024680	OK	8.70437	11.3463
Tceanc	chrX:166499814-166510478	OK	0.990813	1.29151
Zfp9	chr6:118461949-118479273	OK	6.11208	7.96685
Mrps26	chr2:130563756-130565394	OK	27.1159	35.3432
Mrpl34	chr8:71464925-71465753	OK	24.801	32.3242
Gm10532	chr18:75431220-75697696	NOTEST	0.025051	0.0326474
Prrc1	chr18:57354732-57392719	OK	11.4104	14.8702
Usp35	chr7:97309379-97325964	OK	21.8276	28.4434
N6amt1	chr16:87354184-87368649	OK	12.6066	16.4269
Dmtn	chr14:70602183-70636048	OK	57.2281	74.5439
Htr2a	chr14:74640839-74706859	OK	2.76889	3.60638
Numbl	chr7:27258760-27282150	OK	32.6063	42.4677
Slc30a10	chr1:185447115-185468761	NOTEST	0.145445	0.189431
Trit1	chr4:123016596-123054934	OK	2.87683	3.74672
Coa6	chr8:126422500-126425435	OK	18.0468	23.4995
Zfp69	chr4:120930136-120951701	NOTEST	0.435712	0.567345
Acsl4	chrX:142317992-142390535	OK	27.0327	35.1988
Trmt44	chr5:35556208-35575070	OK	1.71577	2.23402
Ccdc101	chr7:126649308-126672779	OK	10.2229	13.3078
Sestd1	chr2:77180339-77280592	OK	20.3206	26.4372
Ccdc14	chr16:34690615-34725194	OK	0.703992	0.915891
Sh3rf2	chr18:42053709-42158695	NOTEST	0.0539836	0.0702308
Tceal3	chrX:136666374-136668377	OK	31.9433	41.5524
5430416N02Rik	chr5:100420841-100429535	OK	2.40944	3.13412
Uckl1	chr2:181569152-181592461	OK	8.81636	11.4675
Midn	chr10:79697304-80369637	OK	18.7587	24.3992

Adra1d	chr2:131127411-131604824	OK	2.41863	3.14585
Zfp563	chr17:33089366-33110704	OK	1.33407	1.73509
Cmtm7	chr9:114756835-114781993	OK	3.00954	3.91353
Cemip	chr7:83932856-84086505	OK	1.25251	1.6287
Max	chr12:76937268-76962248	OK	22.8275	29.6824
Nfat5	chr8:107293469-107379517	OK	11.9173	15.4957
Tmem150c	chr5:100077872-100159808	OK	35.389	46.0102
Siah1a	chr8:86723937-86747060	OK	16.06	20.8788
Arrb2	chr11:70432579-70440828	OK	19.6809	25.5826
Gpt	chr15:76696763-76699675	OK	1.3073	1.69907
Ngdn	chr14:55015453-55024137	OK	13.0559	16.9669
A830080D01Rik	chrX:159532667-159593081	OK	2.80066	3.63926
Larp7	chr3:127536713-127553349	OK	11.0672	14.3809
Prr3	chr17:35972538-35979825	OK	4.80332	6.2411
Sdccag3	chr2:26382799-26389316	OK	18.223	23.6775
Ahi1	chr10:20952546-21080429	OK	11.6405	15.1234
Fam228b	chr12:4746215-4769267	NOTEST	0.101142	0.131393
Mcm6	chr1:128331590-128359656	OK	3.8975	5.06314
Ccdc116	chr16:17139063-17144423	NOTEST	0.138615	0.180071
Fam131b	chr6:42315304-42324640	OK	50.0867	65.0645
Mterfd3	chr10:85119432-85128027	OK	7.92268	10.2917
Cramp1l	chr17:24961225-25015230	OK	5.26401	6.83798
Unc45a	chr7:80325291-80340219	OK	23.7567	30.8493
Ldha	chr7:46845803-46855627	OK	144.211	187.255
Ccdc71	chr9:108447638-108465945	OK	7.03957	9.1406
Setd3	chr12:108106430-108179284	OK	42.6193	55.3391
Dhrs13	chr11:78032312-78037864	OK	5.68274	7.37758
Ppig	chr2:69723087-69754059	OK	11.6745	15.1546
Flywch2	chr17:23776917-23786077	OK	8.07779	10.4853
Phf11c	chr14:59380832-59393512	NOTEST	0.375979	0.488029
Ube2r2	chr4:41136020-41193370	OK	31.8085	41.2833
1810058I24Rik	chr6:35252698-35262059	OK	54.0749	70.1747
B3galnt2	chr13:13954673-14039600	OK	2.62694	3.40839
Pex16	chr2:92374675-92381220	OK	17.1358	22.2296
Wdr46	chr17:33940722-33949695	OK	4.01195	5.20423
Pfn1	chr11:70651846-70654650	OK	274.356	355.87
Msrb2	chr2:19371635-19394971	OK	24.8582	32.2401
Tusc3	chr8:39005866-39130817	OK	88.3969	114.616
1700066M21Rik	chr1:57377619-57385422	OK	17.5697	22.7769
Oxsr1	chr9:119238432-119322427	OK	18.904	24.4989
Zik1	chr7:10487223-10495381	OK	1.76623	2.28893
Rexo2	chr9:48468513-48480611	OK	81.8596	106.085
Zfp597	chr16:3861543-3872374	OK	3.47288	4.49968
Rpl4	chr9:64173386-64178562	OK	154.934	200.734
Arl15	chr13:113794507-114157461	OK	10.6941	13.8546
Serpina3i	chr12:104263121-104269365	OK	1.65239	2.14048
Haus8	chr8:71251123-71272590	OK	8.19309	10.6095
Cd274	chr19:29367437-29388094	OK	3.00215	3.88727
Igsf9b	chr9:27299227-27334763	OK	1.94536	2.51878
Dnajb3	chr1:88055410-88220002	OK	1.20014	1.55357
Pawr	chr10:108332188-108414391	OK	2.42905	3.14426
Nacad	chr11:6597822-6606054	OK	63.8882	82.685
Cln6	chr9:62838786-62875917	OK	16.2772	21.0645

1110038B12Rik	chr17:34950235-34952471	OK	9.90029	12.8079
Arpc1a	chr5:145083868-145108756	OK	113.019	146.205
Pdcl	chr2:37350073-37359332	OK	23.6161	30.5504
Krtcap3	chr5:30933142-31348845	NOTEST	0.474974	0.614381
Gm20300	chr10:30603194-30606634	OK	31.8124	41.138
L1td1	chr4:98726753-98738486	NOTEST	0.0128989	0.0166793
Armc8	chr9:99456242-99568899	OK	22.1047	28.5809
Ccdc28b	chr4:129619273-129623908	OK	11.6063	15.0064
Lrrc46	chr11:97034601-97041369	OK	1.21514	1.57103
Xrn2	chr2:147013059-147077997	OK	12.013	15.5312
Prpf4b	chr13:34875493-34902878	OK	13.6844	17.691
Ints10	chr8:68793953-68827644	OK	12.9349	16.7191
C4a	chr17:34809091-34823454	NOTEST	0.0205834	0.0266037
Pprc1	chr19:46056538-46072909	OK	4.30667	5.5659
Dctn2	chr10:127266261-127288771	OK	218.965	282.937
Hsp90aa1	chr12:110691035-110696395	OK	181.129	234.043
Gipc1	chr8:83652677-83664789	OK	34.7949	44.954
Dgcr6	chr16:18052859-18071632	OK	29.4557	38.0534
Gltscr2	chr7:15937835-15946108	OK	31.3533	40.5029
Blk	chr14:63372836-63417187	NOTEST	0.076005	0.0981703
Scamp3	chr3:89177484-89182770	OK	52.7653	68.1359
Rbm33	chr5:28317188-28419242	OK	3.83727	4.95505
Ifi2712a	chr12:103433872-103443680	OK	11.6628	15.0597
Pear1	chr3:87749096-87768953	OK	2.92082	3.7713
Ccdc53	chr10:88201096-88246158	OK	18.0285	23.2764
Atf3	chr1:191170296-191183333	OK	15.6533	20.209
Cactin	chr10:81321102-81326251	OK	5.76359	7.44066
Ccdc88b	chr19:6844622-6858211	NOTEST	0.260182	0.335832
Map3k6	chr4:133240817-133252928	OK	1.29065	1.66573
Atg4d	chr9:21265284-21287969	OK	12.4725	16.0965
Fli1	chr9:32422207-32541368	OK	2.6292	3.3928
Zfp65	chr13:67705305-67729173	OK	2.08574	2.69093
Prdm10	chr9:31315106-31378543	OK	1.21811	1.57142
Spryd3	chr15:102116527-102136215	OK	82.388	106.263
Cry1	chr10:85131699-85185054	OK	4.77643	6.16053
Tnfrsf25	chr4:152115933-152120119	NOTEST	0.366941	0.473256
Nfatc2ip	chr7:126382853-126396737	OK	2.43067	3.13488
Prkce	chr17:86167784-86657919	OK	85.013	109.632
Smarcad1	chr6:65042666-65116049	OK	4.50904	5.81464
Upp1	chr11:9118007-9136170	OK	0.7955	1.0258
Rps3	chr7:99477896-99483709	OK	105.463	135.983
Ophn1	chrX:98557514-98890985	OK	11.7126	15.1019
Alyref	chr11:120594515-120598365	OK	17.5022	22.5666
C87436	chr6:86438397-86470387	OK	6.8654	8.85199
Cep170	chr1:176733652-176807124	OK	22.5713	29.0995
Chst10	chr1:38863872-38898160	OK	3.56737	4.59896
Tph2	chr10:115078640-115185022	NOTEST	0.534543	0.689088
1810041L15Rik	chr15:84379202-84447097	OK	18.7028	24.1083
Gdf9	chr11:53433285-53437902	NOTEST	0.404334	0.521176
Exoc3l	chr8:105289923-105296098	NOTEST	0.484309	0.624167
Bdkrb2	chr12:105563171-105593071	OK	1.43733	1.85233
Lca5l	chr16:96158405-96192257	NOTEST	0.256613	0.330658
Best1	chr19:9985171-10001633	OK	0.841904	1.08475

Nop14	chr5:34638535-34660148	OK	10.284	13.25
Metap1	chr3:138458959-138489382	OK	23.8895	30.7787
Tmem179b	chr19:8772521-8786417	OK	6.521	8.40082
Rsb1l1	chr5:20893023-20956398	OK	5.5739	7.18048
Dnph1	chr17:46496788-46499618	OK	1.38054	1.77844
Otud5	chrX:7841830-7876626	OK	16.4046	21.1303
Tnrc6a	chr7:123123884-123195296	OK	11.6462	15.0005
Caprin2	chr6:148842511-148896126	OK	7.10043	9.14519
Mtfr1	chr3:19187328-19220817	OK	7.27063	9.36427
Hsp90ab1	chr17:45567777-45573261	OK	1150.32	1481.54
Jarid2	chr13:44730773-44921643	OK	5.4336	6.99811
Nfrkb	chr9:31386191-31421334	OK	4.79719	6.17663
Eef1b2	chr1:63176830-63180486	OK	56.7802	73.0996
Zbtb7a	chr10:81136270-81151657	OK	27.6414	35.5813
Akirin2	chr4:34550614-34614942	OK	48.879	62.9085
Atad3aos	chr4:155761191-155763560	NOTEST	0.295777	0.380665
2610020C07Rik	chr16:11203382-11254325	NOTEST	0.0604541	0.0778044
P4htm	chr9:108578825-108597600	OK	29.3375	37.7563
Dnah17	chr11:117986856-118129219	NOTEST	0.0706397	0.090903
Grpel2	chr18:61712423-61726331	OK	5.40257	6.95165
Bola1	chr3:96196587-96197586	OK	8.52987	10.971
Grik5	chr7:25009850-25072369	OK	14.5896	18.7627
Maoa	chrX:16619697-16687812	OK	24.216	31.14
Ap3m1	chr14:21033741-21052442	OK	14.3668	18.4743
Ifrd1	chr12:40203128-40223189	OK	10.5608	13.5802
Pus7l	chr15:94522639-94543507	OK	1.38598	1.78216
Nup35	chr2:80638811-80660071	OK	1.06043	1.36335
Catsperg1	chr7:29181531-29214033	NOTEST	0.0252064	0.0324061
Kif5b	chr18:6201004-6241524	OK	138.54	178.071
Zmym1	chr4:127047093-127061132	OK	5.2366	6.73032
2410004N09Rik	chr18:33794891-33795989	OK	4.79322	6.16034
Gm10584	chr7:132236254-132318291	NOTEST	0.326602	0.419713
Vill	chr9:119052777-119071525	NOTEST	0.272267	0.34986
Kctd18	chr1:57955100-57970084	OK	4.78815	6.15249
Ccdc142	chr6:83101515-83109932	OK	1.01027	1.29789
Gdpc3	chr7:126766413-126775645	OK	3.6209	4.6517
Mtfr1l	chr10:5811886-5823943	OK	1.94238	2.49521
Tbkbp1	chr11:97136170-97149712	OK	7.45234	9.57279
Sub1	chr15:11981338-11996007	OK	30.978	39.7917
Yy1	chr12:108793310-108816632	OK	18.3656	23.59
Gm1943	chr8:109339799-109340908	OK	4.45691	5.72468
Zc2hc1a	chr3:7503425-7553848	OK	44.7811	57.5184
Snx4	chr16:33251455-33299562	OK	24.8226	31.8814
Cmpk2	chr12:26469214-26479837	OK	12.8857	16.55
Gpr116	chr17:43389465-43459557	OK	9.16866	11.7741
Ing5	chr1:93803964-93822100	OK	2.62692	3.37296
Clta	chr4:44012642-44032848	OK	197.817	253.974
Exo5	chr4:120921201-120925005	OK	3.64672	4.6819
Fryl	chr5:73020190-73256618	OK	23.3836	30.0177
Rpf2	chr10:40223245-40247039	OK	9.19227	11.8001
Glt1d1	chr5:127632261-127707520	OK	3.09389	3.97161
Hnrnph1	chr11:50377718-50386528	OK	57.4924	73.7914
Dram2	chr3:106547797-106575341	OK	25.6397	32.8969

Ncoa7	chr10:30645581-30803107	OK	59.3275	76.1133
Shcbp1	chr8:4735979-4779534	NOTEST	0.55853	0.716374
Ska2	chr11:86583864-87555823	OK	4.1145	5.27708
Cdk8	chr5:146231674-146302874	OK	7.48742	9.60171
Sirt6	chr10:81621785-81627608	OK	7.62692	9.78021
Rhoq	chr17:86963110-87025401	OK	34.9823	44.855
Car2	chr3:14886425-14900770	OK	52.0851	66.7791
Zdhhc18	chr4:133606991-133633429	OK	30.6669	39.3158
Abtb2	chr2:103566309-103718423	OK	20.1527	25.8356
Pdss1	chr2:22895521-23040241	OK	2.37835	3.04818
Atg3	chr16:45158828-45188538	OK	34.0779	43.6694
Oasl2	chr5:114896933-114912245	OK	14.6071	18.7179
Zfp462	chr4:54947944-55083563	OK	5.99083	7.67587
Zmynd11	chr13:9684835-9765314	OK	20.6837	26.5009
Srp54a	chr12:55080495-55115367	OK	4.06915	5.21279
Cnot2	chr10:116485160-116581511	OK	12.218	15.6508
Gnl3	chr14:30999825-31019131	OK	11.7447	15.0439
Scml4	chr10:42860511-42960782	OK	2.52352	3.23188
Orai3	chr7:127769814-127775150	OK	10.5345	13.4906
Rundc3a	chr11:102393402-102402939	OK	86.472	110.728
Scnm1	chr3:95129718-95134012	OK	16.9477	21.7003
Zcchc8	chr5:123698301-123721044	OK	2.82255	3.61386
Ppp2cb	chr8:33599620-33641976	OK	57.5916	73.7359
Tchp	chr5:114707778-114722327	OK	2.32827	2.9809
Gpatch8	chr11:102475915-102556158	OK	11.4874	14.7073
Pafah2	chr4:134396319-134427412	OK	6.73534	8.62275
Zbtb24	chr10:41450357-41465582	OK	4.0055	5.1277
Aadat	chr8:60506123-60545677	NOTEST	0.154383	0.197614
Lmna	chr3:88481147-88503352	OK	52.68	67.4207
Tarbp2	chr15:102518191-102523676	OK	2.83231	3.62454
9130401M01Rik	chr15:58022270-58034294	OK	12.9785	16.6085
Ap1g2	chr14:55094783-55106593	OK	0.718732	0.919741
Fdps	chr3:89093587-89101967	OK	20.846	26.6757
Idi1	chr13:8885605-8892396	OK	11.278	14.4318
Zfp61	chr7:24291045-24299549	OK	2.64115	3.37899
Zc3h6	chr2:128967401-129018563	OK	1.79585	2.29744
Zfp157	chr5:138441475-138460694	OK	2.143	2.74145
Prrt2	chr7:127017541-127021211	OK	52.7652	67.4997
Rpl8	chr15:76904070-76906318	OK	205.267	262.552
Thrb	chr14:17660959-18038088	OK	1.25935	1.61079
Mgst2	chr3:51661192-51682675	NOTEST	0.362555	0.463728
Chst12	chr5:140505608-140525238	OK	30.998	39.6414
Fip1l1	chr5:74535481-74702903	OK	13.4766	17.2338
Slc39a6	chr18:24579880-24603817	OK	40.5028	51.7945
Nelfa	chr5:33898179-33936258	OK	5.21215	6.66503
Egln2	chr7:27158657-27166802	OK	49.0063	62.6608
Tmem74b	chr2:151702007-151707310	OK	1.15697	1.47931
Hax1	chr3:89995445-89998716	OK	7.56285	9.66944
Srsf7	chr17:80200079-80207305	OK	31.0143	39.6509
Nbea	chr3:55625197-56183701	OK	4.04547	5.17156
Ipcef1	chr10:6788600-7038209	NOTEST	0.26265	0.335757
Unkl	chr17:25188399-25240116	OK	5.36998	6.86313
4930412C18Rik	chr4:9770584-9823411	OK	1.69172	2.16207

Siah2	chr3:58674948-58692388	OK	6.93666	8.86514
Nufip2	chr11:77686138-77717966	OK	13.5049	17.257
Adh7	chr3:138210716-138239663	NOTEST	0.372999	0.476627
Mphosph8	chr14:56668247-56701000	OK	29.9807	38.31
Eif2ak3	chr6:70844526-70905240	OK	14.0958	18.0101
Ccdc9	chr7:16274041-16286795	OK	9.47119	12.1007
Plcd3	chr11:103070295-103101658	OK	1.56361	1.99708
Ift88	chr14:57424070-57517936	OK	8.2664	10.5563
Rragd	chr4:32982997-33022180	OK	20.6162	26.3176
Kctd5	chr17:24047719-24073485	OK	18.1512	23.1703
Trnau1ap	chr4:132311762-132329538	OK	7.56973	9.66132
Uchl3	chr14:101653966-101696125	OK	7.54989	9.63568
Dnmt1	chr9:20907205-20959888	OK	8.7559	11.1731
Atp8a1	chr5:67618138-67847431	OK	68.2576	87.0939
Dpysl5	chr5:30711894-30799369	OK	40.0023	51.0404
Cecr2	chr6:120666420-120771191	NOTEST	0.375469	0.479063
Hist2h2aa2	chr3:96245456-96246052	NOTEST	0.000110085	0.00014046
Pacrgl	chr5:48372391-48388756	OK	6.58411	8.39941
Nop58	chr1:59685005-59711510	OK	14.7056	18.7535
Slc9a6	chrX:56609834-56664230	OK	58.4741	74.569
Mapk14	chr17:28691341-28748405	OK	21.6595	27.6193
Cep85	chr4:134129857-134187085	OK	4.01121	5.11491
Zfp52	chr17:21535538-21562601	OK	3.39258	4.32603
Gfod2	chr8:105716112-105758607	OK	14.0644	17.9328
Fen1	chr19:10199131-10203943	OK	6.36359	8.11374
Ddah1	chr3:145758691-145894277	OK	18.5647	23.6691
Runx1t1	chr4:13743301-13895055	OK	4.0226	5.12852
2810004N23Rik	chr8:124839354-124863029	OK	11.1758	14.2479
Fam3a	chrX:74384719-74393139	OK	13.7101	17.4788
Mtfr2	chr10:20347818-20361669	NOTEST	0.19264	0.245593
Arl13b	chr16:62793688-62847040	OK	3.32756	4.24134
Nphp3	chr9:104002543-104043811	OK	1.13788	1.45009
Lrch2	chrX:147471693-147554081	OK	2.16163	2.75459
Drap1	chr19:5406814-5424979	OK	52.7178	67.1617
Eif3h	chr15:51786562-51865461	OK	39.0603	49.7552
Baiap3	chr17:25240169-25256364	NOTEST	0.0811303	0.103341
Kcnd1	chrX:7823842-7836503	OK	83.4742	106.315
H2-T9	chr17:36038408-36042702	OK	2.41751	3.07874
Zfp13	chr17:23575851-23599487	OK	2.39357	3.048
Praf2	chrX:7728570-7731063	OK	90.9903	115.867
Hint3	chr10:30608206-30618366	OK	39.282	50.0097
Traf3ip1	chr1:91494667-91529307	OK	3.2353	4.11859
Gm960	chr19:4625840-4698668	NOTEST	0.13394	0.170491
Rbfox3	chr11:118489759-118911597	OK	77.4856	98.6285
Med8	chr4:118409336-118415824	OK	13.7933	17.5565
Ropn1	chr16:34651210-34678610	NOTEST	0.166272	0.21163
Eed	chr7:89954653-89980976	OK	5.95105	7.57435
Fxr1	chr3:34020078-34081354	OK	73.3216	93.3202
Prkaa2	chr4:105029649-105109898	OK	12.6232	16.0645
Kirrel3	chr9:34488730-35036307	OK	13.6581	17.3805
Med15	chr16:17651207-17722947	OK	18.3831	23.3898
Gfer	chr17:24693190-24696156	OK	5.1896	6.60297
Catal	chr2:34874435-34892133	NOTEST	0.24526	0.312002

Upk1b	chr16:38773183-38800203	NOTEST	0.0663974	0.0844652
2700062C07Rik	chr18:24470870-24477767	OK	3.84296	4.88829
Ankrd49	chr9:14780197-14782964	OK	6.18071	7.8616
Gltscr1l	chr17:46798115-46831413	OK	6.19333	7.87762
Wdr35	chr12:8974000-9028847	OK	9.6766	12.3075
Rab3il1	chr19:10018227-10035586	OK	2.42723	3.08699
AI429214	chr8:36993574-36995533	OK	0.742668	0.944492
Uba7	chr9:107975566-107984056	OK	2.02934	2.5808
Zfp455	chr13:67194505-67209298	OK	0.721556	0.917551
Shoc2	chr19:53892230-54033278	OK	32.7167	41.5981
Srsf1	chr11:88047372-88053757	OK	30.437	38.6986
Caap1	chr4:94500078-94556796	OK	3.43824	4.37147
Gmds	chr13:31819585-32338544	OK	8.75039	11.1243
Utp14a	chrX:48256933-48285426	OK	6.1098	7.76723
Ipo8	chr6:148770683-148831467	OK	18.8212	23.9261
Pnkp	chr7:44857145-44862929	OK	10.1461	12.8975
Ubb	chr11:62551503-62553212	OK	775.788	986.037
Tgfbrap1	chr1:43047268-43098622	OK	12.2807	15.6036
Fam60a	chr6:148921058-148946432	NOTEST	0.305624	0.388305
2900055J20Rik	chr18:40256961-40257687	OK	6.43375	8.17299
Adora1	chr1:134193447-134235457	OK	34.4927	43.8114
Acaa1a	chr9:119341293-119350295	OK	19.7016	25.0241
Jmjd6	chr11:116837431-116843449	OK	7.8373	9.95407
Phf1	chr17:26933126-26937890	OK	16.8584	21.4114
Gpr68	chr12:100876681-100908198	OK	1.66626	2.11625
Cwc22	chr2:77895652-77946356	OK	1.33668	1.69765
Wdr78	chr4:103038064-103114299	OK	1.52583	1.93733
Dgcr8	chr16:18248882-18289168	OK	7.70543	9.78306
Tle4	chr19:14448071-14597983	OK	16.9735	21.5491
Nufip1	chr14:76110890-76137379	OK	3.18107	4.03841
E130309D14Rik	chr11:74619604-74641516	OK	11.8809	15.0826
Yod1	chr1:130689042-130729253	OK	4.51676	5.73395
Fkbp1a	chr2:151542498-151561691	OK	234.539	297.718
Gtf2h1	chr7:46796093-46823800	OK	16.2292	20.599
Ip6k2	chr9:108795993-108806333	OK	22.0996	28.0496
Specc1	chr11:61956762-62223013	OK	2.34517	2.97647
Stip1	chr19:7020695-7040026	OK	126.306	160.244
Commd1	chr11:22899727-22982284	OK	35.0553	44.4699
3110056K07Rik	chr12:70974622-71015823	OK	2.8952	3.67244
Crebrf	chr17:26715649-26776626	OK	11.0887	14.0645
Mcm4	chr16:15623896-15637400	OK	4.87265	6.17939
Rmdn3	chr2:119136997-119157034	OK	9.01206	11.4273
Pkn1	chr8:83666639-83699179	OK	12.3964	15.7178
Ankrd54	chr15:79053093-79062859	OK	5.28632	6.70241
Sepw1	chr7:15917207-15922371	OK	525.486	666.249
Crat	chr2:30392253-30415748	OK	8.45791	10.7208
Hdgf	chr3:87906320-87916132	OK	70.4198	89.2553
Pwp2	chr10:78170909-78185149	OK	8.03134	10.1793
Mmp24	chr2:155775343-155819203	OK	11.9273	15.1172
Zfp74	chr7:29932790-29951893	OK	3.09019	3.91591
Lgals3bp	chr11:118392751-118401931	OK	31.9653	40.504
BB283400	chr6:30176622-30178040	NOTEST	0.246462	0.312296
Zfp26	chr9:20428317-20460160	OK	2.60835	3.30496

Arl8a	chr1:135146833-135156268	OK	203.789	258.183
Agap3	chr5:24452176-24502047	OK	52.6592	66.7135
Sat2	chr11:69622108-69623869	OK	3.58304	4.53923
Gm765	chr6:98238013-98342754	OK	84.6957	107.286
Tnfaip8	chr18:49979426-50093229	OK	1.31671	1.66789
Gas2l1	chr11:5054130-5065327	OK	25.8709	32.7705
Agbl4	chr4:110397697-111663024	OK	0.949075	1.20208
Zfp869	chr8:69705136-69716902	OK	5.54393	7.02172
Uba3	chr6:97183815-97205642	OK	48.1124	60.9302
Cnppd1	chr1:75135214-75142368	OK	14.5443	18.419
Armc3	chr2:19199117-19310243	NOTEST	0.00660951	0.00837028
Rpl21	chr5:146832889-146837032	OK	4.86683	6.16319
Suv39h1	chrX:8061170-8074760	OK	6.71985	8.5097
Clock	chr5:76183879-76469519	OK	9.11481	11.5424
Mrpl14	chr17:45686371-45698495	OK	24.5004	31.0251
Ptpn12	chr5:20986644-21055797	OK	13.4621	17.0467
Polh	chr17:46171992-46202625	OK	3.50584	4.43923
Maz	chr7:127022136-127026479	OK	41.3791	52.3903
Plekhf2	chr4:10988661-11007619	OK	3.79757	4.80784
Hdgfrp3	chr7:81859000-81934459	OK	13.2463	16.7698
Trmt61a	chr12:111678104-111683902	OK	4.43562	5.61538
Mx2	chr16:97536080-97560901	OK	1.0573	1.33835
Smim14	chr5:65448754-65492835	OK	57.4799	72.7567
Eif2s2	chr2:154871409-154892906	OK	11.2062	14.1844
Pp2d1	chr17:53479233-53539451	NOTEST	0.0151366	0.0191585
Gck	chr11:5900820-5950081	NOTEST	0.154679	0.195731
Mfng	chr15:78755882-78773445	OK	1.04478	1.32193
Tcf3	chr10:80409164-80433653	OK	6.04301	7.64476
Ddx18	chr1:121553834-121567980	OK	1.7569	2.22232
Irf5	chr6:29526624-29537320	OK	2.20208	2.78528
Foxl2	chr9:98955606-98958126	NOTEST	0.0727383	0.0920005
Rtfdc1	chr2:172440577-172469899	OK	47.1706	59.6604
Dctn1	chr6:83165923-83200118	OK	171.409	216.776
Ago2	chr15:73101624-73184947	OK	11.2739	14.2557
Mblac2	chr13:81711416-81753275	OK	13.0041	16.4434
3110057012Rik	chr3:40894276-40936307	OK	0.913914	1.1556
Hspbap1	chr16:35770385-35828462	OK	1.75039	2.21314
Mcrs1	chr15:99224975-99262041	OK	3.59584	4.5464
Ccnt2	chr1:127774163-127804837	OK	10.2573	12.9685
Fsd1l	chr4:53631470-53707009	OK	23.6613	29.9146
Pcbp4	chr9:106453837-106465940	OK	104.978	132.711
Akap8	chr17:32303675-32321153	OK	14.0635	17.7761
Tjap1	chr17:46257850-46283026	OK	3.32505	4.2026
Blzf1	chr1:164289799-164307484	OK	7.46554	9.43561
Gse1	chr8:120488865-120589075	OK	5.79108	7.31923
Glis1	chr4:107434718-107635059	NOTEST	0.207598	0.262332
Pibf1	chr14:99076633-99254494	OK	3.43709	4.34326
Ezh1	chr11:101191114-101226450	OK	20.9672	26.4913
BC048403	chr10:121739936-121752859	OK	6.71983	8.48981
Cradd	chr10:95174745-95324097	OK	4.59793	5.80897
Tcf7	chr11:52252603-52282571	OK	1.13847	1.43823
Gm3488	chr14:5516278-5522929	NOTEST	0.0111748	0.0141171
Aup1	chr6:83054652-83057682	OK	30.3839	38.3817

Tmeff2	chr1:50927522-51187270	OK	40.4556	51.1041
Il6st	chr13:112464069-112506860	OK	128.608	162.426
Usp15	chr10:123113243-123196923	OK	35.2381	44.5021
Rfxap	chr3:54803114-54807791	OK	6.89675	8.70962
Rev3l	chr10:39732159-39875205	OK	3.72617	4.70533
Mettl18	chr1:163994944-163997244	OK	2.11197	2.66667
Dph5	chr3:115888182-115929323	OK	7.6162	9.61565
Zfp944	chr17:22337988-22361400	OK	4.33647	5.47468
Dcps	chr9:35046578-35175987	OK	7.10807	8.97375
Txlng	chrX:162407199-163352564	OK	4.72629	5.96574
Ccdc148	chr2:58821697-59018606	OK	1.82689	2.30592
1110065P20Rik	chr4:124802548-124850730	OK	20.994	26.4986
Ccdc67	chr9:15559863-15641220	NOTEST	0.068325	0.0862294
Zfp414	chr17:33629091-33631714	OK	14.4635	18.2516
Cdkn2aipnl	chr11:51967630-51977336	OK	19.9012	25.1127
Trim67	chr8:124793018-124834704	OK	16.528	20.856
Cdpf1	chr15:85806971-85811697	OK	10.1299	12.7806
Zfp935	chr13:62453015-62466812	OK	3.72513	4.69946
Bean1	chr8:104170512-104219097	OK	38.9508	49.1346
Zfp207	chr11:80383278-80405873	OK	35.5801	44.8799
Nxph4	chr10:127525472-127534559	OK	0.931196	1.1743
Gpr161	chr1:165295765-165321851	OK	6.49424	8.18947
Nras	chr3:103058284-103067914	OK	26.6041	33.5404
Fam171a2	chr11:102436980-102447663	OK	15.9849	20.152
Ghr	chr15:3317754-3583352	OK	16.0566	20.2391
Cinp	chr12:110872609-110889145	OK	14.3726	18.1139
S100a10	chr3:93555116-93564645	OK	588.072	741.137
Ddx27	chr2:167015312-167034945	OK	8.03676	10.1285
Plekhj1	chr10:80796098-80798626	OK	19.2347	24.24
Src	chr2:157424292-157471838	OK	16.1921	20.405
Wdr44	chrX:23693116-23806001	OK	11.765	14.8259
Mc3r	chr2:172248491-172251114	NOTEST	0.130266	0.164116
Gsr	chr8:33653237-33698162	OK	39.689	50.0019
Trp53bp1	chr2:121171167-121271407	OK	15.5774	19.6249
Timm13	chr10:80879815-80900969	OK	49.1759	61.9372
Dpf2	chr19:5896515-5912871	OK	25.3945	31.9831
Rqcd1	chr1:74409383-74588028	OK	8.77182	11.0469
Ranbp1	chr16:18239978-18248694	OK	43.5839	54.8876
Cox5b	chr1:36691486-36693388	OK	11.22	14.1296
Polm	chr11:5827859-5838016	OK	1.48553	1.87071
Mthfs	chr9:89211189-89240225	OK	3.8878	4.89543
Rexo1	chr10:80540925-80561560	OK	5.46681	6.88331
Fbxl3	chr14:103080238-103099509	OK	20.2243	25.4634
Qtrt1	chr9:21411836-21420279	OK	3.15484	3.97209
Rgs7bp	chr13:104947152-105054930	OK	119.055	149.877
Ppp1r36	chr12:76417598-76439491	NOTEST	0.364967	0.459427
Atf2	chr2:73816508-73892639	OK	23.1603	29.1545
Phf7	chr14:31237695-31251218	OK	1.46863	1.84859
Plek	chr11:16971205-17008718	OK	2.29079	2.88335
Bend3	chr10:43479139-43515417	OK	1.80735	2.2746
Glmn	chr5:107534710-107661853	OK	5.91595	7.44467
Etaa1	chr11:17938748-17953875	OK	3.07142	3.86492
Rnf113a1	chrX:37191342-37192465	OK	1.8052	2.2715

Dtymk	chr1:93792575-93801934	OK	18.7892	23.6407
Mfhas1	chr8:35582502-35679449	OK	20.3653	25.6233
Mark2	chr19:7275395-7341860	OK	22.2711	28.0199
Pwp1	chr10:85871830-85889103	OK	10.5607	13.2867
Cdr2	chr7:120957036-120982312	OK	25.9988	32.7087
Pcdha10	chr18:36930284-37841872	OK	2.72173	3.42401
Rp1	chr1:4290845-4409241	NOTEST	0.00982648	0.0123618
Txnrd2	chr16:18348181-18479073	OK	6.88566	8.66165
Srsf6	chr2:162931507-162937120	OK	35.5607	44.7315
Cabin1	chr10:75646109-75764357	OK	7.66995	9.64775
Safb	chr17:56584981-56606294	OK	20.55	25.8488
Aplf	chr6:87628428-87672168	OK	1.99041	2.50339
Adora2a	chr10:75316876-75334792	OK	2.56491	3.22571
Gbp10	chr5:105215698-105239533	NOTEST	0.0251953	0.0316823
Coro1b	chr19:4148662-4154035	OK	43.3641	54.5269
Top3a	chr11:60740058-60777365	OK	1.96962	2.4765
Ccar1	chr10:62743927-62792368	OK	13.6934	17.2171
Mcts2	chr2:152669460-152708668	OK	8.5146	10.7051
Piwil2	chr14:70372479-70429094	NOTEST	0.490763	0.617009
Rheb	chr5:24802822-24842361	OK	81.9203	102.979
Kdm1a	chr4:136550532-136602723	OK	20.2931	25.5078
Rims3	chr4:120877868-120891560	OK	50.2934	63.1945
Ptov1	chr7:44863067-44869788	OK	64.1825	80.635
Riok3	chr18:12128849-12157367	OK	24.2869	30.512
Ube3a	chr7:59228749-59306727	OK	28.0804	35.2774
Hnrnpf	chr6:117900339-117925622	OK	16.9863	21.3392
Ids	chrX:70343069-70365085	OK	132.325	166.217
Bik	chr15:83526861-83544635	NOTEST	0.483631	0.607494
Tmem234	chr4:129600706-129607879	OK	46.9629	58.9797
B230219D22Rik	chr13:55693123-55703500	OK	34.7109	43.5924
Mtus1	chr8:40990911-41133726	OK	34.4978	43.3245
Tet2	chr3:133463676-133544390	OK	1.71313	2.1514
Evpl	chr11:116220558-116238091	NOTEST	0.155518	0.195294
Snrnp48	chr13:38204938-38227663	OK	7.15499	8.98485
Reep4	chr14:70545250-70548935	OK	2.8089	3.52704
H2-M3	chr17:37270233-37274485	OK	5.50269	6.90856
Hdac4	chr1:91932748-92148393	OK	7.7931	9.78393
Nsl1	chr1:191063020-191084558	OK	0.838933	1.05325
Mir8104	chr10:122678761-122945793	LOWDAT	1374.47	1725.5
Ufd1l	chr16:18812293-18835261	OK	38.5186	48.3542
Uap1l1	chr2:25361491-25365626	OK	9.14701	11.4823
6330403K07Rik	chr11:71031940-71033617	OK	64.1932	80.5804
Nup85	chr11:115564443-115583924	OK	11.6301	14.5988
Tmem131	chr1:36792188-36939527	OK	16.4165	20.6044
Lrrc29	chr8:105312339-105326276	NOTEST	0.526258	0.660498
Fam217a	chr13:34909963-34919992	NOTEST	0.0249093	0.0312501
2810047C21Rik1	chr7:8086046-8093037	NOTEST	0.151817	0.190448
Sart3	chr5:113742445-113771649	OK	9.02126	11.3166
Rpl27a	chr7:109519194-109522369	OK	25.1383	31.533
Exoc5	chr14:49012143-49087723	OK	20.6231	25.8684
B4galt6	chr18:20684598-20746404	OK	35.1549	44.096
Lymr2	chr4:32800258-32802254	OK	16.2282	20.3509
Bcap29	chr12:31595353-31634658	OK	34.2932	43.0034

Mcoln1	chr8:3500518-3515231	OK	29.6657	37.192
Snrpa	chr7:27187005-27205386	OK	14.4088	18.0635
Pigu	chr2:155278251-155357424	OK	21.9625	27.5307
Inadl	chr4:98395825-98719603	OK	33.1897	41.6025
Rtkn	chr6:83135807-83152579	OK	30.2915	37.9669
B930003M22Rik	chr17:10319918-10321141	NOTEST	0.38671	0.484677
Rpl18a	chr8:70894721-70897443	OK	5.09413	6.38449
Grm7	chr6:110645597-111567230	OK	25.6557	32.1534
Setd1a	chr7:127777388-127800119	OK	7.86665	9.85865
Mettl17	chr14:51884841-51891868	OK	3.30551	4.14242
Galt	chr4:41755252-41759125	OK	5.78846	7.2531
Rb1	chr14:73195501-73325791	OK	10.3049	12.9106
Cttn	chr7:143948404-144470935	OK	39.3595	49.3094
Fam154b	chr7:82632959-82648528	NOTEST	0.153521	0.192315
Gimap4	chr6:48684577-48692062	OK	2.70023	3.38186
Zkscan14	chr5:145194945-145201882	OK	3.55002	4.44608
Caml	chr13:55623004-55632416	OK	33.8048	42.3337
Srp19	chr18:34331144-34336599	OK	46.8607	58.6786
Rev1	chr1:37998009-38129662	OK	3.19315	3.99836
Nagpa	chr16:5195279-5204012	OK	4.46737	5.59379
Rab12	chr15:89582526-89591923	OK	8.67878	10.8655
Atox1	chr11:55446642-55461138	OK	103.2	129.193
Zfp131	chr13:119765186-119790805	OK	8.40271	10.5188
Hoxd10	chr2:74691890-74695106	OK	2.32167	2.9063
Prkar2a	chr9:108692142-108749511	OK	54.297	67.967
Arrdc3	chr13:80883421-80896043	OK	9.65931	12.0896
Mrps25	chr6:92091417-92184023	OK	6.37689	7.98079
Cldn5	chr16:18776846-18778262	OK	21.5105	26.9158
Sox12	chr2:152393611-152398046	OK	4.84058	6.05681
Arid4b	chr13:14063783-14199603	OK	7.29058	9.12205
Rundc3b	chr5:8490335-8622952	OK	8.17063	10.2231
Arhgap23	chr11:97450159-97502400	OK	11.2652	14.0926
Neil1	chr9:57143255-57147034	OK	1.58073	1.97742
Brf1	chr12:112959861-113000621	OK	13.9974	17.5094
Cd207	chr6:83671206-83677857	NOTEST	0.0873782	0.109292
Pirt	chr11:66905631-66947086	OK	268.09	335.321
Hectd3	chr4:116995347-117005277	OK	20.6675	25.8479
Adcyap1	chr17:93199421-93205489	OK	44.5798	55.7524
Ccdc124	chr8:70868226-70873490	OK	81.3809	101.749
C4bp-ps1	chr1:130670201-130681571	NOTEST	0.0312984	0.0391234
Ccdc181	chr1:164275597-164287847	OK	16.4564	20.5693
Prr24	chr7:16272012-16273692	OK	14.8059	18.5049
Nsa2	chr13:97067286-97137926	OK	4.29489	5.36766
Wdr1	chr5:38526812-38561595	OK	109.528	136.882
Fbxl6	chr15:76535727-76538746	OK	7.71261	9.63827
Dcun1d3	chr7:119853162-119895745	OK	6.35817	7.94491
Cdc14b	chr13:64192544-64274988	OK	4.73957	5.92233
Limk2	chr11:3202352-3479831	OK	32.3705	40.4461
2410089E03Rik	chr15:8169105-8271158	OK	4.45919	5.57127
Senp6	chr9:80066902-80144780	OK	19.2715	24.0768
Set	chr2:30061995-30072577	OK	29.2688	36.5598
Vps37d	chr5:135072899-135078266	OK	4.38974	5.48257
Strip1	chr3:107612531-107631710	OK	15.8829	19.8365

1500011K16Rik	chr2:127791376-127792488	OK	28.1194	35.1181
Trim7	chr11:48826137-48850195	OK	1.29802	1.62107
Pycr2	chr1:180904273-180908088	OK	16.7703	20.9426
Rbm28	chr6:29123572-29164724	OK	7.36634	9.19867
Cml1	chr6:85910153-85915677	OK	3.574	4.46285
Hnrnpa2b1	chr6:51460434-51469894	OK	83.8237	104.649
Dcaf4	chr12:83520465-83541992	OK	10.5695	13.1954
Ikzf5	chr7:131388648-131410478	OK	3.70137	4.62092
Rbl1	chr2:157145893-157204534	OK	0.712958	0.890066
Smagp	chr15:100621339-100636940	OK	1.01289	1.26437
Capn10	chr1:92933542-92950590	OK	10.2212	12.7585
Nfyb	chr10:82748699-82764141	OK	8.63147	10.7737
Ube2f	chr1:91250318-91286025	OK	13.5639	16.9303
Arv1	chr8:124722138-124734123	OK	2.83614	3.53986
1810009A15Rik	chr19:8883877-8890759	OK	15.131	18.8844
Hnrnp3	chr10:62980222-63023849	OK	10.5186	13.1268
Otud1	chr2:19658061-19660590	OK	4.93043	6.1523
Rfng	chr11:120780744-120784204	OK	16.2301	20.2499
D10Bwg1379e	chr10:18588010-18743758	OK	15.3614	19.1655
Plgrkt	chr19:29348676-29361871	OK	8.80561	10.9826
Lasp1	chr11:97799671-97838764	OK	38.6557	48.2102
Siah1b	chrX:164070702-164076049	OK	1.76444	2.20055
Rab21	chr10:115289861-115315591	OK	67.9789	84.78
Use1	chr8:71366847-71369732	OK	59.3756	74.0493
9330133O14Rik	chr8:122443655-122451322	OK	1.27295	1.58746
Ncor2	chr5:125017152-125179214	OK	17.0283	21.2353
Ube2b	chr11:51985145-52000466	OK	107.696	134.303
Pes1	chr11:3963974-3980004	OK	7.57287	9.44323
Ccsap	chr8:123840843-123860209	OK	1.41909	1.76948
Tceb2	chr17:23803186-23829109	OK	120.873	150.715
Peli3	chr19:4931854-4943092	OK	9.4653	11.802
Trappc9	chr15:72589619-73061204	OK	36.7127	45.7728
Fzr1	chr10:81366878-81378370	OK	24.5662	30.6278
Rap1gap2	chr11:74383482-74590158	OK	37.789	47.1121
Cers5	chr15:99735591-99772515	OK	25.9717	32.3792
Afmid	chr11:117815518-117839908	OK	1.50075	1.87096
Fdft1	chr14:63122461-63177793	OK	86.9907	108.44
Akt1s1	chr7:44849223-44855421	OK	30.5409	38.0599
Nudt1	chr5:140331921-140338135	OK	5.13711	6.40023
Alg8	chr7:97371616-97392158	OK	2.9698	3.69928
Nipal3	chr4:135448900-135494504	OK	157.714	196.447
Tut1	chr19:8953849-8966210	OK	5.94756	7.40763
Rpap1	chr2:119763958-119787537	OK	4.3375	5.40227
Nr1i3	chr1:171213969-171222514	NOTEST	0.105303	0.131146
Ogfod2	chr5:124112337-124115476	OK	14.4742	18.022
3632451O06Rik	chr14:49682018-49783367	OK	63.7431	79.3666
Rmi1	chr13:58391950-58411149	OK	3.01185	3.74965
Scyl3	chr1:163929099-163994781	OK	4.67497	5.82013
Hnrnpdl	chr5:100033578-100039222	OK	25.6796	31.9693
Naca	chr10:128035345-128048637	OK	4.96631	6.18268
Mak16	chr8:31150315-31168724	OK	7.51249	9.35229
Ssbp4	chr8:70597489-70608314	OK	11.9998	14.9379
Parp2	chr14:50807945-50821300	OK	6.37047	7.93

Dnaja7	chr11:100582835-100620168	OK	71.331	88.7918
B4galt1	chr4:40804581-40854537	OK	8.3358	10.3756
Rbm34	chr8:126947172-126971079	OK	7.45433	9.27795
Slc38a7	chr8:95835922-95853491	OK	15.0675	18.7523
Zwilch	chr9:64117146-64172931	OK	1.92893	2.40045
Polr3e	chr7:120917743-120947432	OK	6.32239	7.8673
Gpank1	chr17:35121495-35124815	OK	5.48054	6.81958
Trim38	chr13:23782540-23791528	NOTEST	0.152141	0.189297
Zfp287	chr11:62711485-62729093	OK	2.87852	3.58103
Tmem181a	chr17:6270469-6317474	OK	11.2274	13.9659
Med12l	chr3:59006977-59344256	OK	7.28396	9.06043
Ormdl1	chr1:53297094-53310245	OK	7.64052	9.50288
Zfp553	chr7:127233442-127237860	OK	4.69279	5.83653
Aldh3b1	chr19:3913490-3929716	OK	5.42448	6.7462
Rps24	chr14:24490680-24496146	OK	13.4944	16.7818
Ccnc	chr4:21727700-21767211	OK	30.2218	37.584
Ythdc1	chr5:86804489-86836657	OK	14.8503	18.4675
Cpsf7	chr19:10525243-10547735	OK	14.8954	18.5229
Lurap1l	chr4:80910685-80954301	OK	11.1911	13.9153
Mrps12	chr7:28739640-28741781	OK	38.6999	48.1201
Thap7	chr16:17527981-17531052	OK	10.5696	13.1414
Cdkn1b	chr6:134920400-134925525	OK	39.6843	49.3371
Cdnf	chr2:3513064-3526376	OK	3.20375	3.98248
Pthr2	chr11:86583864-87555823	OK	3.9724	4.93721
Rexo4	chr2:26953562-26964386	OK	12.2483	15.2208
Evi5	chr5:107744794-107875107	OK	28.8348	35.8323
Tcea1	chr1:4857693-4897909	OK	8.6913	10.7999
Add2	chr6:86028680-86124409	OK	69.448	86.2881
Dcaf13	chr15:39112873-39146855	OK	18.304	22.7382
Chic2	chr5:75006423-75044626	OK	9.5363	11.846
Hist3h2ba	chr11:58948910-58949372	OK	14.7779	18.3567
Rassf3	chr10:121410350-121476250	OK	23.811	29.5767
Spsb3	chr17:24886673-24892147	OK	20.7326	25.7526
Zfp688	chr7:127418965-127422034	OK	5.9346	7.37083
Wdr83os	chr8:85080962-85082339	OK	20.5622	25.5375
Lgi1	chr19:38264781-38308939	OK	18.1029	22.4815
Erh	chr12:80634022-80643861	OK	13.4362	16.686
Igfbp2	chr1:72824479-72852471	OK	7.74411	9.61625
Mif4gd	chr11:115607918-115612969	OK	6.99931	8.69106
Gimap5	chr6:48746196-48754200	OK	0.998289	1.23941
Zfp653	chr9:22055459-22389206	OK	3.02615	3.75621
Azi2	chr9:118040521-118150196	OK	25.8291	32.0548
Hdac7	chr15:97784364-97844502	OK	3.08082	3.82337
Cpeb4	chr11:31870939-31935635	OK	21.8928	27.1689
Trafd1	chr5:121371724-121385615	OK	16.9716	21.0608
Krba1	chr6:48395585-48419855	OK	1.86715	2.31701
Ppp1r3e	chr14:54875596-54877538	OK	9.56976	11.8751
Acat2	chr17:12943041-12960725	OK	51.4763	63.8617
Thumpd1	chr7:119715093-119720798	OK	17.1053	21.2186
Pdcd2l	chr7:34184496-34196647	OK	8.86655	10.9982
4932438A13Rik	chr3:36863105-37053033	OK	10.5892	13.1321
Dgkq	chr5:108629809-108685446	OK	12.4275	15.4114
Gm16894	chr1:40076211-40125226	NOTEST	0.639389	0.792882

Whsc1l1	chr8:25602305-25719667	OK	10.8897	13.5019
Dand5	chr8:84815404-84832265	OK	5.70602	7.07461
Mogs	chr6:83115505-83118898	OK	9.80584	12.1577
Mad2l1	chr6:66535467-66540991	OK	4.25107	5.26997
Aloxe3	chr11:69126376-69149115	NOTEST	0.0467813	0.0579929
Mdp1	chr14:55657878-55660508	OK	17.5797	21.792
Ubash3b	chr9:41013640-41157494	OK	78.4663	97.264
Noxred1	chr12:87221122-87238601	NOTEST	0.335438	0.415754
Rbm10	chrX:20615325-20650905	OK	2.736	3.39092
Dcxr	chr11:120725372-120727281	OK	2.10509	2.60871
Brat1	chr5:140705010-140719378	OK	7.88697	9.77183
Syt15	chr14:34220045-34230421	OK	1.47969	1.83299
Xpc	chr6:91489306-91515888	OK	3.81656	4.72777
Mrps33	chr6:39801806-39810936	OK	7.31873	9.06501
Nwd2	chr5:63649102-63810543	OK	11.9914	14.8512
Scmh1	chr4:120405280-120530199	OK	7.82806	9.69481
Gpsm3	chr17:34589805-34591754	OK	3.3132	4.1032
Rbm7	chr9:48488696-48495330	OK	12.7767	15.8231
Gtpbp1	chr15:79690895-79721479	OK	6.59492	8.16646
Pus7	chr5:23740164-23783711	OK	3.18997	3.94997
Cpsf6	chr10:117344667-117376973	OK	12.2726	15.1964
Nubp1	chr16:10411937-10447350	OK	8.2938	10.266
Atp6v0b	chr4:117884329-117887329	OK	202.127	250.191
Wdyhv1	chr15:58141435-58158654	OK	11.3558	14.0545
Fnbp4	chr2:90745369-90781020	OK	5.48826	6.79104
1110032F04Rik	chr3:68869585-68872163	OK	25.6682	31.761
Zscan26	chr13:21442174-21453727	OK	12.7714	15.8009
Mrpl33	chr5:31613950-31622644	OK	37.0518	45.8317
Dpysl3	chr18:43320978-43438286	OK	184.032	227.63
Il11ra2	chr4_JH584294_random:1717-1	NOTEST	4.98E-07	6.16E-07
Slc20a1	chr2:129198772-129211612	OK	41.9973	51.942
Armcx1	chrX:134717937-134721912	OK	82.6933	102.262
Exosc9	chr3:36552605-36571996	OK	19.9957	24.7245
Cep83os	chr10:94673492-94688613	OK	8.34161	10.3136
Gpi1	chr7:34201326-34230336	OK	90.8758	112.358
Hspa1a	chr17:34969358-34972156	OK	5.73643	7.09214
Prpf3	chr3:95830621-95855753	OK	4.49593	5.55836
Eif3g	chr9:20894348-20898590	OK	64.4257	79.6477
AI467606	chr7:127091435-127094049	OK	0.769688	0.951507
Ube2a	chrX:36874365-36884220	OK	42.3142	52.2996
Arpc3	chr5:122391927-122406178	OK	148.234	183.207
Zfp865	chr7:5020375-5033223	OK	4.51541	5.58053
Gab2	chr7:97081750-97308951	OK	9.79121	12.1008
C230052I12Rik	chr7:35334236-35396767	OK	2.82075	3.48607
Uba5	chr9:104046587-104063121	OK	19.3659	23.9331
Nxn	chr11:76257225-76399141	OK	10.6706	13.1871
Steap3	chr1:120226415-120271082	OK	24.0315	29.6979
Sertad2	chr11:20543252-20653023	OK	10.7214	13.2476
Snapc1	chr12:73964529-73984820	OK	16.5546	20.4548
Shc2	chr10:79617937-79637918	OK	43.1372	53.2959
Vsig10l	chr7:43463232-43472014	OK	0.980913	1.21179
Nipsnap1	chr11:4874002-4894200	OK	48.9889	60.5186
Bcl2l2	chr14:54883424-54888234	OK	64.2281	79.3417

9530051G07Rik	chrX:153037628-153072915	NOTEST	0.180099	0.222431
Cryl1	chr14:57275033-57398483	OK	6.64796	8.21029
Mmp16	chr4:17853481-18118734	OK	2.16123	2.66906
Metap2	chr10:93858489-93891202	OK	28.3951	35.0621
Msl1	chr11:98795768-98833807	OK	22.7561	28.0936
Lsm6	chr8:78804867-78821152	OK	7.67471	9.47443
Pmm2	chr16:8637706-8657524	OK	10.9951	13.5714
Ddb2	chr2:91202911-91237066	OK	2.08715	2.5759
Slc16a3	chr11:120948483-120959000	OK	0.893042	1.10213
Selk	chr14:29968379-29975074	OK	71.1424	87.7936
Gmcl1	chr6:86691767-86733378	OK	22.7945	28.126
1190007I07Rik	chr10:82619850-82623228	OK	2.37249	2.92676
Serping1	chr2:84765359-84775429	OK	65.4482	80.7216
Gga2	chr7:121986721-122021198	OK	29.2091	36.0247
Cpb1	chr3:20249483-20275729	OK	5.00328	6.16997
Cc2d1b	chr4:108619955-108634122	OK	20.7197	25.5432
Plk4	chr3:40799950-40816883	OK	2.01666	2.48614
Cyp2ab1	chr16:20308386-20325404	NOTEST	0.0279117	0.0344088
H2afz	chr3:137864486-137866922	OK	7.08793	8.73662
Rrs1	chr1:9545407-9547455	OK	8.70733	10.7317
Zfp263	chr16:3744098-3750788	OK	3.87505	4.77544
F630042J09Rik	chr13:67278593-67283361	NOTEST	0.255247	0.314543
Slc7a4	chr16:17572017-17576671	OK	6.08725	7.4999
Tubgcp3	chr8:12614276-12672100	OK	11.3972	14.0413
Tmem186	chr16:8633730-8637701	OK	6.54319	8.06089
Dph6	chr2:114516417-114654928	OK	13.2409	16.3121
Taf5l	chr8:123996312-124021309	OK	5.99973	7.38995
Klhl18	chr9:110425925-110476694	OK	5.01444	6.17567
Aip	chr19:4099997-4125858	OK	44.4734	54.7633
Dyrk3	chr1:131128440-131138234	OK	3.00364	3.69844
Klhdc4	chr8:121796307-121829569	OK	8.35863	10.2908
Wash	chr17:66111545-66120503	OK	13.3538	16.4405
Rab4a	chr8:123805995-123835291	OK	37.889	46.6379
H2-K1	chr17:33996011-34000333	OK	43.3293	53.3327
Kif26b	chr1:178529124-178932857	OK	5.04516	6.20961
Zfp775	chr6:48613179-48623227	OK	1.55763	1.91709
Pcbp3	chr10:76761853-76961947	OK	147.796	181.888
Slc48a1	chr15:97784364-97844502	OK	62.5401	76.9658
Sema3a	chr5:13396783-13603485	NOTEST	0.0907856	0.111725
Ifngr2	chr16:91547093-91564007	OK	34.418	42.3548
Kansl3	chr1:36335729-36369181	OK	18.9577	23.3292
Trpc2	chr7:102065490-102096864	NOTEST	0.468093	0.575995
2700089E24Rik	chr6:133105238-133110899	OK	33.8289	41.6242
Ccdc149	chr5:52374650-52471543	OK	12.0777	14.8607
Mccc1	chr3:35959305-36053547	OK	8.47542	10.4281
Man2c1os	chr9:57129981-57142210	NOTEST	0.360965	0.444123
Trib2	chr12:15791726-15816785	OK	40.4515	49.7571
Tmem100	chr11:90030347-90036505	OK	22.3301	27.4615
Tmem109	chr19:10870660-10881743	OK	29.8583	36.7175
Ptpn6	chr6:124720706-124738709	OK	1.32188	1.62532
Ankrd16	chr2:11777752-11790323	OK	3.11216	3.8264
Toe1	chr4:116720954-116807559	OK	5.66534	6.96503
Bicd2	chr13:49341548-49387026	OK	18.0398	22.1767

Tmem63c	chr12:87026563-87090039	OK	31.9756	39.3063
Fam98b	chr2:117249738-117271540	OK	22.4235	27.5621
Rcc2	chr4:140701472-140723220	OK	37.3695	45.9319
Mbtd1	chr11:93886218-93946984	OK	2.57267	3.16202
Stard4	chr18:33201420-33213816	OK	22.0561	27.1058
Fbxw7	chr3:84815576-84979198	OK	31.0695	38.1789
Mospd4	chr18:46464933-46465816	NOTEST	0.0490825	0.0603136
Tatdn3	chr1:191045829-191062932	OK	4.89394	6.01356
Akr1b3	chr6:34303929-34317489	NOTEST	0.523378	0.643063
Cdk18	chr1:132113546-132139685	OK	1.90666	2.34237
Dennd4a	chr9:64811010-64919667	OK	11.5695	14.2124
Zfp758	chr17:22361452-22377281	OK	5.56395	6.83429
Robo4	chr9:37402045-37414022	OK	2.61351	3.20993
Snrpd1	chr18:10617795-10628230	OK	18.3911	22.5881
Rtn4rl2	chr2:84871945-84886692	OK	13.7173	16.8446
Malt1	chr18:64887755-65751537	OK	0.846987	1.03998
Hscb	chr5:110829069-110839777	OK	8.28836	10.1767
Eif4enif1	chr11:3202352-3479831	OK	14.2582	17.506
Smarca5	chr8:80699942-80739459	OK	7.09857	8.71539
Akap9	chr5:3928185-4080204	OK	8.08396	9.92493
Ccdc130	chr8:84257794-84270360	OK	3.22483	3.95904
Dusp22	chr13:30660058-30711232	OK	22.1725	27.2201
B130034C11Rik	chr16:87496072-87504038	NOTEST	0.371867	0.456517
Ttll3	chr6:113378112-113414571	OK	1.6676	2.04718
Zdhhc20	chr14:57832701-57890262	OK	9.09343	11.1628
2810408I11Rik	chr1:64679868-64690659	NOTEST	0.131031	0.160844
S100a5	chr3:90608521-90611780	NOTEST	0.374563	0.459697
Rps13	chr7:116331506-116334190	OK	1.30425	1.60047
Chsy3	chr18:59175339-59411336	NOTEST	0.475019	0.582893
Zfp384	chr6:125009237-125037870	OK	5.06015	6.20854
Mysm1	chr4:94942040-94979100	OK	3.128	3.83732
N4bp2	chr5:65763520-65826784	NOTEST	0.483399	0.592973
Thoc6	chr17:23660522-23677449	OK	8.79227	10.7832
Slc2a1	chr4:119108744-119137329	OK	27.6545	33.9133
Arhgef11	chr3:87618750-87748623	OK	45.129	55.3179
Pttg1	chr11:43420247-43426248	OK	33.6118	41.2001
Trp53inp1	chr4:11156440-11174377	OK	6.66123	8.16397
Fbxl15	chr19:46328183-46338660	OK	12.1212	14.8542
Psmb10	chr8:105935727-105938392	OK	19.1293	23.4422
Zfp715	chr7:43296522-43313261	OK	5.46049	6.69154
Zfp810	chr9:22055459-22389206	OK	3.10017	3.79859
Pla2g15	chr8:106150398-106164715	OK	9.26833	11.356
Ccdc64	chr5:115649285-115731559	OK	13.6559	16.7291
Car15	chr16:17835275-17838186	OK	1.32599	1.62398
Spry2	chr14:105891946-105896819	OK	16.4923	20.1971
Figla	chr6:86017190-86020996	NOTEST	0.0617617	0.0756277
Cox18	chr5:90214724-90223996	OK	10.2665	12.5712
2310009B15Rik	chr1:138851978-138856854	OK	4.37156	5.35278
Mipol1	chr12:57230411-57457241	OK	3.97921	4.87232
Fsd2	chr7:81534353-81566981	NOTEST	0.330442	0.404604
Snrnp35	chr5:124483154-124491122	OK	8.5266	10.4402
3110007F17Rik	chrX:123103558-123143293	OK	1.38393	1.69444
Pcbp1	chr6:86524496-86526165	OK	101.001	123.659

Ctnnbip1	chr4:149518240-149566437	OK	27.0421	33.1075
Irak1bp1	chr9:82829805-82847688	OK	4.50795	5.51883
Fancf	chr7:51860576-51862267	OK	2.41537	2.95697
Zfp58	chr13:67490166-67500522	OK	2.184	2.67348
Nasp	chr4:116601051-116627951	OK	5.56454	6.81164
Zfand2a	chr5:139471215-139484491	OK	23.0855	28.2592
Nenf	chr1:191306796-191318118	OK	41.504	50.8051
Zfand4	chr6:116264218-116330304	NOTEST	0.520319	0.636919
Lpgat1	chr1:191718023-191784257	OK	27.0478	33.1062
Klkb1	chr8:45269450-45294835	NOTEST	0.0384456	0.0470482
Ppp1ca	chr19:4192173-4201603	OK	139.253	170.411
Usp20	chr2:30982278-31022655	OK	66.5432	81.4277
Clca5	chr3:145070264-145099041	NOTEST	0.365835	0.447637
Ptprm	chr17:66666847-67354459	OK	10.9474	13.3944
Nedd8	chr14:55662266-55671906	OK	209.188	255.941
Pcnp	chr16:56015507-56029717	OK	30.0042	36.707
Naip6	chr13:100281120-100317688	NOTEST	0.0642303	0.0785693
Prss36	chr7:127932637-127946725	OK	2.06526	2.52624
Ttc39c	chr18:12643532-12737052	OK	27.764	33.9594
Phrf1	chr7:141228787-141262751	OK	8.26954	10.1138
Rpl5	chr5:107900527-107987077	OK	7.6907	9.40548
Lrriq1	chr10:103063197-103236322	OK	0.739587	0.904417
Bard1	chr1:71027534-71102972	NOTEST	0.579594	0.708761
Nrbp2	chr15:76085593-76090013	OK	43.1593	52.776
St8sia6	chr2:13654935-13793520	NOTEST	0.398699	0.487508
Rpl17	chr18:75000476-75003381	OK	0.907993	1.11011
Pbrm1	chr14:31019137-31121592	OK	14.3479	17.5401
Phf13	chr4:151989630-151996179	OK	6.11478	7.47508
P4ha2	chr11:54100923-54131667	OK	6.64985	8.12912
Mcu	chr10:59446983-59616692	OK	20.6847	25.2827
Cops7b	chr1:86587099-86606500	OK	10.5063	12.8403
Kif5a	chr10:127225694-127263363	OK	285.245	348.595
Gfod1	chr13:43195518-43304172	OK	22.7575	27.8111
Kdm6a	chrX:18162666-18279358	OK	4.68003	5.71915
Dhrsx	chr4_GL456216_random:15880	OK	4.41734	5.3975
Ppm1a	chr12:72761210-72794940	OK	93.8602	114.679
Naaa	chr5:92257659-92278181	OK	19.2807	23.5564
Sart1	chr19:5377522-5390069	OK	12.1852	14.8855
Snhg1	chr19:8723486-8726326	OK	9.11458	11.1342
Pcdha11	chr18:36930284-37841872	OK	3.01197	3.6789
Mrps23	chr11:88098057-88211507	OK	30.6587	37.4471
Dhx16	chr17:35879777-35892668	OK	7.8969	9.64523
Slc25a19	chr11:115614180-115628295	OK	11.9246	14.5619
Arl6ip4	chr5:124116107-124118195	OK	25.1789	30.7467
Hp1bp3	chr4:138216611-138244682	OK	41.67	50.8775
Katna1	chr10:7725999-7763150	OK	5.66162	6.9124
Psme3	chr11:101316250-101323530	OK	38.441	46.9326
Zc4h2	chrX:95639193-95658509	OK	9.24754	11.2903
Mettl7a3	chr15:100334928-100340169	OK	19.9922	24.4045
Oplah	chr15:76294433-76307245	OK	7.7582	9.46901
Slc37a2	chr9:37229148-37255738	OK	1.10089	1.3432
Zfand6	chr7:84615053-84679351	OK	43.8343	53.4774
Mypop	chr7:18991244-19001766	OK	18.6644	22.7661

Slc9a4	chr1:40580226-40630731	NOTEST	0.0148159	0.018071
Gnb1l	chr16:18498712-18566680	OK	1.21141	1.4775
Pbx2	chr17:34592470-34597341	OK	20.4522	24.9445
Slbp	chr5:33640054-33652574	OK	13.2399	16.1464
Eno1b	chr4:150237196-150248873	OK	39.3701	48.0124
Ttll11	chr2:35751225-35979624	OK	4.76746	5.81301
Nxt1	chr2:148672614-148676026	OK	5.35964	6.53453
Zfc3h1	chr10:115384958-115432771	OK	7.86686	9.59107
Alox12b	chr11:69157071-69169791	NOTEST	0.268599	0.327466
Dhps	chr8:85071756-85080746	OK	24.7321	30.1522
Hdgfrp2	chr17:56079656-56109802	OK	13.2152	16.1112
Pgap1	chr1:54472999-54557684	OK	5.52181	6.73139
C2cd2l	chr9:44309236-44320282	OK	15.9256	19.4121
Cdc34	chr10:79682194-79688398	OK	31.1085	37.9169
3110040N11Rik	chr7:81782186-81789453	OK	7.74799	9.44174
Trim43c	chr9:88839163-88858870	NOTEST	0.0209632	0.0255438
Mtch1	chr17:29332075-29347904	OK	176.259	214.772
Rrp9	chr9:106477308-106485415	OK	6.18211	7.53186
Eapp	chr12:54673466-54695865	OK	21.0927	25.6933
Gm11992	chr11:9016053-9069354	OK	0.775333	0.944333
Dusp9	chrX:73639440-73643514	NOTEST	0.0214844	0.0261673
Tmem62	chr2:120977061-121007842	OK	14.6134	17.7958
Ncbp2	chr16:31948545-31958472	OK	28.1608	34.2928
Fam207a	chr10:77486654-77515813	OK	12.2663	14.9368
2610008E11Rik	chr10:79064373-79097600	OK	4.64524	5.65646
Ino80	chr2:119373041-119477629	OK	3.729	4.54055
Tspan17	chr13:54789404-54796775	OK	115.485	140.613
Coro1c	chr5:113842438-113908706	OK	35.7125	43.483
Gabarap	chr11:69991369-69994949	OK	220.647	268.629
Tnrc6c	chr11:117654288-117763441	OK	6.51874	7.93618
Gm1673	chr5:33983473-33985006	OK	24.5876	29.9338
Fam76a	chr4:132899212-132922551	OK	10.97	13.3538
Nae1	chr8:104446718-104624396	OK	30.8121	37.5029
Mier3	chr13:111686177-111718594	OK	4.70084	5.72152
Bmyc	chr2:25706878-25707719	OK	26.7018	32.4988
Hip1r	chr5:123973627-124003215	OK	15.1076	18.3865
Npat	chr9:53537046-53575627	OK	2.91713	3.55025
Suco	chr1:161816111-161876661	OK	12.0594	14.6731
Vmac	chr17:56713931-56717699	OK	4.09266	4.97937
Cxxc1	chr18:74216211-74221491	OK	8.94338	10.8807
Tmem237	chr1:59100592-59120096	OK	16.1209	19.6121
Irak2	chr6:113638466-113695027	OK	3.11772	3.79245
Fam214b	chr4:43032413-43046220	OK	14.3345	17.4366
Med17	chr9:15260350-15279867	OK	7.35248	8.9432
Alcam	chr16:52248995-52452997	OK	60.352	73.4045
Thoc5	chr11:4895342-4928865	OK	12.4075	15.0895
Ube2g2	chr10:77622320-77645990	OK	27.8895	33.9171
Ier5l	chr2:30472640-30474199	OK	2.3461	2.85298
Micu2	chr14:57916279-57999262	OK	13.1552	15.9952
Klhl7	chr5:23787743-24161231	OK	24.527	29.8184
Nemf	chr12:69311542-69357176	OK	13.7174	16.6759
Trmt1l	chr1:151428647-151458183	OK	14.5603	17.6988
Zer1	chr2:30097282-30124611	OK	16.7865	20.4022

Usp19	chr9:108490675-108502337	OK	42.7762	51.9877
Krt75	chr15:101563342-101573904	NOTEST	0.00524978	0.00637998
Scaper	chr9:55549882-55938115	OK	11.4036	13.8572
Luc7l	chr17:26252909-26285506	OK	20.5205	24.9338
Cfl1	chr19:5490454-5494031	OK	440.671	535.438
Wasf3	chr5:146385005-146471125	OK	13.3287	16.1947
Dgka	chr10:128706257-128744056	OK	5.45069	6.62236
Ttpal	chr2:163602313-163619013	OK	13.8622	16.8416
Rchy1	chr5:91948841-91972137	OK	14.169	17.2137
Aim1	chr10:43950306-44004846	NOTEST	0.460599	0.55957
Avl9	chr6:56714904-56761911	OK	13.5285	16.4349
1810030007Rik	chrX:12654883-12673546	OK	12.8467	15.6059
Olf658	chr7:104642879-104647305	NOTEST	0.00594038	0.00721613
Sprtn	chr8:124897885-124903813	OK	3.04695	3.70122
Apip	chr2:103073674-103092649	OK	12.9998	15.79
Ebp	chrX:8185330-8193512	OK	19.3954	23.5575
Ttll1	chr15:83483768-83510907	OK	34.3463	41.7168
Ddx49	chr8:70282998-70302452	OK	13.3712	16.2394
AU041133	chr10:82128012-82153065	OK	2.03205	2.46774
Fut11	chr14:20694967-20700197	OK	10.6942	12.987
Fam136a	chr6:86365682-86370058	OK	10.7425	13.0447
Tmsb15l	chrX:136954987-136976874	OK	15.4294	18.7351
Ddx50	chr10:62616022-62651198	OK	13.3511	16.2105
Casp3	chr8:46617290-46639698	OK	6.25258	7.59134
Zfp788	chr7:41633530-41651532	OK	7.94288	9.64335
Inpp5k	chr11:75631019-75648865	OK	22.7812	27.6578
Tcf20	chr15:82808625-82912134	OK	10.2836	12.4839
37134	chr16:18620318-18629938	OK	164.418	199.596
Pick1	chr15:79229172-79249466	OK	16.8038	20.3985
Abce1	chr8:79683441-79711740	OK	39.9537	48.4807
Ccdc107	chr4:43493364-43495921	OK	22.684	27.5247
Htatip2	chr7:49759105-49773999	OK	48.9209	59.3587
Sh3glb2	chr2:30344776-30359316	OK	91.2393	110.704
Tmem251	chr12:102739829-102757810	OK	6.10533	7.40716
Hpse2	chr19:42788594-43388355	NOTEST	0.0408179	0.0495151
Ercc6l2	chr13:63815319-63900301	OK	4.20177	5.09698
Adprm	chr11:67037879-67052618	OK	9.7715	11.8534
Gm9833	chr3:10088276-10092562	OK	18.3976	22.3164
Polr2d	chr18:31789158-31796701	OK	13.4567	16.3204
Ascc3	chr10:50592668-50851202	OK	4.84018	5.87011
Ifi203	chr1:173920402-173942492	OK	1.37167	1.66352
Rbm6	chr9:107773558-107872819	OK	8.37213	10.1527
Spag6	chr16:16753015-16829363	NOTEST	0.0397368	0.0481869
Scamp4	chr10:80602879-80615783	OK	18.3357	22.23
Ddhd2	chr8:25725323-25754280	OK	17.4642	21.1658
Mta1	chr12:113098277-113137206	OK	18.3611	22.2511
Zscan18	chr7:12768091-12775658	OK	3.19768	3.87467
Mitd1	chr1:37878889-37890411	OK	5.76126	6.98039
Eif4a1	chr11:69666935-69672423	OK	23.2912	28.2198
Cpne1	chr2:156071840-156111965	OK	28.5884	34.6364
Hpx	chr7:105591610-105600116	NOTEST	0.0545851	0.0661306
Rasgef1b	chr5:99217419-99252927	OK	4.60266	5.57617
Ap1m1	chr8:72240131-72257379	OK	68.1135	82.5177

Invs	chr4:48279759-48473422	OK	1.48731	1.80179
Ireb2	chr9:54863754-54912534	OK	22.48	27.2326
Mex3c	chr18:73572704-73592578	OK	15.8197	19.1624
Kcnma1	chr14:23298693-24004205	OK	7.95318	9.63338
Zfp386	chr12:116047723-116063207	OK	3.89668	4.71981
Zfp94	chr7:24301703-24316666	OK	1.60381	1.94253
Gpatch1	chr7:35276543-35318440	OK	5.58507	6.76454
Nim1k	chr13:119710093-119755882	OK	2.30303	2.78936
Uts2r	chr11:121160270-121161973	NOTEST	0.0214742	0.0260079
Tsg101	chr7:46889026-46919930	OK	25.9741	31.4573
Ndst1	chr18:60685975-60713389	OK	17.2859	20.9342
Coq2	chr5:100654725-100674256	OK	25.0901	30.3797
Orc2	chr1:58462770-58505109	OK	10.3575	12.5399
Ifi205	chr1:174011997-174031755	NOTEST	0.0114238	0.0138297
Cep57l1	chr10:41718839-41809868	OK	1.79644	2.17468
Gm15421	chr5:22486488-22550331	OK	37.6804	45.6137
Als2cl	chr9:110880173-110900530	OK	0.752515	0.910886
Aarsd1	chr11:101406839-101417433	OK	23.8597	28.8765
Fra10ac1	chr19:38188478-38224132	OK	8.35833	10.1148
Stk11	chr10:79697304-80369637	OK	39.4082	47.6876
Mrps24	chr11:5703982-5707699	OK	15.9194	19.2602
BC005537	chr13:24801656-24812899	OK	102.524	124.038
Ankrd61	chr5:143871861-143909839	NOTEST	0.0124597	0.015074
Zfp236	chr18:82593596-82692734	OK	4.0743	4.92862
Rltpr	chr8:105690905-105701095	OK	21.1858	25.6279
Igip	chr18:36300100-36301478	OK	34.7937	42.0875
Lin37	chr7:30555440-30559646	OK	8.23555	9.96182
Nlgn3	chrX:101299178-101321350	OK	16.8269	20.354
Zfp710	chr7:80024813-80092751	OK	4.82196	5.83185
Acbd5	chr2:23068200-23114512	OK	42.4958	51.3938
Arvcf	chr16:18348181-18479073	OK	15.2464	18.4353
Usp7	chr16:8688721-8738342	OK	35.3121	42.6951
Ccdc117	chr11:5528887-5542217	OK	6.0966	7.37111
Prr5	chr15:84680997-84703673	OK	11.0364	13.3432
Oip5	chr2:119609531-119650160	OK	0.970703	1.17353
2610020H08Rik	chr7:119794129-119848941	NOTEST	0.352554	0.426212
Anapc5	chr5:122787460-122821342	OK	62.6782	75.7685
Zfp874b	chr13:67471512-67484253	OK	5.8298	7.04654
Slc38a9	chr13:112660765-112738752	OK	9.23891	11.1655
Lrrcc1	chr3:14533787-14572658	OK	4.49317	5.43011
Kctd13	chr7:126928878-126945609	OK	18.7286	22.6337
Zmynd19	chr2:24949801-24959413	OK	10.1968	12.3226
Brwd1	chr16:95992091-96082428	OK	13.0356	15.7531
Brd1	chr15:88687034-88734219	OK	9.25549	11.1846
Smarcd2	chr11:106263170-106272972	OK	13.6335	16.4742
Icos	chr1:60977913-61000321	NOTEST	0.0235102	0.0284079
Acot7	chr4:152178099-152271855	OK	309.913	374.435
Gprc5d	chr6:135105990-135118283	NOTEST	0.0144667	0.0174777
Taf1a	chr1:183388884-183410206	OK	7.0325	8.49572
4932416H05Rik	chr2:129798368-129832285	OK	1.23394	1.49061
Chsy1	chr7:66109514-66173798	OK	6.60783	7.98108
Fam219b	chr9:57537527-57543187	OK	15.3782	18.5723
Myo9b	chr8:71272713-71360712	OK	6.52795	7.88375

Setd1b	chr5:123142192-123168630	OK	4.93866	5.96391
Ogt	chrX:101640050-101684351	OK	31.27	37.7603
Gbp4	chr5:105115766-105139586	OK	0.805905	0.97316
Eif3e	chr15:43250039-43282736	OK	28.9229	34.9242
Rrp15	chr1:186721086-186749358	OK	3.65721	4.416
Psma3	chr12:70974622-71015823	OK	11.9916	14.4793
Hoxb2	chr11:96351631-96354014	OK	2.82797	3.41431
Hnrnpu	chr1:178328299-178337784	OK	76.2836	92.0973
Hnrnpr	chr4:136310941-136345979	OK	6.53836	7.89371
Zdhhc16	chr19:41933471-41981136	OK	11.021	13.3052
Scaf4	chr16:90229143-90284425	OK	6.16238	7.43957
Capn8	chr1:182565006-182632352	NOTEST	0.0647908	0.0782121
Zfp768	chr7:127342794-127345314	OK	3.09231	3.73272
Pih1d1	chr7:45141839-45160064	OK	22.0752	26.6434
Mpv17l2	chr8:70754678-70760921	OK	20.4233	24.6476
Med25	chr7:44879385-44892366	OK	17.7735	21.4494
Slmo2	chr2:174465090-174472941	OK	27.4477	33.1242
Zrsr2	chrX:163935442-163958666	OK	12.0529	14.5445
Pde7a	chr3:19223108-19311322	OK	3.91977	4.72998
Cyb561	chr11:105933703-105944147	OK	32.4323	39.1311
Efcab10	chr12:33394853-33401269	OK	3.51962	4.24641
Zbtb20	chr16:42884369-43619123	OK	7.63175	9.20745
Klf13	chr7:63886350-63938915	OK	28.0829	33.8789
Pdzrn3	chr6:101149606-101377897	OK	1.22666	1.47978
Tmem107	chr11:69070808-69073293	OK	4.17417	5.03479
Xndc1	chr7:102065490-102096864	OK	2.73119	3.29414
Adam19	chr11:46054501-46147347	OK	19.7715	23.8467
Alox12	chr11:70241454-70255341	OK	0.689467	0.831497
Rhno1	chr6:128356999-128362897	OK	5.37068	6.4764
H2-M5	chr17:36986854-36989504	NOTEST	0.0742372	0.0895199
Acap1	chr11:69881566-69895539	NOTEST	0.218013	0.262888
Stradb	chr1:58973570-58995121	OK	5.79998	6.99267
Gabbr2	chr4:46663897-46991714	OK	44.7781	53.985
Wrnip1	chr13:32802029-32822610	OK	21.4302	25.8363
H2afx	chr9:44334714-44336073	OK	12.0762	14.5589
Edc3	chr9:57708568-57750162	OK	8.31875	10.0284
Robo2	chr16:73892305-74410912	OK	27.9687	33.7157
Eif5a	chr11:69916711-69921958	OK	195.79	235.978
Cdan1	chr2:120716153-120731517	OK	1.90579	2.29642
Mcph1	chr8:18595172-18803188	OK	3.6513	4.39919
Exosc7	chr9:123113230-123136129	OK	13.7028	16.505
6330408A02Rik	chr7:13258966-13311427	OK	5.99315	7.21867
3300002I08Rik	chr2:150310936-150362765	OK	1.94656	2.34453
Ctu2	chr8:122476142-122551329	OK	3.73657	4.50021
Chmp4b	chr2:154657025-154694783	OK	149.492	180.042
Fam45a	chr19:60811569-60836229	OK	18.4184	22.1812
Mcat	chr15:83546796-83555711	OK	6.44535	7.76144
Dbnnd1	chr8:123504717-123515455	OK	13.0613	15.7278
Abca7	chr10:79697304-80369637	OK	37.2888	44.9008
Adcy6	chr15:98589985-98607633	OK	4.95376	5.96441
Trappc8	chr18:20817223-20896078	OK	26.9296	32.421
Pgm1	chr5:64092949-64128158	OK	2.46889	2.97142
Lix1	chr17:17402685-17459388	OK	93.4086	112.41

1700094D03Rik	chr3:89998759-90068347	NOTEST	0.545063	0.655904
AK129341	chr9:8076632-8134294	OK	4.03718	4.85797
Mphosph10	chr7:64376540-64392236	OK	8.27001	9.9509
1700061G19Rik	chr17:56875632-56888838	NOTEST	0.0299902	0.0360828
Stac2	chr11:98036623-98053462	OK	25.7092	30.9303
Mplkip	chr13:17695412-17699105	OK	2.13957	2.57402
Prcp	chr7:92875252-92934581	OK	11.9041	14.3199
Zfp212	chr6:47920567-47932637	OK	4.9683	5.97647
Srrm1	chr4:135320483-135353214	OK	17.4601	20.9998
Wdr4	chr17:31494321-31512487	OK	5.30448	6.3795
Mzf1	chr7:13042302-13054764	NOTEST	0.34652	0.416729
D430042O09Rik	chr7:125707875-125874797	OK	3.17384	3.81647
Ccdc115	chr1:34436669-34439672	OK	11.3363	13.6314
Klra8	chr6:129972081-130386874	NOTEST	0.0367565	0.0441976
Atp5g2	chr15:102662867-102671047	OK	4.12357	4.95799
Ubxn6	chr17:56068252-56074989	OK	42.0403	50.5473
Topbp1	chr9:103305326-103350427	OK	5.95893	7.16456
Setd8	chr5:124439929-124462307	OK	33.4892	40.264
Txn14a	chr18:80206797-80225851	OK	106.395	127.913
Dido1	chr2:180657962-180709999	OK	7.34934	8.83538
Arf6	chr12:69372149-69375980	OK	23.099	27.7694
Dph7	chr2:24962421-24975098	OK	2.84831	3.42408
Ptprg	chr14:11553552-12242039	OK	15.5746	18.7222
Pih1d2	chr9:50603900-50625000	NOTEST	0.534968	0.643045
Atpaf2	chr11:60400623-60417099	OK	9.4511	11.3592
Ffar1	chr7:30860567-30861470	NOTEST	0.0230565	0.0277111
Tbk1	chr10:121546455-121586794	OK	21.6692	26.0426
Snrnp27	chr6:86675168-86684491	OK	21.1738	25.4443
Las1l	chrX:95935312-95956974	OK	18.3311	22.0276
Dmrta2	chr4:109978024-109983684	NOTEST	0.0191437	0.0230031
Ddx39	chr8:83715176-83741311	OK	3.89084	4.67501
Ninl	chr2:150934518-151009398	OK	0.856019	1.0284
Stk16	chr1:75210828-75219253	OK	13.7553	16.5217
Cul4a	chr8:13105720-13147939	OK	23.8486	28.6419
Wdr36	chr18:32663641-32866420	OK	14.6495	17.5931
Erc1	chr6:119570795-119848150	OK	13.0904	15.715
Armc6	chr8:70220192-70263105	OK	17.74	21.2958
Rbm42	chr7:30640994-30650228	OK	28.8388	34.617
Osbpl10	chr9:115067278-115232223	OK	24.9108	29.9015
Smarcc2	chr10:128459235-128490174	OK	26.8533	32.2304
Cd70	chr17:57145996-57149777	NOTEST	0.025267	0.0303264
Spef1	chr2:131127411-131604824	OK	2.02392	2.42896
Slc16a2	chrX:103697413-103821988	OK	9.32458	11.1902
Gcn1l1	chr5:115565262-115622654	OK	9.80721	11.7683
Creld2	chr15:88819645-88826681	OK	5.1467	6.17541
Taok2	chr7:126865676-126884967	OK	21.1946	25.4289
Elmod1	chr9:53911459-53975301	OK	5.89865	7.07679
Dynlt1c,Dynlt1f	chr17:6646605-6655939	LOWDAT	1.67558	2.01016
Mapk3	chr7:126759625-126765816	OK	548.568	658.1
Eif2s3y	chrY:1010611-1028598	OK	14.087	16.8996
Zfp2	chr11:50898711-50916161	OK	5.59902	6.71636
Senp7	chr16:56075408-56190011	OK	5.66166	6.79143
Usp16	chr16:87454984-87495869	OK	11.5293	13.8296

Zwint	chr10:72654894-72669789	OK	96.2818	115.482
Crlf3	chr11:80046492-80080991	OK	12.367	14.833
Pold3	chr7:100082112-100121500	OK	3.92102	4.70262
Pde12	chr14:26664116-26669846	OK	7.25766	8.70413
Whsc1	chr5:33843111-33897966	OK	15.7898	18.9359
Parp4	chr14:56575618-56659798	OK	10.3545	12.4163
Hint1	chr11:54866437-54870496	OK	329.344	394.89
Bcor	chrX:12036737-12160355	OK	2.88725	3.46151
Mdm4	chr1:132989844-133025348	OK	5.95971	7.1446
Tmem259	chr10:79697304-80369637	OK	41.6439	49.9207
Rraga	chr4:86575672-86577283	OK	89.8317	107.686
Recql	chr6:142345696-142387087	OK	7.4584	8.94058
Cenpp	chr13:49464058-49652731	NOTEST	0.689616	0.826649
Rce1	chr19:4622550-4625617	OK	9.48518	11.3687
Ppp2r2c	chr5:36868569-36955078	OK	119.959	143.766
Svop	chr5:114026912-114091380	OK	39.2933	47.09
Ywhab	chr2:163995196-164018587	OK	341.25	408.924
BC025920	chr10:81606307-81609836	NOTEST	0.563136	0.674809
Denr	chr5:123907274-123928832	OK	25.6423	30.7271
Mknk2	chr10:80665329-80671976	OK	15.1567	18.1619
Idua	chr5:108629809-108685446	OK	2.92677	3.50703
Smad4	chr18:73639012-73703741	OK	19.024	22.7952
Acad12	chr5:121598280-121618938	OK	1.57274	1.88447
Rpp21	chr17:36255672-36257846	OK	12.691	15.2046
Fam21	chr6:116208032-116262671	OK	28.6191	34.2863
Mthfr	chr4:148039076-148059562	OK	6.68598	8.00995
Hoxb3	chr11:96323125-96347930	OK	2.20388	2.64007
Colec10	chr15:54410773-54466358	NOTEST	0.0207411	0.0248445
Thyn1	chr9:26999676-27030094	OK	19.8767	23.8091
Apba3	chr10:81268171-81291581	OK	7.16578	8.58079
Nat1	chr8:67490757-67492103	NOTEST	0.140809	0.16861
Dph3	chr14:32080516-32085692	OK	13.5566	16.2317
Dnaaf1	chr8:119575234-119605240	NOTEST	0.0138986	0.0166408
Capns1	chr7:30186941-30195048	OK	418.801	501.404
Ythdc2	chr18:44828664-44889720	OK	5.77056	6.90673
Pim2	chrX:7878305-7883432	OK	12.4808	14.9379
Hmha1	chr10:79697304-80369637	OK	0.781513	0.935266
4933431E20Rik	chr3:107877229-107898685	OK	11.7873	14.1055
Cdipt	chr7:126975913-126980501	OK	85.493	102.307
Ash2l	chr8:25816000-25847694	OK	13.6992	16.3932
Tat	chr8:109990435-109999804	NOTEST	0.00836831	0.010014
Tcp10c	chr17:13354571-13377223	NOTEST	0.0234803	0.028097
Ccdc51	chr9:109082495-109093363	OK	2.53335	3.03143
S100pbp	chr4:129150824-129189482	OK	7.71117	9.22682
Tstd2	chr4:46039221-46138475	OK	6.84075	8.18491
Prim1	chr10:128015214-128030030	OK	4.00964	4.79714
Hist1h2bp	chr13:21787487-21789213	NOTEST	0.139798	0.167241
B3gnt4	chr5:123510459-123524164	NOTEST	0.18736	0.224137
AW554918	chr18:25169019-25467321	OK	2.34422	2.80432
Fam129c	chr8:71597645-71608149	NOTEST	0.326928	0.391078
Rab23	chr1:33719895-33742564	OK	5.46215	6.53387
Tmem57	chr4:134802759-134853345	OK	18.6473	22.3051
Rnf214	chr9:45863690-45936058	OK	21.071	25.203

Gnaz	chr10:74957476-75032586	OK	24.8105	29.6729
Zfp385c	chr11:100622954-100650693	NOTEST	0.0943047	0.112781
Ssb	chr2:69861561-69885615	OK	54.4802	65.1515
B3gnt3	chr8:71691719-71701800	NOTEST	0.685655	0.819788
Surf2	chr2:26913377-26933511	OK	12.7511	15.2442
Szt2	chr4:118359998-118409263	OK	3.36647	4.02419
Ern1	chr11:106397619-106487796	OK	2.07461	2.4797
Gapdh	chr6:125161851-125166467	OK	10.1845	12.173
Sifnl1	chr4:120532230-120536661	NOTEST	0.0116687	0.0139459
Hgs	chr11:120467634-120483984	OK	39.6441	47.3778
Zswim8	chr14:20707551-20723619	OK	23.4488	28.0214
Mill2	chr7:18839965-18858653	OK	1.86259	2.22573
Bloc1s2	chr19:44139246-44146446	OK	8.15323	9.74252
Uggt2	chr14:118984984-119099434	OK	2.22175	2.65473
Rps27a	chr11:29545841-29578352	OK	4.3102	5.15001
Zfp133-ps	chr2:144459279-144467794	OK	1.50904	1.80293
Wibg	chr10:128747878-128766568	OK	8.55128	10.2163
Fcf1	chr12:84970929-84983303	OK	5.45942	6.52174
Fam117b	chr1:59913005-59985348	OK	20.8927	24.9573
1600014C10Rik	chr7:38183216-38197565	OK	17.0196	20.3299
Ppp1r16a	chr15:76671679-76694915	OK	13.3315	15.9235
Ift57	chr16:49699293-49765126	OK	8.52192	10.1784
Kif3b	chr2:153291415-153333389	OK	24.4936	29.254
Oma1	chr4:103313845-103366428	OK	3.83212	4.57676
Gtf2ird2	chr5:134184037-134218143	OK	4.6143	5.5109
Ercc8	chr13:108158737-108194981	OK	2.5489	3.04394
Capn11	chr17:45630203-45659309	OK	0.801883	0.957446
Zscan20	chr4:128583538-128610098	OK	0.795968	0.950335
Smc3	chr19:53600395-53645831	OK	11.0472	13.188
Rangap1	chr15:81704247-81729919	OK	113.645	135.665
Ppid	chr3:79591388-79603650	OK	18.5659	22.162
Agtppb1	chr13:59449534-59557347	OK	91.9554	109.764
Srp68	chr11:116245165-116274217	OK	26.9526	32.1716
Pcnt	chr10:76351253-76442912	OK	2.78819	3.32799
Telo2	chr17:25099568-25115967	OK	4.66653	5.56938
Elmod2	chr8:83312631-83332486	OK	8.72339	10.4105
R3hcc1l	chr19:42518804-42592256	OK	3.46799	4.13827
Usp11	chrX:20703908-20720539	OK	9.61425	11.4698
Cbx1	chr11:96789135-96808640	OK	10.9477	13.06
Fam174a	chr1:95313627-95335284	OK	29.8842	35.6495
Snx1	chr9:66088126-66124886	OK	38.0098	45.3369
Lsm4	chr8:70673230-70678752	OK	26.7944	31.9595
Csnk1g2	chr10:80622779-80640771	OK	52.585	62.7187
Ccdc61	chr7:18890883-18910404	OK	3.76985	4.49606
C2	chr17:34862601-34882100	OK	1.63055	1.94461
Bcdin3d	chr15:99470083-99474730	OK	2.62045	3.12507
Chrnbl	chr11:69784035-69795937	NOTEST	0.543012	0.647573
Tbcel	chr9:42412316-42472226	OK	21.1469	25.2133
Os9	chr10:127094258-127121160	OK	35.8858	42.7862
Gpr139	chr7:119144322-119184374	OK	4.56354	5.44096
Rpl3	chr15:80077780-80083406	OK	16.6629	19.8657
Prrg2	chr7:45053606-45061652	OK	4.52395	5.39319
Stk25	chr1:93512103-93635727	OK	42.8243	51.0514

Fam63b	chr9:70599013-70657174	OK	21.3894	25.4979
Prdm1	chr10:44437174-44458687	NOTEST	0.0948285	0.113042
Pithd1	chr4:135975601-135987244	OK	36.9192	44.01
Cage1	chr13:38006051-38036937	OK	1.09738	1.30813
Elmo2	chr2:165288030-165326479	OK	21.8735	26.0728
Arl1	chr10:88731413-88743202	OK	30.1067	35.8853
Cdk20	chr13:64432552-64439721	OK	7.1033	8.46661
Rb1cc1	chr1:6214661-6276104	OK	22.3339	26.6192
Csnk2a1	chr2:152226839-152281851	OK	35.6213	42.4522
Capn5	chr7:98121564-98184799	OK	65.6496	78.2362
Vps33a	chr5:123528759-123573015	OK	35.9929	42.8869
Ap1s1	chr5:137034993-137046060	OK	79.0524	94.1901
2700060E02Rik	chr14:19751256-19823823	OK	9.82175	11.7024
Dkk3	chr7:112116018-112159057	OK	60.1808	71.6975
Zfp59	chr7:27838583-27856774	OK	1.76573	2.10362
Gdi1	chrX:74305011-74311867	OK	232.897	277.461
Eif2b3	chr4:117019407-117086852	OK	10.5775	12.6011
Gm10509	chr17:21690211-21692213	OK	2.83212	3.37342
Srsf10	chr4:135856070-135869899	OK	19.6119	23.3602
Dus4l	chr12:31640054-31654826	OK	1.49565	1.78146
Erc2	chr14:27622441-28478537	OK	20.401	24.2988
Nsmce1	chr7:125467639-125491542	OK	14.1432	16.8446
Pop4	chr7:38262819-38271348	OK	19.1489	22.8055
Map4k3	chr17:80580512-80728025	OK	13.0172	15.5025
Klk6	chr7:43824543-43832027	NOTEST	0.0329842	0.0392788
Zrsr1	chr11:22899727-22982284	OK	16.7105	19.8992
Ly6g5b	chr17:35113945-35115400	NOTEST	0.0213722	0.0254492
Nov	chr15:54745927-54753761	OK	11.2097	13.3474
Fig4	chr10:41188171-41303241	OK	28.1492	33.5171
Akr1a1	chr4:116636509-116651674	OK	339.333	404.03
Rpl22l1	chr3:28805510-28807415	OK	16.7184	19.9055
B3gnt8	chr7:25627623-25629490	OK	14.2091	16.917
Cct4	chr11:22990592-23003336	OK	81.3641	96.8624
Snrpd3	chr10:75518041-75535440	OK	70.5348	83.9635
Eif3a	chr19:60761115-60790693	OK	52.5898	62.5906
Gm20605,Lrch4	chr5:137629122-137642902	OK	1.50759	1.79416
Med21	chr6:146642578-146650600	OK	50.2859	59.8422
Dctn3	chr4:41714797-41723163	OK	132.329	157.454
Urod	chr4:116990216-116994375	OK	43.6097	51.8779
Zfp251	chr15:76852140-76871435	OK	8.00609	9.5238
Gm11110	chr17:57092022-57107757	NOTEST	0.214488	0.255147
Mtcp1	chrX:75404846-75416543	OK	5.49862	6.54016
Rpl37a	chr1:72711259-72713813	OK	5.40912	6.43358
Frs3	chr17:47695206-47704286	OK	7.48364	8.90081
Tpm3	chr3:90072650-90100902	OK	20.5308	24.4162
Colgalt2	chr1:152399866-152510695	OK	16.99	20.2049
Daxx	chr17:33909444-33915590	OK	7.25719	8.63013
Mrps18c	chr5:100798758-100804467	OK	51.8614	61.6713
Lsm2	chr17:34981853-34985893	OK	8.16138	9.70479
Kif21a	chr15:90933274-91049951	OK	222.947	265.106
Ppp6r1	chr7:4631494-4658950	OK	45.8871	54.5635
Ppp1r9b	chr11:94991211-95006898	OK	62.0268	73.751
Phf14	chr6:11925880-12081198	OK	8.10836	9.63989

Taz	chrX:74282717-74290151	OK	10.9296	12.994
Mettl5	chr2:69861561-69885615	OK	9.50632	11.3012
Snx12	chrX:101097785-101222563	OK	45.0284	53.526
2410127L17Rik	chr19:18670779-18704792	OK	0.810781	0.963663
Acot13	chr13:24817954-24831489	OK	50.1212	59.554
Baz2b	chr2:59899362-60125740	OK	4.47998	5.32249
Pam	chr1:97821093-98095632	OK	58.7063	69.7453
Myl7	chr11:5896636-5898782	NOTEST	0.125482	0.149071
Cc2d1a	chr8:84132827-84147753	OK	9.69943	11.5225
Zgpat	chr2:181357689-181380793	OK	8.74377	10.387
Gnpnat1	chr14:45351185-45388796	OK	2.17063	2.5784
Lrp1b	chr2:40596772-42653598	OK	0.844136	1.00263
Ldb1	chr19:46032600-46045211	OK	28.4347	33.7718
Tpra1	chr6:88902250-88912240	OK	14.8925	17.687
Mars2	chr1:55237176-55240058	OK	3.32902	3.95304
Phf10	chr17:14943183-14961260	OK	8.04462	9.55235
Rybp	chr6:100228564-100287358	OK	3.45664	4.1043
Mybl1	chr1:9667410-9700209	OK	1.37471	1.63215
Gnl2	chr4:125030013-125065657	OK	23.6649	28.0945
Snw1	chr12:87428077-87472299	OK	27.5445	32.6999
Osm	chr11:4236784-4241026	NOTEST	0.155663	0.184776
Lin7c	chr2:109890877-109900936	OK	19.5424	23.1962
Ppil2	chr16:17070138-17111252	OK	24.4286	28.9928
Dhcr24	chr4:106561037-106589113	OK	165.49	196.392
Vps54	chr11:21239031-21371267	OK	7.77603	9.22741
Cep128	chr12:90998491-91384409	OK	1.21485	1.44158
Vasp	chr7:19256929-19271854	OK	38.2236	45.3565
Arnt	chr3:95434389-95497239	OK	6.11805	7.25923
36950	chr19:37207544-37224457	OK	29.2166	34.6618
Vps37c	chr19:10688814-10714419	OK	22.5831	26.7896
Xrcc6bp1	chr10:126868427-126901371	OK	2.91855	3.46186
Sf1	chr19:6363689-6378038	OK	25.2152	29.9081
Ints8	chr4:11191350-11254259	OK	9.8953	11.7363
D030045P18Rik	chr10:45807703-45852018	NOTEST	0.137707	0.163327
Wdr89	chr12:75630593-75669537	OK	1.26091	1.49549
C78339	chr13:46669521-46675773	OK	27.3854	32.479
Usp48	chr4:137594188-137658537	OK	18.5276	21.9721
Golm1	chr13:59634995-59675784	OK	4.3163	5.11874
Sugp1	chr8:70042812-70071953	OK	15.3118	18.1577
Mier1	chr4:103114389-103165754	OK	6.8773	8.15525
Mzt2	chr16:15848440-15863322	OK	17.106	20.2846
Gcat	chr15:79030873-79043558	OK	3.87651	4.59647
Hace1	chr10:45577828-45712345	OK	13.307	15.7776
Rpp25l	chr4:41712032-41713517	OK	9.33444	11.0671
Gdap10	chr12:32820334-32853369	NOTEST	0.27299	0.323633
Tmem55a	chr4:14864218-14915260	OK	40.1698	47.6202
Mettl3	chr14:52261758-52305124	OK	12.5036	14.8218
Gm12942	chr4:127126042-127129660	OK	1.67097	1.98058
Mff	chr1:82724917-82752389	OK	76.3741	90.5215
Sh3bgrl2	chr9:83548337-83600291	OK	102.629	121.638
Banf1	chr19:5364632-5371511	OK	36.7207	43.5205
Gda	chr19:21391306-21472661	OK	17.1158	20.2852
B4galnt1	chr10:127165155-127172340	OK	12.6344	14.9735

Ddx11	chr17:66123519-66152168	NOTEST	0.487875	0.578026
Peo1	chr19:45006557-45012762	OK	3.45812	4.09712
Slc25a28	chr19:43663800-43674881	OK	9.61115	11.3853
38411	chr10:127056049-127060184	OK	8.41117	9.96295
Slc4a5	chr6:83237374-83304945	NOTEST	0.0943682	0.111768
1810011H11Rik	chr14:32785962-32817968	NOTEST	0.151422	0.179334
Klhl24	chr16:20097553-20127744	OK	11.5174	13.6393
0610009B22Rik	chr11:51685384-51688634	OK	31.8205	37.6784
Cbx7	chr15:79915806-79932646	OK	11.2889	13.3666
Tmem65	chr15:58782268-58823427	OK	52.1211	61.7132
Lactb2	chr1:13625899-13660509	OK	16.4169	19.4348
Gtf2f2	chr14:75896936-76010865	OK	9.35711	11.0772
Tbc1d10c	chr19:4184356-4191047	NOTEST	0.344297	0.407581
Gskip	chr12:105685351-105703057	OK	23.5443	27.8707
Trp53inp2	chr2:155381855-155389847	OK	49.2992	58.3576
Thap2	chr10:115369965-115384435	OK	3.85849	4.56727
Thrap3	chr4:126164082-126202710	OK	16.3469	19.3498
Ywhah	chr5:33018815-33027966	OK	976.328	1155.61
Zfp668	chr7:127865358-127876823	OK	2.80256	3.31697
Smarca2	chr19:26605159-26823907	OK	37.7921	44.7285
Ralgs2	chr1:156804165-156939626	OK	9.48943	11.2306
Dcun1d5	chr9:7184565-7207031	OK	38.7834	45.8987
Gm10778	chr10:81812185-81826490	NOTEST	0.15717	0.185977
Nudt10	chrX:6168695-6172991	OK	8.58627	10.1586
Raver1	chr9:21067513-21092008	OK	12.4062	14.678
Mtmr11	chr3:96161969-96171718	OK	3.34465	3.95612
Cdc20b	chr13:113035378-113091135	NOTEST	0.0513682	0.0607552
Fam133b	chr5:3543832-3570546	OK	9.286	10.9828
Lsm12	chr11:102163488-102185256	OK	16.5062	19.5215
Polr2h	chr16:20717825-20722265	OK	12.2264	14.4588
Chrac1	chr15:73090411-73094075	OK	11.4171	13.5015
Gm10791	chr16:84954435-85173707	NOTEST	0.0132946	0.0157207
Tbpl1	chr10:22645010-22731447	OK	22.087	26.1172
Dhx15	chr5:52150202-52190546	OK	47.0749	55.6612
Mfsd7b	chr1:191005831-191029781	OK	10.3025	12.1813
Hltf	chr3:20057810-20118491	OK	5.5994	6.61909
Perp	chr10:18845070-18857072	OK	5.29269	6.25638
Tigd5	chr15:75909734-75914535	OK	0.686529	0.811516
Gadd45gip1	chr8:84832281-84840641	OK	13.8508	16.3713
Dnaaf2	chr12:69189837-69199868	OK	1.70304	2.01286
Tmem199	chr11:78507054-78512168	OK	26.4663	31.2808
Gclc	chr9:77754534-77794489	OK	18.2383	21.5557
Mier2	chr10:79540244-79555091	OK	6.50187	7.6844
Lrrc3b	chr14:15357515-15438987	OK	8.5531	10.1083
Lztfl1	chr9:123697592-123717557	OK	8.58835	10.1496
Zfp707	chr15:75969184-75975865	OK	1.84932	2.18521
Rnf220	chr4:117271463-117496915	OK	20.9671	24.7749
Znhit2	chr19:6061206-6062468	OK	18.2854	21.6051
Pstpip1	chr9:56089975-56128890	OK	4.7891	5.65844
Ppp4r1l-ps	chr2:173579319-173659539	OK	1.21521	1.43573
Camkmt	chr17:85090699-85458580	OK	8.14712	9.6255
Nupl2	chr5:24164962-24184008	OK	3.24169	3.82973
Qrs1	chr10:43874189-43901736	OK	11.6089	13.7143

Rnf5	chr17:34601098-34603561	OK	33.4349	39.4945
Hspa2	chr12:76404175-76406936	OK	12.7739	15.0884
Yrdc	chr4:124850758-124862171	OK	9.11198	10.763
Lzts3	chr2:130632764-130642844	OK	10.7961	12.7511
Eif2s1	chr12:78862071-78887010	OK	14.1942	16.7619
Ksr2	chr5:117414001-117767988	OK	3.56908	4.21402
Sp2	chr11:96944145-96977688	OK	4.9006	5.78607
Uba1	chrX:20658301-20683179	OK	200.432	236.616
Parvb	chr15:84232042-84315609	OK	45.9902	54.2922
Aimp1	chr3:132660497-132683879	OK	38.036	44.8963
6430706D22Rik	chr1:88227019-88277579	OK	16.8075	19.8389
Hspbp1	chr7:4660520-4684963	OK	38.6872	45.6641
Snrnp40	chr4:130360131-130390030	OK	9.76341	11.524
Zdhhc5	chr2:84671310-84715164	OK	15.4054	18.1833
Cpped1	chr16:11803720-11930594	OK	19.9741	23.5747
Mad2l1bp	chr17:46147384-46153551	OK	10.7439	12.6797
Sertad3	chr7:27473839-27477364	OK	5.12307	6.04613
Dohh	chr10:81384427-81388352	OK	37.4143	44.1531
Cfdp1	chr8:111768472-111854310	OK	52.8236	62.3346
Arxes1	chrX:136033366-136034946	OK	9.22838	10.8893
Gabpb1	chr2:126628906-126676337	OK	5.46962	6.45376
Ptprf	chr4:118208212-118291397	OK	58.1237	68.5817
2310047M10Rik	chr11:69059774-69061576	OK	20.3001	23.9522
Armc10	chr5:21645983-21662592	OK	9.08219	10.7156
Polr1c	chr17:46243919-46248045	OK	13.3797	15.786
Cdc37	chr9:21138540-21149906	OK	56.1937	66.2979
Tnks	chr8:34829178-34965690	OK	25.3287	29.8816
Uchl1	chr5:66626494-66687234	OK	1918.64	2263.31
Arl6ip5	chr6:97210791-97233315	OK	172.851	203.898
Ankrd32	chr13:77043087-77135468	OK	4.701	5.54529
BC055324	chr1:163929099-163994781	NOTEST	0.582119	0.686656
Kcns2	chr15:34837354-34843407	OK	0.830539	0.979656
Hoxd3os1	chr2:74710043-74748271	NOTEST	0.0928615	0.109524
Pdzd7	chr19:45015175-45045772	OK	0.964011	1.13689
Rps6ka4	chr19:6829083-6840627	OK	11.5247	13.5904
Ak6	chr13:100651342-100666415	OK	9.63102	11.3564
Mdm2	chr10:117688874-117710758	OK	10.795	12.729
Tgtp1	chr11:48985328-48992246	NOTEST	0.333182	0.392869
Gm15455	chr1:33835898-33838914	OK	1.27505	1.5032
Hdac2	chr10:36974543-37001888	OK	56.8601	67.0321
Stard13	chr5:151037514-151190193	OK	17.7192	20.8889
Xab2	chr8:3610089-3621296	OK	12.8068	15.0968
Gm13375	chr2:20968873-20970348	OK	5.98826	7.05855
Plk3	chr4:117126812-117133952	OK	6.08887	7.17711
Psmc9	chr5:123228189-123250125	OK	8.18903	9.65167
Myo1e	chr9:70207349-70400067	OK	53.2364	62.7414
Rnf19a	chr15:36239933-36283147	OK	36.321	42.8013
Nhlrc1	chr13:47012556-47014850	OK	5.59326	6.59084
Araf	chrX:20848542-20920918	OK	83.8758	98.8353
As3mt	chr19:46707442-46741095	OK	6.24625	7.35985
1110004F10Rik	chr7:116093379-116105210	OK	53.025	62.4773
Eif5	chr12:111538100-111546753	OK	76.2501	89.8417
Slc25a39	chr11:102402975-102407517	OK	63.6488	74.9925

Wdr13	chrX:8123300-8132858	OK	32.2262	37.968
Pot1a	chr6:25743734-25809226	OK	7.5104	8.84777
Rps15a	chr7:118104375-118116147	OK	6.40719	7.5476
Ano8	chr8:71469193-71486067	OK	21.2938	25.078
Gabbr1	chr17:37045965-37074305	OK	148.864	175.317
Pim1	chr17:29491044-29495459	OK	8.37956	9.86852
Nrbf2	chr10:67266688-67285281	OK	9.0607	10.6706
Grb2	chr11:115644143-115708597	OK	56.6401	66.7002
Zc3h13	chr14:75004109-75388146	OK	6.67996	7.86593
Zmiz1	chr14:25459184-25666747	OK	14.7136	17.3251
Ncoa2	chr1:13139158-13374083	OK	13.1105	15.4359
Ict1	chr11:115403765-115410913	OK	28.9015	34.0273
Cdc45	chr16:18780446-18811972	OK	1.44181	1.6975
Dmwd	chr7:19076199-19082775	OK	27.6008	32.4918
Gm12657	chr4:94565138-94603247	OK	1.4234	1.67563
Fam188b	chr6:55203382-55320222	OK	1.3938	1.64059
Bcorl1	chrX:48341357-48406728	OK	3.16332	3.72315
Zfp943	chr17:21962558-21994366	OK	6.97145	8.20393
Oas1c	chr5:120800198-120812514	OK	4.89623	5.76164
Trim28	chr7:13024151-13031032	OK	23.9845	28.2227
Ap5b1	chr19:5568073-5571261	OK	3.86224	4.54408
Cdc42bpb	chr12:111292971-111377718	OK	24.0776	28.3279
Rfx3	chr19:27761720-28011166	OK	1.08535	1.27678
1700123020Rik	chr14:54642160-54690742	OK	12.3693	14.5508
Bank1	chr3:136053363-136326046	OK	0.721894	0.849178
Fam162a	chr16:36043843-36071515	OK	42.8433	50.3915
Mrpl9	chr3:94443335-94448708	OK	27.05	31.8155
Neil2	chr14:63182444-63193525	OK	1.79142	2.10698
Sft2d3	chr18:31909093-31911903	OK	1.3355	1.57072
Arih1	chr9:59388553-59486374	OK	27.7479	32.629
Chst5	chr8:111889134-111910199	OK	1.66556	1.95855
Myl12b	chr17:70973962-70990516	OK	228.573	268.766
Kdm5c	chrX:152233226-152279099	OK	7.55178	8.87867
Kcna5	chr6:126532550-126535555	OK	0.829107	0.974778
Cntrob	chr11:69299495-69323873	OK	2.03552	2.39308
Ctnnb1	chr9:120933399-120960507	OK	180.885	212.647
Ranbp17	chr11:33211793-33513746	OK	2.72742	3.20622
Ndufaf7	chr17:78937134-78948052	OK	17.1161	20.1181
Mndal	chr1:173857219-173880187	OK	1.32824	1.56118
Hps6	chr19:46003477-46006173	OK	4.75096	5.58348
Efr3b	chr12:3962553-4038915	OK	17.9107	21.0468
Taf15	chr11:83473107-83506740	OK	19.3878	22.7825
Rpusd3	chr6:113415318-113419340	OK	3.39507	3.98951
Exoc1	chr5:76529310-76570298	OK	23.9977	28.1965
Zmym3	chrX:101404383-101420685	OK	15.1521	17.8008
Mrpl2	chr17:46646247-46650132	OK	24.954	29.3157
Pisd-ps2	chr17:3064317-3084183	OK	3.39441	3.98752
Rdh13	chr7:4425664-4445657	OK	7.59916	8.9261
Hdac1	chr4:129516103-129542646	OK	2.47926	2.91216
Rfc2	chr5:134582689-134598328	OK	16.051	18.8535
Stmn2	chr3:8509526-8561604	OK	868.995	1020.62
Ppp2r5b	chr19:6226400-6235840	OK	131.419	154.347
Panx1	chr9:15005784-15045478	OK	38.6576	45.4018

Map1lc3a	chr2:155276363-155278073	OK	343.603	403.504
Rrp1b	chr17:32036161-32062862	OK	1.92906	2.26523
Zfp628	chr7:4915216-4922003	OK	3.28388	3.85572
Rpusd4	chr9:35267880-35275957	OK	6.25473	7.34337
Kdm4b	chr17:56326049-56402873	OK	9.60107	11.272
Rnf10	chr5:115241769-115272895	OK	76.3949	89.6749
Ece2	chr16:20611600-20645915	OK	36.5868	42.9467
Setd5	chr6:113077638-113153424	OK	12.9469	15.196
Rnf168	chr16:32277460-32301439	OK	13.7669	16.1584
Chmp5	chr4:40948552-40965302	OK	88.7924	104.192
Sh3d21	chr4:126150601-126163341	NOTEST	0.615313	0.721992
Hoxd8	chr2:74704614-74707932	OK	16.774	19.6787
Cutc	chr19:43753022-43768638	OK	2.29909	2.69712
Rad21	chr15:51962603-51991760	OK	40.1806	47.1365
Tmtc3	chr10:100443901-100487347	OK	4.86183	5.70115
Mir22hg	chr11:75461538-75466690	OK	14.6638	17.195
Rnf25	chr1:74593751-74601397	OK	11.2962	13.2452
Edem1	chr6:108828640-108859356	OK	9.83195	11.5279
BC028528	chr3:95871521-95891930	OK	3.98293	4.66964
Zfp90	chr8:106415338-106425889	OK	4.62034	5.41582
Rbm14	chr19:4784292-4811634	OK	6.69789	7.85103
Mettl4	chr17:94727079-94749892	OK	5.87153	6.88216
Tank	chr2:61578585-61654169	OK	10.8889	12.7631
Pus10	chr11:23646478-23732876	OK	1.65375	1.9383
Lrch1	chr14:74754672-74947877	OK	4.33903	5.08556
Gtf2ird1	chr5:134357660-134456716	OK	5.88387	6.89594
Zfp808	chr13:62129889-62173936	NOTEST	0.252411	0.295823
Tymp	chr15:89355718-89377037	OK	1.08754	1.27452
Esyt1	chr10:128510249-128525859	OK	101.869	119.38
Rxrb	chr17:34031811-34038403	OK	18.1165	21.2295
Nrap	chr19:56287937-56390038	NOTEST	0.0518397	0.060743
Ppp1r21	chr17:88530123-88588367	OK	19.5945	22.9592
Cebpz	chr17:78916498-78937070	OK	8.86679	10.3888
Rbm18	chr2:36116078-36190283	OK	23.8885	27.9882
Syt6	chr3:103193822-103854618	OK	30.3091	35.5083
Armcx5	chrX:135742691-135803468	OK	7.43836	8.71409
Slx4ip	chr2:136873780-137069778	OK	2.37983	2.78798
Dbnl	chr11:5788482-5800980	OK	50.7889	59.498
Pdzrn4	chr15:92396809-92771819	NOTEST	0.226495	0.265321
Ikbke	chr1:131254601-131279563	NOTEST	0.195116	0.22856
Narf	chr11:121237235-121255856	OK	10.9218	12.7936
Srp14	chr2:118475842-118479696	OK	143.974	168.637
Jmjd7	chr2:120027482-120043032	OK	2.14701	2.51477
Eid2	chr7:28267880-28269168	OK	21.6394	25.3426
Frmd4a	chr2:4152862-4614043	OK	13.0229	15.2515
Crnk11	chr2:145917481-145934700	OK	8.3876	9.82285
Phka2	chrX:160502165-160598878	OK	5.18858	6.0759
Tmprss11bnl	chr5:86659521-86676298	NOTEST	0.0442252	0.0517882
Rps7	chr12:28630846-28635953	OK	0.983673	1.15185
Txnrd1	chr10:82833950-82897724	OK	54.3032	63.581
Terf2	chr8:107069401-107096545	OK	10.3077	12.0687
Rnf135	chr11:80183871-80199753	OK	2.62675	3.07532
Tet3	chr6:83362373-83441678	OK	3.98349	4.66345

Zbtb17	chr4:141444672-141538597	OK	4.73658	5.54506
Vps72	chr3:95111041-95123051	OK	12.9136	15.117
Llgl2	chr11:115824057-115855780	NOTEST	0.286986	0.335855
Ppp2r2d	chr7:138846385-138883056	OK	32.3341	37.8385
Zfp595	chr13:67312997-67332560	OK	0.825596	0.96612
Mcee	chr7:64392770-64412119	OK	21.9713	25.7101
Srrm2	chr17:23803186-23829109	OK	28.2321	33.0357
Ankrd34a	chr3:96596635-96599778	OK	1.54741	1.8106
Gar1	chr3:129824911-129831396	OK	9.36529	10.9577
Fbxo4	chr15:3963563-3979573	OK	1.83985	2.15262
Gins1	chr2:150909593-150931280	OK	1.74015	2.03592
D8Erttd738e	chr8:84246234-84249761	OK	84.3121	98.64
Galnt12	chr4:47091952-47123042	NOTEST	0.193857	0.226793
Gabra3	chrX:72432675-72656246	OK	4.44204	5.19623
Rab37	chr11:115091430-115162240	OK	20.4681	23.9419
Gpr4	chr7:19212537-19224176	NOTEST	0.629314	0.736021
Rbm3	chrX:8138974-8147963	OK	12.3301	14.4206
Ttc9	chr12:81631368-81664941	OK	120.764	141.23
Cript	chr17:87025560-87035808	OK	60.8249	71.1238
Med13l	chr5:118560718-118765437	OK	6.64237	7.76603
Mettl1	chr10:127041931-127045461	OK	12.5646	14.6899
Rlf	chr4:121145372-121188534	OK	4.42109	5.16864
Limd2	chr11:106156255-106160142	OK	9.37774	10.9626
Cmb1	chr15:31568911-31590119	OK	14.6426	17.1171
Ankmy2	chr12:36157123-36197291	OK	13.1955	15.4237
Ncald	chr15:37366174-37792428	OK	74.611	87.2069
Otud4	chr8:79639675-79677755	OK	13.4314	15.6989
Acap2	chr16:30920553-31275697	OK	10.1088	11.8153
Plekha1	chr7:130865909-130913302	OK	30.5896	35.7529
Zfp420	chr7:29859978-29877302	OK	2.57977	3.0149
Ppfbp1	chr6:146888493-147032023	OK	12.9443	15.1236
Mtf2	chr5:108065673-108109219	OK	3.46644	4.04995
Zfp664	chr5:124862704-124888630	OK	42.0057	49.0746
Sstr2	chr11:113619480-113625895	OK	2.81827	3.29239
Sars2	chr7:28741967-28753879	OK	5.94989	6.95058
Ibtk	chr9:85687359-85749334	OK	5.22765	6.10643
Rasa1	chr13:85214698-85289486	OK	18.8929	22.0655
Wrn	chr8:33234372-33385527	OK	2.57105	3.00279
Mzt1	chr14:99034543-99046136	OK	28.4286	33.1985
Slc52a2	chr15:76538942-76542130	OK	6.41184	7.48675
Trnt1	chr6:106769137-106800087	OK	21.4562	25.0513
Selplg	chr5:113817797-113830501	NOTEST	0.509328	0.59466
Omp	chr7:98121564-98184799	OK	3.24813	3.79231
Hfm1	chr5:106840196-106925890	OK	0.706937	0.825358
Aanat	chr11:116593686-116597680	NOTEST	0.078236	0.0913354
Spats2l	chr1:57774860-57948397	OK	7.53964	8.80202
Kank3	chr17:33810522-33822914	OK	4.23235	4.94094
Enkd1	chr8:105703651-105708168	OK	1.0436	1.21829
Gnb1	chr4:155491360-155559269	OK	367.696	429.177
Cyfp2	chr11:46193848-46589232	OK	112.954	131.837
Sel1l3	chr5:53107082-53213452	OK	14.2282	16.6067
Tbccd1	chr16:22813214-22857569	OK	8.19464	9.56448
Rfx1	chr8:84066835-84096992	OK	2.16316	2.52465

Snora64	chr17:24720062-24721927	OK	37.2257	43.4434
Ncoa5	chr2:165000356-165034779	OK	10.9598	12.79
Dxo	chr17:34837018-34839186	OK	4.5489	5.30797
Psmb5	chr14:54614119-54617995	OK	73.9159	86.2361
Cars2	chr8:11514016-11550771	OK	6.52161	7.60834
Pcgf2	chr11:97688822-97700497	OK	4.1692	4.86392
Ppp4r2	chr6:100833637-100868717	OK	5.29141	6.17232
Ttc5	chr14:50765408-50785520	OK	8.09589	9.4433
Dhrs1	chr14:55739019-55745684	OK	98.0889	114.384
Alg5	chr3:54735538-54749795	OK	14.3816	16.7702
Syap1	chrX:162407199-163352564	OK	17.6008	20.524
Sepsecs	chr5:52643406-52669701	OK	4.10746	4.78901
Map3k12	chr15:102470631-102517004	OK	17.6356	20.5586
Tmem161b	chr13:84222295-84295966	OK	4.3504	5.07135
Flii	chr11:60699689-60727221	OK	43.3148	50.4855
Bccip	chr7:133709332-133881532	OK	19.7594	23.0291
Npdc1	chr2:25403049-25409494	OK	175.513	204.555
Fam118b	chr9:35211202-35267805	OK	4.83471	5.63469
Sike1	chr3:102995739-103003914	OK	9.27069	10.8036
Ncbp1	chr4:46138510-46172402	OK	20.4363	23.813
Bmper	chr9:23223075-23485215	OK	5.73411	6.68129
1700029J07Rik	chr8:45953605-45975252	NOTEST	0.655572	0.763809
H2-K2	chr17:33974658-33978791	OK	1.11753	1.30192
Hnrnpul2	chr19:8819400-8834142	OK	42.0617	49.0005
Chchd5	chr2:129129699-129134111	OK	5.82559	6.78613
Fam173b	chr15:31602115-31617535	OK	6.50656	7.57851
Cct3	chr3:88297134-88321766	OK	124.754	145.307
2410004B18Rik	chr3:145938031-145944275	OK	15.5489	18.1101
Ncaph2	chr15:89355718-89377037	OK	24.1507	28.1281
Gm3500	chr14:5718333-5741602	NOTEST	0.0192766	0.0224512
Cytip	chr2:58129138-58160122	NOTEST	0.162248	0.188956
C1galt1c1	chrX:38630782-38635143	OK	20.5114	23.8861
Nosip	chr7:45062428-45078503	OK	27.2644	31.7445
Nip7	chr8:107056876-107060928	OK	4.17668	4.8621
Plekhm1	chr11:103365091-103412664	OK	4.00195	4.6581
Nup37	chr10:88146991-88178395	OK	3.57599	4.16214
Elavl2	chr4:91250766-91399984	OK	110.718	128.866
Zfp229	chr17:21733723-21748969	OK	3.13147	3.64443
Gm4944	chr17:22197264-22225614	OK	2.17435	2.53027
Hdac5	chr11:102195746-102230172	OK	15.395	17.914
Dnajc4	chr19:6987910-6992272	OK	5.90101	6.86653
Mgarp	chr3:51388412-51396547	NOTEST	0.255412	0.297199
Cyb5r4	chr9:87022028-87077774	OK	10.6439	12.3844
Fam103a1	chr7:81762952-81769490	OK	39.645	46.127
Dnal4	chr15:79761448-79774467	OK	10.4069	12.1082
Idh1	chr1:65158615-65186479	OK	82.8648	96.4066
Ing1	chr8:11556065-11563250	OK	5.97767	6.95401
Kcnu1	chr8:25849622-25937934	OK	1.37834	1.60346
Wbscr16	chr5:134148057-134176767	OK	5.4585	6.34884
Cacybp	chr1:160202366-160212892	OK	52.1647	60.6732
Map2k7	chr8:4238739-4247897	OK	23.5898	27.4372
Ndufv3	chr17:31520114-31531325	OK	147.874	171.96
Atxn3	chr12:101918900-101958243	OK	8.42155	9.79289

Snhg12	chr4:132308677-132311024	OK	12.7907	14.8728
Narg2	chr9:69397997-69433074	OK	1.70536	1.98288
Vwde	chr6:13185610-13224965	NOTEST	0.254665	0.296097
Zcchc6	chr13:59769965-59823147	OK	12.2287	14.2175
Zfyve27	chr19:42170566-42194592	OK	21.3201	24.7867
Zfp512	chr5:31452435-31481753	OK	13.5151	15.7114
Adck4	chr7:27233012-27257949	OK	5.26209	6.11582
Clec9a	chr6:129408861-129424764	NOTEST	0.019372	0.0225143
4933404O12Rik	chr5:136919145-136937109	OK	1.48703	1.72812
Cuedc2	chr19:46328183-46338660	OK	55.3868	64.3653
Atl2	chr17:79848389-79896123	OK	18.3642	21.3362
Bst1	chr5:43818892-43843468	NOTEST	0.330215	0.383646
Exd2	chr12:80463094-80498135	OK	7.72684	8.97696
Ndn12	chr7:64756095-65156528	OK	10.1682	11.8129
Sipa1	chr19:5651184-5663707	OK	3.23064	3.75309
Prcc	chr3:87858902-87885562	OK	23.5681	27.3757
Cdc23	chr18:34598614-34651736	OK	8.38495	9.73952
Csf2rb	chr15:78325989-78351001	OK	0.683667	0.794098
Psmc3	chr11:98682553-98695978	OK	64.7121	75.1638
Oaz2	chr9:65676547-65690300	OK	80.9421	94.0148
Paip2	chr18:35598666-35627227	OK	138.337	160.664
Mrps10	chr17:47368886-47378679	OK	16.6112	19.2911
Ppp1r15a	chr7:45522916-45526268	OK	18.3901	21.3548
Rbm41	chrX:139889510-139998595	OK	2.59843	3.01729
Eif1ad	chr19:5364632-5371511	OK	12.3684	14.3616
Hoxa7	chr6:52215623-52218573	OK	7.44776	8.64766
Slx4	chr16:3979105-4001678	OK	1.28592	1.49308
Tbc1d17	chr7:44812255-44849079	OK	12.8841	14.9595
Kmt2b	chr7:30568854-30588726	OK	4.47247	5.19266
Ankrd44	chr1:54645339-54926387	OK	2.88551	3.35009
Ttll12	chr15:83575093-83595157	OK	7.74849	8.99549
Hspe1	chr1:55088147-55091317	OK	26.5703	30.8436
Tjp3	chr10:81268171-81291581	NOTEST	0.0128932	0.0149661
Stam	chr2:14074111-14148330	OK	30.9997	35.9813
Cox16	chr12:81470703-81485110	OK	8.12352	9.42837
Capn1	chr19:5988544-6018459	OK	88.9161	103.197
Galnt18	chr7:111471660-111779977	OK	15.8235	18.3648
Fgfr1op2	chr6:146577910-146599198	OK	34.9694	40.5849
Ppp1r11	chr17:36948354-36951792	OK	35.3	40.9674
Inpp4a	chr1:37299837-37410740	OK	46.3687	53.8105
Tex2	chr11:106502138-106612930	OK	61.2301	71.054
Ankrd26	chr6:118502563-118562256	OK	3.34255	3.87866
Gramd1a	chr7:31130126-31151050	OK	21.8107	25.3085
1810043G02Rik	chr10:77978649-77985438	OK	13.8747	16.097
Cachd1	chr4:100776678-101003748	OK	8.60058	9.97815
Pknx1	chr17:31564772-31607693	OK	3.75469	4.35601
Spry3	chrX_GL456233_random:10135	OK	6.70147	7.77304
Slc31a2	chr4:62286428-62298412	OK	8.93772	10.3667
Ptpn18	chr1:34459745-34473779	NOTEST	0.155238	0.180025
Mustn1	chr14:30879256-30881610	OK	3.36569	3.90279
Ntpcr	chr8:125734202-125748235	OK	12.7513	14.7858
Romo1	chr2:156123636-156145794	OK	105.515	122.342
Leprotil1	chr8:34135571-34146739	OK	91.0913	105.615

1700030J22Rik	chr8:116969598-116978943	OK	1.67233	1.93877
Nabp2	chr10:128401394-128409796	OK	33.0912	38.3608
Edc4	chr8:105880950-105893207	OK	9.02701	10.4641
Ppm1j	chr3:104781055-104786017	OK	74.5186	86.3804
OTTMUSG0000001	chr2:176619932-176636319	LOWDAT	0.194549	0.225479
4930426L09Rik	chr2:18998318-18999804	NOTEST	0.119595	0.138599
Mkln1	chr6:31398827-31509477	OK	23.9147	27.7144
Uck1	chr2:32236682-32260105	OK	11.8536	13.7356
Axin2	chr11:108920348-108950781	OK	2.80871	3.2543
Ap3d1	chr10:80706977-80742211	OK	52.6161	60.9621
Dnajb1	chr8:83608174-83611903	OK	29.008	33.6072
Ppfia1	chr7:144476754-144553729	OK	8.23405	9.53751
Tnip2	chr5:34496095-34513979	OK	1.55917	1.80597
Gga1	chr15:78877189-78894585	OK	22.33	25.8645
Rnf19b	chr4:129058270-129084526	OK	26.3171	30.4773
Fut7	chr2:25423241-25426373	NOTEST	0.297786	0.344828
Fam118a	chr15:85037061-85062830	OK	6.05037	7.00606
Rpl36	chr17:56613394-56614246	OK	1.73327	2.0069
Eef1e1	chr13:38645690-38659028	OK	31.0764	35.9823
Pitpnb	chr5:111330762-111388359	OK	23.1533	26.8062
Rnpep	chr1:135262698-135284084	OK	12.7065	14.7102
Ddx46	chr13:55634998-55681267	OK	12.4344	14.3938
Gng4	chr13:13784538-13827895	OK	4.1252	4.77522
Cldn12	chr5:5505014-5514976	OK	7.27527	8.42146
Zfp12	chr5:143235162-143248834	OK	3.67771	4.2571
Rc3h2	chr2:37370070-37422903	OK	17.2555	19.9725
Pbdc1	chrX:105079755-105117090	OK	7.1864	8.31651
Znrd1	chr17:36954357-36958428	OK	9.56355	11.0668
Cep76	chr18:67617396-67641336	OK	2.23138	2.58209
4930529M08Rik	chr2:145934783-145964226	NOTEST	0.33742	0.390448
Tmem255a	chrX:38189792-38252481	OK	99.4186	115.032
Map7d1	chr4:126232167-126256319	OK	60.3067	69.775
Nhp2l1	chr15:82041344-82047598	OK	33.563	38.8317
Otulin	chr15:27605920-27630693	OK	8.69524	10.0601
Gm10069	chr6:128438756-128526720	OK	0.787056	0.910575
Rcc1	chr4:132331918-132345750	OK	3.68186	4.25868
Gm19345	chr7:19852002-19861299	OK	2.64382	3.05762
Ranbp9	chr13:43398375-43480973	OK	22.4927	26.009
Atpif1	chr4:132530554-132533659	OK	360.047	416.24
Tex10	chr4:48279759-48473422	OK	8.35239	9.6554
Gpr108	chr17:57234914-57247641	OK	20.4898	23.6852
Isyna1	chr8:70594480-70597290	OK	13.9007	16.0662
Snf8	chr11:96034916-96047405	OK	18.8844	21.8259
Nell1	chr7:49975349-50863289	OK	3.0019	3.46949
Hexa	chr9:59539666-59565105	OK	43.5525	50.3314
Mri1	chr8:84250575-84257324	OK	5.35325	6.18643
Arhgap27	chr11:103331483-103363692	OK	9.23315	10.6701
Arid1a	chr4:133679007-133753611	OK	13.1256	15.1677
Ccdc17	chr4:116557726-116600266	NOTEST	0.283074	0.327099
Stag3	chr5:138280508-138312393	NOTEST	0.0918191	0.106097
Pik3r2	chr8:70768180-70776712	OK	19.6161	22.6663
Irf3	chr7:44997647-45002848	OK	8.47304	9.79051
Hnrnpul1	chr7:25722038-25754720	OK	25.2874	29.2187

Phc2	chr4:128654701-128752881	OK	32.4522	37.497
Nrd1	chr4:109000804-109202272	OK	40.2354	46.4873
Iws1	chr18:32067733-32104331	OK	4.55069	5.25754
Numb	chr12:83794033-83921934	OK	15.1174	17.4654
Higd1a	chr9:121848559-121858000	OK	21.5869	24.9364
Slc35e2	chr4:155601415-155624755	OK	7.93959	9.17092
Lrrtm2	chr18:35118911-35254775	OK	9.52362	11.0006
Ccl28	chr13:119623818-119654358	NOTEST	0.621744	0.718167
Aldoart2	chr12:55565204-55566896	NOTEST	0.251333	0.290279
Xpot	chr10:121587379-121626316	OK	12.2295	14.1246
Acbd3	chr1:180726042-180754204	OK	25.8475	29.8512
Ap3b2	chr7:81460398-81493925	OK	64.2442	74.1949
Ogg1	chr6:113326975-113343922	OK	4.99707	5.77104
Zdhhc24	chr19:4878667-4885397	OK	13.158	15.195
Mterf1a	chr5:3890580-3893933	OK	1.62601	1.87766
Wdr53	chr16:32247226-32257083	OK	8.83955	10.2075
Med28	chr5:45520228-45529284	OK	13.7148	15.8364
Dcp1b	chr6:118587239-119221614	OK	1.72103	1.98722
Klhl8	chr5:103862049-103911229	OK	4.98343	5.75369
Kat7	chr11:95271852-95310246	OK	22.8659	26.3993
Zfr	chr15:12117850-12185449	OK	46.8848	54.128
Rabep2	chr7:126428766-126463073	OK	6.96662	8.04259
Gnb2l1	chr11:48800359-48806241	OK	105.001	121.191
Wapal	chr14:34673927-34746217	OK	10.7519	12.4074
Poc5	chr13:96388293-96415587	OK	10.6388	12.2759
Ppp1r12c	chr7:4481520-4501680	OK	27.3162	31.5193
Dnajc3	chr14:118937931-118981702	OK	22.2563	25.6791
Emc2	chr15:43477228-43527777	OK	61.4952	70.9521
Ints9	chr14:64950044-65039835	OK	9.24288	10.6637
Sde2	chr1:180851150-180868114	OK	6.39352	7.37598
Celf4	chr18:25477619-25753983	OK	34.8774	40.235
Crls1	chr2:132846665-132866768	OK	15.7644	18.1854
Uqcc2	chr17:27122664-27133891	OK	88.0267	101.537
1110054M08Rik	chr16:24392555-24992578	OK	2.67415	3.08444
Fndc5	chr4:129137059-129144593	OK	20.811	24.0014
Steap2	chr5:5664828-5694568	OK	2.67596	3.08617
Ssrp1	chr2:85037119-85047114	OK	25.5867	29.5089
Nbeal1	chr1:60180598-60334705	OK	5.6442	6.50868
Cpeb1	chr7:81347025-81454758	OK	87.0088	100.324
Gripap1	chrX:7789992-7820567	OK	36.2643	41.814
Emd	chrX:74254686-74257893	OK	21.4505	24.7329
Mettl6	chr14:31478797-31494977	OK	5.13789	5.92389
Psrc1	chr3:108383803-108388231	NOTEST	0.353287	0.407287
Cisd1	chr10:71330493-71344849	OK	119.034	137.225
Irak1	chrX:74013913-74023936	OK	12.7254	14.6696
Serinc5	chr13:92611137-92711946	OK	56.063	64.6
Alg10b	chr15:90224310-90230554	OK	10.6846	12.3104
Zbtb1	chr12:76370265-76388747	OK	6.67017	7.6851
Hmg20a	chr9:56418845-56496936	OK	19.9324	22.9601
Reps1	chr10:18055939-18125155	OK	13.1781	15.1772
Dock2	chr11:34226820-34783905	NOTEST	0.474898	0.5469
Nfatc3	chr8:106059602-106130537	OK	7.5156	8.654
Srrm4	chr5:116438721-116591817	OK	2.47457	2.84933

Tbc1d10b	chr7:127197458-127208468	OK	28.6905	33.0346
Cdh11	chr8:102632994-102785111	OK	40.9943	47.1989
Rit1	chr3:88716853-88731048	OK	25.6366	29.5168
Usf2	chr7:30945247-30956803	OK	12.4216	14.3015
Mrps28	chr3:8802145-8923857	OK	12.0393	13.8576
Eif2ak2	chr17:78852549-78882572	OK	8.83215	10.1653
Etfa	chr9:55454435-55512243	OK	43.856	50.4697
Oprm1	chr10:6788600-7038209	OK	4.62218	5.31885
C1d	chr11:17257617-17269176	OK	18.691	21.5042
Il10ra	chr9:45253838-45269146	OK	1.08614	1.24959
Tprkb	chr6:85915718-85930284	OK	16.6579	19.1589
Elof1	chr9:22055459-22389206	OK	15.6985	18.0547
Prkcz	chr4:155260117-155361428	OK	16.1273	18.5476
Fam188a	chr2:12347263-12419460	OK	72.277	83.1201
Aoc2	chr11:101325062-101329694	NOTEST	0.655681	0.754046
4930579G24Rik	chr3:79629078-79632819	OK	1.751	2.01367
Taf2	chr15:55015128-55072152	OK	7.3339	8.43338
Kpna3	chr14:61365185-61439947	OK	25.2884	29.0795
Kdm1b	chr13:47043498-47106221	OK	1.97004	2.26529
Haus1	chr18:77757566-77767780	OK	10.2921	11.8346
Zfp358	chr8:3493137-3497208	OK	9.10447	10.469
Ddx28	chr8:106009615-106011486	OK	6.36793	7.32089
Pex11g	chr8:3458816-3467648	OK	1.93529	2.22483
Ssx2ip	chr3:146404641-146440137	OK	31.9717	36.7546
A230056J06Rik	chr13:59580175-59585223	NOTEST	0.037336	0.0429186
Pxk	chr14:8098212-8165111	OK	17.5754	20.1995
Timm21	chr18:84935024-84981392	OK	5.17717	5.9496
Twf1	chr15:94577947-94589824	OK	16.96	19.4903
Bzw2	chr12:36091834-36156825	OK	11.1119	12.7693
A330040F15Rik	chr19:12573524-12596566	NOTEST	0.235226	0.270304
Uba2	chr7:34140696-34168529	OK	40.9076	47.0058
Zbtb34	chr2:33406107-33431324	OK	1.49433	1.71704
Brsk2	chr7:141949750-142004243	OK	30.269	34.7789
Mrpl53	chr6:83101515-83109932	OK	37.9582	43.6127
Cul7	chr17:46650337-46664364	OK	13.4964	15.505
Eci1	chr17:24426682-24439316	OK	15.0991	17.3458
Naglu	chr11:101070093-101077671	OK	5.77724	6.63661
Nupr1l	chr5:129908539-129911281	NOTEST	0.403191	0.463162
Bud31	chr5:145140396-145167104	OK	31.3097	35.9653
Psmc2	chr5:21785282-21803784	OK	93.831	107.782
Ddx23	chr15:98645506-98662889	OK	19.9213	22.8824
Gna11	chr10:81528731-81545046	OK	28.462	32.6923
Ofd1	chrX:166390032-166440704	OK	2.44176	2.80445
Mvb12a	chr8:71542929-71548026	OK	24.1053	27.6836
Hmgb3	chrX:71555992-71560654	OK	7.51739	8.6331
Zfp850	chr7:27984470-28014115	OK	1.27032	1.45881
Csgalnact1	chr8:68356780-68735146	OK	7.21437	8.28338
2610306M01Rik	chr6:86848406-86849440	OK	2.63697	3.0274
Srp54b,Srp54c	chr12:55230167-55263480	OK	4.5838	5.26219
Klf16	chr10:80567120-80577296	OK	9.1668	10.5227
Fam13c	chr10:70440667-70599291	OK	7.9304	9.10257
Zfp622	chr15:25984365-25998482	OK	12.9867	14.9038
Rtp4	chr16:23609918-23614222	OK	3.02397	3.47028

Usf1	chr1:171411680-171418742	OK	13.6652	15.6813
1700029I15Rik	chr2:92382917-92383603	NOTEST	0.332923	0.381967
Gpc1	chr1:92831685-92860196	OK	66.8521	76.6958
Rusc2	chr4:43381981-43429134	OK	37.2673	42.7537
Gtl3	chr8:95420249-95434869	OK	19.7815	22.6908
Hexdc	chr11:121177592-121229309	OK	5.14979	5.90708
Zbtb40	chr4:136979731-137048695	OK	1.66825	1.91351
Ggnbp2	chr11:84832360-84870738	OK	30.6334	35.1368
Adarb1	chr10:77290726-77418273	OK	12.3612	14.1784
Psma1	chr7:114264549-114276116	OK	104.291	119.62
Vps8	chr16:21423117-21644681	OK	12.2813	14.0864
Tspan4	chr7:141475235-141539857	OK	22.3357	25.6171
Setdb2	chr14:59402010-59440877	OK	1.96135	2.24942
Cmas	chr6:142756685-142775714	OK	84.5754	96.9854
Mapk6	chr9:75386781-75410016	OK	8.58969	9.84931
Upf1	chr8:70315774-70353273	OK	18.9944	21.7796
Prosc	chr8:27042554-27056132	OK	10.0668	11.5406
St3gal6	chr16:58470540-58523312	OK	17.4946	20.0555
Hira	chr16:18876749-18970308	OK	8.47409	9.71396
Enthd2	chr11:120090521-120098731	OK	4.11165	4.71323
Sssca1	chr19:5730305-5731732	OK	23.1755	26.5663
Atg14	chr14:47540892-47568434	OK	4.72466	5.41494
Zfp942	chr17:21926962-21962464	OK	4.46471	5.11663
Fam32a	chr8:72219729-72223775	OK	41.6988	47.7808
Twistnb	chr12:33429623-33439380	OK	5.76519	6.60559
Apbb1ip	chr2:22774326-22875653	NOTEST	0.279107	0.319793
Ubtf	chr11:102304559-102319096	OK	16.7824	19.2285
Snx31	chr15:36504061-36555572	NOTEST	0.133822	0.153306
Mroh1	chr15:76380512-76477269	OK	16.433	18.8211
Oas2	chr5:120730332-120749848	NOTEST	0.189177	0.216636
Nudt16	chr9:105129337-105131805	OK	12.4672	14.2755
A230046K03Rik	chr10:83543940-83596473	OK	24.4317	27.9744
Rapgef6	chr11:54522844-54699286	OK	16.091	18.424
Nqo1	chr8:107388224-107403205	OK	5.53428	6.33605
Dot1l	chr10:80755205-80794347	OK	2.49638	2.85796
Cyp4f16	chr17:32536628-32551797	OK	2.41699	2.76704
Plcg1	chr2:160731309-160872990	OK	9.86326	11.2911
Stoml1	chr9:58253163-58262524	OK	68.1676	78.03
Tfe3	chrX:7762660-7775202	OK	14.8863	17.0381
Zfp661	chr2:127575532-127584677	OK	1.26049	1.44268
Tgfb1i1	chr7:128246811-128255699	OK	14.2052	16.2577
Eif6	chr2:155819836-155826925	OK	37.8611	43.3299
Ppp2r3d	chr9:124474345-124476862	OK	3.30255	3.77948
Sdad1	chr5:92284009-92310024	OK	6.18687	7.08032
Bcl2l13	chr6:120836229-120892842	OK	15.8111	18.0944
Prickle3	chrX:7657378-7671278	NOTEST	0.542589	0.620931
Rab9b	chrX:136858150-136868540	OK	16.538	18.9256
Ptpn23	chr9:110385088-110408210	OK	14.569	16.6722
Ndufs4	chr13:114287794-114388094	OK	41.2598	47.2137
Srrd	chr5:112326368-112343040	OK	5.00609	5.72823
Gpd2	chr2:57237677-57370719	OK	14.9709	17.1302
Ccndbp1	chr2:121008407-121016912	OK	47.8161	54.709
Psmg1	chr16:95979934-95990903	OK	9.08478	10.3942

Ist1	chr8:109614516-109693294	OK	41.0623	46.9791
3110021N24Rik	chr4:108639258-108781904	NOTEST	0.15594	0.178408
Scaf1	chr7:45002949-45016249	OK	29.9022	34.2058
Aen	chr7:78895926-78908833	OK	10.1154	11.5706
Cyp2c65	chr19:39061005-39093948	NOTEST	0.0419779	0.0480116
Bms1	chr6:118383380-118419417	OK	7.15529	8.18306
Wsb2	chr5:117357304-117378589	OK	64.7668	74.0642
Pank2	chr2:131127411-131604824	OK	9.24552	10.572
Btbd1	chr7:81792073-81829431	OK	15.6141	17.8541
Usp45	chr4:21776269-21837872	OK	16.1569	18.4706
Dab2ip	chr2:35549533-35730994	OK	24.6014	28.123
Suds3	chr5:117091677-117115993	OK	43.1226	49.2952
Rpl7	chr1:16101295-16104433	OK	30.2355	34.5618
Arrb1	chr7:99535485-99606771	OK	66.2211	75.696
Ldoc1l	chr15:84553397-84557823	OK	11.9595	13.6685
9330020H09Rik	chr15:98543210-98570864	NOTEST	0.196669	0.224764
Mepce	chr5:137781905-137786701	OK	11.4439	13.0776
Tuba1a	chr15:98949846-98953501	OK	1159.63	1325.16
Cpe	chr8:64592550-64693040	OK	509.322	582.014
Cby1	chr15:79659226-79667660	OK	24.78	28.3157
Lrg1	chr17:56119677-56121946	OK	1.72171	1.96732
Scn5a	chr9:119483407-119579016	OK	1.646	1.88078
Nfs1	chr2:156123636-156145794	OK	21.3794	24.4281
Ccdc137	chr11:120458128-120467600	OK	10.2525	11.7143
Qsox2	chr2:26209129-26237420	OK	7.99006	9.12816
Tmem203	chr2:25255438-25256352	OK	7.84291	8.95953
Zfp764	chr7:127403667-127406822	OK	2.0615	2.35487
Osbpl7	chr11:97050819-97068904	OK	4.14626	4.73623
Herc4	chr10:63243796-63317881	OK	8.06408	9.21091
Hoxa3	chr6:52169061-52213597	OK	0.902394	1.03071
Ptk2	chr15:73205104-73423191	OK	10.6198	12.1296
Rabac1	chr7:24969749-24972728	OK	312.621	357.042
Pisd-ps1	chr11:3124020-3193463	OK	1.27331	1.45423
Nrxn1	chr17:90033643-91092802	OK	33.6484	38.4268
Rnf32	chr5:29195992-29225524	OK	2.7465	3.13645
Rnf180	chr13:105147493-105293014	OK	2.45578	2.80427
Gm20939	chr17:94864917-94878321	OK	1.15396	1.31751
Serinc3	chr2:163623272-163645800	OK	171.196	195.458
Gppb1	chr13:111425679-111490041	OK	24.3489	27.7979
Erf	chr7:25242559-25250758	OK	9.93301	11.3394
35854	chr17:33685691-33718677	OK	74.5072	85.0567
Sirt1	chr10:63319004-63339035	OK	3.58452	4.09199
Rpusd2	chr2:119034789-119042197	OK	1.7385	1.98448
Preli1	chr13:55322054-55329730	OK	100.286	114.467
Psma4	chr9:54950256-54958030	OK	33.7099	38.476
Eif2a	chr3:58521970-58557501	OK	22.3259	25.4815
Dkc1	chrX:75095853-75130949	OK	8.54499	9.75166
Zfp316	chr5:143249694-143270022	OK	3.57646	4.08126
Rad50	chr11:53649518-53707319	OK	5.60249	6.39313
Zfp445	chr9:122848909-122866006	OK	21.2478	24.246
Nkap	chrX:37126762-37168842	OK	5.05591	5.76933
Dut	chr2:125247247-125259049	OK	8.68314	9.90799
Mynn	chr3:30602086-30619873	OK	3.31255	3.77951

Cops5	chr1:10024599-10038159	OK	88.1684	100.579
E130307A14Rik	chr10:39612933-39732007	OK	3.28413	3.74618
Zc3h10	chr10:128543564-128547744	OK	5.33887	6.08981
Tmem134	chr19:4125959-4132307	OK	13.7096	15.6375
Rad18	chr6:112619850-112696670	OK	2.90374	3.31202
Trak1	chr9:121366957-121474918	OK	40.0964	45.7235
Psmc1	chr12:100112330-100123364	OK	82.9301	94.557
Srsf3	chr17:29032659-29043372	OK	24.3703	27.7867
Stag1	chr9:100643622-100958544	OK	5.0371	5.74312
Plrg1	chr3:83055537-83072291	OK	26.3491	30.0344
Gusb	chr5:129989020-130002828	OK	8.35349	9.52168
Fdx1l	chr9:21067513-21092008	OK	22.2353	25.3439
Ercc4	chr16:13109735-13152009	OK	4.11886	4.69386
Secisbp2	chr13:51651713-51683646	OK	3.06667	3.49466
Lsm14b	chr2:180024986-180035461	OK	31.4106	35.794
Acot9	chrX:155262499-155297507	OK	15.9814	18.2096
Dynlrb2	chr8:116505014-116515915	NOTEST	0.56291	0.641381
Ywhae	chr11:75732886-75765841	OK	447.401	509.764
Esyt2	chr12:116281221-116373098	OK	20.0217	22.8121
D19Bwg1357e	chr19:27388701-27429820	OK	14.0003	15.9514
Camsap3	chr8:3587449-3609075	OK	9.35854	10.6623
Zmat2	chr18:36793922-36799660	OK	53.3643	60.7836
Igtp	chr11:58199555-58207592	OK	10.9418	12.463
Shcbp1l	chr1:153425208-153452574	NOTEST	0.115835	0.131937
Mrpl52	chr14:54426908-54429750	OK	52.677	59.9923
Fam216a	chr5:122364583-122371963	OK	16.14	18.3812
D15Ert621e	chr15:58415467-58457801	OK	29.0526	33.0852
Phf21a	chr2:92184181-92364666	OK	3.63375	4.1374
Atp2c1	chr9:105411361-105521257	OK	47.6263	54.2248
Sfxn1	chr13:54071844-54108345	OK	13.954	15.8861
Nat10	chr2:103721258-103761250	OK	5.96074	6.7859
Arhgap36	chrX:49470449-49500250	OK	11.1877	12.7355
Atp13a1	chr8:69791162-69807748	OK	10.0379	11.4249
Psmg4	chr13:34162963-34178172	OK	10.9132	12.4211
Isoc2b	chr7:4844959-4866179	OK	3.66806	4.17361
Zfr2	chr10:81233162-81252123	OK	9.95643	11.3279
Prpf18	chr2:4622166-4652086	OK	16.046	18.2561
Sharpin	chr15:76347039-76351110	OK	21.6811	24.6672
Zmym2	chr14:56887794-56962579	OK	14.5501	16.5536
Mrpl51	chr6:125192199-125194392	OK	20.4078	23.2164
Cherp	chr8:72443879-72475233	OK	10.4261	11.8602
Dph1	chr11:75175942-75190483	OK	8.10077	9.21397
Kif17	chr4:138262250-138301973	OK	1.03088	1.17247
Zfp677	chr17:21383747-21399265	OK	1.37131	1.55946
Csrp2bp	chr2:144368982-144407675	OK	8.47365	9.63573
Ccdc25	chr14:65837301-65866604	OK	21.891	24.8931
Vars2	chr17:35655634-35667592	OK	5.5147	6.27054
Slc4a1ap	chr5:31526994-31554038	OK	14.1241	16.0597
Pex14	chr4:148960534-149099812	OK	27.7705	31.5706
Acd	chr8:105690905-105701095	OK	10.2115	11.6085
Ly6c1	chr15:75044017-75048837	OK	26.3012	29.8987
Gm19434	chr6:135188479-135194959	NOTEST	0.16655	0.18932
Padi3	chr4:140785368-140810648	NOTEST	0.00600347	0.00682422

Dph2	chr4:117888642-117892003	OK	4.8119	5.46892
Tdp1	chr12:99884514-99955216	OK	4.12211	4.68452
Ddx25	chr9:35541847-35558470	OK	19.8389	22.5439
Ly6a	chr15:74994876-74998031	OK	18.3379	20.8382
Uba52	chr8:70508265-70510367	OK	23.4447	26.6403
Actn4	chr7:28881655-28962280	OK	52.448	59.589
Diexf	chr1:193104402-193130251	OK	2.79369	3.17399
Tmem38a	chr8:72572102-72587284	OK	42.086	47.8114
Dync1li1	chr9:114688830-114723777	OK	104.219	118.396
Med22	chr2:26905266-26910642	OK	16.835	19.1244
Snrpe	chr1:133603870-133610280	OK	16.1595	18.3565
Mboat7	chr7:3677788-3693525	OK	20.6834	23.4952
Foxj2	chr6:122820183-122845366	OK	7.08132	8.04361
Zfp606	chr7:12478304-12496235	OK	1.9669	2.23412
Apopt1	chr12:111713268-111755055	OK	13.8702	15.7499
Zfp280c	chrX:48541625-48594452	OK	3.73353	4.23867
4921507P07Rik	chr6:50566642-50596590	NOTEST	0.19212	0.218099
Kat5	chr19:5603013-5610094	OK	30.621	34.7572
Rpia	chr6:70765719-70792175	OK	5.28581	5.99973
Lsm1	chr8:25785590-25803975	OK	5.53742	6.28504
Zfp689	chr7:127442135-127449158	OK	0.995752	1.13004
Plcd4	chr1:74409383-74588028	OK	21.2393	24.1024
Zfp619	chr7:39517765-39540415	NOTEST	0.631275	0.716322
Ubl7	chr9:57910985-57929968	OK	33.5579	38.0766
Pycl	chr15:75916462-75921560	OK	8.7976	9.98148
Calcoco1	chr15:102706776-102722178	OK	15.1556	17.195
Dlgap3	chr4:127169270-127237022	OK	20.6137	23.3876
Tmem214	chr5:30869646-30877467	OK	13.1272	14.8925
Polr2e	chr10:79697304-80369637	OK	25.5793	29.0189
Zfp105	chr9:122923077-122931028	OK	2.03882	2.31282
Tsc1	chr2:28641232-28691172	OK	8.52663	9.6723
Clip4	chr17:71769690-71864210	OK	29.5971	33.5737
Snap47	chr11:59407149-59449956	OK	97.8968	111.035
Pnpo	chr11:96937815-96944019	OK	15.0343	17.0506
Them4	chr3:94310131-94332532	OK	18.2879	20.7401
Zfp458	chr13:67254917-67269068	OK	1.44926	1.64326
Nars2	chr7:96951526-97064757	OK	4.2683	4.83921
Akirin1	chr4:123735194-123750299	OK	45.3731	51.4392
Trim69	chr2:122120107-122186189	NOTEST	0.0110669	0.0125462
Rbm15	chr3:107326109-107333289	OK	2.53693	2.87551
Ypel5	chr17:72836703-72851195	OK	66.5307	75.4091
Acot8	chr2:164786020-164804881	OK	6.93394	7.85871
Mctp2	chr7:72077829-72306595	OK	7.68094	8.70522
Mlc1	chr15:88955883-88978553	OK	14.7972	16.7704
Clpp	chr17:56990263-56996371	OK	17.4654	19.7933
Stk35	chr2:129798368-129832285	OK	6.02395	6.82569
Tiparp	chr3:65527484-65555518	OK	10.5919	12.0015
Kdm4c	chr4:74242496-74405864	OK	5.61177	6.35729
Eef2k	chr7:120842830-120907219	OK	6.6529	7.53662
Ushbp1	chr8:71384273-71395801	OK	1.69485	1.91993
Ubn1	chr16:5050067-5086285	OK	8.58644	9.72618
Tmem55b	chr14:50924948-50930849	OK	35.64	40.3703
D230025D16Rik	chr8:105225187-105255153	OK	12.3996	14.0437

6330549D23Rik	chr3:96601132-96629819	OK	0.744256	0.84292
Gm715	chrX:60548007-60549216	OK	1.40971	1.59655
Prdx2	chr8:84969647-84974313	OK	215.868	244.442
Zbtb8a	chr4:129353631-129378028	OK	2.29142	2.59388
Ifit3	chr19:34583528-34588982	OK	7.41635	8.39507
L2hgdh	chr12:69690435-69724874	OK	1.71246	1.9382
Pydc4	chr1:173591956-173599274	NOTEST	0.092814	0.105047
37680	chr2:60209935-60248385	OK	13.8936	15.7241
Maf1	chr15:76351293-76354378	OK	23.0909	26.1285
Ddx5	chr11:106780355-106788494	OK	137.68	155.788
Pdf	chr8:107046289-107048614	OK	15.4495	17.4806
Kat8	chr7:127912516-127930113	OK	9.73522	11.0135
Naa35	chr13:59585332-59634781	OK	18.7289	21.1878
Aff4	chr11:53350766-53421830	OK	27.3332	30.9128
Smg1	chr7:118131311-118243637	OK	7.6077	8.60392
Gpr85	chr6:13835073-13839848	OK	4.73239	5.35181
Gm5126	chrX:102932046-102934223	NOTEST	0.668699	0.756219
Nsfl1c	chr2:151494181-151511310	OK	31.5317	35.6557
Ilf3	chr9:21367870-21411720	OK	17.0813	19.3148
Ppp1r12a	chr10:108162399-108277575	OK	14.3495	16.2252
Gm9199	chr14:73025602-73026890	NOTEST	0.0148544	0.0167952
Add1	chr5:34573713-34632305	OK	107.088	121.065
Tulp3	chr6:128321160-128355851	OK	8.71288	9.85006
Skap1	chr11:96464590-96759622	NOTEST	0.129373	0.146252
Mettl2	chr11:105126424-105141146	OK	5.01204	5.66579
Srd5a3	chr5:76140272-76155503	OK	19.672	22.237
Nup155	chr15:8109312-8159859	OK	6.37076	7.20142
Rai14	chr15:10568977-10714631	OK	3.72772	4.21342
Prr33	chr7:142460811-142516009	NOTEST	0.0188619	0.0213181
Thoc2	chrX:41794993-41911901	OK	5.87845	6.64313
Hnrnpl	chr7:28810889-28822266	OK	56.96	64.369
Ric8b	chr10:84917612-85018337	OK	12.8448	14.5139
Mettl16	chr11:74770862-74818692	OK	9.94993	11.2426
Cebpb	chr2:167688914-167690432	OK	4.69946	5.30988
Ola1	chr2:73092800-73214447	OK	52.7145	59.5606
3010026O09Rik	chr11:50174850-50200115	OK	8.91718	10.0752
Immnp2l	chr12:41024089-41955588	OK	3.4656	3.91549
Ybx3	chr6:131364857-131388450	OK	16.313	18.4281
Rbm8a	chr3:96629927-96633791	OK	14.331	16.1885
Bcam	chr7:19756137-19770532	OK	282.193	318.736
Lim2	chr7:43430100-43435991	NOTEST	0.0517776	0.0584813
Rrm2b	chr15:37923952-37961055	OK	15.3991	17.3924
Zmat1	chrX:134971372-135009209	OK	2.96746	3.35149
Dnajc8	chr4:132535558-132553742	OK	37.4941	42.3453
Cyth1	chr11:118164165-118248592	OK	19.8102	22.3717
Stat5a	chr11:100859350-100885169	OK	2.15841	2.43749
Dll4	chr2:119321198-119335666	OK	1.21945	1.37701
Wipi2	chr5:142629583-142669370	OK	40.2021	45.3924
Adam25	chr8:40752207-40756176	NOTEST	0.0066561	0.00751516
Diap3	chr14:86656322-87141114	OK	2.9472	3.32749
Tbc1d32	chr10:56014293-56228689	OK	4.18413	4.72401
Pdia3	chr2:121413901-121438686	OK	156.427	176.608
Sp100	chr1:85650049-85709448	OK	1.91953	2.16701

Psma7	chr2:180036366-180042464	OK	138.787	156.677
Rfesd	chr13:76001534-76018712	OK	7.25147	8.1851
Pik3c3	chr18:30272895-30348120	OK	29.5476	33.3518
Chd9	chr8:90828834-91054508	OK	6.31622	7.12936
Gira1	chr11:55514238-55608198	NOTEST	0.0161734	0.0182554
Tmem160	chr7:16452778-16455490	OK	41.8444	47.2307
Gucy2d	chr7:98440415-98477478	NOTEST	0.00469068	0.00529429
Cep89	chr7:35397092-35438684	OK	2.77624	3.1334
Chchd6	chr6:89383145-89595652	OK	27.6751	31.2349
Lrit1	chr14:37054829-37064938	NOTEST	0.00391028	0.00441287
Zswim7	chr11:62267223-62281395	OK	10.5258	11.8782
Matr3	chr18:35562157-35592045	OK	65.4669	73.8764
Tmem180	chr19:46356879-46375254	OK	10.1861	11.4944
Eef2	chr10:81176630-81182509	OK	370.339	417.887
Zbtb4	chr11:69765911-69784026	OK	31.8915	35.9853
A630072M18Rik	chr5:20893023-20956398	OK	1.38489	1.5626
Zfp639	chr3:32510549-32520833	OK	10.6749	12.0443
Hipk3	chr2:104426481-104494489	OK	22.0866	24.9188
Msmo1	chr8:64718144-64733578	OK	122.832	138.569
Cox11	chr11:90638183-90687601	OK	7.08133	7.98838
Gm4827	chr16:50019657-50072852	NOTEST	0.113689	0.12825
Lrrtm3	chr10:63430097-65003667	OK	3.3068	3.73012
Irf2bpl	chr12:86880702-86884814	OK	23.3236	26.3093
Ggn	chr7:29170209-29173933	NOTEST	0.40091	0.452227
Keap1	chr9:21229729-21239332	OK	22.2201	25.0637
Jmjd1c	chr10:67127257-67256326	OK	5.96568	6.7284
Taf8	chr17:47488049-47502287	OK	4.91453	5.54269
Fam149a	chr8:45336714-45382291	OK	7.35785	8.29771
Trim26	chr17:36837145-36859398	OK	12.3814	13.9622
Chchd1	chr14:20702011-20704425	OK	32.5118	36.6603
Slc17a5	chr9:78536486-78588045	OK	12.8474	14.4857
D10Wsu102e	chr10:83360220-83368835	OK	11.4931	12.9571
Sarnp	chr10:128821770-128877638	OK	2.82327	3.18288
Syn1	chrX:20848542-20920918	OK	173.587	195.695
H3f3a	chr1:180802567-180813603	OK	17.5045	19.7338
Apaf1	chr10:90989310-91082743	OK	2.15558	2.42984
Ipp	chr4:116507548-116538235	OK	4.71629	5.31575
Katnb1	chr8:95081200-95142540	OK	11.9457	13.4637
Sdf2l1	chr16:17130137-17132383	OK	9.64682	10.8725
Amacr	chr15:10981755-10996624	OK	6.02753	6.79178
Phlda2	chr7:143501547-143502524	OK	0.975448	1.09912
Tmem192	chr8:64947184-64969037	OK	17.3915	19.5965
Mecr	chr4:131843470-131867787	OK	17.9416	20.2145
Pink1	chr4:138313409-138326296	OK	141.257	159.145
Anapc16	chr10:59987908-60099990	OK	35.9023	40.4482
Nup88	chr11:70844760-70969973	OK	25.5769	28.8146
Slc35a5	chr16:45139572-45158673	OK	28.0182	31.5643
Sec22c	chr9:121680044-121705029	OK	9.68632	10.9118
Ldlr	chr9:21723575-21749918	OK	63.3295	71.335
D16Ert472e	chr16:78540335-78576688	NOTEST	0.403096	0.454038
Clnk	chr5:38706456-38876693	NOTEST	0.0139522	0.0157113
Triqk	chr4:12906836-12981485	OK	20.0727	22.6032
Bpnt1	chr1:185332158-185357769	OK	36.4623	41.0529

Vwce	chr19:10634232-10665210	NOTEST	0.0109156	0.0122892
Sqle	chr15:59315091-59331193	OK	111.848	125.914
Tada3	chr6:113366656-113377520	OK	15.8106	17.7978
Tcerg1	chr18:42511486-42575785	OK	17.0339	19.174
Npr2	chr4:43631934-43651240	OK	40.7137	45.8261
Ttc7	chr17:87282885-87381770	OK	1.55357	1.74863
Vps33b	chr7:80269654-80291579	OK	9.37333	10.5498
Prune	chr3:95253673-95282076	OK	21.3247	24.0004
Hhex	chr19:37434840-37440731	NOTEST	0.698535	0.786168
Gopc	chr10:52337023-52382124	OK	20.3589	22.9129
Ppp1r3b	chr8:35375740-35388137	OK	1.37453	1.54679
Bcl2l1	chr2:152754172-152831728	OK	26.9076	30.2785
Necab2	chr8:119446718-119472635	OK	7.69089	8.65434
Cep192	chr18:67800106-67885170	OK	0.81205	0.913559
1810013L24Rik	chr16:8830099-8858924	OK	28.4315	31.9846
Atg101	chr15:101284300-101290934	OK	25.3687	28.5383
Blm	chr7:80454992-80535119	OK	1.86708	2.10021
Zfp655	chr5:145231714-145247306	OK	11.2265	12.6273
Rnaseh2b	chr14:62332104-62372992	OK	6.14263	6.90891
Ccser2	chr14:36874935-36968764	OK	98.1992	110.444
Col4a3bp	chr13:96542734-96640167	OK	41.7067	46.9056
Rragc	chr4:123917432-123936997	OK	54.8212	61.6535
Ncf4	chr15:78244810-78262580	NOTEST	0.237661	0.267269
Nudt18	chr14:70577846-70582571	OK	8.44751	9.49959
Tmem50b	chr16:91574507-91597680	OK	91.2629	102.628
Topors	chr4:40259605-40270221	OK	5.58406	6.27863
2610307P16Rik	chr13:28460033-28885422	OK	1.6876	1.8975
Zfp933	chr4:147822985-147848375	OK	2.9234	3.28685
Cd72	chr4:43442276-43454626	NOTEST	0.576107	0.647695
Gprasp1	chrX:135742691-135803468	OK	70.6598	79.4319
Tep1	chr14:50824060-50870554	OK	6.47858	7.28125
Baiap2	chr11:119943091-120006782	OK	6.61844	7.43827
Mfsd9	chr1:40772039-40790657	OK	5.65634	6.35689
Zeb1	chr18:5491500-5775468	OK	14.516	16.3135
Map3k5	chr10:19934525-20142750	OK	9.58847	10.7751
3110021A11Rik	chr6:119848192-119849016	NOTEST	0.0555202	0.0623903
Zfp781	chr10:81901910-81930480	NOTEST	0.471091	0.52937
Ippk	chr13:49421222-49463060	OK	5.43914	6.1118
Stap2	chr17:55997075-56005606	NOTEST	0.606414	0.681404
Xrn1	chr9:95954759-96053029	OK	2.8756	3.23084
Tax1bp1	chr6:52713728-52766779	OK	83.9055	94.2698
Tmem14c	chr13:41016249-41022582	OK	59.7269	67.1034
Adprh	chr16:38445398-38452689	OK	82.4026	92.5684
Tbc1d25	chrX:8154471-8176181	OK	8.55344	9.60828
Clip3	chr7:30291752-30308367	OK	168.289	189.036
5430427O19Rik	chrX:85870272-85891499	NOTEST	0.0627896	0.0705247
2510039O18Rik	chr4:147940894-147947314	OK	15.5799	17.4975
Smchd1	chr17:71344492-71475343	OK	6.00398	6.74273
Tnip1	chr11:54910786-54962940	OK	17.7098	19.8879
Csnk1g1	chr9:65909009-66045014	OK	6.96077	7.8164
Tra2b	chr16:22245740-22265929	OK	15.6631	17.5876
Ascc1	chr10:59987908-60099990	OK	15.2974	17.1758
Zcchc14	chr8:121598702-121651933	OK	4.6348	5.20386

Psmf1	chr2:151716061-151741293	OK	19.2122	21.5708
Bin3	chr14:70100144-70153791	OK	11.2934	12.6782
AU023762	chr9:113496745-113587152	NOTEST	0.0797027	0.0894678
Ubr1	chr2:120850655-120970715	OK	14.1898	15.9278
Gm21284	chr6:83543205-83588126	NOTEST	0.197351	0.221508
Rc3h1	chr1:160906410-160974976	OK	16.196	18.1774
D030047H15Rik	chr7:4074124-4136926	NOTEST	0.0718367	0.0806248
Il7	chr3:7572076-7613427	OK	1.96826	2.209
Serpina3n	chr12:104406707-104414329	OK	85.2516	95.6651
Hsf2	chr10:57486384-57513143	OK	13.8681	15.5611
B230217C12Rik	chr11:97840779-97843043	OK	10.6263	11.9233
Lypd1	chr1:125676995-125912214	OK	7.31812	8.21079
Taf11	chr17:27901127-27907724	OK	20.7953	23.3312
Brms1l	chr12:55836365-55869735	OK	32.3412	36.2849
Mmaa	chr8:79266423-79294956	OK	3.9292	4.40731
Wtap	chr17:12966798-12992539	OK	17.4457	19.5684
Zbtb7c	chr18:75820177-76148564	OK	1.11598	1.25168
Kidins220	chr12:24974931-25059697	OK	63.9516	71.7148
Suz12	chr11:79993105-80034123	OK	16.9077	18.9588
Fpgt	chr3:155084918-155093378	OK	8.23916	9.23857
Ppp2r5d	chr17:46674550-46705002	OK	23.2257	26.0396
Pcgf3	chr5:108461331-108503099	OK	14.645	16.4185
Zfp335	chr2:164891891-164911750	OK	4.03153	4.5188
Rictor	chr15:6708380-6800400	OK	7.38079	8.27241
Rsl1d1	chr16:11193036-11203292	OK	21.0744	23.6198
Exosc5	chr7:25659152-25668032	OK	12.7766	14.3193
N6amt2	chr14:57549597-57571569	OK	19.8266	22.2198
37864	chr9:25252438-25308571	OK	118.975	133.334
Brd3	chr2:27445580-27475673	OK	7.11815	7.97507
Gnai3	chr3:108107274-108146152	OK	30.6773	34.3675
Cdk5	chr5:24418241-24423530	OK	50.3012	56.3496
BC051142	chr17:34398819-34460734	NOTEST	0.392387	0.439489
Cnpy4	chr5:138187534-138193894	OK	8.14638	9.12367
Cdk9	chr2:32705781-32712784	OK	11.4524	12.826
Paxip1	chr5:27740080-27791550	OK	4.63438	5.18986
Brd4	chr17:32196271-32284133	OK	19.1297	21.4226
Tmod2	chr9:75565621-75611325	OK	65.4681	73.3118
Slc18b1	chr10:23796985-23827968	OK	5.3351	5.97363
Ubl5	chr9:20637748-20646789	OK	34.4278	38.5437
Thap1	chr8:26158168-26164151	OK	4.1987	4.70045
Zfx	chrX:94074630-94123407	OK	3.48981	3.90682
Nucb1	chr7:45473562-45522603	OK	64.0746	71.7252
Ptp4a3	chr15:73723144-73758766	OK	8.60902	9.63668
Csnk2a2	chr8:95446095-95488820	OK	8.06183	9.02342
Stx7	chr10:24149316-24188959	OK	80.1927	89.7497
Snx32	chr19:5495277-5510489	OK	36.5729	40.9299
Cd2bp2	chr7:127191659-127196077	OK	22.1973	24.8406
Morn1	chr4:155086576-155145507	OK	1.18132	1.32193
Farsa	chr8:84856985-84869257	OK	16.2082	18.1369
Fam92a	chr4:12153721-12172015	OK	15.8133	17.6942
Thsd7a	chr6:12311607-12749253	OK	13.0239	14.5715
A930011G23Rik	chr5:99297243-99729060	NOTEST	0.184735	0.206676
Dis3l2	chr1:86703803-87050097	OK	8.53401	9.54741

Tctn3	chr19:40596445-40612215	OK	3.23976	3.62397
Dpp7	chr2:25352289-25356332	OK	20.1563	22.5448
Papd5	chr8:88199212-88259722	OK	7.2419	8.09972
Mat2b	chr11:40679313-40695203	OK	54.7416	61.2256
Thumpd3	chr6:113046326-113077244	OK	16.9824	18.9937
Dr1	chr5:108268896-108280521	OK	15.9702	17.8614
Kmt2a	chr9:44803354-44881274	OK	7.15575	8.00309
Rnf41	chr10:128411615-128441441	OK	35.9172	40.1656
Tceal1	chrX:136708064-136709866	OK	23.3861	26.1509
Skp2	chr15:9111981-9197450	NOTEST	0.583822	0.652802
Cox6b2	chr7:4751791-4753094	OK	1.92834	2.15599
Jakmip2	chr18:43531407-43687773	OK	18.8406	21.0641
Maats1	chr16:38297753-38341860	NOTEST	0.241022	0.26946
Brd7	chr8:88332310-88362191	OK	11.2726	12.6023
Zfp324	chr7:12965863-12973822	OK	2.80472	3.1355
Zswim4	chr8:84210941-84237042	OK	7.1589	8.00185
Utp23	chr15:51877440-51884622	OK	1.96687	2.19825
Depdc7	chr2:104721786-104742801	OK	3.84039	4.29215
Slc35d1	chr4:103171717-103214884	OK	3.01711	3.37186
Brix1	chr15:10474778-10485937	OK	5.92955	6.62598
Josd2	chr7:44467979-44471658	OK	22.2125	24.8171
Arfip1	chr3:84496063-84582625	OK	19.4098	21.6851
Psm10	chrX:140948424-140956711	OK	13.8599	15.4843
Cep164	chr9:45766945-45828638	OK	4.13711	4.62115
Sod1	chr16:90220741-90226324	OK	114.357	127.724
Foxq1	chr13:31558169-31560974	NOTEST	0.381041	0.425562
BC053749	chr7:30539133-30552272	NOTEST	0.720835	0.804992
Ergic2	chr6:148047415-148444352	OK	15.1236	16.8892
Rnf8	chr17:29614830-29641659	OK	13.0628	14.5868
Dnajc13	chr9:104151596-104262930	OK	25.4705	28.4399
BC002163	chr4:123712709-123718186	OK	90.2689	100.783
Gmfb	chr14:46808148-46822242	OK	131.676	147.009
Pds5b	chr5:150673826-150810669	OK	11.2686	12.5797
Map3k1	chr13:111746434-111808983	OK	5.36892	5.99352
Gle1	chr2:29935408-29959432	OK	15.6832	17.5069
Slc13a1	chr6:24088282-24168092	NOTEST	0.118667	0.132434
Rtn2	chr7:19282623-19296164	OK	58.8271	65.6479
Cox17	chr16:38346998-38352763	OK	116.871	130.42
Ercc5	chr1:44147743-44181260	OK	6.06323	6.76527
Adipor1	chr1:134415466-134432341	OK	110.2	122.951
Cct6a	chr5:129787355-129846443	OK	109.943	122.656
Xrcc6	chr15:82016368-82040084	OK	6.0985	6.80265
Hoxc4	chr15:103034394-103036852	OK	1.61793	1.80469
Shmt2	chr10:127514938-127522444	OK	9.76235	10.8892
Smad2	chr18:76241700-76311747	OK	10.6988	11.9337
Map3k2	chr18:32163088-32236751	OK	4.25069	4.74086
Slc7a8	chr14:54722214-54781886	OK	9.39304	10.4759
Nudcd2	chr11:40733660-40740046	OK	7.20579	8.03648
Pclo	chr5:14514917-14863459	OK	12.1029	13.4973
Cep120	chr18:53648150-53744547	OK	36.4058	40.5985
Dusp3	chr11:101971143-101984791	OK	55.888	62.3179
Inip	chr4:59769646-59783855	OK	4.75145	5.29786
Cxcl12	chr6:117168534-117181368	OK	14.9249	16.6387

Serbp1	chr6:67266978-67289302	OK	22.7583	25.3708
Hist1h2bj	chr13:22043229-22043658	OK	2.01066	2.24146
Cyp4x1	chr4:115108681-115133977	OK	10.2577	11.4345
Gpr173	chrX:152344645-152368111	OK	5.81871	6.48563
Rbm11	chr16:75592890-75602825	OK	19.0725	21.258
1810032O08Rik	chr11:116671659-116675798	OK	2.23117	2.48672
Gtf2h5	chr17:6079827-6085485	OK	52.0021	57.9465
Sp4	chr12:118231685-118301440	OK	2.84192	3.16641
Tbc1d22b	chr17:29549801-29606808	OK	8.70874	9.70297
Cdk5rap2	chr4:70223023-70410367	OK	5.33208	5.94065
Cul2	chr18:3383224-3436700	OK	28.1539	31.3666
Necab1	chr4:14930640-15149131	OK	32.5568	36.2693
Mrps15	chr4:126046927-126055536	OK	28.7143	31.9853
Vopp1	chr6:57752263-57825125	OK	31.2166	34.772
Rnf20	chr4:49632059-49656886	OK	19.3499	21.5512
Rap2a	chr14:120478460-120507192	OK	27.9039	31.0782
Cpt1c	chr7:44959371-44974851	OK	23.262	25.9079
Cr1l	chr1:195103787-195131570	OK	11.8484	13.1951
Prmt3	chr7:49778357-49858265	OK	19.6696	21.9043
Peg3	chr7:6705959-6730419	OK	39.2361	43.6832
Noc3l	chr19:38788127-38819237	OK	7.44544	8.28918
Jak1	chr4:101069037-101265282	OK	110.31	122.805
Zfp275	chrX:73342619-73359080	OK	7.41436	8.25376
Tnk2	chr16:32644642-32683493	OK	38.1241	42.4398
Tex261	chr6:83770413-83775812	OK	35.6233	39.6533
Cnot7	chr8:40492537-40634792	OK	31.3561	34.8992
Sorbs2	chr8:45507787-45827906	OK	6.6583	7.41055
Mlycd	chr8:119394891-119411088	OK	9.86813	10.9829
Heatr6	chr11:83753636-83783754	OK	7.67926	8.54639
Mrps36	chr13:100735939-100744659	OK	3.39959	3.78334
Pmf1	chr3:88394142-88410316	OK	3.60275	4.00941
Fam120c	chrX:151344222-151474134	OK	7.43058	8.26907
Tpr	chr1:150361310-150466165	OK	20.4117	22.7146
Khdrbs3	chr15:68928419-69093518	OK	25.1625	28.0006
Rnf6	chr5:146209193-146221457	OK	24.5132	27.2772
Ttyh3	chr5:140620577-140649031	OK	18.012	20.0422
Mrpl50	chr4:49512596-49521083	OK	18.8807	21.0082
Jak2	chr19:29251802-29313080	OK	6.34091	7.05538
Nat9	chr11:115182831-115187316	OK	12.068	13.427
Ctage5	chr12:59129745-59190220	OK	26.9155	29.9461
Ddx39b	chr17:35241745-35253707	OK	66.149	73.5773
Zfp120	chr2:150114406-150136678	OK	3.17106	3.5271
Fam185a	chr5:21424902-21482124	OK	5.98308	6.65451
Flcn	chr11:59791407-59810039	OK	7.51551	8.35892
Tk2	chr8:104226690-104248558	OK	14.4075	16.022
Rab1b	chr19:5099206-5106996	OK	97.8157	108.759
2010315B03Rik	chr9:124291803-124312694	OK	5.02941	5.59194
Bcas2	chr3:103171710-103179154	OK	33.4169	37.1543
Tagap1	chr17:6954964-6961156	OK	11.814	13.134
Vcp	chr4:42979963-43000507	OK	84.9336	94.4232
Rpn1	chr6:88084472-88105304	OK	33.0982	36.796
Bag4	chr8:25764538-25785209	OK	9.05976	10.0719
Il11	chr7:4772377-4782857	NOTEST	0.0769965	0.0855981

Atp6v1e1	chr6:120795243-120822685	OK	261.413	290.613
Nrp1	chr8:128359072-128505475	OK	30.1511	33.5178
Mov10	chr3:104794833-104818563	OK	1.47704	1.64188
Brip1	chr11:86058135-86201193	NOTEST	0.084548	0.0939825
Tcp11l2	chr10:84576946-84614355	OK	14.7021	16.3426
Rrp7a	chr15:83100204-83122801	OK	32.7906	36.4491
Cenpt	chr8:105844677-105852008	OK	3.44965	3.83445
Zfyve1	chr12:83546940-83597147	OK	16.9713	18.8637
Zfp523	chr17:28177417-28205886	OK	8.98483	9.98637
Afg3l1	chr8:123477861-123503916	OK	7.59632	8.44301
Rnf122	chr8:31111845-31131473	OK	2.76781	3.07618
Hcfc2	chr10:82699006-82741392	OK	5.96174	6.6254
Sgsm3	chr15:80977764-81190757	OK	12.9495	14.3908
Ppapdc1a	chr7:129257093-129391307	OK	4.43072	4.92368
Ripk2	chr4:16123374-16163498	OK	3.63597	4.04049
Klhdc8a	chr1:132298625-132307357	OK	10.1919	11.3254
Psmc4	chr3:95032690-95042614	OK	88.8769	98.7563
Lins	chr7:66689888-66717256	OK	3.72574	4.13983
Rere	chr4:150281915-150621966	OK	15.2187	16.9101
Wdr77	chr3:105942862-105969760	OK	21.9097	24.3424
Cars	chr7:143557229-143600090	OK	8.43464	9.37089
Mrpl40	chr16:18872017-18876637	OK	20.222	22.4665
Phax	chr18:56525735-56587712	OK	15.3512	17.055
Fmn2	chr1:174501824-174822729	OK	7.73296	8.59119
Nupr1	chr7:126623245-126625470	OK	6.33489	7.03783
Chmp1b	chr18:67088297-67245830	OK	17.563	19.5073
1110034G24Rik	chr2:132690282-132751055	OK	5.67354	6.30154
Mcm8	chr2:132816140-132844188	OK	1.80034	1.99955
Klhdc1	chr12:69241831-69283961	OK	3.95705	4.39447
Rab28	chr5:41624975-41708155	OK	23.911	26.5533
Rsbm1	chr3:103914119-104007491	OK	4.80766	5.33871
Fbxo6	chr4:148145715-148152135	OK	8.54358	9.48703
Ptdss2	chr7:141131285-141156154	OK	19.9884	22.1949
Pdik1l	chr4:134275004-134287846	OK	2.46579	2.7378
Vps37a	chr8:40492537-40634792	OK	7.78525	8.64319
Ascl4	chr10:85928490-85929647	NOTEST	0.493135	0.547449
Crk	chr11:75679258-75708428	OK	37.8047	41.9666
Rif1	chr2:52072836-52122381	OK	2.30965	2.56384
Polr1d	chr5:147077345-147111361	OK	39.608	43.9631
Lhfp15	chr17:28575718-28583593	OK	11.1883	12.4176
2900011O08Rik	chr16:13981701-14101494	OK	59.7748	66.3395
Nhp2	chr11:51619772-51635896	OK	22.1678	24.6017
Mis12	chr11:71007439-71027134	OK	11.232	12.4651
Eif3m	chr2:104886323-105017027	OK	10.4362	11.5818
1110038F14Rik	chr15:76948543-76950731	OK	11.7792	13.0718
Fnip2	chr3:79345375-79567679	OK	2.09393	2.32365
Ctla2a	chr13:60934154-60936625	OK	4.21152	4.67347
Smg5	chr3:88336259-88362337	OK	22.8179	25.3192
Pnma2	chr14:66911207-66920061	OK	25.3012	28.0745
N4bp2l2	chr5:150635972-150665612	OK	3.78493	4.19936
Dlg5	chr14:24133952-24245920	OK	6.27108	6.95694
Gm3258	chr10:31332379-31445921	OK	29.4555	32.6758
Phlpp2	chr8:109868602-109944671	OK	7.29127	8.08837

Gss	chr2:155563180-155592810	OK	12.6381	14.0182
Rpl26	chr11:68901565-68904534	NOTEST	0.000547143	0.00060686
Synrg	chr11:83964430-84044576	OK	21.9558	24.3505
Mospd3	chr5:137596646-137601059	OK	11.27	12.4973
Top3b	chr16:16870890-16892986	OK	7.76627	8.61148
Cnot6	chr11:49671496-49712722	OK	9.7618	10.8237
Cct2	chr10:117050997-117063814	OK	112.863	125.123
Rrn3	chr16:13780698-13814841	OK	37.7459	41.8424
Thnsl1	chr2:21205723-21215009	OK	6.53054	7.23918
Tars	chr15:11383662-11399658	OK	14.6785	16.2701
Pfdn5	chr15:102326115-102331489	OK	49.3233	54.6703
Homer3	chr8:70282998-70302452	OK	3.83403	4.24962
C030037D09Rik	chr11:88718642-88728572	OK	1.0416	1.15444
Capza1	chr3:104822784-104864505	OK	16.6334	18.4351
Slc7a6	chr8:106168874-106198704	OK	11.0039	12.1957
9030624J02Rik	chr7:118740270-118841491	OK	26.9768	29.8971
Ampd2	chr3:108074061-108086666	OK	20.6889	22.9278
Lin9	chr1:180641333-180690687	OK	0.824333	0.913463
Tspyl2	chrX:152336851-152342484	OK	21.038	23.3127
Zbtb25	chr12:76348899-76369560	OK	5.38488	5.96707
Acbd7	chr2:3336167-3340997	NOTEST	0.99625	1.1039
Decr2	chr17:26081210-26090164	OK	15.3284	16.9838
Cd151	chr7:141467361-141471481	OK	182.224	201.9
Zswim5	chr4:116877401-116989105	OK	7.18226	7.95757
Eif3b	chr5:140419304-140443358	OK	52.4558	58.1158
Ddx21	chr10:62580246-62602298	OK	7.65705	8.48296
Aes	chr10:81559443-81566371	OK	267.559	296.418
Adam33	chr2:131050816-131063814	NOTEST	0.209552	0.23214
Osgep	chr14:50915373-50924893	OK	5.67048	6.28151
Casp9	chr4:141793611-141826003	OK	14.1062	15.625
Hinfp	chr9:44295672-44305671	OK	3.55822	3.94129
Pcdha7	chr18:36930284-37841872	OK	2.85777	3.16537
Arhgef25	chr10:127182520-127190054	OK	42.4526	47.0211
Zfp598	chr17:24669751-24682016	OK	7.69188	8.51948
Apc2	chr10:79697304-80369637	OK	27.473	30.4268
Srebf2	chr15:82147268-82204960	OK	65.1832	72.188
Ocll	chrX:47912455-47965866	OK	20.3043	22.4859
Mrps17	chr5:129715527-129718691	OK	18.1219	20.0665
Sf3b1	chr1:54985169-55027478	OK	35.8882	39.722
2310011J03Rik	chr10:79697304-80369637	OK	20.5027	22.6878
0610037L13Rik	chr4:107889898-107897802	OK	15.3947	17.0346
Slc38a3	chr9:107651154-107668968	NOTEST	0.35213	0.389591
Abtb1	chr6:88835913-88841935	OK	25.0862	27.754
Cnm3	chr1:36511875-36528237	OK	5.66238	6.26445
1110059G10Rik	chr9:122945088-122951000	OK	3.80221	4.20578
Nelfb	chr2:25199711-25211489	OK	30.9996	34.2899
4632434I11Rik	chr7:92857526-92874232	NOTEST	0.725075	0.801993
Grn	chr11:102430321-102436809	OK	36.8356	40.7416
Hsbp1	chr8:119344537-119348929	OK	94.2704	104.261
Actr6	chr10:89711972-89732295	OK	8.58956	9.49885
Zbed3	chr13:95325236-95337841	OK	2.66117	2.94285
Tle6	chr10:81590904-81600900	OK	1.02294	1.13111
Numa1	chr7:101969842-102014959	OK	17.8658	19.7546

Zc3h14	chr12:98746967-98901484	OK	24.6358	27.2358
Oacyl	chr18:64887755-65751537	NOTEST	0.227092	0.251045
Ip6k1	chr9:108002647-108048782	OK	66.3167	73.3026
Tmem161a	chr8:70172410-70183663	OK	9.212	10.1819
Wdr73	chr7:80890722-80901269	OK	6.79301	7.50823
Uty	chrY:1097143-1245738	OK	5.07675	5.61041
Swi5	chr2:32278804-32288069	OK	136.55	150.886
Ttl17	chr3:146852366-146982750	OK	217.267	240.072
Spata5	chr3:37420279-37579095	OK	4.693	5.18532
Rars2	chr4:34614957-34660167	OK	9.32005	10.2973
Trmt2b	chrX:134222954-134276984	OK	11.1601	12.3303
AA474331	chr10:39892759-39899238	OK	2.26641	2.50402
Nop16	chr13:54584190-54590074	OK	10.6328	11.747
Cxcl5	chr5:90759297-90761625	NOTEST	0.0340149	0.0375759
Pgrmc1	chrX:36598224-36606079	OK	103.684	114.536
Itpk1	chr12:102568582-102704869	OK	20.9463	23.1377
Slc38a10	chr11:120103950-120151351	OK	30.7341	33.9481
Cep97	chr16:55899887-55934848	OK	4.24664	4.69012
Gorasp1	chr9:119894894-119937558	OK	9.48383	10.4737
Ankrd13a	chr5:114775139-114805820	OK	14.1903	15.6704
D430019H16Rik	chr12:105453855-105493095	OK	10.1216	11.1772
Pomgnt2	chr9:121981605-121996026	OK	23.4621	25.9061
Irgm2	chr11:58214976-58222783	OK	4.79715	5.29657
Gga3	chr11:115584254-115603916	OK	23.7249	26.1942
Atp6v0e	chr17:26676395-26699646	OK	34.2377	37.7975
Armcx3	chrX:134756567-134761456	OK	21.5793	23.8221
BC037034	chr5:138259657-138272754	OK	33.3621	36.8282
Prom1	chr5:43993621-44101736	OK	7.60556	8.3956
Zfp277	chr12:40315045-40445790	OK	6.34422	7.00305
Cdkn2aip	chr8:47709343-47713931	OK	3.65543	4.03465
Supt5	chr7:28314895-28338719	OK	50.1766	55.3818
Stim1	chr7:102267823-102436855	OK	23.6965	26.1526
Krcc1	chr6:71272018-71285319	OK	9.07488	10.0137
Zfp433	chr10:81863933-81881086	OK	0.754114	0.832114
Prmt8	chr6:127689008-127769159	OK	21.2294	23.424
Nap1l4	chr7:143513578-143549120	OK	77.5724	85.5905
Tssc1	chr12:28751827-28867491	OK	18.0261	19.8881
Zdhhc21	chr4:82798737-82859661	OK	20.9775	23.1429
Gm20759	chr11:86002657-86024350	NOTEST	0.0795083	0.0877109
Tmem87b	chr2:128818302-128854261	OK	19.0905	21.0568
Gm12070	chr11:26785107-26787859	OK	9.3645	10.3278
Utp3	chr5:88554482-88556083	OK	27.0562	29.8358
Fam192a	chr8:94574940-94601726	OK	19.7515	21.7805
Zfp317	chr9:19622090-19649731	OK	6.78332	7.47951
Cd3eap	chr7:19345070-19359483	OK	4.46919	4.92786
Cdadcl1	chr14:59559387-59597959	OK	26.7054	29.4455
Rprm	chr2:54084092-54085552	OK	46.2485	50.9916
Hs2st1	chr3:144431106-144570216	OK	17.1351	18.8902
Mau2	chr8:70016122-70042734	OK	15.369	16.9428
Vamp7	chrX_GL456233_random:10737	OK	26.8283	29.5743
Dnaja2	chr8:85537639-85555271	OK	73.0804	80.5589
Vps18	chr2:119288741-119298453	OK	21.1455	23.3079
Ubr5	chr15:37967327-38078854	OK	27.5163	30.329

Cdc42	chr4:137319695-137357759	OK	246.116	271.274
Hnrnp2	chrX:134601285-134607054	OK	46.4189	51.1621
Tmx3	chr18:90510153-90543267	OK	43.8873	48.3713
Cyb5r1	chr1:134405989-134411738	OK	76.6561	84.4814
Tuba1c	chr15:99029890-99038105	OK	128.763	141.905
Colec11	chr12:28594172-28623290	NOTEST	0.18009	0.198452
Zfp53	chr17:21488987-21510477	OK	1.80778	1.99207
Casc3	chr11:98795768-98833807	OK	19.7867	21.8024
Cyb5d1	chr11:69393611-69395346	OK	14.2281	15.6763
Ccnt1	chr15:98543210-98570864	OK	6.29451	6.93504
Ifitm7	chr16:13981701-14101494	NOTEST	0.186995	0.206022
Ate1	chr7:130391493-130520369	OK	19.2893	21.2519
Slc19a3	chr1:83012522-83038448	NOTEST	0.692879	0.763353
Arsb	chr13:93771678-93943016	OK	18.4165	20.2895
Fktn	chr4:53714181-53763271	OK	10.7878	11.8843
Slc25a14	chrX:48623577-48662298	OK	22.4451	24.7254
Zkscan8	chr13:21513220-21531114	OK	4.99856	5.50636
Eps15l1	chr8:72340995-72421474	OK	21.4252	23.6012
Asnsd1	chr1:53344616-53352752	OK	24.787	27.3042
Hist1h2bf	chr13:23573759-23574190	NOTEST	0.546806	0.602327
Rfc3	chr5:151642823-151651208	OK	3.74136	4.12053
Cep112	chr11:108425265-108860615	OK	1.56887	1.72759
Fam160a2	chr7:105371210-105400054	OK	5.6231	6.192
Hmga1	chr17:27556573-27563672	OK	13.1318	14.4601
Khk	chr5:30921894-30931246	OK	15.9024	17.5102
Slc17a6	chr7:51621829-51671126	OK	78.5706	86.5121
Tbc1d31	chr15:57912198-57970068	OK	1.24776	1.37367
Dram1	chr10:88322803-88357075	NOTEST	0.375782	0.41368
Madd	chr2:91137359-91183047	OK	33.162	36.5046
Mif	chr10:75859352-75860250	OK	48.9428	53.8732
Gps1	chr11:120784271-120789102	OK	3.46253	3.81129
Adar	chr3:89715021-89764632	OK	16.0745	17.6936
Eif3l	chr15:79075222-79094400	OK	54.2726	59.7389
Txnrd3	chr6:89643987-89675529	OK	6.64027	7.30847
Pabpc5	chrX:119927195-119930165	NOTEST	0.447634	0.492652
Chd4	chr6:125096162-125130501	OK	48.8929	53.8074
Iqsec3	chr6:121372927-121473678	OK	9.50278	10.4578
Aspscr1	chr11:120672972-120709446	OK	25.5609	28.1289
Zswim6	chr13:107724616-107890064	OK	10.0089	11.0142
Wdr5	chr2:27515146-27536538	OK	8.93234	9.82918
Nr1h2	chr7:44549615-44553965	OK	26.1774	28.8023
Camk1	chr6:113326975-113343922	OK	24.4675	26.9196
Plekhg3	chr12:76533559-76579039	OK	5.78887	6.3683
Atp6v1d	chr12:78842981-78861638	OK	97.217	106.943
Tmem60	chr5:20882452-20886870	OK	29.4553	32.4015
Tmco6	chr18:36735069-36744587	OK	5.8318	6.41509
Ap4e1	chr2:127008710-127069814	OK	4.81432	5.29566
Wdr26	chr1:181173225-181211978	OK	20.0844	22.0919
Psen2	chr1:180227003-180256300	OK	26.0418	28.641
Rab5c	chr11:100715265-100738130	OK	77.6231	85.3648
Eid2b	chr7:28277705-28280129	OK	4.69164	5.15933
Tubd1	chr11:86544990-86567360	OK	2.31279	2.54324
Mkln1os	chr6:31366884-31398773	OK	1.9593	2.15429

R3hdm4	chr10:79697304-80369637	OK	35.788	39.3496
Cox20	chr1:178319152-178322693	OK	19.7731	21.7404
Pnma3	chrX:73064786-73068191	OK	0.95506	1.05007
Atrnl1	chr19:57611033-58133340	OK	72.4822	79.6908
Tecta	chr9:42329621-42399929	OK	1.85338	2.03753
Zfp326	chr5:105876567-105915820	OK	7.62037	8.37663
Gm16515	chr11:60902245-60913792	OK	2.47563	2.72105
Zc3h8	chr2:128926267-128944020	OK	3.68334	4.04796
Zfp958	chr8:4613169-4630231	OK	3.97802	4.37179
Gm6251	chr10:20148919-20281590	OK	24.5687	26.9955
2610002J02Rik	chr4:155249965-155256687	OK	34.2925	37.6775
Ykt6	chr11:5955757-5967781	OK	49.8057	54.7166
Pex5	chr6:124396815-124415067	OK	17.3921	19.107
Tmem218	chr9:37208332-37223211	OK	12.7528	14.01
Farsb	chr1:78310345-78488897	OK	36.2181	39.7877
Clec2d	chr6:129180614-129186535	OK	5.26782	5.78594
Tssc4	chr7:143069367-143071087	OK	12.5397	13.7725
Hdc	chr2:126593659-126618678	NOTEST	0.523782	0.575228
Hotair	chr15:102944061-102947946	NOTEST	0.072671	0.0798065
Bdp1	chr13:100017993-100104070	OK	4.23466	4.64989
Rbms3	chr9:116572746-117629913	OK	80.6522	88.5578
Nkapl	chr13:21467046-21468501	NOTEST	0.300254	0.329685
Svopl	chr6:37983738-38046996	NOTEST	0.166634	0.182959
1110001J03Rik	chr6:38534860-38539449	OK	17.9724	19.731
Bsn	chr9:108096021-108190383	OK	15.4789	16.9928
Rhog	chr7:102239122-102250118	OK	12.9749	14.2433
Jrkl	chr9:13242789-13245741	OK	5.32001	5.84009
Ulk3	chr9:57589451-57596233	OK	7.69611	8.44842
Cst6	chr19:5344704-5349574	OK	1.94141	2.13108
Paf1	chr7:28392995-28399383	OK	15.6666	17.1962
Adra2b	chr2:127363285-127367221	NOTEST	0.177598	0.194936
Smek1	chr12:101039408-101088927	OK	5.73879	6.29888
Eif4e	chr3:138526190-138557599	OK	21.9437	24.0846
Itga4	chr2:79255425-79428988	OK	1.66725	1.82975
Ostm1	chr10:42678915-42702462	OK	25.3619	27.8323
Fem1b	chr9:62791829-62811648	OK	33.3715	36.6212
Mtg1	chr7:140137563-140154659	OK	9.92924	10.8944
Hmox2	chr16:4726360-4789935	OK	74.6028	81.854
Tex264	chr9:106658745-106685952	OK	49.4341	54.2352
Dgkeos	chr11:89060750-89067884	NOTEST	0.161299	0.176962
E430025E21Rik	chr15:59331996-59374152	OK	27.6609	30.3435
Sv2a	chr3:96181226-96195180	OK	27.2005	29.8369
Urb1	chr16:90751526-90810413	OK	1.66421	1.82544
Atxn1	chr13:45549755-45964991	OK	6.02883	6.61247
Nadk2	chr15:9071259-9110496	OK	3.76561	4.12989
Ubxn1	chr19:8871558-8875656	OK	68.9756	75.6405
Per2	chr1:91415981-91459328	OK	2.00839	2.20216
Foxp1	chr6:98925341-99435345	OK	4.90755	5.38078
Ndufa6	chr15:82350138-82354291	OK	101.47	111.254
Synpo2	chr3:123076518-123236149	OK	0.881025	0.965914
Rundc1	chr11:101418813-101435665	OK	6.72824	7.37634
Kcnmb4	chr10:116417867-116473523	OK	19.6407	21.5318
Sec61a1	chr6:88503606-88518800	OK	50.3037	55.1457

Wdr6	chr9:108569891-108578670	OK	32.213	35.3136
36403	chr15:82274934-82294442	OK	33.9543	37.2183
Exoc2	chr13:30813917-30974047	OK	20.9386	22.9505
Becn1	chr11:101279202-101302267	OK	67.9931	74.5141
Ppap2c	chr10:79526428-79533787	OK	11.2909	12.3736
6330419J24Rik	chrX:56374585-56378470	OK	4.63273	5.0766
Ap4s1	chr12:51608540-51738939	OK	19.9857	21.9003
Mrpl41	chr2:24962421-24975098	OK	15.4661	16.9476
Fnip1	chr11:54438178-54518241	OK	4.16215	4.56064
Pradc1	chr6:85446784-85468477	OK	5.1777	5.67321
Ndufaf3	chr9:108565864-108567342	OK	20.9108	22.9116
Amn1	chr6:149157576-149188712	OK	17.2438	18.8934
Anxa7	chr14:20455260-20480133	OK	89.2376	97.7715
Ccdc32	chr2:119017778-119029393	OK	16.9661	18.5875
Gm6623	chr17:36178776-36181364	OK	1.55966	1.70842
Cox19	chr5:139337821-139345166	OK	35.8228	39.2327
Nadk	chr4:155562391-155591001	OK	16.438	18.0017
Zfp322a	chr13:23353102-23369208	OK	6.09546	6.67428
Ank2	chr3:126921606-126998452	OK	198.537	217.357
Ankrd50	chr3:38449260-38484816	OK	16.8523	18.4461
Abcc5	chr16:20331303-20426394	OK	47.2961	51.7623
Gtf3c6	chr10:40249202-40257665	OK	16.5366	18.0974
Eif3k	chr7:28971371-28981888	OK	99.9569	109.39
Shq1	chr6:100573081-100671157	OK	1.72294	1.88549
Polr1b	chr2:129100995-129126595	OK	3.32002	3.63308
Nono	chrX:101429650-101448593	OK	39.4677	43.189
Tmem67	chr4:12039355-12088007	OK	1.80254	1.97244
Gm5124	chrX:21360864-21364624	OK	9.3441	10.2247
Rbm26	chr14:105106727-105177327	OK	7.61799	8.33551
Gm15787	chr5:110135829-110176504	NOTEST	0.0329006	0.0359979
Tceb1	chr1:16642764-16656865	OK	96.7942	105.892
Zfp97	chr17:17121382-17146878	OK	1.1848	1.29613
Zfp446	chr7:12977847-12985716	OK	1.74979	1.91401
Agtrap	chr4:148077060-148088064	OK	12.8938	14.103
D830026I12Rik	chr6:17197750-17205695	NOTEST	0.118672	0.129796
Eml4	chr17:83350930-83480359	OK	7.55479	8.26265
Taf1b	chr12:24498580-24558571	OK	7.67307	8.39196
Dlgap4	chr2:156613696-156764363	OK	23.8883	26.1263
Rad51	chr2:119112816-119136070	OK	0.915344	1.00108
Ppm1l	chr3:69316917-69555396	OK	26.8296	29.3406
Stx16	chr2:174077050-174099771	OK	17.2716	18.8874
Stard3nl	chr13:19357675-19395752	OK	80.4595	87.9729
Smim20	chr5:53267105-53278540	OK	31.0627	33.9586
Nup205	chr6:35177615-35247598	OK	4.30498	4.70612
Pgap3	chr11:98388671-98400490	OK	4.29188	4.69087
Trim23	chr13:104179097-104202048	OK	9.94813	10.8728
1110057K04Rik	chr12:8208106-8285759	OK	21.8681	23.9006
Ilf2	chr3:90476200-90491013	OK	28.7782	31.4525
App	chr16:84954435-85173707	OK	402.353	439.714
Spata7	chr12:98628141-98669819	OK	5.81576	6.35498
Trappc1	chr11:69323985-69325793	OK	92.7833	101.384
Mecom	chr3:29951295-30013204	NOTEST	0.083768	0.0915304
Carm1	chr9:21546893-21595970	OK	18.168	19.8489

4930506C21Rik	chr17:8283812-8327442	NOTEST	0.3512	0.383682
Hbp1	chr12:31654868-31950535	OK	19.4116	21.2062
2700029M09Rik	chr8:60890450-60907572	OK	23.1156	25.2489
Mok	chr12:110807797-110840939	OK	1.27442	1.39188
Zfp101	chr17:33380178-33394637	OK	2.44985	2.6751
Tbc1d15	chr10:115197870-115251493	OK	11.6333	12.6979
Parm1	chr5:91517699-91623996	OK	157.419	171.819
Gbra2	chrX:165129016-165326981	NOTEST	0.0963789	0.105195
Slain2	chr5:72914361-72978841	OK	10.6472	11.621
Alkbh1	chr12:87428077-87472299	OK	2.22902	2.43281
Ttc9c	chr19:8809074-8819294	OK	14.5233	15.8505
Pts	chr9:50521616-50528641	OK	20.2451	22.0937
Zfp932	chr5:109996526-110010411	OK	5.38932	5.88079
Mpdz	chr4:81278499-81442805	OK	18.215	19.8746
R3hdm1	chr1:128103305-128237735	OK	12.992	14.1756
Ccdc58	chr16:36071659-36092118	OK	3.56383	3.8884
Nans	chr4:46489328-46503438	OK	17.5644	19.1628
Zfp820	chr17:21816875-21845759	OK	1.49688	1.63306
Tmc6	chr11:117765984-117780683	OK	13.668	14.9089
Yipf4	chr17:74489492-74500277	OK	40.2634	43.9165
Grcc10	chr6:124739183-124741079	OK	134.616	146.824
Prdm4	chr10:85891967-85916945	OK	12.0638	13.1557
Hspa5	chr2:34772089-34776529	OK	138.091	150.587
Vwa5b2	chr16:20589581-20605377	OK	9.41269	10.264
Sh3bgrl	chrX:109095406-109162467	OK	41.2814	45.0141
A830010M20Rik	chr5:107497744-107512556	OK	5.71887	6.23567
Zfp109	chr7:24227794-24237598	OK	1.66578	1.81605
Pigw	chr11:84876312-84916356	OK	2.26774	2.47228
Phf12	chr11:77982815-78030535	OK	4.84127	5.27742
Zfp800	chr6:28239930-28261601	OK	2.89978	3.16095
Ilk	chr7:105731729-105744338	OK	54.4633	59.3648
Rpa2	chr4:132768359-132778746	OK	5.00453	5.45461
Cbfa2t3	chr8:122625135-122699109	OK	1.28907	1.405
Atp6v1c1	chr15:38661903-38692444	OK	89.2058	97.2267
Rpap2	chr5:107534710-107661853	OK	9.60892	10.4719
Tcf19	chr17:35512734-35516824	OK	3.17467	3.45892
Exosc4	chr15:76327396-76330670	OK	10.5017	11.4416
Znhit3	chr11:84876312-84916356	OK	16.5799	18.0634
Ubr2	chr17:46928290-47010532	OK	16.5857	18.0675
Srfbp1	chr18:52465692-52490738	OK	5.46841	5.9568
Elp5	chr11:69968225-69990600	OK	35.4129	38.5715
Gkap1	chr13:58233350-58274188	OK	6.20672	6.75999
Kcnj11	chr7:46097122-46100764	OK	3.85793	4.2013
Abcc1	chr16:14361557-14474878	OK	4.97054	5.41238
Slc26a11	chr11:119355556-119381076	OK	2.70891	2.94966
Mrpl37	chr4:107055873-107066866	OK	25.6822	27.9641
Crtc2	chr3:90254280-90264125	OK	12.5992	13.7178
Orc4	chr2:48814108-48949267	OK	9.64962	10.5064
Tmem35	chrX:134295224-134305969	OK	36.546	39.7869
Camsap2	chr1:136268122-136346104	OK	34.1917	37.2159
Litaf	chr16:10959272-10993121	OK	12.4158	13.5139
Zkscan3	chr13:21387003-21402755	OK	6.47732	7.04973
Trim35	chr14:66295328-66311424	OK	57.3109	62.3738

Slc8a2	chr7:16130299-16160511	OK	1.81578	1.97616
Usp31	chr7:121642020-121707253	OK	29.7591	32.3875
0610011F06Rik	chr17:25875499-25877163	OK	16.6723	18.1448
Fam195b	chr11:120542887-120549727	OK	47.2906	51.4625
Ddx51	chr5:110653450-110660496	OK	3.11605	3.39094
Fance	chr17:28313529-28326574	OK	4.79506	5.21756
Hint2	chr4:43654226-43656445	OK	28.6116	31.1309
Mbd4	chr6:115840696-115853341	OK	1.56789	1.70593
Eif2ak1	chr5:143871861-143909839	OK	29.2316	31.8021
Ttc27	chr17:74717749-74863570	OK	9.2957	10.1122
Capn7	chr14:31336723-31371983	OK	22.138	24.0806
Cav2	chr6:17281184-17289130	OK	31.4157	34.1711
Abcb1a	chr5:8660091-8748570	OK	8.93255	9.71492
Stk17b	chr1:53755511-53785215	OK	1.92014	2.08829
9130221H12Rik	chr7:25228258-25237851	OK	2.91819	3.17372
Arhgef15	chr11:68943153-68956858	OK	2.37569	2.58348
Rabggta	chr14:55715876-55722176	OK	12.1452	13.2059
Dgke	chr11:89037581-89060748	OK	12.4744	13.5628
Ubap2	chr4:41194314-41275135	OK	35.1637	38.2299
Smc6	chr12:11265885-11319785	OK	8.93995	9.71898
Pias1	chr9:62880076-62980879	OK	10.0781	10.956
Exosc10	chr4:148558426-148582400	OK	9.07609	9.86546
Gon4l	chr3:88835230-88913950	OK	3.31158	3.59945
Edn1	chr13:42301269-42307989	OK	0.841345	0.914403
Gng10	chr4:59035155-59041899	OK	18.2228	19.8051
Ercc2	chr7:19382038-19404104	OK	6.0747	6.602
Cmip	chr8:117257018-117461505	OK	99.483	108.115
Sgta	chr10:81044072-81060154	OK	29.1466	31.6722
Psemb4	chr3:94884323-94886958	OK	216.38	235.127
Zfp362	chr4:128773084-128806112	OK	5.93612	6.45012
Zbtb3	chr19:8802495-8804854	OK	1.48196	1.61023
Bcr	chr10:75060895-75184923	OK	21.1217	22.9491
Cwc25	chr11:97745469-97766613	OK	8.95995	9.73454
BC018242	chr9:21937009-21948907	OK	17.9933	19.5484
Ube2q1	chr3:89773608-89783997	OK	26.6986	29.0042
Htra2	chr6:83034223-83054571	OK	15.3615	16.6862
Cyth2	chr7:45806636-45814316	OK	19.3501	21.0178
Mea1	chr17:46674550-46705002	OK	63.3825	68.845
Epb4.1l4a	chr18:33796326-34007206	OK	3.35444	3.6435
Klc1	chr12:111758848-111813841	OK	707.414	768.35
Bsdc1	chr4:129461678-129488432	OK	21.0634	22.8759
B4galt3	chr1:171270327-171276895	OK	14.4502	15.6929
Ccser1	chr6:61175603-62382863	OK	1.31119	1.42393
Rbfox2	chr15:77078989-77307053	OK	63.4175	68.8695
Ddb1	chr19:10605624-10629821	OK	94.9571	103.108
Prkg1	chr19:30564486-31765033	OK	23.2193	25.2125
Dynlrb1	chr2:155236532-155250277	OK	255.014	276.897
Intu	chr3:40540766-40704774	OK	0.814333	0.884153
Atp5sl	chr7:25619413-25625550	OK	12.6649	13.7503
Tppp	chr13:74009418-74035753	OK	7.54602	8.19204
Ube2z	chr11:96047430-96065364	OK	50.9879	55.3528
Eno1,Eno1b	chr4:150237196-150248873	OK	0.99741	1.08273
Alkbh2	chr5:114123933-114128176	OK	2.44207	2.65071

Sf3a3	chr4:124714860-124732422	OK	14.6098	15.8571
Fam96b	chr8:104639838-104641728	OK	25.9569	28.1726
Cep250	chr2:155956557-155998900	OK	8.51858	9.24469
Polr3b	chr10:84622436-84727178	OK	11.0526	11.9946
Chd8	chr14:52198150-52237572	OK	13.4861	14.635
Dzip3	chr16:48924227-48994112	OK	11.6147	12.6026
Extl3	chr14:65052058-65098106	OK	40.2321	43.6524
Arid2	chr15:96287521-96405463	OK	4.21231	4.5704
Srgap1	chr10:121780990-122047315	OK	14.1699	15.3726
C330018D20Rik	chr18:56955830-56975379	OK	2.83969	3.08045
2810428I15Rik	chr8:70504295-70506739	OK	61.635	66.8545
Lingo1	chr9:56618474-56685253	OK	25.6772	27.8504
Baz1b	chr5:135187322-135246129	OK	11.2843	12.2394
Fam208a	chr14:27428846-27508460	OK	4.47527	4.85386
Rabgap1	chr2:37443284-37566437	OK	26.3065	28.5296
Asxl2	chr12:3426856-3506849	OK	3.43415	3.72416
Rab5a	chr17:53479233-53539451	OK	59.9166	64.9754
Hsf2bp	chr17:31944768-32034508	NOTEST	0.0765391	0.082995
Gpatch2	chr1:187215510-187351429	OK	3.88214	4.20908
Sbf1	chr15:89288235-89315311	OK	26.8506	29.1097
Spred2	chr11:19924441-20022597	OK	26.4782	28.7058
Hemk1	chr9:107327081-107338350	OK	2.50162	2.71191
Adh5	chr3:138437199-138455499	OK	41.9892	45.519
Gm5148	chr3:37714189-37724360	NOTEST	0.125084	0.13559
Wdr43	chr17:71616214-71659031	OK	7.15648	7.75731
Fiz1	chr7:5007055-5014728	OK	5.56376	6.02964
Grina	chr15:76246806-76249904	OK	297.154	322.036
Cdk13	chr13:17715961-17805097	OK	6.12402	6.63671
Tmod3	chr9:75497783-75559657	OK	10.7507	11.6505
Elf2	chr3:51252719-51340644	OK	4.25804	4.61434
Ptges3	chr10:128058981-128077254	OK	71.9153	77.9321
Zfp871	chr17:32765496-32788287	OK	14.7203	15.9508
Neu1	chr17:34931252-34937297	OK	11.3449	12.2928
Herpud1	chr8:94386499-94395358	OK	29.5633	32.0333
Fam131a	chr16:20695056-20716636	OK	20.0748	21.7512
Ankib1	chr5:3689998-3803124	OK	13.1918	14.2929
Ildr2	chr1:166254138-166316832	OK	1.79649	1.94643
Kremen1	chr11:5191552-5261610	OK	6.45191	6.99033
Hivep2	chr10:13966378-14151378	OK	11.1076	12.0343
Nolc1	chr19:46075846-46085543	OK	13.1792	14.2786
Mttp	chr3:138089854-138143388	OK	1.39978	1.5165
Tmem151a	chr19:50793336-5085477	OK	47.709	51.6868
Tcp1	chr17:12916328-12940396	OK	123.237	133.504
Tubg2	chr11:101155883-101161787	OK	14.1474	15.3247
Anapc10	chr8:79711819-79777321	OK	3.48769	3.77782
Spred3	chr7:29158828-29168647	OK	3.87868	4.20123
Stx5a	chr19:8741423-8755642	OK	18.1216	19.6276
Spata13	chr14:60634728-60764556	OK	20.6927	22.41
Tsen2	chr6:115544703-115578336	OK	7.25978	7.862
Tgs1	chr4:3574878-3616623	OK	6.56101	7.10445
Mettl14	chr3:123368294-123385990	OK	12.1294	13.1334
Slc7a14	chr3:31202855-31310319	OK	26.7575	28.9657
Ccl4	chr11:83662583-83664683	NOTEST	0.610952	0.661127

Surf4	chr2:26913377-26933511	OK	52.1748	56.4582
Synm	chr7:67730160-67759742	OK	89.6264	96.9839
Cnot8	chr11:58104152-58118594	OK	17.3519	18.7726
Pygo2	chr3:89430836-89435128	OK	15.6059	16.8828
Akip1	chr7:109703736-109723771	OK	4.21653	4.56136
Med30	chr15:52712444-52730431	OK	20.3586	22.0184
Mfsd11	chr11:116854014-116875637	OK	19.9022	21.5246
A530072M11Rik	chr4:16164109-16266225	NOTEST	0.590715	0.638869
Areg	chr5:91139614-91148432	NOTEST	0.301837	0.326432
Fam206a	chr4:56749679-56809605	OK	2.84114	3.0725
Nmnat2	chr1:152955100-153119261	OK	49.1735	53.1745
Cacna1s	chr1:136052900-136119822	NOTEST	0.0443577	0.0479651
Msto1	chr3:88835230-88913950	OK	14.8143	16.0159
Rab7	chr6:88000434-88013690	OK	61.8404	66.8506
Ccng1	chr11:40748551-40755286	OK	39.1027	42.2699
Hnrnp1l	chr17:80029486-80062268	OK	15.8777	17.1635
Bcas3	chr11:85353163-85832388	OK	22.213	24.0111
Parp6	chr9:59617283-59650290	OK	43.3207	46.8263
Tma16	chr8:66476345-66486507	OK	2.96192	3.20136
Atxn7l3b	chr10:112925427-112929026	OK	61.0871	66.019
Ssu72	chr4:155704814-155733873	OK	50.5579	54.6373
Pcdhb17	chr18:36930284-37841872	OK	3.79852	4.10468
Stub1	chr17:25829042-25833361	OK	63.6783	68.8064
Pex19	chr1:172126754-172136497	OK	36.7438	39.7008
Rtf1	chr2:119675067-119735407	OK	11.6205	12.5553
Vtcn1	chr3:100825458-100896922	NOTEST	0.090284	0.0975404
Lamtor5	chr3:107278857-107284081	OK	38.4267	41.5143
Bbs4	chr9:59321965-59353508	OK	18.4482	19.9294
Surf6	chr2:26890771-26902813	OK	6.61476	7.14574
Rhot2	chr17:25838837-25861515	OK	26.3173	28.4291
Nampt	chr12:32820334-32853369	OK	11.7513	12.694
Cuedc1	chr11:88098057-88211507	OK	10.8503	11.7203
Mapk8	chr14:33377898-33447158	OK	15.7492	17.0119
Zfp763	chr17:33016863-33033381	OK	4.52943	4.89235
Gmpr2	chr14:55672234-55678751	OK	21.0208	22.7035
Pkn2	chr3:142790901-142882004	OK	5.58136	6.02777
Pex1	chr5:3571715-3637101	OK	3.31245	3.57723
Ap2a2	chr7:141562179-141633011	OK	106.241	114.732
Psmd11	chr11:80428614-80472133	OK	22.479	24.2753
Tmx1	chr12:70244534-70669399	OK	31.6761	34.2072
Cdk10	chr8:123224840-123232256	OK	12.5276	13.5283
Tm7sf2	chr19:6062820-6077187	OK	52.1682	56.3315
Strn3	chr12:51608540-51738939	OK	22.7673	24.5842
Atl1	chr12:69746847-69987002	OK	96.6952	104.41
Tceanc2	chr4:107134161-107178366	OK	4.90616	5.29757
Zdhhc8	chr16:18220752-18235136	OK	28.8651	31.1668
Papolg	chr11:23862645-23895270	OK	5.17753	5.5896
Zcchc11	chr4:108459425-108559415	OK	2.87217	3.10033
Mrps34	chr17:24895119-24896273	OK	35.6719	38.5052
Gab3	chrX:74988544-75084905	NOTEST	0.503258	0.543211
Zfp930	chr8:69209045-69230539	OK	4.63721	5.00494
Stmn4	chr14:66344374-66361680	OK	12.5154	13.5054
Yme1l1	chr2:23156504-23199260	OK	34.253	36.962

Trim43a	chr9:88581035-88588819	NOTEST	0.0656984	0.070888
Gal	chr19:3409916-3414457	OK	21.7703	23.4883
D330050I16Rik	chr19:5377522-5390069	NOTEST	0.433446	0.467612
Slc5a6	chr5:30933142-31348845	OK	4.50188	4.8563
Rae1	chr2:173000116-173015739	OK	14.5746	15.7219
Zfand3	chr17:30005086-30210020	OK	64.2691	69.3265
Zfp51	chr17:21450351-21465589	OK	2.03928	2.19967
Psemb3	chr11:97703433-97713500	OK	16.0349	17.2928
Vps28	chr15:76622087-76626027	OK	113.935	122.868
Pskh1	chr8:105900473-105931802	OK	5.29832	5.71368
Ndufb4	chr16:37647601-37654368	OK	11.2123	12.0907
Tesk1	chr4:43442276-43454626	OK	13.3849	14.4323
Zc3h15	chr2:83644577-83664616	OK	42.2979	45.6052
Htr5a	chr5:27841946-27855086	OK	1.14192	1.23116
Alkbh8	chr9:3335230-3385846	OK	4.32947	4.66762
Npm1	chr11:33152497-33163206	OK	22.5958	24.3558
Tekt3	chr11:62951192-63386069	NOTEST	0.0816893	0.0880498
Atic	chr1:71557155-71579403	OK	27.7019	29.8578
Trappc2l	chr8:122611625-122615591	OK	56.5959	60.9988
Ddr1	chr17:35681566-35704139	OK	19.8463	21.3869
Dhx35	chr2:158794806-158858220	OK	7.28985	7.85517
Guk1	chr11:59183854-59191952	OK	70.4284	75.8887
Slc35b4	chr6:34155878-34177054	OK	19.0571	20.5344
Kcnmb2	chr3:31902702-32200180	OK	2.14936	2.31597
C430049B03Rik	chrX:53053111-53057190	NOTEST	0.0632878	0.0681932
Ppp1r8	chr4:132826923-132843169	OK	12.2858	13.2381
Tcf15	chr2:180598221-180642691	NOTEST	0.280876	0.302627
Tmem87a	chr2:120355308-120504919	OK	18.0099	19.404
Antxr2	chr5:97884687-98030962	OK	20.0755	21.6285
1700113A16Rik	chr3:88171559-88177785	NOTEST	0.442161	0.476358
Rbbp6	chr7:122970563-123002572	OK	16.3161	17.5763
Csnk1g3	chr18:53862112-53955684	OK	18.6404	20.0796
Olfm1	chr2:28193092-28230736	OK	178.477	192.245
Timm8a1	chrX:134537257-134541629	OK	5.39171	5.80763
Lrfn5	chr12:61524631-61845258	OK	18.6363	20.0727
Papd4	chr13:93147399-93192283	OK	1.84169	1.98355
Nupl1	chr14:60219467-60251378	OK	23.2157	25.004
Ube2h	chr6:30211289-30304539	OK	29.3474	31.6066
Cd109	chr9:78615545-78716260	OK	1.5701	1.6909
Gm12216	chr11:53785488-53859256	NOTEST	0.161955	0.174415
Npepps	chr11:97205855-97280576	OK	81.2105	87.4572
Etv3	chr3:87525577-87540158	OK	7.54621	8.12633
Rplp0	chr5:115559466-115563729	OK	40.8983	44.038
Chaf1b	chr16:93883900-93906106	OK	0.870084	0.93688
Utp15	chr13:98246844-98262992	OK	6.74947	7.26758
Ccdc86	chr19:10937159-10949266	OK	2.62719	2.82882
Cyb561d1	chr3:108195770-108200834	OK	7.80379	8.40273
Mras	chr9:99385419-99436712	OK	25.3674	27.3124
Dnajc14	chr10:128805675-128821631	OK	22.6841	24.4228
Zfp330	chr8:82763619-82774126	OK	7.2288	7.78275
Hoxa6	chr6:52169061-52213597	OK	1.02921	1.10808
Psmd7	chr8:107580379-107588482	OK	86.4628	93.0874
Txn1l	chr18:63662800-63692359	OK	54.6405	58.8264

Spast	chr17:74338986-74391113	OK	13.5205	14.5558
Patz1	chr11:3202352-3479831	OK	7.07716	7.61872
Hdac11	chr6:91156814-91174683	OK	40.6401	43.7465
Wdr3	chr3:99885416-100162403	OK	5.05649	5.44296
Pik3ca	chr3:32436150-32468486	OK	13.9374	15.0024
Fam43b	chr4:138394091-138396458	OK	29.7782	32.0536
Rab24	chr13:55319222-55321980	OK	25.0203	26.932
Agbl5	chr5:30888851-30907788	OK	1.15372	1.24184
Fchsd2	chr7:101108774-101284405	OK	17.2941	18.6147
Psenen	chr7:30561865-30563184	OK	4.69423	5.05247
Fam65a	chr8:105605228-105622218	OK	16.8442	18.1294
Nrbp1	chr5:30933142-31348845	OK	48.2825	51.9648
Rab6a	chr7:100549116-100641268	OK	245.381	264.093
Fbxl17	chr17:63045951-63500580	OK	5.10524	5.49446
Prpf31	chr7:3629984-3642484	OK	14.5201	15.6239
Mrpl32	chr13:14610300-14613037	OK	22.5022	24.2119
Btaf1	chr19:36926078-37014057	OK	4.7355	5.09511
Enox2	chrX:49009706-49288242	OK	5.82102	6.26284
Fam221a	chr6:49367738-49389904	OK	0.858622	0.923718
Rnf114	chr2:167481135-167516166	OK	16.5199	17.7708
Cd48	chr1:171682054-171705257	NOTEST	0.455402	0.489883
BC003331	chr1:150361310-150466165	OK	29.2639	31.4784
Scoc	chr8:83434491-83458396	OK	85.53	92.0026
Ttc12	chr9:49436960-49486225	OK	2.41222	2.59474
Ucp2	chr7:100493344-100502173	OK	16.1314	17.3505
Isoc1	chr18:58659481-58679570	OK	25.2611	27.1698
Pcdh1	chr18:38196693-38209762	OK	20.9284	22.5094
Stx18	chr5:38039229-38159467	OK	13.309	14.3141
Itgb7	chr15:102215994-102231935	OK	0.845706	0.909537
Mbd3	chr10:80392540-80399479	OK	24.5548	26.4078
Cetn3	chr13:81783291-81797157	OK	40.3385	43.3819
Ss18l1	chr2:180042482-180070201	OK	4.12698	4.43799
Bptf	chr11:107033080-107131922	OK	9.68345	10.4124
Gins3	chr8:95633558-95645059	OK	3.67346	3.94992
Smc1a	chrX:152016427-152061973	OK	32.1945	34.6156
Nap1l5	chr6:58833699-58920396	OK	154.851	166.495
Sema4f	chr6:82911884-82939750	OK	35.9204	38.6199
Hspa8	chr9:40801272-40805199	OK	251.821	270.716
Eaf1	chr14:31495078-31509858	OK	21.5357	23.1503
Bcl7a	chr5:123344447-123374083	OK	10.1512	10.9113
Naa38	chr11:69395790-69398234	OK	57.946	62.282
Akr1e1	chr13:4592489-4609164	OK	11.9205	12.8121
Psmc14	chr2:61711693-61800376	OK	100.46	107.972
Snrpb	chr2:130171635-130179364	OK	51.0157	54.8264
Cyb5b	chr8:107150660-107187470	OK	66.4297	71.3899
Aktip	chr8:91070056-91135496	OK	68.3966	73.4991
Alg1	chr16:5233620-5255956	OK	18.3519	19.7197
Slc35c2	chr2:165276521-165287838	OK	18.9533	20.3659
Psmc3	chr2:91054015-91059438	OK	140.577	151.047
Mad2l2	chr4:148140489-148145696	OK	5.09249	5.47167
Wac	chr18:7868831-7929028	OK	14.8992	16.0073
Rad23b	chr4:55350041-55392237	OK	76.4882	82.1754
Kansl2	chr15:98517657-98534269	OK	4.57664	4.91673

Gm11545	chr11:94755135-94761182	NOTEST	0.00730647	0.00784894
Stambp	chr6:83543205-83588126	OK	18.0778	19.4199
Csmd1	chr8:15892544-17535385	OK	6.60151	7.09152
Arg1	chr10:24915206-24927470	NOTEST	0.193682	0.208004
Ep300	chr15:81586213-81652077	OK	5.95203	6.39194
1110059E24Rik	chr19:21597312-21652791	OK	14.153	15.1985
Fkbp15	chr4:62300341-62360548	OK	16.4543	17.6694
Mapk12	chr15:89130583-89140703	OK	14.2766	15.33
Aprt	chr8:122574636-122576907	OK	33.6113	36.0904
Ak2	chr4:128993223-129011529	OK	16.2388	17.4365
Haus5	chr7:30653707-30664994	OK	0.916273	0.983643
Tigd3	chr19:5891137-5894107	NOTEST	0.526912	0.565609
Irf2bp1	chr7:19004064-19006763	OK	10.1978	10.9464
Bbs2	chr8:94067953-94098811	OK	8.61687	9.24937
Cog5	chr12:31654868-31950535	OK	13.1224	14.0855
Rfwd3	chr8:111270943-111300222	OK	4.57454	4.91028
Magt1	chrX:105968084-106011899	OK	14.7899	15.8753
Rabep1	chr11:70844760-70969973	OK	32.0012	34.349
Lemd2	chr17:27189599-27204438	OK	10.67	11.4527
Ranbp3	chr17:56673224-56711769	OK	17.2023	18.464
Lamtor2	chr3:88549818-88552927	OK	84.7608	90.9746
Rnaseh2c	chr19:5601872-5602959	OK	20.6176	22.1283
Dock9	chr14:121542038-121797734	OK	13.1965	14.163
Dclre1c	chr2:3424130-3474986	OK	2.64045	2.83365
2010012005Rik	chr19:46689905-46703382	OK	10.6345	11.4126
Gtf3c5	chr2:28566244-28583279	OK	9.58147	10.2823
Ssbp1	chr6:40471414-40481823	OK	5.17745	5.55475
Cwc15	chr9:14500618-14510620	OK	46.5163	49.9018
Med4	chr14:73510048-73518545	OK	11.9442	12.8134
Akt1	chr12:112653820-112674276	OK	83.4614	89.5282
Rn45s	chr17:39842996-39848829	OK	701.06	752.01
Trim15	chr17:36860690-36867210	NOTEST	0.0115323	0.0123688
Bysl	chr17:47505050-47611492	OK	7.66257	8.21744
Srgap3	chr6:112717971-112947266	OK	38.6788	41.4794
Pcdhga11	chr18:36930284-37841872	OK	5.23254	5.61134
Gtf2a1	chr12:91555261-91590487	OK	15.635	16.7655
Uggt1	chr1:36140027-36244302	OK	18.3825	19.711
Sptlc1	chr13:53332747-53377361	OK	15.8325	16.9764
Man1b1	chr2:25332742-25352213	OK	36.8007	39.4592
Sgip1	chr4:102760134-103011965	OK	14.1636	15.1859
Angel2	chr1:190925107-190946491	OK	7.97929	8.5539
Ehmt1	chr2:24790768-24919609	OK	4.74919	5.09107
Sp3	chr2:72936431-72989249	OK	11.4316	12.2542
Prmt1	chr7:44976754-44986420	OK	39.8514	42.7149
Tmem39b	chr4:129676354-129696838	OK	2.87464	3.08089
Pnrc2	chr4:135870925-135873846	OK	15.4916	16.6027
Ube2m	chr7:13035119-13038275	OK	117.545	125.958
Wdr31	chr4:62452631-62470895	OK	0.962207	1.03102
Mfsd6	chr1:52656304-52727318	OK	56.8294	60.8928
Fbxw8	chr5:118064980-118155458	OK	16.8338	18.0364
LOC101056043	chr5:110361751-110448503	OK	1.83795	1.96912
Foxp4	chr17:47867132-47924632	OK	3.08972	3.31015
Eif2b2	chr12:85219512-85226628	OK	22.099	23.6728

Exoc7	chr11:116287997-116306738	OK	20.219	21.6565
Lyrm4	chr13:35978796-36117357	OK	19.5557	20.9455
Ctnnbl1	chr2:157737400-157891903	OK	15.0685	16.139
Akt3	chr1:177022114-177248767	OK	61.2003	65.5449
Syf2	chr4:134930979-134937537	OK	27.6176	29.5779
Rnf139	chr15:58889228-58933730	OK	10.2228	10.948
Epn1	chr7:5080234-5098178	OK	55.8376	59.7983
2500004C02Rik	chr2:153341156-153345810	OK	1.1201	1.19943
Nsun6	chr2:14995130-15054872	OK	3.60091	3.85594
Wdr74	chr19:8735838-8740624	OK	15.5607	16.6621
Armc5	chr7:128234450-128245100	OK	8.30521	8.89235
Mrps30	chr13:118380109-118387252	OK	16.1071	17.2451
Traf4	chr11:78158422-78165550	OK	1.4701	1.57394
Lrrfip2	chr9:111118110-111225668	OK	11.2751	12.0715
2410004P03Rik	chr12:17004957-17011727	NOTEST	0.0351513	0.0376333
Dip2c	chr13:9276524-9668926	OK	26.351	28.2108
Txlnb	chr10:17796218-17845663	NOTEST	0.172106	0.184249
Cul9	chr17:46500608-46546388	OK	9.54504	10.2178
Pcsk7	chr9:45863690-45936058	OK	7.37344	7.89302
Med26	chr8:72494558-72548310	OK	1.87419	2.00599
Pgam5	chr5:110259134-110269899	OK	15.5939	16.6898
Fam73a	chr3:152273459-152340407	OK	35.9698	38.4957
Orai1	chr5:123015073-123030452	OK	6.48605	6.94145
Pcdhga12	chr18:36930284-37841872	OK	2.14782	2.29839
Fam203a	chr15:76368897-76371411	OK	3.744	4.00619
Ptplad1	chr9:64986982-65021717	OK	123.648	132.299
Slc7a3	chrX:101079220-101085352	OK	2.799	2.99461
D030056L22Rik	chr19:18713235-18718428	OK	11.4173	12.2145
Gnb5	chr9:75306287-75345923	OK	46.1399	49.3599
Dnmt3a	chr12:3806979-3914443	OK	4.43642	4.74585
Ufm1	chr3:53853375-53863807	OK	16.6431	17.8036
Ubxn4	chr1:128244180-128279377	OK	27.1482	29.0408
Tmem136	chr9:43108652-43116570	OK	2.29732	2.45713
AI597479	chr1:43098709-43115946	OK	10.5855	11.3213
Ctif	chr18:75431220-75697696	OK	41.5552	44.4362
Spef2	chr15:9662735-9748806	NOTEST	0.0502637	0.0537329
Zranb1	chr7:132949621-132983951	OK	16.6119	17.7583
Dstn	chr2:143915330-143943324	OK	125.883	134.567
Slc30a6	chr17:74395607-74424229	OK	6.57647	7.02972
Drg1	chr11:3202352-3479831	OK	69.2283	73.9941
Abhd16a	chr17:35089290-35102987	OK	45.2922	48.4085
Spg11	chr2:122028579-122118386	OK	4.71666	5.04108
Neto2	chr8:85636587-85691009	OK	7.66465	8.1918
Hist1h2an	chr13:21786771-21787218	NOTEST	0.080995	0.0865627
Zbtb14	chr17:69383977-69390544	OK	5.66124	6.05019
Brms1	chr19:5041403-5049917	OK	18.3683	19.6283
Rnf170	chr8:26119379-26143869	OK	7.04956	7.53254
Rab35	chr5:115631986-115647158	OK	31.7069	33.8747
Bcmo1	chr8:117095864-117133720	NOTEST	0.210584	0.224979
Larp1	chr11:58009063-58062032	OK	57.9457	61.9026
Memo1	chr17:74200699-74294863	OK	28.7812	30.7453
Chchd4	chr6:91464275-91473423	OK	11.8235	12.6295
Polr2k	chr15:36174009-36177012	OK	4.41114	4.71158

9530082P21Rik	chr17:23749235-23754065	NOTEST	0.499644	0.533636
Lamtor1	chr7:101899807-101911903	OK	36.4217	38.8963
Ctbp1	chr5:33247722-33275004	OK	96.599	103.158
L3mbtl2	chr15:81663888-81697287	OK	8.97142	9.57888
Ppp4c	chr7:126785867-126792471	OK	24.5564	26.2182
Cct5	chr15:31590883-31601804	OK	138.628	147.964
Gm2061	chr1:185447115-185468761	NOTEST	0.0138137	0.0147438
Creb3	chr4:43562633-43587487	OK	36.5772	39.0379
Odc1	chr12:17544872-17551502	OK	7.83208	8.35565
C1qtnf4	chr2:90885785-90890526	OK	1.28149	1.36714
Trem12	chr17:48300037-48312534	NOTEST	0.0620464	0.0661784
Ufl1	chr4:25248585-25281821	OK	7.15752	7.63412
Tor1a	chr2:30960560-30967918	OK	14.0242	14.9566
Sema3c	chr5:17574815-17730267	OK	7.42662	7.91958
Zfp451	chr1:33761540-33814595	OK	10.8269	11.5444
Cep95	chr11:106789251-106818861	OK	1.28104	1.36585
4930432K21Rik	chr8:84148037-84172597	NOTEST	0.67242	0.716903
Minos1	chr4:139101813-139131113	OK	26.7227	28.4831
Ctr9	chr7:111028950-111056377	OK	18.4216	19.6334
4930539M17Rik	chr3:9061963-9071076	NOTEST	0.028194	0.0300475
Capn15	chr17:25959555-25965505	OK	5.81446	6.19612
Klhl15	chrX:94234929-94273515	OK	3.21695	3.42803
Pcsk2os1	chr2:143535475-143816282	OK	0.800829	0.853351
Wdr12	chr1:60076867-60153953	OK	6.34583	6.76192
Dmap1	chr4:117674685-117682225	OK	11.0787	11.8049
Chst8	chr7:34674467-34812711	OK	13.659	14.5535
Tnfrsf18	chr4:156026341-156028891	NOTEST	0.113239	0.120653
Abcf1	chr17:35956818-35969750	OK	25.8446	27.5367
Actr2	chr11:20062303-20112951	OK	132.493	141.159
Wdr5b	chr16:36041189-36042974	OK	1.61795	1.72362
Zfp784	chr7:5034445-5038446	OK	1.34907	1.43718
Pls3	chrX:75785653-75875170	OK	107.678	114.693
Ttc26	chr6:38381523-38427647	OK	1.6172	1.72251
Mnat1	chr12:73123716-73273988	OK	11.2254	11.9562
Polr3gl	chr3:96577873-96594158	OK	8.48844	9.04072
2210013021Rik	chrX:153723553-153741296	OK	61.7765	65.7924
Tdrkh	chr3:94413317-94431499	OK	15.2526	16.2435
Dhx32	chr7:133709332-133881532	OK	12.7179	13.544
Zswim1	chr2:164822685-164826867	OK	7.26717	7.73907
Dnaja1	chr4:40720153-40757885	OK	34.2142	36.4353
Il1r1	chr1:40439648-40465414	NOTEST	0.16143	0.1719
Psm6	chr14:14112184-14120904	OK	79.1826	84.3175
Ptges2	chr2:32395889-32402740	OK	13.1387	13.9907
Klf17	chr4:117756658-117765666	NOTEST	0.0154708	0.0164737
Dhcr7	chr7:143823166-143848410	OK	47.3887	50.4577
AI987944	chr7:41372929-41393379	OK	3.42914	3.65119
Gm5089	chr14:122181693-122451146	NOTEST	0.0437056	0.0465313
Anks3	chr16:4941414-4964237	OK	7.79121	8.29458
Tnik	chr3:28263213-28670585	OK	10.46	11.1355
Insrr	chr3:87796950-87816101	OK	0.770861	0.820633
Zfand1	chr3:10339955-10351301	OK	4.93254	5.25092
Ppp3r2	chr4:49661610-49845769	NOTEST	0.0602336	0.0641208
Ndufv1	chr19:4007498-4012755	OK	103.959	110.667

Bclaf1	chr10:20312468-20342501	OK	20.3698	21.6834
Atad3a	chr4:155740639-155761098	OK	6.05776	6.44675
Prkci	chr3:30995770-31052740	OK	16.7902	17.8652
Ube2i	chr17:25260510-25275528	OK	19.6536	20.9119
Rrp1	chr10:78400361-78413043	OK	104.392	111.064
1700102P08Rik	chr9:108392833-108397767	NOTEST	0.511711	0.544387
Abcc4	chr14:118482691-118706219	OK	6.65334	7.07734
Spryd7	chr14:61534304-61556886	OK	44.8959	47.7563
Arpp19	chr9:75037613-75060313	OK	31.3113	33.3025
Tmem253	chr14:51984832-52020733	NOTEST	0.0878719	0.0934543
Ercc1	chr7:19345070-19359483	OK	12.4702	13.2624
Ube2q2	chr9:55149368-55207529	OK	27.9825	29.7594
Zfp62	chr11:49203499-49218816	OK	6.62144	7.04174
Mlst8	chr17:24473549-24479078	OK	13.2252	14.0641
Nop2	chr6:125131882-125144753	OK	8.19789	8.7176
Anapc7	chr5:122422443-122444911	OK	15.5274	16.5114
Ucn	chr5:30933142-31348845	NOTEST	0.0391705	0.0416515
Fam114a2	chr11:57482989-57518644	OK	28.1661	29.9488
Piezo1	chr8:122476142-122551329	OK	1.24689	1.32576
BC061194	chr2:18699021-18749605	NOTEST	0.482974	0.513436
Otud3	chr4:138895378-138913947	OK	4.53931	4.82491
Kmt2d	chr15:98831668-98871205	OK	5.30124	5.63441
4930404N11Rik	chr10:81357569-81365820	NOTEST	0.0350647	0.0372662
Pef1	chr4:130107555-130128134	OK	70.802	75.2322
Il27ra	chr8:84021473-84042575	NOTEST	0.188076	0.199842
Bola2	chr7:126695999-126696693	OK	80.5298	85.5629
Jade2	chr11:51813455-51857481	OK	7.37312	7.83389
Eif3d	chr15:77958997-77970824	OK	45.7033	48.5575
Mob4	chr1:55131244-55154899	OK	42.1873	44.8214
Sumo1	chr1:59639433-59670834	OK	30.9971	32.9266
Pgd	chr4:149149984-149166707	OK	42.0393	44.6517
Scg5	chr2:113776312-113829091	OK	59.1288	62.8005
Gm5434	chr12:36090378-36091829	NOTEST	0.564716	0.599777
Wdr75	chr1:45795500-45823613	OK	13.4553	14.2906
Pblid2	chr10:63024511-63058812	OK	2.00996	2.13468
Tnfaip1	chr11:78522849-78536260	OK	19.9062	21.141
Foxj3	chr4:119539660-119629119	OK	12.8167	13.6107
Gm11127	chr17:36042960-36058645	NOTEST	0.0461457	0.0490031
Vps29	chr5:122354412-122363287	OK	95.5948	101.508
Hr	chr14:70554055-70573548	OK	5.86608	6.2288
Hsf4	chr8:105269800-105275845	OK	19.6897	20.9063
Arhgap12	chr18:6024449-6136098	OK	18.8751	20.0381
Zdhhc9	chrX:48171970-48208702	OK	33.5736	35.636
Gtf2e2	chr8:33731913-33777173	OK	12.7499	13.5331
Plekhm3	chr1:64789120-64956824	OK	23.9117	25.3798
Ndufaf6	chr4:11051045-11076205	OK	5.97807	6.34509
Slc35a3	chr3:116670797-116712280	OK	11.2946	11.988
Galnt10	chr11:57645441-57787500	OK	7.52487	7.98525
Prdm2	chr4:143107390-143212709	OK	13.9489	14.8008
Nol7	chr13:43398375-43480973	OK	13.5866	14.4158
Snx25	chr8:46033260-46124146	OK	18.8778	20.0296
Akap11	chr14:78492245-78536860	OK	45.6597	48.4442
Timm9	chr12:71111427-71136675	OK	17.7607	18.8438

Psmg3	chr5:139823593-139826843	OK	18.3488	19.4673
Pum1	chr4:130663358-130781565	OK	14.3917	15.2677
Smarce1	chr11:99209047-99231017	OK	6.20384	6.58136
Hnrnpc	chr14:52073379-52104028	OK	46.2345	49.0464
Sfr1	chr19:47731755-47735588	OK	62.9157	66.7394
Rps14	chr18:60774595-60778546	OK	78.1477	82.8881
Ube2d3	chr3:135438758-135467178	OK	96.896	102.772
Gm16287	chr4:139175406-139180655	NOTEST	0.370189	0.392632
Ybx1	chr4:119277326-119294513	OK	20.916	22.1838
Ccnd3	chr17:47505050-47611492	OK	9.02801	9.57515
Emc9	chr14:55578493-55585254	OK	53.5032	56.7452
Nrip1	chr16:76290861-76373049	OK	9.0753	9.62471
Trip12	chr1:84721188-84839304	OK	25.6577	27.2109
Hmgb1	chr5:149047226-149053037	OK	11.5941	12.2938
Mettl23	chr11:116843514-116849740	OK	5.16474	5.47642
Olf917	chr9:38664912-38665842	NOTEST	0.0237025	0.0251289
Larp4	chr15:99970064-100016358	OK	15.2125	16.1279
Zfp777	chr6:48024187-48048114	OK	6.47262	6.86138
Tnpo2	chr8:85036914-85067120	OK	61.0201	64.6845
Sec23b	chr2:144556228-144590753	OK	26.2857	27.8629
Supt3	chr17:44495986-45119284	OK	17.1292	18.1562
Tigit	chr16:43648860-43664184	NOTEST	0.0226709	0.0240298
C130050O18Rik	chr5:139359738-139460534	NOTEST	0.191525	0.202992
Fbxo38	chr18:62504058-62548743	OK	11.0471	11.7075
Thap6	chr5:91948841-91972137	OK	1.01432	1.07492
Reep2	chr18:34840588-34847463	OK	105.306	111.589
1600002H07Rik	chr17:24215055-24220769	OK	3.56371	3.77607
Smim7	chr8:72565197-72571048	OK	34.5305	36.5865
Rad9b	chr5:122325507-122354195	NOTEST	0.69738	0.738854
Nprl2	chr9:107542208-107545706	OK	15.5091	16.4313
Frs2	chr10:117070126-117148474	OK	7.88309	8.35119
Dirc2	chr16:35694902-35769356	OK	22.5504	23.8879
Hist1h2bg	chr13:23571399-23571863	OK	3.8476	4.07556
Ccdc159	chr9:21921008-21935872	OK	3.2577	3.45053
Olf1167	chr2:88148983-88150083	NOTEST	0.0192014	0.020337
Surf1	chr2:26913377-26933511	OK	41.404	43.8499
Ckmt2	chr13:91853386-91876885	NOTEST	0.111901	0.118502
Sec24a	chr11:51692262-51756834	OK	4.67094	4.9462
Rab3gap2	chr1:185204167-185329401	OK	24.4416	25.8819
Fchsd1	chr18:37955558-37969731	OK	5.91526	6.26323
Nudt11	chrX:6047506-6054751	OK	10.7696	11.4018
Hmgxb3	chr18:61131276-61177050	OK	9.12302	9.6584
Hsph1	chr5:149616844-149636315	OK	107.801	114.125
Rcan2	chr17:43801850-44039516	OK	144.972	153.466
Ahsa1	chr12:87266727-87273952	OK	118.375	125.31
Tinagl1	chr4:130165599-130175122	OK	6.54072	6.9239
Pdzd11	chrX:100622905-100625907	OK	41.6488	44.0882
Slc9a7	chrX:20105754-20291764	OK	11.8708	12.5658
Psma2	chr13:14613241-14625673	OK	107.915	114.231
H2-Ke6	chr17:34026032-34028055	OK	13.4732	14.2608
Rusc1	chr3:89083978-89093363	OK	93.2239	98.6674
Slc34a2	chr5:53049352-53071663	NOTEST	0.386435	0.408911
Zbtb22	chr17:33916175-33919325	OK	13.4244	14.2047

Lonp2	chr8:86624042-86716638	OK	36.1242	38.223
Map2k2	chr10:81105946-81124697	OK	30.9037	32.6961
Optn	chr2:5020641-5063938	OK	20.9624	22.1766
Arid1b	chr17:4995073-5347656	OK	7.53841	7.97486
Dnmbp	chr19:43846818-43940198	OK	2.21875	2.34693
Prkacb	chr3:146729578-146812946	OK	97.2008	102.81
Slu7	chr11:43433730-43447981	OK	16.6533	17.6134
BC005624	chr2:30972832-30981941	OK	26.0228	27.5229
Arhgap9	chr10:127321963-127341579	NOTEST	0.225022	0.237994
Tmem130	chr5:144735914-144761578	OK	71.5731	75.6897
Ccl2	chr11:82035576-82037452	OK	2.09036	2.21056
Zfp39	chr11:58888152-58904225	OK	1.07664	1.13854
Fbxo42	chr4:141147921-141204062	OK	9.98557	10.5594
BC068281	chr12:4843302-4856967	OK	3.43308	3.63024
Dusp28	chr1:92906988-92908620	OK	7.71401	8.15693
Cdc42bpa	chr1:179961088-180196020	OK	33.7748	35.714
Skiv2l2	chr13:112800776-112927380	OK	30.1246	31.8532
Anapc2	chr2:25272465-25285916	OK	53.3406	56.4011
Gmeb2	chr2:181251450-181287966	OK	4.16622	4.40521
Klhl26	chr8:70450227-70476943	OK	14.2638	15.0813
EU599041	chr7:43214038-43226842	NOTEST	0.116419	0.123091
Fsd1	chr17:55986510-55996881	OK	27.5983	29.1778
Pvr	chr7:19903577-19921143	OK	4.72687	4.99714
Ticam1	chr17:56269461-56276767	OK	2.70082	2.85504
Sox17	chr1:4490927-4497354	OK	1.94903	2.06032
Gpx3	chr11:54902853-54910382	OK	37.213	39.3376
Pigc	chr1:161942088-161979636	OK	6.58678	6.96269
Plxna4os1	chr6:32144556-32588192	NOTEST	0.0201727	0.0213235
Tbc1d8	chr1:39367850-39478747	OK	6.70467	7.08683
Blcap	chr2:157556361-157566361	OK	31.7815	33.5929
Dync2li1	chr17:84626498-84655564	OK	11.4498	12.1022
Sfxn3	chr19:45047575-45056383	OK	46.9322	49.605
Slc5a4b	chr10:76058620-76111018	NOTEST	0.00891923	0.0094257
Ubxn8	chr8:33599620-33641976	OK	7.72946	8.16816
Trim47	chr11:116105749-116110235	OK	2.00157	2.1146
Fastk	chr5:24441039-24445235	OK	30.3125	32.0239
Polrmt	chr10:79697304-80369637	OK	5.72129	6.04429
Nsmce4a	chr7:130532525-130547381	OK	19.2619	20.3466
Lrit2	chr14:37068048-37073735	NOTEST	0.00667228	0.00704774
Fstl3	chr10:79697304-80369637	OK	3.86122	4.07819
Lad1	chr1:135818597-135833341	NOTEST	0.0123343	0.013027
Eif4a2	chr16:23107467-23127730	OK	303.113	320.126
Btbd2	chr10:80642616-80657071	OK	44.0343	46.5043
Papola	chr12:105784701-105838943	OK	22.6844	23.9545
Lin28a	chr4:134003329-134018816	NOTEST	0.00524827	0.00554189
Mettl10	chr7:132827460-132852647	OK	8.31855	8.78322
Ch25h	chr19:34473783-34475135	OK	1.49058	1.57381
Khynyn	chr14:55884968-55896781	OK	7.08015	7.4753
Cluap1	chr16:3909008-3941147	OK	9.95057	10.5057
Hmga2	chr10:120361274-120476935	NOTEST	0.0086569	0.0091394
Anapc4	chr5:52834134-52866734	OK	40.457	42.7111
Pogz	chr3:94837566-94883567	OK	5.60442	5.91627
Rpl7l1	chr17:46773906-46782656	OK	14.39	15.1894

Itpa	chr2:130667840-130681614	OK	17.1826	18.1367
Wwp2	chr8:107436397-107558595	OK	16.1895	17.0884
Sco2	chr15:89355718-89377037	OK	11.8185	12.4747
Zfp839	chr12:110850278-110869998	OK	2.18148	2.30237
B4galt2	chr4:117872999-117883476	OK	7.72992	8.15778
Smek2	chr11:29172906-29220797	OK	8.81151	9.29885
Gm8221	chr15:77618967-77627398	NOTEST	0.00208956	0.00220496
Zbtb11	chr16:55973267-56008912	OK	10.3836	10.9568
Pcdhb12	chr18:36930284-37841872	OK	1.35319	1.42781
Rhoa	chr9:108306204-108337939	OK	106.455	112.324
Zfp937	chr2:150218098-150244874	OK	1.28718	1.35813
Tbc1d20	chr2:152293871-152312590	OK	13.7699	14.5286
Cyhr1	chr15:76643394-76660208	OK	57.2275	60.3792
Casp8ap2	chr4:32615472-32653265	OK	2.41011	2.54282
Zfp786	chr6:47819265-47830505	NOTEST	0.58896	0.621353
Usp25	chr16:77014068-77116780	OK	25.5137	26.9151
Nup50	chr15:84923427-84942963	OK	11.9018	12.5553
Apex1	chr14:50924948-50930849	OK	20.5866	21.7158
Maea	chr5:33335571-33373294	OK	69.777	73.5944
Wdr83	chr8:85071756-85080746	OK	13.4665	14.2031
Lhcgr	chr17:88741548-88791976	OK	1.25835	1.32714
Wdr61	chr9:54717152-54734549	OK	20.0939	21.1918
Ccnk	chr12:108179737-108203359	OK	7.20616	7.59989
Paip1	chr13:119428599-119460323	OK	17.4156	18.3656
Socs4	chr14:47277142-47291591	OK	7.15159	7.54137
Asb3	chr11:30954397-31102704	OK	6.2061	6.54412
Slc39a3	chr10:81028539-81033912	OK	19.4263	20.4844
Ncf2	chr1:152807889-152836990	NOTEST	0.518428	0.546659
Bdh1	chr16:31422296-31458901	OK	9.1557	9.65371
Mxd4	chr5:34176579-34187710	OK	19.6837	20.7532
Sdhaf1	chr7:30321408-30322375	OK	8.35265	8.80579
I830012O16Rik	chr19:34607956-34613401	OK	3.37474	3.55755
Gins2	chr8:120488865-120589075	OK	1.89523	1.99771
Thap11	chr8:105855102-105856950	OK	8.33449	8.78503
Acsl1	chr8:46471041-46536050	OK	16.0776	16.9466
Mdc1	chr17:35841497-35859670	OK	3.40667	3.59068
Gcc1	chr6:28416602-28421724	OK	7.9857	8.41674
Iqcb1	chr16:36792883-36874826	OK	7.91809	8.34539
Dtnbp1	chr13:44922079-45002096	OK	22.8607	24.093
2810403A07Rik	chr3:88685793-88712933	OK	8.78639	9.25876
Cchcr1	chr17:35517115-35531015	NOTEST	0.631466	0.665382
Prrc2a	chr17:35149085-35164877	OK	43.7591	46.1076
Fancg	chr4:43002336-43010301	OK	5.23608	5.51705
Ccdc178	chr18:21810896-22171396	NOTEST	0.0544275	0.0573475
Dmtf1	chr5:9100736-9161776	OK	12.4836	13.1528
Trappc4	chr9:44403758-44407548	OK	78.8186	83.0361
Rnf123	chr9:108049289-108079375	OK	21.4036	22.5479
Angel1	chr12:86700501-86726460	OK	30.4002	32.0239
Serpib8	chr1:107590005-107608978	OK	4.35027	4.58241
Gemin6	chr17:80224488-80228497	OK	2.53019	2.66518
Fbxl20	chr11:98082553-98149616	OK	12.7447	13.4239
Ebf4	chr2:130295938-130370481	OK	4.36422	4.59668
Zpr1	chr9:46273063-46282642	OK	13.042	13.7352

Usp36	chr11:118259652-118290244	OK	4.19831	4.42112
Stag2	chrX:42149411-42277186	OK	16.3094	17.1729
Krr1	chr10:111972694-111997264	OK	4.87911	5.13723
Nipa2	chr7:55842070-55962493	OK	17.2825	18.1968
Fbxo25	chr8:13907805-13940521	OK	27.2305	28.6702
Milt1	chr17:56892610-56935388	OK	6.73786	7.09368
Clic3	chr2:25456842-25458772	NOTEST	0.388339	0.408809
Tmem170b	chr13:41606215-41641357	OK	4.31767	4.54526
Zfp708	chr13:67069397-67114028	OK	1.52154	1.6017
Ypel4	chr2:84734203-84737877	OK	13.7098	14.432
Mterfd1	chr13:66912097-67032405	OK	7.79708	8.20744
Pias4	chr10:81153965-81167720	OK	14.2447	14.994
Mmd	chr11:90249475-90278573	OK	8.77366	9.2351
Nsd1	chr13:55209781-55318325	OK	14.6746	15.4459
Fmr1	chrX:68678540-68717961	OK	17.7464	18.6791
Ccdc22	chrX:7558561-7605420	OK	7.46782	7.86028
Zfp260	chr7:30095075-30107614	OK	19.5594	20.5864
Ocln	chr13:100497366-100552498	OK	0.933468	0.982481
Ccdc114	chr7:45928397-45948956	NOTEST	0.360724	0.379651
Atp6v0c	chr17:24163864-24169429	OK	54.1609	57.0016
Cry2	chr2:92403646-92434069	OK	28.1576	29.6303
Tgds	chr14:118111910-118132765	OK	1.75595	1.84778
Tssk1	chr16:17894202-17895653	NOTEST	0.0809928	0.0852178
Upf2	chr2:5951468-6056703	OK	6.19547	6.51834
Eif4h	chr5:134619875-134639328	OK	151.374	159.253
Naa60	chr16:3884618-3904781	OK	30.8702	32.4749
Nfe2l1	chr11:96817413-96829968	OK	194.306	204.405
Zfp11	chr19:6080037-6084891	OK	12.1514	12.7821
Zfp407	chr18:84207701-84589504	OK	3.0268	3.18345
Pla2g4c	chr7:13325666-13360668	NOTEST	0.156278	0.164364
Mamdc4	chr2:25563114-25571316	NOTEST	0.0967454	0.101749
Pianp	chr6:124996719-125003097	OK	9.75732	10.2608
1200014J11Rik	chr11:73047866-73083579	OK	4.83575	5.08505
Fam204a	chr19:60198585-60226697	OK	9.75737	10.2583
Dsn1	chr2:156995061-157007075	OK	1.1139	1.17102
Zfp507	chr7:35772345-35838074	OK	4.55882	4.79246
Zc3h12c	chr9:52111984-52168111	OK	2.7155	2.85467
Gart	chr16:91621396-91646972	OK	15.496	16.2896
Letm1	chr5:33741351-33782704	OK	28.5827	30.0461
Gatsl2	chr5:134099747-134141758	OK	12.0556	12.6725
Copb1	chr7:114215558-114254680	OK	31.8592	33.4892
Rnf181	chr6:72355482-72362381	OK	56.0448	58.9117
Taf9	chr13:100651342-100666415	OK	46.7851	49.1737
Hyou1	chr9:44379489-44392369	OK	27.6181	29.0266
Mars	chr10:127290792-127311786	OK	13.8422	14.5481
Zcchc4	chr5:52783066-52819765	OK	3.70444	3.89279
Med12	chrX:101274090-101298934	OK	4.37461	4.59688
4933426M11Rik	chr12:80790531-80880833	OK	40.3811	42.4324
Fopnl	chr16:14299243-14317332	OK	29.8904	31.4084
Tfb1m	chr17:3326572-3557713	OK	9.39491	9.87033
Rab8a	chr8:72161199-72181366	OK	17.2682	18.142
Vps9d1	chr8:123232257-123254175	OK	10.5355	11.0684
2810429I04Rik	chr13:3478302-3492398	NOTEST	0.28535	0.299768

Gne	chr4:44034074-44084177	OK	19.3012	20.2744
Gabra1	chr11:42130939-42182930	OK	22.3333	23.4584
Map3k8	chr18:4331326-4352953	NOTEST	0.48803	0.512588
Ccpg1	chr9:72985503-73039699	OK	69.23	72.7116
Zbed6	chr1:133619870-133661399	OK	5.7388	6.02726
Nfx1	chr4:40970905-41025992	OK	12.5829	13.215
Mien1	chr11:98412483-98438988	OK	97.807	102.716
Tmed5	chr5:108121646-108132591	OK	11.3678	11.9375
Ccdc93	chr1:121431066-121506460	OK	6.22542	6.53724
Rhou	chr8:123653928-123663880	OK	21.1459	22.2047
Klhl1	chr14:96105264-96519034	NOTEST	0.459794	0.482778
Exosc8	chr3:54728678-54735364	OK	5.3274	5.59339
Mrpl19	chr6:81923668-81965949	OK	6.83757	7.17891
Gsto1	chr19:47854988-47864788	OK	28.0207	29.4184
2210018M11Rik	chr7:98590605-98656569	OK	4.72064	4.95608
Orc3	chr4:34550614-34614942	OK	7.43148	7.80154
Fam213a	chr14:40993739-41013775	OK	34.6214	36.344
Timm44	chr8:4259730-4275905	OK	15.2652	16.0245
Stx12	chr4:132854063-132884458	OK	91.3475	95.8754
Ecd	chr14:20319858-20348121	OK	16.7375	17.5661
Alpk1	chr3:127670309-127780527	OK	1.64757	1.72912
Mon1b	chr8:113635585-113655533	OK	10.7628	11.2945
Med9	chr11:59948213-59964942	OK	23.9606	25.1426
Jmjd4	chr11:59450044-59458567	OK	7.02704	7.37338
Cnot11	chr1:39535801-39546877	OK	9.63079	10.1029
Ybey	chr10:76449080-76515857	OK	0.865819	0.908167
Kptn	chr7:16119875-16127516	OK	5.72601	6.00553
Gm6682	chr12:4782169-4783512	OK	51.2888	53.7899
Miip	chr4:147860777-147868719	OK	2.77143	2.90637
Camsap1	chr2:25926837-25983282	OK	13.6715	14.3361
Trim41	chr11:48806403-48817391	OK	11.0923	11.6309
Strip2	chr6:29917012-29959680	OK	3.92944	4.11922
AU019823	chr9:50603900-50625000	OK	2.10271	2.20415
Tmem183a	chr1:134346096-134361999	OK	32.5347	34.1039
Wdr60	chr12:116207049-116263025	OK	2.64535	2.7729
Zfp759	chr13:67128227-67141787	OK	1.64763	1.72703
Ddx60	chr8:61928088-62037695	OK	0.83176	0.871744
Adamts15	chr9:30899154-30922452	OK	4.65633	4.88007
Rgp1	chr4:43562633-43587487	OK	8.33591	8.73618
Fam175b	chr7:132859224-132885114	OK	17.1455	17.9672
Zfp790	chr7:29816071-29832042	OK	4.61841	4.83971
Map4k1	chr7:28982853-29003278	NOTEST	0.658209	0.689713
Ing4	chr6:125039847-125049264	OK	13.5457	14.1919
1300002E11Rik	chr16:21794346-21809039	OK	5.5275	5.78999
Aimp2	chr5:143871861-143909839	OK	24.5179	25.6816
Ncoa6	chr2:155390655-155440783	OK	7.52222	7.87925
Lrp10	chr14:54464146-54470291	OK	55.2895	57.9019
Cln5	chr14:103070215-103077630	OK	16.6882	17.4762
Commd10	chr18:46958875-47087994	OK	12.4303	13.017
Smyd5	chr6:85431975-85446429	OK	14.8096	15.5086
Ccdc104	chr11:29221535-29247272	OK	52.7705	55.2509
Ppil3	chr1:58430992-58445486	OK	19.917	20.8527
Arf5	chr6:28423639-28426499	OK	112.163	117.432

Ube2w	chr1:16540787-16619338	OK	20.5938	21.5611
Gemin8	chrX:166170479-166190512	OK	1.85678	1.94395
Dhx57	chr17:80238303-80297476	OK	20.9019	21.8828
Dync1li2	chr8:104417673-104443047	OK	134.56	140.874
Cmtm4	chr8:104348192-104395807	OK	12.3184	12.8954
Zcchc10	chr11:53324688-53333301	OK	6.98127	7.30709
Lars	chr18:42202348-42262071	OK	23.3871	24.4776
Dynlt3	chrX:9654269-9662983	OK	217.323	227.447
Zfp873	chr10:82048126-82061586	OK	1.04272	1.09127
Heatr2	chr5:139150222-139186505	OK	3.17029	3.31742
Gsk3a	chr7:25228258-25237851	OK	50.4889	52.8259
Tomm6	chr17:47686644-47694736	OK	78.1142	81.7288
Poglut1	chr16:38525179-38550184	OK	31.2545	32.7001
Hars2	chr18:36783279-36792560	OK	6.61066	6.91623
Hbs1l	chr10:21295978-21368889	OK	27.0958	28.3476
Khsrp	chr17:57021048-57031507	OK	18.5939	19.4527
2700046G09Rik	chr19:32389215-32391184	NOTEST	0.726046	0.75953
Trim24	chr6:37870810-37968445	OK	5.29249	5.53638
Ndor1	chr2:25244812-25255414	OK	5.47776	5.73
Hcfc1	chrX:73942791-73966357	OK	19.612	20.5139
A430033K04Rik	chr5:138622858-138648905	OK	1.57286	1.64507
1810022K09Rik	chr3:14578670-14611256	OK	9.73903	10.1849
6030458C11Rik	chr15:12808176-12824657	OK	12.6149	13.1912
Chmp1a	chr8:123204260-123212788	OK	51.8635	54.2322
Gm14057	chr2:130707852-130840110	OK	0.840892	0.879265
Ndufa2	chr18:36735069-36744587	OK	86.0619	89.9852
1110058L19Rik	chr1:23995938-24005640	OK	30.6434	32.0378
Kbtbd11	chr8:15011024-15033332	OK	20.8381	21.7859
Astn1	chr1:158362303-158691786	OK	23.9361	25.0231
Arih2	chr9:108602942-108649380	OK	8.70864	9.10391
Chordc1	chr9:18292266-18314000	OK	38.3248	40.0636
Reep1	chr6:71707680-71810705	OK	222.398	232.392
Shfm1	chr6:6558274-6578658	OK	164.344	171.723
Hnrnpa0	chr13:58125878-58128556	OK	56.001	58.5148
Lin7a	chr10:107271830-107425143	OK	12.6269	13.1936
Fbxo46	chr7:19119858-19138261	OK	1.9601	2.04796
Msl2	chr9:101074761-101104799	OK	9.08195	9.48882
Zfp960	chr17:17064102-17089631	OK	0.898589	0.938702
Asns	chr6:7675170-7693182	OK	90.8566	94.9059
Polr2j	chr5:136116690-136122947	OK	37.5403	39.2096
B020018J22Rik	chr12:112428283-112435338	NOTEST	0.0187609	0.0195935
A230072E10Rik	chrX:151198077-151341879	NOTEST	0.0415962	0.0434403
Dusp7	chr9:106368631-106375723	OK	6.78851	7.08912
Kctd20	chr17:28953215-28967937	OK	25.6836	26.8167
Sirt5	chr13:43370715-43395203	OK	5.5038	5.74654
Cap1	chr4:122859227-122885881	OK	139.829	145.99
Uba6	chr5:86110729-86172743	OK	18.4295	19.241
Terf2ip	chr8:112011358-112020528	OK	14.4624	15.0987
Tollip	chr7:141881584-141902406	OK	64.383	67.2147
Clip1	chr5:123577793-123684361	OK	12.5075	13.0573
Khdrbs1	chr4:129703168-129742303	OK	34.8129	36.3429
Uqcr11	chr10:80402996-80406821	OK	63.8828	66.6859
Syvn1	chr19:6046575-6057751	OK	20.4412	21.3372

St8sia3	chr18:64157723-64277180	OK	29.5698	30.8641
Dak	chr19:10592196-10604258	OK	5.45697	5.69573
Larp4b	chr13:9093904-9173090	OK	27.7621	28.9761
Aptx	chr4:40682077-40703194	OK	7.52633	7.85531
Gars	chr6:55038000-55079504	OK	144.819	151.141
MIxip	chr5:123394797-123457931	OK	7.2395	7.55543
Lcmt1	chr7:123377981-123430358	OK	34.7916	36.3086
Nmrk1	chr19:18632015-18652184	OK	4.47175	4.66663
Cct7	chr6:85446784-85468477	OK	113.679	118.629
Ipo7	chr7:110018424-110055114	OK	33.405	34.8577
Tmub2	chr11:102284960-102296629	OK	36.4143	37.9975
Ptpra	chr2:130450277-130563749	OK	51.1967	53.4222
Rab11fip2	chr19:59902883-59943654	OK	12.3159	12.8513
Map3k7	chr4:31964106-32023466	OK	10.0888	10.5274
Samd4b	chr7:28399521-28436191	OK	15.6311	16.3098
Nsun5	chr5:135369952-135394546	OK	4.08323	4.26046
Dcaf7	chr11:106036871-106059323	OK	36.7535	38.3472
Tada2a	chr11:84078919-84129568	OK	6.68729	6.97654
Gabarapl2	chr8:111940702-111952915	OK	49.1482	51.2711
Naa30	chr14:49172226-49191031	OK	12.4908	13.03
Hoxc6	chr15:103009561-103011881	OK	3.37862	3.52416
Ift20	chr11:78536435-78541473	OK	37.8152	39.4379
Bub3	chr7:131560390-131571898	OK	36.14	37.6893
Gaa	chr11:119267966-119285698	OK	98.5422	102.762
Gnptg	chr17:25188399-25240116	OK	26.5897	27.728
Ing2	chr8:47667177-47675159	OK	2.84227	2.96375
Otud6b	chr4:14809504-14826587	OK	25.6834	26.7796
Mid1ip1	chrX:10717364-10719702	OK	110.857	115.588
Hist2h3c1,Hist2h3c	chr3:96246684-96247348	NOTEST	0.00110283	0.00114989
Tnnt1	chr7:4504569-4515975	NOTEST	0.170022	0.177266
Foxk2	chr11:121259986-121309896	OK	14.7579	15.3848
Pop7	chr5:137501438-137502429	OK	15.2449	15.892
Sfmbt1	chr14:30714848-30822721	OK	5.42444	5.65454
Zbtb45	chr7:13005665-13009800	OK	6.47143	6.74539
Mprp	chr11:59662494-59780860	OK	31.2986	32.6181
Zscan22	chr7:12897808-12909083	OK	2.17647	2.26805
Ankrd13c	chr3:157947465-158006837	OK	15.6965	16.3568
Mat2a	chr6:72432798-72440615	OK	66.3219	69.1101
Arpc5l	chr2:39008138-39015872	OK	38.8881	40.5224
Ankrd11	chr8:122883821-123042284	OK	18.2191	18.9829
Dap3	chr3:88920802-88950282	OK	13.8414	14.4213
Gspt2	chrX:94636068-94638561	OK	9.21155	9.59617
Zscan25	chr5:145283342-145291469	OK	5.1798	5.39598
Ankle2	chr5:110231003-110256651	OK	7.71143	8.03273
Smdt1	chr15:82346045-82349062	OK	176.666	184.026
1810026J23Rik	chr9:21546893-21595970	OK	21.8511	22.7597
36219	chr18:56761715-56925548	OK	1.49183	1.55386
Cyp4f13	chr17:32924687-32947361	OK	5.28453	5.50386
Tmem258	chr19:10204201-10207824	OK	89.0909	92.7864
Pfas	chr11:68985700-69008460	OK	2.82656	2.94327
Cnot10	chr9:114585873-114640200	OK	11.0134	11.4661
Dctn5	chr7:122133040-122149044	OK	92.4697	96.2662
Naa15	chr3:51416015-51475985	OK	17.9816	18.7187

Abhd17b	chr19:21653308-21685637	OK	27.9726	29.119
Timm17b	chrX:7899397-7907652	OK	9.55045	9.94139
Smarca4	chr9:21616168-21704230	OK	28.0319	29.1793
Ehd1	chr19:6276895-6300096	OK	16.4662	17.14
Nostrin	chr2:69135799-69189329	OK	1.1377	1.18418
Commd4	chr9:57155040-57158299	OK	34.6469	36.0612
Plaa	chr4:94565138-94603247	OK	19.0098	19.7854
Ubqln2	chrX:153498231-153501558	OK	55.8523	58.1267
Entpd3	chr9:120539817-120568326	OK	53.5339	55.7134
Gm7534	chr4:134190803-134203004	NOTEST	0.63337	0.659145
Noa1	chr5:77294168-77310086	OK	10.1758	10.5888
Snrpg	chr6:86371539-86378902	OK	1.85249	1.9275
Ptp4a1	chr1:30940302-30949755	OK	3.94119	4.10066
Comt	chr16:18348181-18479073	OK	30.8712	32.1198
Tmem115	chr9:107533944-107538656	OK	15.0505	15.6585
Atp9a	chr2:168634437-168742136	OK	192.64	200.419
Ppp1r3f	chrX:7558561-7605420	OK	7.18783	7.47743
Polr3f	chr2:144527744-144541779	OK	5.21096	5.42072
Hps4	chr5:112343094-112378424	OK	5.61655	5.84156
Mettl22	chr16:8470812-8490197	OK	11.4272	11.8834
Socs6	chr18:88867879-88894207	OK	3.57224	3.71473
Slc35f2	chr9:53771534-53818161	OK	4.33449	4.50697
Asphd1	chr7:126946007-126949581	OK	11.9296	12.4038
Tmem11	chr11:60864451-60879038	OK	16.2171	16.8616
Cep162	chr9:87191962-87255532	OK	1.96191	2.03979
Cdk11b	chr4:155624868-155649932	OK	22.8459	23.7504
Sphk2	chr7:45705246-45718002	OK	16.1332	16.771
LOC106740	chr17:14943183-14961260	OK	7.67413	7.97733
Unc119b	chr5:115122565-115134975	OK	10.8559	11.2842
Ankfy1	chr11:72690001-72772146	OK	15.6797	16.2982
Adsl	chr15:80948489-80970947	OK	9.41971	9.79123
Utp20	chr10:88746606-88826814	OK	3.95549	4.11129
Gna12	chr5:140759943-140830431	OK	35.0703	36.4508
Glrx2	chr1:143739348-143749678	OK	13.6987	14.2371
Nmrk2	chr10:81194690-81230779	NOTEST	0.0511358	0.0531374
Wdr20	chr12:110737948-110795028	OK	5.32203	5.53011
Cdk5rap3	chr11:96907785-96916481	OK	10.8639	11.2886
Elp6	chr9:110305191-110322102	OK	5.70402	5.92685
Nup188	chr2:30286432-30344262	OK	3.09272	3.21328
Ccdc113	chr8:95534099-95558888	NOTEST	0.20807	0.216165
Map3k9	chr12:81714949-81781170	OK	18.6162	19.3391
Usp46	chr5:74000037-74068411	OK	33.9137	35.2297
H2-T10	chr17:36115870-36121444	NOTEST	0.131193	0.136276
Gm6194	chr3:8461386-8463098	OK	1.62763	1.69067
5730507C01Rik	chr12:18514509-18535254	NOTEST	0.261683	0.271811
Crym	chr7:120186383-120201988	OK	5.17249	5.37266
Rab4b	chr7:27168432-27178883	OK	86.7858	90.1436
Cntn2	chr1:132509424-132542940	OK	40.2535	41.8108
Prpf4	chr4:62408782-62426990	OK	4.1412	4.30131
1810044D09Rik	chr6:91440986-91441755	OK	1.45	1.50602
Nom1	chr5:29434666-29452169	OK	10.4273	10.83
Zfp385b	chr2:77410626-77816816	OK	16.6272	17.2683
Klhl42	chr6:147091074-147112778	OK	6.06949	6.30328

Ciapi1	chr8:94819817-94838340	OK	15.1033	15.6843
Med24	chr11:98704590-98729435	OK	16.7904	17.4356
Tomm7	chr5:23787743-24161231	OK	39.4519	40.9675
Prkar1a	chr11:109650948-109669648	OK	417.443	433.47
Amd2	chr10:40287457-40302188	LOWDAT	11.7133	12.1628
Clasp2	chr9:113741472-113919697	OK	69.269	74.0859
Dnttip2	chr3:122274413-122285271	OK	10.2752	10.6687
Ccng2	chr5:93267572-93276231	OK	14.0618	14.5997
Ppdf	chr2:181187342-181188504	OK	25.5886	26.5624
Phf20	chr2:156196646-156309953	OK	23.1435	24.0237
Bbip1	chr19:53892230-54033278	OK	10.303	10.6945
Zfp213	chr17:23556766-23564226	OK	2.42483	2.5169
Gm5127	chrX:106576508-106710557	NOTEST	0.133578	0.138645
Cep131	chr11:120064429-120086827	OK	3.44745	3.57814
Poli	chr18:70508679-70530321	OK	2.59499	2.69308
Kbtbd2	chr6:56777524-56797813	OK	34.8477	36.1637
Kctd2	chr11:115420125-115431274	OK	44.3716	46.0467
A330041J22Rik	chr9:86581362-86701253	NOTEST	0.422732	0.438682
4931414P19Rik	chr14:54583662-54605908	OK	1.51605	1.5732
Mon1a	chr9:107888128-107903139	OK	13.694	14.2101
A330102I10Rik	chr13:29014413-29040336	OK	4.54266	4.71379
Panx2	chr15:89059725-89070907	OK	26.3385	27.33
Coq10a	chr10:128363096-128370037	OK	11.8475	12.2934
Trp53i13	chr11:77508098-77513273	OK	6.4155	6.65672
Npy4r	chr14:34145645-34152419	NOTEST	0.122311	0.126901
Cnep1r1	chr8:88118758-88135197	OK	18.5845	19.2817
Hmga1-rs1	chr17:27556573-27563672	LOWDAT	1.99049	2.065
Porcn	chrX:8193849-8206525	OK	17.4569	18.1096
Wdr16	chr11:67924805-67965642	NOTEST	0.58638	0.608297
Aasdhpt	chr9:4294792-4309494	OK	13.3787	13.8786
Dpagt1	chr9:44326844-44333600	OK	17.913	18.5814
Amer3	chr1:34579692-34590944	OK	8.3147	8.62482
Zfp426	chr9:20468548-20492746	OK	11.0789	11.4915
Tspyl1	chr10:34282189-34284885	OK	94.4963	98.0054
1600012H06Rik	chr17:14943183-14961260	OK	13.4937	13.9937
Mief1	chr15:80234079-80253371	OK	11.8109	12.2474
Rasl11a	chr5:146845070-146847726	OK	2.1511	2.23055
Morf4l1	chr9:90091668-90114820	OK	19.7517	20.4794
Lats1	chr10:7681208-7716461	OK	6.98571	7.24144
Bmx	chrX:164192841-164258193	OK	0.911841	0.945199
Cggbp1	chr16:64852084-64859491	OK	17.5281	18.1677
Mcts1	chrX:38600657-38613522	OK	48.1457	49.8962
Adal	chr2:121137291-121156680	OK	8.09156	8.38569
Rsrc1	chr3:66985671-67358403	OK	17.0681	17.688
Gatc	chr5:115333241-115341161	OK	12.417	12.8676
Ngrn	chr7:80261214-80265378	OK	23.4851	24.3372
Tmem167b	chr3:108556424-108562466	OK	29.8652	30.9478
Ehbp1	chr11:22005825-22286795	OK	19.1789	19.8728
Ino80e	chr7:126847552-126861463	OK	14.0747	14.5809
Kmt2c	chr5:25271793-25498783	OK	5.49032	5.68781
Wasl	chr6:24613809-24664995	OK	49.3581	51.1328
A730017L22Rik	chr2:130872540-130906396	OK	1.179	1.22131
Sesn1	chr10:41810573-41908436	OK	18.3157	18.9721

Wdr47	chr3:108591277-108645719	OK	37.0092	38.3329
Tmem145	chr7:25306107-25316195	OK	3.89896	4.03834
Tmem231	chr8:111912017-111933791	OK	8.18483	8.47736
Zfp658	chr7:43562369-43575461	OK	1.31781	1.36476
Dapp1	chr3:137931005-137981549	NOTEST	0.208998	0.216435
Klhl28	chr12:64942439-64965536	OK	10.202	10.5641
2310035C23Rik	chr1:105663860-105755131	OK	20.0678	20.7797
Pcm1	chr8:41239758-41334087	OK	16.3242	16.9025
Zfp558	chr9:18454053-18473559	NOTEST	0.757568	0.784379
9130019O22Rik	chr7:127382259-127387166	OK	0.946624	0.980114
Mob2	chr7:142008552-142061034	OK	29.6308	30.6784
Hddc2	chr10:31313404-31328086	OK	15.773	16.3302
Gemin7	chr7:19564948-19573343	OK	38.2584	39.6063
Fbxo45	chr16:32230111-32247025	OK	27.3826	28.344
Ccdc71l	chr12:32378788-32382943	OK	3.78235	3.91508
Rragb	chrX:153139957-153171943	OK	25.3893	26.2791
Cops7a	chr6:124958410-124965529	OK	55.009	56.9354
Ahrr	chr13:74211117-74292309	NOTEST	0.665325	0.688609
Ovca2	chr11:75175942-75190483	OK	8.98266	9.29686
Pdap1	chr5:145128769-145140089	OK	31.1639	32.2521
Glce	chr9:62057248-62070606	OK	18.6452	19.2955
Gpalpp1	chr14:76086231-76110815	OK	11.3743	11.7702
2310034O05Rik	chr5:100210691-100218049	NOTEST	0.338789	0.350581
Det1	chr7:78827473-78847211	OK	2.36108	2.44324
Ap4b1	chr3:103193822-103854618	OK	10.7455	11.1168
Lancl2	chr6:57702454-57739449	OK	20.9627	21.6868
AI854703	chr6:48628166-48633688	OK	5.40361	5.59025
Vps16	chr2:130417683-130444269	OK	16.8646	17.4444
Phf5a	chr15:81864515-81871892	OK	18.9461	19.5955
Unc5b	chr10:60762594-60831581	OK	2.90298	3.00235
Arhgap4	chrX:73892101-73911298	NOTEST	0.466126	0.482043
BC003965	chr17:25184560-25187662	OK	7.48632	7.74195
Sec31b	chr19:44516956-44545848	NOTEST	0.216176	0.223556
Ppp2r1b	chr9:50856923-51009073	OK	1.49097	1.54187
Rdx	chr9:52002060-52088738	OK	40.5286	41.9111
Myzap	chr9:71504346-71592360	NOTEST	0.56255	0.581725
Cltb	chr13:54592938-54611272	OK	124.615	128.856
Zpbp	chr11:11280039-11462419	NOTEST	0.451398	0.466757
Ugp2	chr11:21239031-21371267	OK	53.1163	54.923
Bnip1	chr17:26781078-26792521	OK	13.5905	14.0525
Golph3l	chr3:95588933-95619247	OK	9.31743	9.63396
Clcn7	chr17:25133393-25162099	OK	13.3841	13.8387
Tcea2	chr2:181680309-181688051	OK	18.178	18.7924
Tmem86a	chr7:47050639-47054776	OK	12.6623	13.0886
9830147E19Rik	chr7:42609525-42642604	NOTEST	0.697862	0.721353
A230065H16Rik	chr12:111406808-111412077	NOTEST	0.144882	0.149754
Rabepk	chr2:34778665-34799912	OK	8.4969	8.78244
Prps1	chrX:140456602-140476140	OK	25.6172	26.4779
Mapk1ip1l	chr14:47298313-47323091	OK	17.6379	18.2305
Lemd3	chr10:120923410-120979330	OK	7.63595	7.892
Fabp5	chr3:10012584-10016610	OK	42.4152	43.8305
Gde1	chr7:118688557-118705738	OK	122.807	126.899
Cog7	chr7:121922838-121981693	OK	18.6778	19.2998

Ncln	chr10:81486458-81496363	OK	14.7554	15.2462
Fbf1	chr11:116142284-116168178	OK	4.76521	4.92361
Mrpl43	chr19:45005013-45006442	OK	30.4764	31.4868
Golga5	chr12:102469133-102497907	OK	11.544	11.9253
Clcn1	chr6:42286684-42314656	NOTEST	0.0589223	0.0608668
Thumpd2	chr17:81026326-81065085	OK	1.09369	1.12974
Kcmf1	chr6:72841113-72899979	OK	31.2278	32.2566
E130309D02Rik	chr5:143301071-143315360	OK	7.7798	8.0352
Hif1a	chr12:73907866-73947530	OK	27.5926	28.4976
Stxbp5	chr10:9755546-9901040	OK	10.3174	10.6551
Tiprl	chr1:165212285-165236958	OK	12.8274	13.2471
Ciao1	chr2:127240937-127247816	OK	19.5831	20.2238
Dzip1	chr14:118875519-118923167	OK	3.07075	3.1707
Zfp142	chr1:74409383-74588028	OK	3.33241	3.44071
Med23	chr10:24869985-24913529	OK	5.6789	5.86305
4930402H24Rik	chr2:130707852-130840110	OK	9.27244	9.57209
Vva3a	chr7:120739556-120805540	NOTEST	0.15275	0.157686
D17Wsu92e	chr17:27751231-27820542	OK	62.8709	64.9015
Timm50	chr7:28305825-28312046	OK	18.9316	19.5427
Fkrp	chr7:16809266-16840931	OK	13.8799	14.3267
Kcnn2	chr18:45560153-46045260	OK	5.98772	6.18019
St7	chr6:17693993-17943023	OK	5.27364	5.44316
Pa2g4	chr10:128557765-128565934	OK	19.2401	19.8584
Sass6	chr3:116562972-116630986	OK	2.59173	2.67464
Slc25a51	chr4:45395923-45408766	OK	39.5687	40.8341
Mira	chr6:52214491-52215288	OK	21.107	21.7811
Dbr1	chr9:99575798-99584343	OK	3.06035	3.15714
Inpp5a	chr7:139389108-139582797	OK	8.86976	9.14988
Mbd1	chr18:74268287-74282684	OK	9.03066	9.3146
Mapt	chr11:104231435-104332089	OK	131.256	135.373
Rnasek	chr11:70238122-70239852	OK	317.977	327.921
Gtf2h2	chr13:100468576-100492609	OK	11.1822	11.5297
Pddc1	chr7:141408183-141414125	OK	25.4789	26.2706
Npcd	chr15:79786350-79834333	OK	27.0707	27.9097
Map4	chr9:109931773-110083954	OK	210.197	216.685
Slc25a40	chr5:8422837-8454839	OK	6.11835	6.30716
Bop1	chr15:76380512-76477269	OK	17.1847	17.7131
Ddx10	chr9:53098453-53248112	OK	11.9739	12.3419
St3gal1	chr15:67102874-67176882	OK	3.52862	3.63637
D930048N14Rik	chr11:51643088-51657681	NOTEST	0.262971	0.270997
Ndufaf4	chr4:24898082-24905001	OK	6.49986	6.69801
Gdi2	chr13:3538074-3611108	OK	206.248	212.526
Baz2a	chr10:128092782-128129303	OK	9.88633	10.1863
Tekt4	chr17:25471589-25476594	NOTEST	0.146261	0.150693
Gnl3l	chrX:150983132-151017322	OK	72.1383	74.3221
Slc11a2	chr15:100387899-100423055	OK	10.1833	10.4914
Mcur1	chr13:43538405-43560191	OK	5.94602	6.12586
Ddrgk1	chr2:130654082-130664645	OK	39.2756	40.462
Trim12c	chr7:104338753-104353358	OK	2.72681	2.80902
Zbtb49	chr5:38200043-38220428	OK	1.34681	1.38732
Fam49b	chr15:63929093-64060448	OK	15.5258	15.9928
Pno1	chr11:17203199-17211589	OK	19.4771	20.0594
Ftsj3	chr11:106249143-106255802	OK	10.0538	10.354

F8	chrX:75172714-75380041	OK	1.46971	1.51329
Peli1	chr11:21091323-21150327	OK	9.4538	9.73373
Nmt1	chr11:103028561-103066105	OK	72.0132	74.1416
Harbi1	chr2:91710949-91721566	OK	3.38898	3.4891
Trrap	chr5:144768791-144859773	OK	11.5803	11.9209
Mon2	chr10:122992060-123076505	OK	11.3419	11.6755
Hcfc1r1	chr17:23660522-23677449	OK	68.2328	70.2386
Mrps11	chr7:78783130-78792988	OK	16.795	17.2875
Mboat4	chr8:34115029-34125185	NOTEST	0.23067	0.23743
Fbxl18	chr5:142871788-142895238	OK	4.05029	4.16896
Tasp1	chr2:139833478-140066805	OK	7.77121	7.99809
Mrpl24	chr3:87919543-87930195	OK	23.6483	24.3368
Ttc9b	chr7:27653923-27656207	OK	45.8953	47.2308
Hmg20b	chr10:81346045-81350457	OK	15.3399	15.7854
Erv3	chr2:131853677-131859747	NOTEST	0.0175301	0.0180392
Imp4	chr1:34439828-34445747	OK	5.12694	5.27512
Zw10	chr9:49055580-49078773	OK	6.51253	6.70072
Atg2a	chr19:6241667-6262304	OK	9.45346	9.72623
Fam13b	chr18:34409422-34506823	OK	34.5763	35.5729
Rbm27	chr18:42275352-42341540	OK	5.70623	5.87054
Cstf2	chrX:134059175-134111854	OK	15.6031	16.0521
Vps53	chr11:76046225-76179630	OK	34.8932	35.8901
Ylpm1	chr12:84996320-85070515	OK	11.234	11.5547
Psmg2	chr18:67641598-67654162	OK	19.2211	19.7689
Vstm2l	chr2:157914652-157944719	OK	43.6932	44.9365
Gm10825	chr10:22402812-22407470	NOTEST	0.00812477	0.00835593
Fdxr	chr11:115268024-115276969	OK	4.7672	4.90246
Ppp2r3c	chr12:55280813-55492647	OK	9.2019	9.46251
Zbtb41	chr1:139422382-139453007	OK	5.6867	5.84772
Parp1	chr1:180568974-180601254	OK	40.7463	41.8994
Gm11747	chr11:118428456-118454995	NOTEST	0.0244967	0.0251898
Ficd	chr5:113735781-113740607	OK	5.42683	5.58036
Ccdc15	chr9:37275834-37348392	NOTEST	0.678157	0.697334
4930519F09Rik	chr10:28921962-28923507	NOTEST	0.026385	0.0271311
Ik	chr18:36744655-36757639	OK	59.3646	61.0416
Cops4	chr5:100518308-100547802	OK	52.4226	53.9009
Gpr156	chr16:37916495-38007529	OK	1.85886	1.91105
Tpd52l2	chr2:181497141-181517962	OK	23.8487	24.5179
Rnf34	chr5:122850187-122868945	OK	20.6135	21.1909
Ndufs6	chr13:73319875-73328482	OK	71.7485	73.7579
Gpr98	chr13:81095067-81633144	NOTEST	0.0239511	0.0246214
Zfml	chr6:83914352-83986871	OK	16.4391	16.8944
Slc2a6	chr2:27021364-27027998	OK	23.3918	24.0388
Cyp46a1	chr12:108334380-108362234	OK	7.10134	7.29769
Sugp2	chr8:70220192-70263105	OK	14.7454	15.1521
Sirt4	chr5:115478009-115484484	OK	3.4704	3.56565
Api5	chr2:94411726-94438147	OK	24.0287	24.6869
Unc5a	chr13:54949431-55021385	OK	3.84241	3.94763
Stau1	chr2:166947548-166996299	OK	26.837	27.5701
Cyld	chr8:88697027-88751946	OK	9.92162	10.1921
Atf1	chr15:100227858-100261248	OK	2.99507	3.07668
Snd1	chr6:28480347-28888832	OK	32.4788	33.3637
Pcdhb4	chr18:36930284-37841872	OK	1.48715	1.52754

Tomm40	chr7:19701312-19715429	OK	42.3277	43.4762
Pnrc1	chr4:33245422-33248787	OK	26.9496	27.6808
Klhdc3	chr17:46674550-46705002	OK	51.0673	52.4519
Rsl1	chr13:67173181-67183498	NOTEST	0.801039	0.822743
Csk	chr9:57626645-57645180	OK	42.8631	44.0234
Ap2s1	chr7:16738443-16749290	OK	158.433	162.716
Atp6v0d1	chr8:105524469-105566040	OK	173.158	177.825
Pfkm	chr15:98038743-98132447	OK	117.466	120.623
S1pr5	chr9:21242916-21248443	NOTEST	0.147678	0.151638
Cgrf1	chr14:46832243-46854190	OK	15.2922	15.7016
Arxes2	chrX:135993819-135995359	OK	24.9756	25.6427
Ctps2	chrX:162407199-163352564	OK	11.61	11.92
Lig3	chr11:82781108-82871210	OK	4.75287	4.87949
Bola3	chr6:83349483-83358392	OK	30.8978	31.7209
Tstd3	chr4:21727700-21767211	OK	20.1045	20.6386
Zfp866	chr8:69761323-69774911	OK	3.95366	4.0582
Zfp568	chr7:29983954-30028282	OK	0.838881	0.861055
B3galt6	chr4:155989465-155992678	OK	2.70552	2.77658
Arap3	chr18:37972622-37998969	OK	1.59637	1.63828
Rttn	chr18:88971789-89131014	NOTEST	0.513332	0.526785
Vps51	chr19:6062820-6077187	OK	21.824	22.3934
Dnah11	chr12:117843860-118199043	NOTEST	0.0125248	0.0128513
Xpnpep1	chr19:52991179-53038654	OK	14.6359	15.0173
2810021J22Rik	chr11:58867239-58884338	OK	1.5004	1.53936
Slc3a2	chr19:8706881-8723369	OK	54.2583	55.663
Wdr59	chr8:111448783-111522107	OK	8.52043	8.73946
Dusp19	chr2:80617213-80631661	OK	4.97213	5.09978
Nat14	chr7:4922250-4925006	OK	5.09854	5.22943
Pcdh15	chr10:73821866-74649732	NOTEST	0.327451	0.335853
Traf3ip3	chr1:193173468-193201546	NOTEST	0.563305	0.577754
Pyroxd1	chr6:142345696-142387087	OK	6.31389	6.47559
Prickle4	chr17:47686644-47694736	OK	2.34391	2.40392
Zfp248	chr6:118427318-118455506	OK	4.55843	4.67484
Exosc3	chr4:45316629-45320603	OK	5.34201	5.47839
Kdm4a	chr4:118137003-118180043	OK	13.3143	13.6535
Abcc12	chr8:86504840-86566590	NOTEST	0.359228	0.36837
Zfp143	chr7:110061701-110095392	OK	3.10807	3.18714
Mmadhc	chr2:50279880-50296677	OK	35.834	36.743
Fam149b	chr14:20348161-20383491	OK	11.7529	12.0503
Zfp961	chr8:71951065-71970333	OK	1.90644	1.95467
Higd2a	chr13:54590230-54591147	OK	104.46	107.085
Aldoa	chr7:126795233-126800447	OK	1247.02	1278.35
1700056E22Rik	chr1:184033031-184033998	NOTEST	0.400728	0.410797
Clip2	chr5:134489382-134552434	OK	49.4812	50.7239
Ppp1r37	chr7:19530966-19562398	OK	23.604	24.1929
Micu1	chr10:59702562-59864134	OK	61.5702	63.105
Tmub1	chr5:24445462-24447846	OK	10.4703	10.7307
Pglyrp1	chr7:18884689-18890438	OK	1.25343	1.28454
Zfp637	chr6:117841241-117845956	OK	15.9115	16.3048
Ncl	chr1:86344718-86359455	OK	32.6384	33.443
Nop10	chr2:112261925-112262898	OK	72.0384	73.8107
Polr2m	chr9:71478436-71485983	OK	65.218	66.821
Cul3	chr1:80266817-80340430	OK	56.3542	57.7364

Zfp280b	chr10:76032611-76042969	OK	4.59129	4.70377
Rfc1	chr5:65261851-65335639	OK	13.5675	13.8997
Spint2	chr7:29256329-29281977	OK	1.93268	1.97991
Zfp11	chr5:129654594-129670088	OK	1.65494	1.69532
Pitpna	chr11:75588107-75628778	OK	137.642	140.998
Zfp623	chr15:75940951-75949400	OK	3.45663	3.54083
Gpn2	chr4:133584372-133591735	OK	5.06041	5.18355
3830406C13Rik	chr14:12284202-12303231	OK	18.393	18.8395
Wdr41	chr13:94976343-95023316	OK	15.095	15.4568
Disp1	chr1:183086263-183221529	OK	4.83523	4.95088
Brwd3	chrX:108742207-108834355	OK	0.950863	0.97358
S1pr1	chr3:115710432-115715055	OK	8.93745	9.14924
Tomm40l	chr1:171213969-171222514	OK	17.9317	18.3555
Vps13b	chr15:35371545-35931229	OK	8.50247	8.70235
Kif13b	chr14:64652530-64806296	OK	8.79136	8.99797
Gm4925	chr10:88729540-88731101	NOTEST	0.233922	0.239416
Dhx36	chr3:62468641-62506988	OK	23.9629	24.5252
Gm7008	chr12:40223363-40229183	NOTEST	0.181546	0.185795
Tmed3	chr9:89699202-89705043	OK	25.3338	25.9219
Braf	chr6:39603236-39725463	OK	9.56845	9.78937
Usp30	chr5:114100332-114122924	OK	9.71563	9.93992
Xpnpep3	chr15:81400187-81454888	OK	3.44475	3.52409
E130311K13Rik	chr3:63914695-63929385	OK	4.42392	4.52566
Cacnb4	chr2:52428319-52676609	OK	26.5656	27.1751
Setd2	chr9:110532596-110618633	OK	6.67329	6.82627
Arfip2	chr7:105634200-105640416	OK	21.924	22.4263
Zic3	chrX:58030627-58036630	NOTEST	0.055907	0.0571849
Dctn4	chr18:60526220-60558762	OK	64.8163	66.2954
Zfp654	chr16:64780346-64786321	OK	3.8926	3.98074
Mrps16	chr14:20391230-20393555	OK	25.7343	26.3164
Rras2	chr7:114046781-114117781	OK	4.809	4.91777
Acyp1	chr12:85272397-85280435	OK	30.8275	31.5244
Gls	chr1:52163449-52233232	OK	86.4039	88.352
Slc22a7	chr17:46432184-46438477	NOTEST	0.63129	0.645495
Pum2	chr12:8674133-8752583	OK	28.5219	29.1626
Cops3	chr11:59810079-59839767	OK	48.4699	49.5507
Scfd2	chr5:74204815-74531742	OK	6.02753	6.16183
Sugt1	chr14:79587690-79629755	OK	43.7888	44.764
Ppie	chr4:123127124-123139941	OK	9.09356	9.29602
Gxylt1	chr15:93239741-93275084	OK	2.10878	2.15561
Gtf3c1	chr7:125640953-125707688	OK	20.7976	21.2589
Avpi1	chr19:42123274-42128993	OK	11.7824	12.0433
Pdrg1	chr2:153008889-153015383	OK	61.4359	62.7869
Med19	chr2:84671310-84715164	OK	20.1132	20.5545
Tnks2	chr19:36834231-36893477	OK	23.6466	24.1629
Csde1	chr3:103020545-103058189	OK	108.2	110.555
Ercc3	chr18:32240330-32270147	OK	18.2272	18.6234
Nisch	chr14:31170927-31206826	OK	76.8028	78.4676
Atf6b	chr17:34647145-34655074	OK	20.6144	21.0601
Lrrn3	chr12:41024089-41955588	OK	13.0875	13.369
Cdkn2d	chr9:21288463-21291209	OK	62.4862	63.8283
Mecp2	chrX:74026823-74085636	OK	12.6452	12.9143
Rps27l	chr9:66946117-66949509	OK	32.8152	33.5119

Rsc1a1	chr4:141683562-141723419	OK	2.60404	2.65925
Eef1a2	chr2:181147691-181157015	OK	610.534	623.432
9430016H08Rik	chr1:57388243-57415958	OK	8.86269	9.04969
Thap4	chr1:93705390-93754838	OK	7.39968	7.55557
Acot10	chr15:20665213-20666750	OK	5.77036	5.89187
Tcaim	chr9:122805546-122836332	OK	8.60251	8.78353
Jkamp	chr12:72085838-72185029	OK	38.5785	39.3893
Icam2	chr11:106377655-106382641	OK	1.63283	1.66711
Cul4b	chrX:38531620-38576196	OK	17.4298	17.7957
Zbed4	chr15:88751710-88784516	OK	1.04504	1.06698
Gpaa1	chr15:76331293-76334899	OK	15.6005	15.9276
Vapb	chr2:173737570-173784336	OK	51.7887	52.871
Laptm4a	chr12:8921306-8938741	OK	158.369	161.678
Prkcsh	chr9:22003034-22014222	OK	30.4948	31.1308
Abhd17c	chr7:84109355-84151893	OK	12.8454	13.1122
Commd3	chr2:18672461-18676216	OK	43.9278	44.8391
Ggps1	chr13:14052444-14063401	OK	18.5802	18.9642
Nek11	chr9:105162466-105395287	NOTEST	0.315717	0.322234
Tbc1d13	chr2:30133870-30152013	OK	29.994	30.6127
Ctsb	chr14:63122461-63177793	OK	362.784	370.263
Sumo2	chr11:115523108-115536230	OK	9.30594	9.49737
Ythdf3	chr3:16183182-16217037	OK	20.8591	21.2881
Tmlhe	chrX_GL456233_random:15964	OK	4.36757	4.45718
Srp72	chr5:76974700-76999935	OK	41.7603	42.6127
Exosc1	chr19:41922979-41933314	OK	6.32653	6.45545
Gm561	chr2:144594064-144595365	OK	27.5075	28.0651
Ccdc85b	chr19:5447697-5457563	OK	12.4232	12.674
Ccpg1os	chr9:72979724-72985376	OK	5.4924	5.60314
Smarcd1	chr15:99702286-99713995	OK	21.0211	21.4442
U2surp	chr9:95456893-95511996	OK	8.83181	9.00866
Myo9a	chr9:59751173-59928866	OK	21.136	21.5587
Myo7b	chr18:31959233-32036931	NOTEST	0.0167445	0.017078
Mrpl36	chr13:73331008-73332178	OK	30.2577	30.8592
Hnrnpa3	chr2:75659258-75669407	OK	12.6289	12.8799
2610044O15Rik8	chr8:129216353-129234046	OK	5.27	5.37455
Creb1	chr1:64532803-64604548	OK	6.27959	6.40375
Minpp1	chr19:32485768-32515370	OK	17.3773	17.7202
Dguok	chr6:83480213-83506969	OK	13.8678	14.1403
Esf1	chr2:140119880-140170558	OK	9.90139	10.0957
Top2b	chr14:16365205-16430787	OK	16.9984	17.3311
Xpo6	chr7:126101718-126200408	OK	20.7836	21.1892
Nifk	chr1:118321842-118333831	OK	12.6198	12.8655
Rabl3	chr16:37539893-37572385	OK	15.6636	15.9667
Trmt10c	chr16:56033719-56037774	OK	8.09841	8.25478
Sec13	chr6:113728051-113740681	OK	44.6757	45.5351
Gstm7	chr3:107926333-107931745	OK	5.00927	5.10521
Fam173a	chr17:25786579-25792394	OK	48.2209	49.1413
Cd7	chr11:121036748-121039478	NOTEST	0.291465	0.296998
Get4	chr5:139252323-139270050	OK	16.7765	17.0944
Calm2	chr17:87433400-87446935	OK	803.554	818.747
Sdf2	chr11:78245745-78255496	OK	57.3202	58.3994
Ccdc50	chr16:27388955-27452218	OK	11.2876	11.4999
Men1	chr19:6334978-6340894	OK	22.2466	22.6635

Slc37a3	chr6:39334770-39377707	OK	11.4104	11.6241
Tlk2	chr11:105181529-105283956	OK	9.56705	9.74573
Parg	chr14:32201970-32297549	OK	15.0992	15.3808
Tmem194b	chr1:52630704-52651919	OK	0.805923	0.820855
Casp8	chr1:58795373-58847503	OK	0.837435	0.852944
Atp6v1a	chr16:44085403-44139019	OK	160.132	163.058
Sap18	chr14:57798188-57804980	OK	12.8319	13.0662
Aig1	chr10:13652708-13868830	OK	23.5706	23.9999
Map3k10	chr7:27656374-27674598	OK	22.9604	23.3781
Eif1	chr11:100319995-100322096	OK	97.4933	99.2635
Lrnf3	chr7:30355513-30362772	OK	7.00214	7.12923
Trub2	chr2:29774683-29787671	OK	8.4131	8.56517
Man1a	chr10:53906032-54075796	OK	2.63461	2.68221
Hipk1	chr3:103193822-103854618	OK	17.9287	18.2508
Ap2m1	chr16:20535503-20544053	OK	42.1238	42.879
Smarcc1	chr9:110132023-110240178	OK	17.5071	17.82
Poldip3	chr15:83125977-83149336	OK	24.6989	25.1387
Rnmtl1	chr11:76243735-76250622	OK	6.06701	6.17495
Dus1l	chr11:120789201-120796395	OK	12.8044	13.0319
Lamtor4	chr5:138255481-138259395	OK	44.9944	45.7928
Pea15a	chr1:172196728-172206781	OK	184.864	188.112
Bad	chr19:6938069-6951905	OK	23.5791	23.9918
1700001O22Rik	chr2:30795562-30803664	NOTEST	0.279165	0.284036
Fkbp5	chr17:28398752-28486149	OK	15.2748	15.5398
Sybu	chr15:44671855-44805829	OK	32.974	33.542
Slc35c1	chr2:92452764-92460518	OK	12.7254	12.9437
Ifih1	chr2:62595792-62646255	OK	2.03078	2.06554
Igfbpl1	chr4:45809506-45826827	NOTEST	0.150693	0.153263
Zhx3	chr2:160731309-160872990	OK	5.29352	5.38362
D11Wsu47e	chr11:113684411-113694647	OK	2.71425	2.75993
Smyd4	chr11:75348432-75405705	OK	4.05341	4.1215
Fez2	chr17:78200247-78418152	OK	39.6544	40.3201
Uvssa	chr5:33378695-33419754	OK	1.24046	1.26129
Mapre1	chr2:153741286-153773314	OK	36.3172	36.9267
Atg10	chr13:90935348-91223987	OK	10.4491	10.6235
Tbc1d9	chr8:83165351-83272940	OK	48.0953	48.8977
Neu3	chr7:99811438-99828417	OK	0.802466	0.815821
Foxf1	chr8:121084385-121088154	NOTEST	0.554642	0.563837
Bcar1	chr8:111710474-111743849	OK	15.8837	16.1447
Tbc1d16	chr11:119143042-119228499	OK	8.16418	8.29789
C1galt1	chr6:7845223-7872042	OK	5.59549	5.68691
Stard7	chr2:127270228-127298934	OK	28.9926	29.4651
Iars	chr13:49682129-49734267	OK	28.3025	28.7597
Slc35e4	chr11:3907021-3914664	OK	10.518	10.6876
D130043K22Rik	chr13:24845130-24901270	OK	31.8594	32.3732
Tti2	chr8:31150315-31168724	OK	7.98653	8.11475
Cd9	chr6:125460265-125494755	OK	789.332	801.958
Slc28a1	chr7:81114798-81170416	NOTEST	0.0145591	0.0147917
Derl2	chr11:71007439-71027134	OK	14.0734	14.2971
Tsen15	chr1:152370735-152386682	OK	15.175	15.4139
Cox7c	chr13:86044797-86046795	OK	16.0447	16.2935
Wdr92	chr11:17211892-17235200	OK	2.6748	2.71625
Mrto4	chr4:139347439-139352576	OK	7.83089	7.95214

Eif3f	chr7:108934414-108941942	OK	93.536	94.9832
AtI3	chr19:7494039-7538609	OK	46.7197	47.4415
Bahcc1	chr11:120232946-120292297	OK	1.5156	1.53901
Narfl	chr17:25773775-25785586	OK	7.89279	8.01441
Acp6	chr3:97158776-97176576	OK	2.87968	2.92401
Wdr11	chr7:129591862-129635738	OK	13.7024	13.9131
Aifm1	chrX:48474943-48513563	OK	16.9985	17.2596
Rbm48	chr5:3571715-3637101	OK	2.88446	2.92871
Vegfb	chr19:6982471-6987651	OK	27.494	27.9153
Cyth3	chr5:143622446-143710248	OK	20.7434	21.0596
Eif2s3x	chrX:94188708-94212651	OK	6.69082	6.79207
Dnajb2	chr1:75236422-75245692	OK	51.1379	51.9107
Slc30a7	chr3:115938972-116007406	OK	2.69545	2.73609
Trim33	chr3:103193822-103854618	OK	6.19163	6.28469
Cerk	chr15:86139100-86186141	OK	36.9919	37.5449
Sdcbp2	chr2:151572622-151590005	NOTEST	0.501125	0.508577
Ubr7	chr12:102757974-102777701	OK	11.4715	11.6401
Hsd17b12	chr2:94032696-94157909	OK	75.1219	76.2225
Larp1b	chr3:40950630-40977793	OK	11.8819	12.0534
9930021J03Rik	chr19:29714401-29806009	OK	5.01428	5.08652
Trp53	chr11:69580358-69591873	OK	10.2682	10.4155
Ormdl3	chr11:98581293-98587245	OK	27.0919	27.4785
Smarcal1	chr1:72583250-72636790	OK	14.3393	14.543
Ccdc59	chr10:105841478-105847510	OK	8.81876	8.94348
Crhbp	chr13:95431375-95444831	NOTEST	0.354202	0.359203
Ppp2r2a	chr14:67014055-67072471	OK	26.3433	26.7149
Mob3c	chr4:115828091-115836183	OK	1.24999	1.26744
Napa	chr7:16098642-16117975	OK	114.905	116.509
Polr2a	chr11:69733998-69758633	OK	25.5312	25.8846
Chchd7	chr4:3938887-3951382	OK	24.2894	24.6218
Smox	chr2:131127411-131604824	OK	18.7926	19.0498
Proser1	chr3:53463816-53481755	OK	6.13582	6.21967
Arfgap1	chr2:180967224-180982524	OK	17.1999	17.4345
Cnrip1	chr11:17051933-17079372	OK	24.16	24.4884
Mei4	chr9:81863743-82027491	NOTEST	0.258508	0.261988
Alg11	chr8:22060720-22071627	OK	10.7823	10.9273
Myo19	chr11:84876312-84916356	NOTEST	0.430532	0.436286
Rps28	chr17:33823036-33824498	OK	2.23672	2.2665
Fgd1	chrX:151047169-151096543	OK	3.23897	3.28209
Ensa	chr3:95624979-95632117	OK	111.871	113.34
Mut	chr17:40934684-40961989	OK	18.2267	18.4646
Rbak	chr5:143172185-143180775	OK	1.50994	1.52953
Psmc1	chr1:86064618-86139295	OK	98.6668	99.946
Frmd5	chr2:121545528-121807057	NOTEST	0.701527	0.710572
Ppp3cb	chr14:20499313-20618354	OK	59.9057	60.6749
Bmi1	chr2:18677017-18686629	OK	8.60598	8.71547
Spata2	chr2:167481135-167516166	OK	12.893	13.057
Actg1	chr11:120345689-120348484	OK	301.219	305.045
6720489N17Rik	chr13:62603014-62624182	OK	2.11505	2.14191
Mlf2	chr6:124931387-124936149	OK	148.937	150.817
Tsr3	chr17:25240169-25256364	OK	16.9372	17.1499
Gnpda2	chr5:69575001-69592285	OK	30.2851	30.6601
Gimap6	chr6:48701582-48708244	OK	7.0151	7.10196

Rars	chr11:35808380-35834528	OK	30.3822	30.7583
Stat1	chr1:52119437-52161865	OK	14.5811	14.7604
Rpl15	chr14:18267822-18270986	OK	38.9234	39.3977
2210408I21Rik	chr13:77135535-77613679	OK	3.941	3.98894
Ddx42	chr11:106216925-106249140	OK	24.7375	25.0363
Calr	chr8:84842087-84846931	OK	213.954	216.536
Snx17	chr5:30933142-31348845	OK	34.3327	34.7446
Rela	chr19:5637489-5648130	OK	12.1105	12.2556
Prpf40b	chr15:99295408-99317007	OK	8.84972	8.95554
Rnf144b	chr13:47122719-47247991	OK	3.28753	3.32683
Cpsf3l	chr4:155869566-155891762	OK	10.7573	10.8843
Polr2g	chr19:8793128-8798557	OK	63.9954	64.7476
Appl1	chr14:26918987-26970551	OK	19.1804	19.4042
Ccdc132	chr6:3498392-3603531	OK	20.6555	20.8964
Sgsm1	chr5:113243219-113310786	OK	20.1402	20.3748
Vapa	chr17:65580052-65613555	OK	105.526	106.75
Tmed8	chr12:87166241-87200229	OK	18.4572	18.6689
Otub1	chr19:7198205-7206284	OK	95.4812	96.5687
Wnk1	chr6:119923968-120038655	OK	36.8163	37.2351
Amotl1	chr9:14541966-14615000	OK	22.3489	22.5971
Ssh1	chr5:113942218-113993757	OK	7.98868	8.07712
Rin2	chr2:145786115-145887616	OK	6.29772	6.36743
Csl	chr10:99757704-99759658	OK	6.30513	6.37472
St7l	chr3:104864505-104930063	OK	6.6197	6.69276
Coro2b	chr9:62419491-62537044	OK	69.7794	70.5344
Zfp617	chr8:71922824-71934630	OK	6.03118	6.09611
Atp6v0a1	chr11:101009451-101063717	OK	120.078	121.37
Atp6v1g1	chr4:63544764-63550701	OK	91.2923	92.2713
Cdk2ap2	chr19:4097350-4099017	OK	20.9717	21.194
B4galt4	chr16:38742258-38769054	OK	7.37521	7.45333
Galnt7	chr8:57523824-57663430	OK	1.96156	1.9823
Zbtb38	chr9:96685422-96752831	OK	9.44064	9.54019
Rbmxl1	chr8:78505268-78508928	OK	10.5354	10.6462
Glo1	chr17:30592861-30612659	OK	50.8107	51.343
Sec62	chr3:30792875-30821263	OK	57.1348	57.733
Acox1	chr11:116171882-116215318	OK	56.7575	57.3484
Vdac3	chr8:22577074-22593813	OK	47.2522	47.7435
Ttc4	chr4:106661807-106678944	OK	11.9344	12.0579
Psmb6	chr11:70525356-70527858	OK	107.188	108.292
Eif4e2	chr1:87213913-87240488	OK	25.9494	26.214
Snx3	chr10:42502053-42535369	OK	96.0617	97.0354
St13	chr15:81365043-81399694	OK	89.3821	90.2846
Ccnyl1	chr1:64691344-64725642	OK	2.39783	2.42189
Hspa14	chr2:3488853-3512814	OK	16.4065	16.5686
Tsta3	chr15:75924682-75929730	OK	17.0415	17.2098
Dock7	chr4:98936658-99120915	OK	16.973	17.1398
Bloc1s5	chr13:38602705-38635109	OK	16.3225	16.4825
Fasn	chr11:120805957-120824547	OK	60.9895	61.5871
Apol9a	chr15:77403788-77411080	NOTEST	0.18316	0.184942
Cog1	chr11:113649528-113684151	OK	23.1422	23.3655
Wasf2	chr4:133130632-133198330	OK	13.9402	14.0745
Asxl1	chr2:153346138-153404007	OK	9.48256	9.57353
Zfp646	chr7:127877700-127890970	OK	3.25527	3.28641

Pigs	chr11:78328421-78342776	OK	45.11	45.5389
Zfp81	chr17:33333727-33358878	OK	3.28721	3.31807
Slc7a5	chr8:121881145-121907686	OK	25.0031	25.2376
Bicd1	chr6:149408983-149563326	OK	10.6361	10.7354
Acad8	chr9:26974138-26999549	OK	9.97341	10.0654
Setmar	chr6:108065044-108077127	OK	3.61109	3.64431
Snx6	chr12:54746356-54795662	OK	72.3774	73.0419
Myo1c	chr11:75651508-75674634	OK	9.70139	9.78969
Pqlc1	chr18:80255244-80292724	OK	79.426	80.1419
Txn2	chr15:77915050-77928994	OK	48.9482	49.3887
Pigq	chr17:25926419-25941989	OK	34.9643	35.278
Tysnd1	chr10:61695513-61702773	OK	11.2866	11.387
Lrig2	chr3:104453982-104511856	OK	14.8926	15.0234
Brd8	chr18:34598614-34651736	OK	9.73915	9.82389
Gorasp2	chr2:70661508-70691725	OK	50.3983	50.8326
Zbtb26	chr2:37432167-37443121	OK	1.70983	1.72452
Emc3	chr6:113514886-113531638	OK	49.0259	49.4464
Arpc4	chr6:113378112-113414571	OK	62.2676	62.8012
Rab5b	chr10:128677182-128696268	OK	74.6332	75.2617
Chst15	chr7:132236254-132318291	OK	22.1791	22.3659
Usp1	chr5:149184559-149215434	OK	13.1021	13.2124
Taf6	chr5:138172020-138187186	OK	11.0921	11.1844
Cacfd1	chr2:27009925-27021089	OK	24.4165	24.6195
Obfc1	chr19:47501047-47537020	OK	7.07139	7.1296
Fbxo33	chr12:59200654-59219483	OK	7.87107	7.93567
Polr2c	chr8:94857449-94876312	OK	3.76593	3.79661
Rfx7	chr9:72532239-72622949	OK	3.77491	3.80552
Actr8	chr14:29978336-29993221	OK	19.5356	19.6936
Polr1e	chr4:45018608-45084604	OK	2.31507	2.33371
Prmt7	chr8:106211053-106251694	OK	17.4912	17.6321
Epn2	chr11:61517248-61579687	OK	24.0615	24.2548
Pomt1	chr2:32236682-32260105	OK	4.89089	4.92995
Tmem150cos	chr5:100077872-100159808	NOTEST	0.0169934	0.0171289
Edem2	chr2:155701672-155729475	OK	12.1434	12.2401
Caprin1	chr2:103762944-103797640	OK	91.7647	92.4884
Ift74	chr4:94614490-94693233	OK	11.4602	11.5498
Ptbp2	chr3:119718741-119783388	OK	41.1752	41.4926
Pla2r1	chr2:60417542-60553308	OK	1.33104	1.34126
Ntsr2	chr12:16653469-16660236	OK	1.39828	1.40893
Morc2a	chr11:3649493-3690372	OK	7.31727	7.37254
AU040320	chr4:126753554-126967923	OK	20.8967	21.0543
Neurod1	chr2:79452640-79456636	NOTEST	0.293325	0.295487
Rtn4r	chr16:18127705-18152408	OK	6.05109	6.09525
Manbal	chr2:157367593-157396763	OK	28.5516	28.7592
Ints2	chr11:86210682-86257568	OK	3.11916	3.14181
Qrich1	chr9:108517086-108560167	OK	28.4776	28.684
Rasa2	chr9:96539299-96631503	OK	6.34884	6.39469
Trappc3	chr4:126262404-126275883	OK	43.779	44.0928
Ctcf	chr8:105636537-105682922	OK	11.7745	11.8587
Zfp93	chr7:24270417-24277794	OK	2.10147	2.11649
C430002N11Rik	chr9:96765561-96774397	OK	0.794323	0.799992
4933439C10Rik	chr11:59485520-59511067	OK	2.05119	2.06582
Hnrnpk	chr13:58391950-58411149	OK	50.767	51.1209

Arl4a	chr12:40033290-40037987	OK	9.18422	9.24788
Zar1	chr5:72577113-72581084	NOTEST	0.0183073	0.0184337
Nudt5	chr2:5845033-5868736	OK	14.0175	14.1135
Flywch1	chr17:23755422-23771591	OK	80.78	81.3253
Coq4	chr2:29788262-29797743	OK	5.08342	5.11688
Pepd	chr7:34912406-35044708	OK	25.3633	25.5296
Nhs	chrX:161836429-162159441	OK	1.97363	1.98651
Ppcs	chr4:119418532-119422420	OK	11.5417	11.6168
Sac3d1	chr19:6116003-6118586	OK	10.4999	10.5674
Fancl	chr11:26387083-26593920	OK	1.81838	1.82981
Mpped1	chr15:83780022-83858474	OK	1.97195	1.98399
Snx13	chr12:35047188-35147477	OK	19.7007	19.8202
Gm4952	chr19:12599983-12627616	NOTEST	0.129014	0.129787
Ubxn10	chr4:138709836-138744575	NOTEST	0.0807846	0.0812669
Faxc	chr4:21931325-22001461	OK	38.4732	38.7003
Htatsf1	chrX:57053569-57067182	OK	20.1	20.214
Rab9	chrX:166457251-166479867	OK	22.4362	22.5605
Gosr1	chr11:76726601-76763555	OK	17.0141	17.1081
Bbs12	chr3:37312553-37321451	OK	1.15847	1.16485
Fam110b	chr4:5644178-5799944	OK	12.7204	12.7901
Atp2b1	chr10:98915151-99026143	OK	60.2979	60.6272
Zfp169	chr13:48487659-48513436	OK	2.29633	2.30886
Creb3l1	chr2:91982327-92024170	OK	6.87085	6.90805
Fgfbp1	chr5:43978857-43981799	NOTEST	0.351201	0.353087
Ugdh	chr5:65413221-65435842	OK	11.3661	11.4267
Trim30a	chr7:104409025-104465193	OK	0.947828	0.952781
Trerf1	chr17:47140941-47359458	OK	1.70006	1.70893
Lamtor3	chr3:137918554-137928762	OK	16.9219	17.009
Usp3	chr9:66517880-66592980	OK	4.47509	4.49791
Tapt1	chr5:44175161-44226606	OK	11.1183	11.1734
Lsm7	chr10:80852824-80855209	NOTEST	1.2555	1.26162
Phkg2	chr7:127573347-127588595	OK	27.5047	27.6372
Sars	chr3:108424863-108445259	OK	55.0151	55.2761
Dgat1	chr15:76502014-76511818	OK	7.3102	7.34443
Strap	chr6:137735081-137751930	OK	64.105	64.4044
R74862	chr7:143021783-143067930	NOTEST	0.490355	0.492625
Arfrp1	chr2:181357689-181380793	OK	8.38636	8.42488
Cacul1	chr19:60524695-60581023	OK	24.0959	24.2059
Rab18	chr18:6765166-6791606	OK	53.3007	53.5393
Edrf1	chr7:133637674-133673017	OK	3.292	3.30663
Cbll1	chr12:31484828-31499616	OK	5.6243	5.64892
Arl2	chr19:6134388-6141137	OK	60.3973	60.6614
Gm996	chr2:25575415-25580099	OK	5.12185	5.14413
Morn2	chr17:80238303-80297476	OK	13.6676	13.7254
Rhoh	chr5:65863568-65896700	NOTEST	0.0247707	0.0248728
Aaas	chr15:102338246-102350759	OK	7.37215	7.402
Crip1	chr12:113152011-113153879	OK	55.3711	55.5926
Sf3b3	chr8:110810491-110846803	OK	16.01	16.0729
4932435022Rik	chr11:114344525-114757886	NOTEST	0.143379	0.143939
Npepl1	chr2:174110350-174122702	OK	13.128	13.176
G3bp2	chr5:92052145-92083735	OK	131.487	131.951
Vta1	chr10:14655332-14705489	OK	31.6563	31.7635
Cyp2r1	chr7:114550162-114562972	NOTEST	0.392005	0.393318

Scg2	chr1:79434668-79440090	OK	169.843	170.41
Etnk1	chr6:143167229-143208547	OK	129.881	130.311
Abhd8	chr8:71456699-71463657	OK	53.0341	53.2051
Vps13c	chr9:67840395-67995634	OK	9.3722	9.40234
Pemt	chr11:59970613-60046489	OK	5.13538	5.15187
H2-Q1	chr17:35320557-35325099	NOTEST	0.203853	0.204502
Cox6a1	chr5:115345653-115348955	OK	378.046	379.229
Pdlim5	chr3:142239584-142395696	OK	14.3321	14.3766
Pphln1	chr15:93398349-93491912	OK	16.6368	16.6882
Efnb1	chrX:99136129-99148991	OK	9.67767	9.70725
Nme7	chr1:164307674-164458355	OK	6.85549	6.87598
Ttc21a	chr9:119937605-119967793	NOTEST	0.315281	0.316222
Bet1l	chr7:140853383-140856383	OK	15.2235	15.2686
Clcn6	chr4:148006483-148038767	OK	36.2868	36.3918
Cdk4	chr10:127063602-127067282	OK	23.7967	23.865
Orai2	chr5:136147460-136170656	OK	13.1084	13.1445
4732471J01Rik	chr7:25376818-25566417	OK	1.25939	1.26286
Fam161b	chr12:84345316-84361821	OK	3.03671	3.04501
Galnt11	chr5:25222892-25265918	OK	11.4937	11.5247
Slc25a46	chr18:31580167-31609902	OK	39.3594	39.4612
Pfkfb3	chr2:11471430-11553929	OK	22.8013	22.8599
Dnm1l	chr16:16312227-16359031	OK	106.085	106.348
4933427E11Rik	chr15:74702411-74710374	NOTEST	0.0179911	0.0180312
Timm17a	chr1:135301534-135313737	OK	59.8555	59.9874
Golgb1	chr16:36880518-36933085	OK	12.572	12.5997
Usp39	chr6:72318675-72345175	OK	11.1405	11.1648
Sephs1	chr2:4881563-4910556	OK	5.82161	5.83415
Yars2	chr16:16302964-16309640	OK	9.85695	9.87804
Ubap2l	chr3:89998759-90068347	OK	36.9788	37.0562
D1Erttd622e	chr1:97643901-97662018	OK	15.9355	15.9686
Mrps7	chr11:115604150-115607624	OK	25.9207	25.9725
Tinf2	chr14:55679079-55681817	OK	4.90893	4.91838
Aasdh	chr5:76875934-76905514	OK	1.75694	1.7602
Mcm3ap	chr10:76449080-76515857	OK	8.23812	8.25321
Mark4	chr7:19426074-19458494	OK	25.3922	25.4379
Zfp874a	chr13:67440430-67451624	OK	6.36488	6.37608
Ankrd46	chr15:36477667-36496791	OK	147.952	148.206
Cic	chr7:25282178-25294148	OK	31.6774	31.7306
Pip5k1a	chr3:95059595-95106858	OK	8.40814	8.4222
C030046E11Rik	chr19:29522281-29605921	OK	4.79067	4.79857
Cd300lg	chr11:102041510-102055617	OK	2.89739	2.90178
Snapi	chr3:90476200-90491013	OK	38.2357	38.2928
Tmem182	chr1:40805600-40855267	NOTEST	0.152772	0.152982
Fam179b	chr12:64965741-65022573	OK	15.4475	15.4685
Eif4g1	chr16:20672748-20692883	OK	98.1017	98.2332
Pnpla2	chr7:141455187-141460743	OK	13.977	13.9953
Trim8	chr19:46501647-46516455	OK	18.2959	18.3199
Syt16	chr12:73997760-74267916	OK	2.95351	2.95737
Pnpla6	chr8:3515383-3544267	OK	21.9822	22.0102
Tmem88	chr11:69395790-69398234	OK	2.2339	2.23659
Gm19299	chr9:67133560-67163788	NOTEST	0.0147648	0.0147822
Fis1	chr5:136953274-136966234	OK	153.878	154.048
Naga	chr15:82329531-82338826	OK	13.971	13.9858

Ddx1	chr12:13219306-13249174	OK	76.4258	76.5002
Fbxw15	chr9:109552601-109568262	NOTEST	0.0140794	0.0140928
Ube2d2a	chr18:35771558-35807172	OK	43.666	43.7076
Polr3g	chr13:81673836-81711013	OK	37.5571	37.5917
Gfra1	chr19:58235580-58455398	OK	42.5002	42.5379
Sap30	chr8:57482701-57487860	OK	1.86299	1.86462
Dnajc11	chr4:151933719-151981959	OK	21.8678	21.8868
C1qbp	chr11:70970199-70983026	OK	62.2276	62.278
Mfsd1	chr3:67582767-67604231	OK	25.6223	25.6428
Ammechr1l	chr18:31759823-31784083	OK	15.5905	15.6013
Ppp6c	chr2:39196797-39226338	OK	35.3896	35.4139
Scfd1	chr12:51377579-51450096	OK	22.4919	22.5064
Nubp2	chr17:24882610-24886350	OK	24.535	24.5498
Rspry1	chr8:94601940-94660276	OK	12.7673	12.7745
Asphd2	chr5:112385444-112392213	OK	16.2073	16.2165
Hiat1	chr3:116631166-116662677	OK	24.6787	24.6908
Acer3	chr7:98213659-98309527	OK	8.27723	8.28115
Fmn1	chr2:113220186-113716767	OK	17.3321	17.3388
Drosha	chr15:12824814-12935291	OK	23.3756	23.3839
Zfp956	chr6:47943174-47965299	OK	2.56899	2.56989
Acad11	chr9:104063702-104127646	OK	8.11159	8.11428
Tusc1	chr4:93334147-93335511	OK	1.94803	1.94867
D10Jhu81e	chr10:78162066-78169768	OK	53.1535	53.1691
Asb14	chr14:26894603-26915257	NOTEST	0.0112841	0.0112845
0610005C13Rik	chr7:45567794-45589710	NOTEST	0	0
0610031O16Rik	chr3:138210716-138239663	NOTEST	0	0
0610039K10Rik	chr2:163623272-163645800	NOTEST	0	0
1010001N08Rik	chr18:11042036-11085635	NOTEST	0	0
1110025L11Rik	chr16:89063409-89064002	NOTEST	0	0
1110028F11Rik	chr11:87663086-87735539	NOTEST	0	0
1110036E04Rik	chr9:64049828-64054100	NOTEST	0	0
1190003K10Rik	chr13:64481245-64497792	NOTEST	0	0
1500015L24Rik	chr19:20405287-20422785	NOTEST	0	0
1600002D24Rik	chr16:95831122-95929077	NOTEST	0	0
1600014C23Rik	chr17:45732863-45733844	NOTEST	0	0
1600014K23Rik	chrX:85249676-85270291	NOTEST	0	0
1600015I10Rik	chr6:48929895-48933687	NOTEST	0	0
1600025M17Rik	chrX:56317607-56320664	NOTEST	0	0
1700001C02Rik	chr5:30466076-30484087	NOTEST	0	0
1700001D01Rik	chr8:61224170-61396072	NOTEST	0	0
1700001F09Rik	chr14:43342383-43347811	NOTEST	0	0
1700001J03Rik	chr5:146182449-146185304	NOTEST	0	0
1700001K19Rik	chr12:110667688-110682619	NOTEST	0	0
1700001P01Rik	chr11:97771480-97775918	NOTEST	0	0
1700003C15Rik	chr5:11749832-11769308	NOTEST	0	0
1700003D09Rik	chr11:98348737-98358283	NOTEST	0	0
1700003E24Rik	chrX:93156153-93156871	LOWDAT	0	0
1700003G18Rik	chr7:116081761-116093149	NOTEST	0	0
1700003H04Rik	chr3:124565890-124581091	NOTEST	0	0
1700003L19Rik	chr16:12811389-12848653	NOTEST	0	0
1700003P14Rik	chr13:118556167-118588629	NOTEST	0	0
1700006A11Rik	chr3:124401154-124426028	NOTEST	0	0
1700006E09Rik	chr11:101987055-101992264	NOTEST	0	0

1700006F04Rik	chr14:119138264-119869815	NOTEST	0	0
1700006H21Rik	chr13:107687396-107692168	NOTEST	0	0
1700007J10Rik	chr11:59662494-59780860	NOTEST	0	0
1700008F21Rik	chr8:129067133-129183732	NOTEST	0	0
1700008K24Rik	chr17:49112263-49113533	NOTEST	0	0
1700008P02Rik	chr3:6615412-6620443	NOTEST	0	0
1700009C05Rik	chr6:81900464-81910800	NOTEST	0	0
1700009J07Rik	chr10:77893419-77896111	NOTEST	0	0
1700009N14Rik	chr4:39450292-39451778	NOTEST	0	0
1700010B08Rik	chr2:173719414-173722086	NOTEST	0	0
1700010D01Rik	chrX:95711677-95927970	NOTEST	0	0
1700010I02Rik	chr3:7925302-7954887	NOTEST	0	0
1700010J16Rik	chr10:112726925-112785599	NOTEST	0	0
1700010K23Rik	chr16:66655420-67620908	NOTEST	0	0
1700011M02Rik	chrX:102908904-102909651	NOTEST	0	0
1700012A03Rik	chr6:32050287-32058915	NOTEST	0	0
1700012B07Rik	chr11:109788290-109828046	NOTEST	0	0
1700012B09Rik	chr9:14758193-14771030	NOTEST	0	0
1700012I11Rik	chr15:67226768-67377094	NOTEST	0	0
1700012P22Rik	chr4:144418190-144438772	NOTEST	0	0
1700013D24Rik	chr6:124347593-124357086	NOTEST	0	0
1700013G24Rik	chr4:137453295-137455461	NOTEST	0	0
1700013H16Rik	chrX:53742900-53757831	NOTEST	0	0
1700015E13Rik	chr1:170308860-170312125	NOTEST	0	0
1700015G11Rik	chr7:52011679-52015716	NOTEST	0	0
1700016C15Rik	chr1:177729813-177753305	NOTEST	0	0
1700016D06Rik	chr8:11654923-11678750	NOTEST	0	0
1700016G22Rik	chr13:5855508-5858092	NOTEST	0	0
1700016H13Rik	chr5:103648586-103655732	NOTEST	0	0
1700016L04Rik	chr10:14705608-14759019	NOTEST	0	0
1700016L21Rik	chr1:80445931-80475660	NOTEST	0	0
1700016P04Rik	chr6:13413336-13415996	NOTEST	0	0
1700017D01Rik	chr19:11096815-11130878	NOTEST	0	0
1700017J07Rik	chr2:168978268-168978906	NOTEST	0	0
1700018A04Rik	chr13:31565491-31582513	NOTEST	0	0
1700018B08Rik	chr8:121530783-121541954	NOTEST	0	0
1700018B24Rik	chr3:48605730-48609100	NOTEST	0	0
1700018C11Rik	chr4:63607090-63622429	NOTEST	0	0
1700018F24Rik	chr5:145042989-145045678	NOTEST	0	0
1700018G05Rik	chrX:102928371-102929107	NOTEST	0	0
1700019A02Rik	chr1:53158576-53187617	NOTEST	0	0
1700019B21Rik	chrX:62510538-62527011	NOTEST	0	0
1700019E08Rik	chr2:45696604-45698447	NOTEST	0	0
1700019G24Rik	chr6:5725638-6028039	NOTEST	0	0
1700019M22Rik	chr12:96046620-96047222	NOTEST	0	0
1700019O17Rik	chr1:86426328-86428049	NOTEST	0	0
1700020A23Rik	chr2:130405258-130406074	NOTEST	0	0
1700020G17Rik	chr10:110801173-110896507	NOTEST	0	0
1700020M21Rik	chr9:120913773-120915250	NOTEST	0	0
1700020N01Rik	chr10:21593144-21622375	NOTEST	0	0
1700020N15Rik	chrX:69929259-70143588	NOTEST	0	0
1700021F07Rik	chr2:173522591-173528502	NOTEST	0	0
1700021N21Rik	chr4:134448764-134450171	NOTEST	0	0

1700022A21Rik	chr5:24645452-24648860	NOTEST	0	0
1700022A22Rik	chr15:46324584-46373899	NOTEST	0	0
1700022E09Rik	chr16:59466871-59469238	NOTEST	0	0
1700022H16Rik	chr12:9565235-9570585	NOTEST	0	0
1700023C21Rik	chr11:109845877-109848476	NOTEST	0	0
1700023F02Rik	chr10:66120608-66124064	NOTEST	0	0
1700024B18Rik	chr14:123978290-124677127	NOTEST	0	0
1700024G13Rik	chr14:32376501-32388373	NOTEST	0	0
1700024P04Rik	chr13:98984089-98984565	NOTEST	0	0
1700025B11Rik	chr15:77558239-77561892	NOTEST	0	0
1700025C18Rik	chr2:165078692-165090750	NOTEST	0	0
1700025F22Rik	chr19:11139682-11165320	NOTEST	0	0
1700025F24Rik	chr10:119413443-119426864	NOTEST	0	0
1700025K24Rik	chr17:54352582-54370074	NOTEST	0	0
1700025M24Rik	chr5:73268579-73284184	NOTEST	0	0
1700025N23Rik	chr6:38918985-39084579	NOTEST	0	0
1700026D11Rik	chr2:132490727-132524057	NOTEST	0	0
1700026F02Rik	chr8:71006727-71026755	NOTEST	0	0
1700027A15Rik	chr1:73016035-73025508	NOTEST	0	0
1700027F09Rik	chr5:64454812-64467942	NOTEST	0	0
1700027H10Rik	chr3:45378397-45439309	NOTEST	0	0
1700027I24Rik	chr9:36668855-36693189	NOTEST	0	0
1700028B04Rik	chr7:28496940-28497492	NOTEST	0	0
1700028D13Rik	chr5:112206762-112210002	NOTEST	0	0
1700028I16Rik	chr10:82812122-82824242	NOTEST	0	0
1700028M03Rik	chr3:83555366-83574118	NOTEST	0	0
1700028P14Rik	chr19:23558759-23652812	NOTEST	0	0
1700028P15Rik	chr2:171956878-171962799	NOTEST	0	0
1700029B22Rik	chr7:131146438-131150578	NOTEST	0	0
1700029H14Rik	chr8:13550721-13562461	NOTEST	0	0
1700029J03Rik	chr16:93396814-93458872	NOTEST	0	0
1700029N11Rik	chr13:44439726-44457567	NOTEST	0	0
1700030A11Rik	chr17:28896394-28915324	NOTEST	0	0
1700030F04Rik	chr6:117679206-117751769	NOTEST	0	0
1700030F18Rik	chr15:99918347-99931658	NOTEST	0	0
1700030M09Rik	chr8:121544387-121547652	NOTEST	0	0
1700030N03Rik	chr19:3153798-3197703	NOTEST	0	0
1700030O20Rik	chr10:116723066-116729177	NOTEST	0	0
1700031A10Rik	chr17:36923791-36933432	NOTEST	0	0
1700031F05Rik	chrX:102859186-102866353	NOTEST	0	0
1700031M16Rik	chr15:98398444-98416135	NOTEST	0	0
1700031P21Rik	chr12:52599983-52602322	NOTEST	0	0
1700034E13Rik	chr18:52646219-52663731	NOTEST	0	0
1700034G24Rik	chr5:112582935-112589996	NOTEST	0	0
1700034I23Rik	chr3:40894276-40936307	NOTEST	0	0
1700034J05Rik	chr6:146888493-147032023	NOTEST	0	0
1700034K08Rik	chr9:92979915-93005733	NOTEST	0	0
1700034O15Rik	chr6:41684430-41685717	NOTEST	0	0
1700036G14Rik	chr3:85317518-85332027	NOTEST	0	0
1700039E15Rik	chr7:45282872-45288993	NOTEST	0	0
1700039E22Rik	chr19:44757393-44837869	NOTEST	0	0
1700041C23Rik	chr9:57175274-57186110	NOTEST	0	0
1700041M19Rik	chr16:77004227-77010881	NOTEST	0	0

1700042B14Rik	chrX:155124980-155147849	NOTEST	0	0
1700042G07Rik	chr4:116173371-116174297	NOTEST	0	0
1700042O10Rik	chr11:11814100-11898144	NOTEST	0	0
1700044C05Rik	chr14:118365877-118398165	NOTEST	0	0
1700044K03Rik	chr18:49523288-49524441	NOTEST	0	0
1700045H11Rik	chr4:150828224-150854949	NOTEST	0	0
1700046C09Rik	chr11:14560335-14599225	NOTEST	0	0
1700047A11Rik	chr8:26021420-26119224	NOTEST	0	0
1700047E10Rik	chr14:44191606-44213237	NOTEST	0	0
1700047G03Rik	chr15:11967061-11970083	NOTEST	0	0
1700047L14Rik	chr5:108763841-108768917	NOTEST	0	0
1700048M11Rik	chr16:92301302-92313041	NOTEST	0	0
1700049E15Rik	chr6:147690240-147702374	NOTEST	0	0
1700049E22Rik	chr6:100527399-100533426	NOTEST	0	0
1700049L16Rik	chr10:71979884-71980690	NOTEST	0	0
1700051A21Rik	chr11:72266843-72268556	NOTEST	0	0
1700052I22Rik	chr12:80923431-80924447	NOTEST	0	0
1700054A03Rik	chr19:53076251-53084392	NOTEST	0	0
1700054K19Rik	chr6:112210707-112212518	NOTEST	0	0
1700054O13Rik	chrX:9846946-9847500	NOTEST	0	0
1700055C04Rik	chr9:64038464-64041465	NOTEST	0	0
1700055N04Rik	chr19:3958807-3970438	NOTEST	0	0
1700057G04Rik	chr9:92309376-92357876	NOTEST	0	0
1700057H15Rik	chr4:124449625-124485959	NOTEST	0	0
1700060C16Rik	chr6:143593352-143651288	NOTEST	0	0
1700061F12Rik	chr2:9189514-9197484	NOTEST	0	0
1700061I17Rik	chr3:117060521-117077765	NOTEST	0	0
1700063A18Rik	chr1:95990658-96021758	NOTEST	0	0
1700063O14Rik	chr5:91766241-91767300	NOTEST	0	0
1700064J06Rik	chr10:119092904-119103107	NOTEST	0	0
1700065D16Rik	chr9:95855417-95951644	NOTEST	0	0
1700065I16Rik	chr15:63817187-63819540	NOTEST	0	0
1700065J11Rik	chr6:35330845-35336829	NOTEST	0	0
1700065J18Rik	chr1:192841704-192842739	NOTEST	0	0
1700065L07Rik	chr6:73436964-73471021	NOTEST	0	0
1700065O20Rik	chr18:49803331-49817956	NOTEST	0	0
1700066B17Rik	chr1:39842427-39847330	NOTEST	0	0
1700066N21Rik	chr5:87908587-87979351	NOTEST	0	0
1700066O22Rik	chr18:57504421-57533752	NOTEST	0	0
1700067G17Rik	chr1:89016112-89022210	NOTEST	0	0
1700067P10Rik	chr17:48064788-48090920	NOTEST	0	0
1700069L16Rik	chr5:113692423-113724772	NOTEST	0	0
1700069P05Rik	chr6:118246694-118248454	NOTEST	0	0
1700071M16Rik	chr17:43568450-43612201	NOTEST	0	0
1700072B07Rik	chr9:58370503-58374183	NOTEST	0	0
1700073E17Rik	chr6:145387624-145392223	NOTEST	0	0
1700074H08Rik	chr13:119680041-119681582	NOTEST	0	0
1700074P13Rik	chr6:40920459-40940557	NOTEST	0	0
1700080E11Rik	chr9:105143343-105145082	NOTEST	0	0
1700080N15Rik	chr2:4132064-4141141	NOTEST	0	0
1700080O16Rik	chrX:51968694-51972772	NOTEST	0	0
1700081H04Rik	chr5:119108235-119114543	NOTEST	0	0
1700084F23Rik	chr13:70004049-70028348	NOTEST	0	0

1700084J12Rik	chr15:33083128-33653436	NOTEST	0	0
1700085C21Rik	chr12:82617037-83158813	NOTEST	0	0
1700091H14Rik	chr14:42089749-42095277	NOTEST	0	0
1700092C02Rik	chr8:77624171-77628956	NOTEST	0	0
1700092C10Rik	chr14:69164798-69175540	NOTEST	0	0
1700092E19Rik	chr13:26283158-26312406	NOTEST	0	0
1700092K14Rik	chr11:114198257-114199199	NOTEST	0	0
1700094M24Rik	chr6:52492450-52500085	NOTEST	0	0
1700095A21Rik	chr4:146501999-146546873	NOTEST	0	0
1700095B10Rik	chr5:112688875-112896362	NOTEST	0	0
1700096J18Rik	chr11:109346866-109353651	NOTEST	0	0
1700100L14Rik	chr13:70573240-70576104	NOTEST	0	0
1700101O22Rik	chr12:7372038-7380330	NOTEST	0	0
1700102H20Rik	chr17:3557823-3559863	NOTEST	0	0
1700104L18Rik	chr12:54233614-54242320	NOTEST	0	0
1700106J16Rik	chr11:88294042-88295261	NOTEST	0	0
1700108J01Rik	chr14:122181693-122451146	NOTEST	0	0
1700109G15Rik	chr11:84716975-84720432	NOTEST	0	0
1700109I08Rik	chr14:39655662-39685293	NOTEST	0	0
1700109K24Rik	chr15:77078989-77307053	NOTEST	0	0
1700110C19Rik	chr17:10324601-10329312	NOTEST	0	0
1700110I01Rik	chr14:3634511-3800987	NOTEST	0	0
1700110K17Rik	chr9:40297906-40455764	NOTEST	0	0
1700111N16Rik	chrX:69929259-70143588	NOTEST	0	0
1700112H15Rik	chr1:184527840-184557691	NOTEST	0	0
1700112J05Rik	chr5:77004054-77061522	NOTEST	0	0
1700119H24Rik	chr16:34784949-35002434	NOTEST	0	0
1700120E14Rik	chr18:74442618-74771477	NOTEST	0	0
1700120G07Rik	chr7:135191764-135196002	NOTEST	0	0
1700121L16Rik	chrX:104816775-104842455	NOTEST	0	0
1700121N20Rik	chr12:106442651-106447666	NOTEST	0	0
1700122O11Rik	chr17:48036744-48038293	NOTEST	0	0
1700123K08Rik	chr5:138561839-138564694	NOTEST	0	0
1700123L14Rik	chr6:96113153-96657198	NOTEST	0	0
1700123O12Rik	chr4:10508030-10797802	NOTEST	0	0
1700125G02Rik	chr4:124881784-124917800	NOTEST	0	0
1700125G22Rik	chr3:27154025-27157019	NOTEST	0	0
1700125H03Rik	chr8:68356780-68735146	NOTEST	0	0
1700126H18Rik	chr5:66166606-66191335	NOTEST	0	0
1700128A07Rik	chr14:106417186-106486520	NOTEST	0	0
1700128F08Rik	chr9:8221888-8241987	NOTEST	0	0
1700129C05Rik	chr14:59133039-59142893	NOTEST	0	0
1810007C17Rik	chr12:49476992-49480862	NOTEST	0	0
1810008I18Rik	chr7:65804051-65806223	NOTEST	0	0
1810009J06Rik	chr6:40964771-40968427	NOTEST	0	0
1810012K16Rik	chr8:22398720-22399591	NOTEST	0	0
1810013A23Rik	chr17:28232753-28301469	NOTEST	0	0
1810018F18Rik	chr19:58698916-58701323	NOTEST	0	0
2010009K17Rik	chr2:158028496-158091797	NOTEST	0	0
2010010A06Rik	chr18:75288659-75297329	NOTEST	0	0
2010106E10Rik	chrX:112495273-112558343	NOTEST	0	0
2010109A12Rik	chr5:93206517-93213474	NOTEST	0	0
2010310C07Rik	chr6:42349827-42380558	NOTEST	0	0

2200002J24Rik	chr7:30698925-30700534	NOTEST	0	0
2210019I11Rik	chr5:147228597-147275149	NOTEST	0	0
2210409D07Rik	chr18:57533825-57731065	NOTEST	0	0
2210409E12Rik	chr11:88972637-88973014	NOTEST	0	0
2210414B05Rik	chr4:3656505-3663108	NOTEST	0	0
2210417A02Rik	chr5:148741839-148743139	NOTEST	0	0
2210420H20Rik	chr18:82754504-82759039	NOTEST	0	0
2300003K06Rik	chr11:99837147-99838066	NOTEST	0	0
2310001K24Rik	chr2:163468702-163473003	NOTEST	0	0
2310002L09Rik	chr4:73939370-73950846	NOTEST	0	0
2310005A03Rik	chr2:155097790-155100079	NOTEST	0	0
2310005E17Rik	chr13:98424109-98435065	NOTEST	0	0
2310007L24Rik	chr11:106374825-106377114	NOTEST	0	0
2310008N11Rik	chr8:26814596-26824423	NOTEST	0	0
2310020H05Rik	chr13:99076527-99087921	NOTEST	0	0
2310034C09Rik	chr16:88758846-88759789	NOTEST	0	0
2310039L15Rik	chr10:95336275-95363216	NOTEST	0	0
2310043L19Rik	chr1:177641541-177642943	NOTEST	0	0
2310043O21Rik	chr15:38549343-38594934	NOTEST	0	0
2310050C09Rik	chr3:92868358-92870205	NOTEST	0	0
2310057N15Rik	chr16:88773180-88774206	NOTEST	0	0
2310061N02Rik	chr16:88707170-88707962	NOTEST	0	0
2310079G19Rik	chr16:88626787-88627666	NOTEST	0	0
2410003L11Rik	chr11:97598510-97622893	NOTEST	0	0
2410007B07Rik	chr3:75647440-75655731	NOTEST	0	0
2410017I17Rik	chr17:36145017-36162374	NOTEST	0	0
2410021H03Rik	chr17:69156809-69289987	NOTEST	0	0
2410088K16Rik	chr1:88754889-88755733	NOTEST	0	0
2410114N07Rik	chr4:34909788-34911481	NOTEST	0	0
2410124H12Rik	chr16:92478741-92497365	NOTEST	0	0
2410141K09Rik	chr13:66418113-66441118	NOTEST	0	0
2610016A17Rik	chr19:25671133-25672239	NOTEST	0	0
2610028H24Rik	chr10:76449080-76515857	NOTEST	0	0
2610207O16Rik	chr1:42707062-42713454	NOTEST	0	0
2610528J11Rik	chr4:118527274-118530217	NOTEST	0	0
2700089I24Rik	chr19:59493135-59559391	NOTEST	0	0
2810007J24Rik	chr7:14410685-14446587	NOTEST	0	0
2810442N19Rik	chr1:161987301-162478034	NOTEST	0	0
2900092C05Rik	chr7:12512550-12556321	NOTEST	0	0
2900092D14Rik	chr1:42700335-42703176	NOTEST	0	0
3010033K07Rik	chr8:108470104-108667190	NOTEST	0	0
3100003L05Rik	chr7:124625669-124708935	NOTEST	0	0
3110009F21Rik	chr12:110151653-110158073	NOTEST	0	0
3110039M20Rik	chr12:49389651-49407346	NOTEST	0	0
3110079O15Rik	chr1:87470263-87475459	NOTEST	0	0
3110082J24Rik	chr5:30103583-30154980	NOTEST	0	0
3200001D21Rik	chr12:88360513-88461726	NOTEST	0	0
3300005D01Rik	chr17:5798656-5803242	NOTEST	0	0
3930402G23Rik	chr8:10924426-10928457	NOTEST	0	0
4833423E24Rik	chr2:85484091-85518935	NOTEST	0	0
4833427F10Rik	chr17:35772449-35780687	NOTEST	0	0
4833427G06Rik	chr9:51081312-51102078	NOTEST	0	0
4833428L15Rik	chr9:45416625-45753713	NOTEST	0	0

4921501E09Rik	chr17:33064142-33068058	NOTEST	0	0
4921504E06Rik	chr2:19462836-19553910	NOTEST	0	0
4921509C19Rik	chr2:151470541-151476151	NOTEST	0	0
4921511C10Rik	chr3:79212918-79253913	NOTEST	0	0
4921511C20Rik	chrX:127394292-127395898	NOTEST	0	0
4921511H03Rik	chr5:6769029-7344378	NOTEST	0	0
4921511M17Rik,Gr	chrX:154043985-154055041	LOWDAT	0	0
4921513I03Rik	chr10:120765731-120778886	NOTEST	0	0
4921515E04Rik	chr15:18078136-18369627	NOTEST	0	0
4921517D22Rik	chr13:59687401-59694101	NOTEST	0	0
4921524L21Rik	chr18:6603632-6638966	NOTEST	0	0
4921525O09Rik	chr13:52096740-52124160	NOTEST	0	0
4921529L05Rik	chr6:53978690-54017383	NOTEST	0	0
4921531P14Rik	chr18:83292791-83325884	NOTEST	0	0
4921533I20Rik	chr18:17234482-17235482	NOTEST	0	0
4921534H16Rik	chr9:97444394-98033167	NOTEST	0	0
4921539E11Rik	chr4:103230444-103290863	NOTEST	0	0
4922502D21Rik	chr6:129322164-129331781	NOTEST	0	0
4922502H24Rik	chr13:101391870-101397580	NOTEST	0	0
4922502N22Rik	chr6:139315596-139322576	NOTEST	0	0
4930401C15Rik	chr10:25779313-25837437	NOTEST	0	0
4930401O12Rik	chr13:31213409-31241086	NOTEST	0	0
4930402F06Rik	chr2:35375561-35397174	NOTEST	0	0
4930402F11Rik	chr7:69496093-69499689	NOTEST	0	0
4930402K13Rik	chrX:9104561-9106342	NOTEST	0	0
4930404A05Rik	chr16:52799507-52815744	NOTEST	0	0
4930404A10Rik	chr11:54370651-54426755	NOTEST	0	0
4930404H11Rik	chr12:71540606-71556133	NOTEST	0	0
4930405A10Rik	chr14:22019711-23094571	NOTEST	0	0
4930405D11Rik	chr11:90804690-90895152	NOTEST	0	0
4930406D18Rik	chr3:100426404-100437754	NOTEST	0	0
4930412B13Rik	chr2:117821927-117909136	NOTEST	0	0
4930412D23Rik	chrX:127721175-127736554	NOTEST	0	0
4930412O13Rik	chr2:9881245-9889540	NOTEST	0	0
4930413E15Rik	chr5:118952338-118961261	NOTEST	0	0
4930413M19Rik	chr14:50503768-50520943	NOTEST	0	0
4930414N06Rik	chr19:44931118-44984550	NOTEST	0	0
4930415L06Rik	chrX:89930096-89932852	NOTEST	0	0
4930417O13Rik	chr6:125265524-125273777	NOTEST	0	0
4930417O22Rik	chr11:101952420-101960574	NOTEST	0	0
4930419G24Rik	chr3:32949633-33143191	NOTEST	0	0
4930423M02Rik	chr4:5632327-5642284	NOTEST	0	0
4930425K10Rik	chr5:67933611-67977070	NOTEST	0	0
4930428D18Rik	chrX:76393349-76397979	NOTEST	0	0
4930428E07Rik	chr12:37880704-38633410	NOTEST	0	0
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4930429F24Rik	chr9:79793640-79803235	NOTEST	0	0
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4930430F21Rik	chr15:31039125-31043331	NOTEST	0	0
4930430J02Rik	chr9:57391069-57400364	NOTEST	0	0
4930432M17Rik	chr3:121670762-121682982	NOTEST	0	0

4930433B08Rik	chr3:18468284-18480477	NOTEST	0	0
4930433I11Rik	chr7:40987608-40994833	NOTEST	0	0
4930434J06Rik	chr14:71856708-71920438	NOTEST	0	0
4930435E12Rik	chr16:38812204-38828749	NOTEST	0	0
4930438E09Rik	chr14:67233291-67430952	NOTEST	0	0
4930440C22Rik	chr1:94797441-94802472	NOTEST	0	0
4930441J16Rik	chr2:74298939-74307717	NOTEST	0	0
4930442J19Rik	chr2:151302038-151316003	NOTEST	0	0
4930442L01Rik	chr3:96829825-96870926	NOTEST	0	0
4930443O20Rik	chr2:85073613-85086461	NOTEST	0	0
4930444F02Rik	chr10:18797298-18831930	NOTEST	0	0
4930444G20Rik	chr10:22066308-22068079	NOTEST	0	0
4930447A16Rik	chr15:37366174-37792428	NOTEST	0	0
4930447J18Rik	chr14:47898863-47944189	NOTEST	0	0
4930447N08Rik	chr3:122729157-122859374	NOTEST	0	0
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4930448H16Rik	chr5:143226991-143234748	NOTEST	0	0
4930448I06Rik	chr1:41167559-41181252	NOTEST	0	0
4930448I18Rik	chr5:50151332-50156092	NOTEST	0	0
4930448K20Rik	chr4:9915964-9917397	NOTEST	0	0
4930449E01Rik	chr14:105498787-105505628	NOTEST	0	0
4930449E18Rik	chr19:57273959-57277052	NOTEST	0	0
4930449I24Rik	chr5:146502376-146516902	NOTEST	0	0
4930451C15Rik	chr16:17544464-17561247	NOTEST	0	0
4930451I11Rik	chr7:126830473-126831496	NOTEST	0	0
4930452A19Rik	chr17:9750751-9775866	NOTEST	0	0
4930452N14Rik	chr1:154241520-154270416	NOTEST	0	0
4930453H23Rik	chrX:21206579-21221665	NOTEST	0	0
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4930455C13Rik	chr10:21295978-21368889	NOTEST	0	0
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4930455F16Rik	chr16:4219911-4229116	NOTEST	0	0
4930455H04Rik	chr3:116918261-116984406	NOTEST	0	0
4930455J16Rik	chr13:58741073-58762311	NOTEST	0	0
4930456L15Rik	chr4:103290958-103311832	NOTEST	0	0
4930459C07Rik	chr10:96226206-96248708	NOTEST	0	0
4930459L07Rik	chr5:58443239-58452998	NOTEST	0	0
4930461G14Rik	chr9:58455172-58469623	NOTEST	0	0
4930463O16Rik	chr10:84488292-84497676	NOTEST	0	0
4930468A15Rik	chrX:76582609-76602924	NOTEST	0	0
4930470H14Rik	chr17:4044657-4082995	NOTEST	0	0
4930470P17Rik	chr2:170579417-170602017	NOTEST	0	0
4930471G03Rik	chr18:36017657-36197160	NOTEST	0	0
4930471M09Rik	chr6:91430459-91440854	NOTEST	0	0
4930473A02Rik	chr2:130450277-130563749	NOTEST	0	0
4930473O22Rik	chr10:97590983-97596931	NOTEST	0	0
4930474H20Rik	chr14:90126890-90269760	NOTEST	0	0
4930474M22Rik	chr17:14279505-14404790	NOTEST	0	0
4930474N05Rik	chr14:36094964-36096855	NOTEST	0	0
4930478L05Rik	chr16:78540335-78576688	NOTEST	0	0
4930478P22Rik	chr5:35361552-35367677	NOTEST	0	0

4930480E11Rik	chrX:78369642-78371128	NOTEST	0	0
4930480G23Rik	chr4:19979444-20005739	NOTEST	0	0
4930480K15Rik	chr17:90033643-91092802	NOTEST	0	0
4930480M12Rik	chr12:26211266-26240707	NOTEST	0	0
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4930486F22Rik	chr10:86048745-86498896	NOTEST	0	0
4930486I03Rik	chr1:20057778-20618057	NOTEST	0	0
4930487D11Rik	chr5:38344388-38349197	NOTEST	0	0
4930487H11Rik	chr1:62703316-62818692	NOTEST	0	0
4930488B22Rik	chr1:184712496-184718989	NOTEST	0	0
4930500L23Rik	chr5:139523750-139541339	NOTEST	0	0
4930502E09Rik	chr11:84829177-84830868	NOTEST	0	0
4930503B20Rik	chr3:146641931-146651715	NOTEST	0	0
4930503E14Rik	chr14:44163166-44171371	NOTEST	0	0
4930503E24Rik	chr10:124469073-124524488	NOTEST	0	0
4930503H13Rik	chrX:156539482-156540117	NOTEST	0	0
4930503O07Rik	chr1:194212186-194222759	NOTEST	0	0
4930504O13Rik	chr11:58446142-58452966	NOTEST	0	0
4930505G20Rik	chr14:115092214-116525192	NOTEST	0	0
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4930509K18Rik	chr4:40313231-40317719	NOTEST	0	0
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4930511E03Rik	chr6:94943833-94951545	NOTEST	0	0
4930513D17Rik	chr5:39461748-39603574	NOTEST	0	0
4930513O06Rik	chrX:139086242-139093403	NOTEST	0	0
4930515B02Rik	chr4:140872692-140878057	NOTEST	0	0
4930515G16Rik	chr6:67565233-67565699	NOTEST	0	0
4930515L03Rik	chr2:16918677-17013726	NOTEST	0	0
4930515L19Rik	chrX:46267558-46328911	NOTEST	0	0
4930517E11Rik	chr2:124089968-124667789	NOTEST	0	0
4930518P08Rik	chr13:50753392-50765248	NOTEST	0	0
4930519D14Rik	chr13:30615042-30624258	NOTEST	0	0
4930519F16Rik	chrX:103232280-103256606	NOTEST	0	0
4930519F24Rik	chr9:100022299-100034670	NOTEST	0	0
4930519G04Rik	chr5:114853713-114883879	NOTEST	0	0
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4930520P13Rik	chr13:70232821-70248122	NOTEST	0	0
4930521E06Rik	chr1:44551670-44796836	NOTEST	0	0
4930522H14Rik	chr4:109505331-109531297	NOTEST	0	0
4930522O17Rik	chr4:53246195-53251120	NOTEST	0	0
4930523O13Rik	chr15:46435865-46496179	NOTEST	0	0
4930524C18Rik	chr14:114831964-114861327	NOTEST	0	0
4930524N10Rik	chrX:154339224-154343392	NOTEST	0	0
4930524O05Rik	chr19:10634232-10665210	NOTEST	0	0
4930524O08Rik	chr9:89826518-89864028	NOTEST	0	0
4930525M21Rik	chrX:38013907-38018815	NOTEST	0	0
4930527F14Rik	chr14:45543709-45562876	NOTEST	0	0
4930527G23Rik	chr18:29396715-29496416	NOTEST	0	0
4930528D03Rik	chr13:59733649-59737470	NOTEST	0	0
4930528P14Rik	chr2:115329265-115344280	NOTEST	0	0
4930529K09Rik	chr14:86245969-86262042	NOTEST	0	0
4930529L06Rik	chr16:84679788-84685147	NOTEST	0	0
4930532M18Rik	chr1:154241520-154270416	NOTEST	0	0

4930533B01Rik	chr2:113220186-113716767	NOTEST	0	0
4930533P14Rik	chr1:96612056-96662573	NOTEST	0	0
4930539C22Rik	chr3:134404142-134423635	NOTEST	0	0
4930539N22Rik	chr3:13471654-14182287	NOTEST	0	0
4930540M03Rik	chr9:15559863-15641220	NOTEST	0	0
4930542D17Rik	chr16:50589858-50654166	NOTEST	0	0
4930543E12Rik	chr7:113100235-113142015	NOTEST	0	0
4930544D05Rik	chr11:70614882-70619194	NOTEST	0	0
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4930545E07Rik	chr18:17568745-17580990	NOTEST	0	0
4930545H06Rik	chr10:68319064-68321142	NOTEST	0	0
4930547E08Rik	chr2:103804451-103810622	NOTEST	0	0
4930547E14Rik	chr16:59613320-60605531	NOTEST	0	0
4930548G14Rik	chr15:46623304-46639858	NOTEST	0	0
4930548H24Rik	chr5:31485858-31488262	NOTEST	0	0
4930548J01Rik	chr17:4119445-4122102	NOTEST	0	0
4930548K13Rik	chr4:26635819-26705449	NOTEST	0	0
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4930549G23Rik	chr18:67774875-67799943	NOTEST	0	0
4930552N02Rik	chr4:52814603-52828269	NOTEST	0	0
4930552P12Rik	chr19:55640588-55702204	NOTEST	0	0
4930553E22Rik	chr16:84371142-84375505	NOTEST	0	0
4930554C24Rik	chr9:84774397-84784351	NOTEST	0	0
4930555G01Rik	chr14:5050628-5059243	NOTEST	0	0
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4930556J02Rik	chr14:61492687-61500382	NOTEST	0	0
4930557A04Rik	chrX:9849702-9850252	NOTEST	0	0
4930557J02Rik	chr5:34007178-34169526	NOTEST	0	0
4930558C23Rik	chr3:95386457-95402841	NOTEST	0	0
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4930558K02Rik	chr1:161942088-161979636	NOTEST	0	0
4930562C15Rik	chr16:4835415-4867691	NOTEST	0	0
4930562F07Rik	chr1:160044379-160078586	NOTEST	0	0
4930563D23Rik	chr16:92318762-92321441	NOTEST	0	0
4930563F08Rik	chr5:131437681-132542343	NOTEST	0	0
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4930564C03Rik	chr17:44495986-45119284	NOTEST	0	0
4930564D02Rik	chr3:105066843-105078806	NOTEST	0	0
4930565D16Rik	chr3:84349375-84379921	NOTEST	0	0
4930565N06Rik	chr16:36880518-36933085	NOTEST	0	0
4930567H12Rik	chr8:125584637-125616670	NOTEST	0	0
4930567H17Rik	chrX:70393900-70394740	NOTEST	0	0
4930567J20Rik	chr16:71249903-71267176	NOTEST	0	0
4930567K20Rik	chr10:10686058-11082331	NOTEST	0	0
4930568D16Rik	chr2:35354217-35367729	NOTEST	0	0
4930568E12Rik	chr9:13091266-13105855	NOTEST	0	0
4930571K23Rik	chr7:125368860-125371013	NOTEST	0	0
4930571O06Rik	chr8:113517281-113550808	NOTEST	0	0
4930572K03Rik	chr5:127170564-127184356	NOTEST	0	0
4930572O03Rik	chr5:15652287-15657059	NOTEST	0	0
4930572O13Rik	chr14:25139794-25143241	NOTEST	0	0

4930573O16Rik	chr2:52136646-52338798	NOTEST	0	0
4930578E11Rik	chr18:29396715-29496416	NOTEST	0	0
4930578I06Rik	chr14:63971121-63987780	NOTEST	0	0
4930578N18Rik	chr16:76122612-76156086	NOTEST	0	0
4930583P06Rik	chr2:124089968-124667789	NOTEST	0	0
4930584F24Rik	chr5:26460069-26493314	NOTEST	0	0
4930590L20Rik	chr1:140246256-140656402	NOTEST	0	0
4930591A17Rik	chr2:179414935-179416880	NOTEST	0	0
4930592A05Rik	chr15:33083128-33653436	NOTEST	0	0
4930592I03Rik	chr18:82910878-83005314	NOTEST	0	0
4930593A02Rik	chr3:58692588-58788524	NOTEST	0	0
4930593C16Rik	chr9:120924454-120930802	NOTEST	0	0
4930596D02Rik	chr14:35809485-35811978	NOTEST	0	0
4930596I21Rik	chr1:138963708-139176042	NOTEST	0	0
4930597G03Rik	chr14:51317334-51345489	NOTEST	0	0
4930598F16Rik	chr1:95701183-95716518	NOTEST	0	0
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4931403E22Rik	chr19:26605159-26823907	NOTEST	0	0
4931403G20Rik	chr12:69746847-69987002	NOTEST	0	0
4931408C20Rik	chr1:26681800-26687460	NOTEST	0	0
4931412M21	chr12:10446387-10531303	NOTEST	0	0
4931417E11Rik	chr6:73436964-73471021	NOTEST	0	0
4931419H13Rik	chr3:55055241-55084002	NOTEST	0	0
4931420L22Rik	chr16:71131075-71139029	NOTEST	0	0
4931428L18Rik	chr1:31141077-31222656	NOTEST	0	0
4931429L15Rik	chr9:46303360-46319986	NOTEST	0	0
4931430N09Rik	chr6:118587239-119221614	NOTEST	0	0
4931431B13Rik	chr7:128173945-128206366	NOTEST	0	0
4931431F19Rik	chr7:104127912-104129823	NOTEST	0	0
4931440L10Rik	chr1:134540940-134549682	NOTEST	0	0
4932411N23Rik	chrX:126812461-126834004	NOTEST	0	0
4932413F04Rik	chr9:103482935-103761837	NOTEST	0	0
4932414J04Rik	chr11:21494729-21511180	NOTEST	0	0
4932415M13Rik	chr17:53716508-53733843	NOTEST	0	0
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4932443I19Rik	chr8:13705888-13743066	NOTEST	0	0
4933400A11Rik	chrX:169685198-169990797	NOTEST	0	0
4933400B14Rik	chr17:89320226-89327333	NOTEST	0	0
4933400F21Rik	chr1:89454810-89895282	NOTEST	0	0
4933400L20Rik	chr8:103603798-103680382	NOTEST	0	0
4933401B06Rik	chrX:107542581-107543800	NOTEST	0	0
4933401D09Rik	chr17:15631787-15641102	NOTEST	0	0
4933402E13Rik	chrX:62283498-62292078	NOTEST	0	0
4933402J07Rik	chr8:87563906-87589197	NOTEST	0	0
4933402J10Rik	chr5:59963118-59986002	NOTEST	0	0
4933402J15Rik	chr14:74355526-74369741	NOTEST	0	0
4933402N03Rik	chr7:131138346-131146283	NOTEST	0	0
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4933404K08Rik	chr13:23278349-23282267	NOTEST	0	0
4933405E24Rik	chr11:54177771-54213288	NOTEST	0	0
4933405O20Rik	chr7:49975349-50863289	NOTEST	0	0

4933406D12Rik	chr2:146542930-146546108	NOTEST	0	0
4933406J08Rik	chr2:122186271-122206393	NOTEST	0	0
4933406J10Rik	chr7:82648613-82777852	NOTEST	0	0
4933406K04Rik	chr12:106685606-106716324	NOTEST	0	0
4933407E24Rik	chr4:124569178-124575538	NOTEST	0	0
4933407G14Rik	chr10:75449509-75463104	NOTEST	0	0
4933407I05Rik	chr9:51914428-51927003	NOTEST	0	0
4933409G03Rik	chr2:68582412-68616463	NOTEST	0	0
4933411G06Rik	chr10:51756173-51757194	NOTEST	0	0
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4933416I08Rik	chrX:53686490-53691332	NOTEST	0	0
4933416M07Rik	chr8:27138772-27174646	NOTEST	0	0
4933417A18Rik	chr13:34924408-34963809	NOTEST	0	0
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4933417G07Rik	chr3:55625197-56183701	NOTEST	0	0
4933417O13Rik	chr7:143107253-143427042	NOTEST	0	0
4933421I07Rik	chr7:42445461-42448080	NOTEST	0	0
4933425B07Rik	chr14:46602805-46637423	NOTEST	0	0
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4933431G14Rik	chr6:72097607-72154570	NOTEST	0	0
4933432G23Rik	chr9:118429838-118437048	NOTEST	0	0
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4933433G19Rik	chr13:66912097-67032405	NOTEST	0	0
4933433H22Rik	chr17:84078659-84089875	NOTEST	0	0
4933434I20Rik	chr8:83348471-83379402	NOTEST	0	0
4933436H12Rik	chr7:68417423-68426133	NOTEST	0	0
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4933438B17Rik	chr5:127030788-127088529	NOTEST	0	0
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4933440M02Rik	chr7:125331781-125349786	NOTEST	0	0
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5031434C07Rik	chr6:112273757-112330423	NOTEST	0	0
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5430401F13Rik	chr6:131543761-131553757	NOTEST	0	0
5430402E10Rik	chrX:77919785-77925062	NOTEST	0	0
5430403N17Rik	chr8:35864084-35882957	NOTEST	0	0
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5430427M07Rik	chr12:90998491-91384409	NOTEST	0	0
5430428K19Rik	chrX:6400144-6633717	NOTEST	0	0
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5530400C23Rik	chr6:133292215-133295790	NOTEST	0	0
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7420426K07Rik	chr9:98903118-98904622	NOTEST	0	0
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7420700N18Rik	chr8:31367748-31382438	NOTEST	0	0
7420701I03Rik	chr12:11047812-11078741	NOTEST	0	0
7530416G11Rik	chr15:85492735-85503227	NOTEST	0	0
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8030442B05Rik	chr2:11338365-11398500	NOTEST	0	0
8030443G20Rik	chr4:108879069-108972077	NOTEST	0	0
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9130015L21Rik	chr2:160016652-160040620	NOTEST	0	0
9130209A04Rik	chr18:47452667-47470868	NOTEST	0	0
9130221F21Rik	chr6:72013895-72042528	NOTEST	0	0
9130230L23Rik	chr5:65987927-66004285	NOTEST	0	0
9230009I02Rik	chr11:51085086-51091835	NOTEST	0	0
9230102K24Rik	chr10:110600649-110615961	NOTEST	0	0
9230102O04Rik	chr2:9881245-9889540	NOTEST	0	0
9230104L09Rik	chr2:148846713-148850934	NOTEST	0	0
9230110F15Rik	chr9:35838328-35844150	NOTEST	0	0
9230112D13Rik	chr14:34511620-34522801	NOTEST	0	0
9330162B11Rik	chr1:187609005-188214884	NOTEST	0	0
9330178D15Rik	chr3:155976353-156008592	NOTEST	0	0
9330182O14Rik	chr15:40134364-40150010	NOTEST	0	0
9430007A20Rik	chr4:144519821-144529353	NOTEST	0	0
9430014N10Rik	chr15:93904855-93927111	NOTEST	0	0
9430019J16Rik	chr2:75436056-75444179	NOTEST	0	0
9430069I07Rik	chr15:34306680-34436240	NOTEST	0	0
9530002B09Rik	chr4:122689258-122705135	NOTEST	0	0
9530003J23Rik	chr10:117233752-117238681	NOTEST	0	0
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9630028H03Rik	chr2:135580529-135583220	NOTEST	0	0
9830166K06Rik	chr19:8651795-8663335	NOTEST	0	0
9930111H07Rik	chr1:85775270-85784694	NOTEST	0	0
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A530053G22Rik	chr6:60279042-60403707	NOTEST	0	0
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A630073D07Rik	chr6:132625110-132627511	NOTEST	0	0
A630076J17Rik	chr3:107230613-107234031	NOTEST	0	0
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A630095N17Rik	chr1:75220094-75232093	NOTEST	0	0
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AF366264	chr8:13835230-13838089	NOTEST	0	0
AI314278	chr7:89426305-89432077	NOTEST	0	0
AI507597	chr4:141614232-141618633	NOTEST	0	0
AI606473	chr3:154330820-154334687	NOTEST	0	0
AI646519	chr2:147361542-147362793	NOTEST	0	0
AI747448	chr3:144910920-144932529	NOTEST	0	0
AU015228	chr2:130100393-130103375	NOTEST	0	0
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AU016765	chr17:64514088-64555590	NOTEST	0	0
AU018091	chr7:3154658-3169203	NOTEST	0	0
AU018829,Gm1636	chr5_JH584299_random:82903	NOTEST	0	0
AU021063	chr15:101221190-101232756	NOTEST	0	0
AU022751	chrX:6081217-6083420	NOTEST	0	0
AV320801,Gm1502	chrX:135494587-135504594	NOTEST	0	0
AY074887	chr9:54950256-54958030	NOTEST	0	0
AY512915	chr6:95290573-95333993	NOTEST	0	0
AY512931	chr8:45060701-45065418	NOTEST	0	0
AY761184	chr8:21702523-21703647	NOTEST	0	0
AY761185	chr8:20943693-20944748	NOTEST	0	0

Aadac	chr3:60031787-60040157	NOTEST	0	0
Aadacl2	chr3:60006742-60025420	NOTEST	0	0
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Abca15	chr7:120328683-120407687	NOTEST	0	0
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Abcb5	chr12:118867823-118966421	NOTEST	0	0
Abhd12b	chr12:70154170-70183206	NOTEST	0	0
Ace3	chr11:105994674-106005443	NOTEST	0	0
Acer1	chr17:56953489-56982126	NOTEST	0	0
Acnat1	chr4:49443531-49451109	NOTEST	0	0
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Acpt	chr7:44253086-44257204	NOTEST	0	0
Acrv1	chr9:36693219-36698837	NOTEST	0	0
Acsbg2	chr17:56843103-56874447	NOTEST	0	0
Acsm1	chr7:119617827-119662515	NOTEST	0	0
Acsm2	chr7:119554339-119600694	NOTEST	0	0
Acsm4	chr7:119690025-119714566	NOTEST	0	0
Acsm5	chr7:119526264-119543360	NOTEST	0	0
Acss2os	chr2:155518042-155562743	NOTEST	0	0
Actl11	chr9:107928468-107932461	NOTEST	0	0
Actl7a	chr4:56743421-56744925	NOTEST	0	0
Actrt1	chrX:46329006-46330345	NOTEST	0	0
Actrt2	chr4:154666427-154667867	NOTEST	0	0
Adad1	chr3:37063655-37111512	NOTEST	0	0
Adad2	chr8:119612746-119616926	NOTEST	0	0
Adam1b	chr5:121500096-121502980	NOTEST	0	0
Adam20	chr8:40793272-40797303	NOTEST	0	0
Adam26a	chr8:43568275-43576707	NOTEST	0	0
Adam26b	chr8:43519863-43528137	NOTEST	0	0
Adam29	chr8:55870911-55906964	NOTEST	0	0
Adam3	chr8:24677233-24725825	NOTEST	0	0
Adam30	chr3:98160811-98163173	NOTEST	0	0
Adam34	chr8:43650308-43665560	NOTEST	0	0
Adam39	chr8:40823008-40826861	NOTEST	0	0
Adam6a	chr12:113543907-113546414	NOTEST	0	0
Adam6b	chr12:113489564-113491835	NOTEST	0	0
Adh4	chr3:138415496-138430892	NOTEST	0	0
Adh6-ps1	chr3:138374120-138388291	NOTEST	0	0
Adh6a	chr3:138313285-138331134	NOTEST	0	0
Afm	chr5:90518948-90553544	NOTEST	0	0
Agr3	chr12:35925620-35949730	NOTEST	0	0
Agxt	chr1:93135239-93145421	NOTEST	0	0
Agxt2	chr15:10358578-10409738	NOTEST	0	0
Aipl1	chr11:72028721-72037509	NOTEST	0	0
Akap4	chrX:7067514-7078606	NOTEST	0	0
Akp3	chr1:87125007-87127912	NOTEST	0	0
Akr1c12	chr13:4268171-4279399	NOTEST	0	0
Akr1c18	chr13:4132626-4150631	NOTEST	0	0
Akr1c20	chr13:4507158-4523333	NOTEST	0	0
Akr1c21	chr13:4574074-4586543	NOTEST	0	0
Akr1c6	chr13:4434342-4457530	NOTEST	0	0
Akr1cl	chr1:65013085-65032748	NOTEST	0	0
Akr1d1	chr6:37530172-37568815	NOTEST	0	0

Alb	chr5:90460888-90476603	NOTEST	0	0
Allc	chr12:28553755-28582483	NOTEST	0	0
Alms1-ps2	chr6:85792116-85804057	NOTEST	0	0
Alox12e	chr11:70315612-70322518	NOTEST	0	0
Alpi	chr1:87098001-87101606	NOTEST	0	0
Alpl2	chr1:87086690-87089928	NOTEST	0	0
Ambp	chr4:63143278-63154142	NOTEST	0	0
Amelx	chrX:168795098-169304440	NOTEST	0	0
Amtn	chr5:88376107-88385916	NOTEST	0	0
Amy2a2,Amy2a5	chr3:113345048-113356658	NOTEST	0	0
Amy2a5	chr3:113345048-113356658	NOTEST	0	0
Amy2b	chr3:113147655-113156727	NOTEST	0	0
Ang2	chr14:51195485-51195923	NOTEST	0	0
Ang3,Ang5	chr14:43957068-43963080	NOTEST	0	0
Ang4	chr14:51763891-51773590	NOTEST	0	0
Ang5	chr14:43957068-43963080	NOTEST	0	0
Ang6	chr14:44001663-44006418	NOTEST	0	0
Angptl3	chr4:98936658-99120915	NOTEST	0	0
Ankar	chr1:72642979-72700564	NOTEST	0	0
Ankrd36	chr11:5569683-5689337	NOTEST	0	0
Ankrd53	chr6:83762645-83768326	NOTEST	0	0
Anks4b	chr7:120173857-120183716	NOTEST	0	0
Antxrl	chr14:34051129-34102754	NOTEST	0	0
Anxa13	chr15:58341463-58389274	NOTEST	0	0
Apcs	chr1:172893960-172895054	NOTEST	0	0
Apoa4	chr9:46240843-46243458	NOTEST	0	0
Apoa5	chr9:46268607-46271919	NOTEST	0	0
Apobec4	chr1:152750550-152757544	NOTEST	0	0
Apoc3	chr9:46233049-46235636	NOTEST	0	0
Apoc4	chr7:19678083-19681460	NOTEST	0	0
Apol7c	chr15:77524866-77533315	NOTEST	0	0
Apom	chr17:35128996-35131752	NOTEST	0	0
Apoo-ps	chrX:94367109-94417092	LOWDAT	0	0
Aqp6	chr15:99601399-99605477	NOTEST	0	0
Arhgap20os	chr9:51765351-51875885	NOTEST	0	0
Arhgap27os3	chr11:103331483-103363692	NOTEST	0	0
Arhgef38	chr3:133159530-133234889	NOTEST	0	0
Arid3c	chr4:41723835-41731142	NOTEST	0	0
Arl13a	chrX:134187500-134208030	NOTEST	0	0
Arl14	chr3:69222418-69223618	NOTEST	0	0
Armc12	chr17:28530860-28538975	NOTEST	0	0
Arrdc5	chr17:56294110-56300286	NOTEST	0	0
Art2a-ps	chr7:101552452-101560865	NOTEST	0	0
Ascl1	chr10:87491040-87493660	NOTEST	0	0
Ascl5	chr1:136050803-136051370	NOTEST	0	0
Asic5	chr3:81996921-82021233	NOTEST	0	0
Asmt	chrX:170672643-170678054	NOTEST	0	0
Astl	chr2:127338638-127357656	NOTEST	0	0
Asz1	chr6:18050963-18109061	NOTEST	0	0
Atcayos	chr10:81194690-81230779	NOTEST	0	0
Atf7ip2	chr16:10192905-10243051	NOTEST	0	0
Atoh1	chr6:64729145-64731235	NOTEST	0	0
Atoh7	chr10:63100155-63100605	NOTEST	0	0

Atp6v0c-ps2	chr17:24163864-24169429	NOTEST	0	0
Atp6v1b1	chr6:83743016-83758810	NOTEST	0	0
Atp6v1e2	chr17:86944108-86947887	NOTEST	0	0
Atp6v1g3	chr1:138273737-138289462	NOTEST	0	0
Aurkc	chr7:6995384-7003091	NOTEST	0	0
Avp	chr2:130580676-130582541	NOTEST	0	0
Avpr2	chrX:73892101-73911298	NOTEST	0	0
Awat1	chrX:100572246-100578206	NOTEST	0	0
Aym1	chr5:113357293-113357821	NOTEST	0	0
B020004C17Rik	chr14:57015133-57018982	NOTEST	0	0
B020004J07Rik	chr4:101834968-101844022	NOTEST	0	0
B020014A21Rik	chr10:3125090-3133193	NOTEST	0	0
B020031M17Rik	chr13:119949356-119950806	NOTEST	0	0
B930025P03Rik	chr8:10870421-10882454	NOTEST	0	0
BB014433	chr8:15041445-15046078	NOTEST	0	0
BB019430	chr10:58696744-58704277	NOTEST	0	0
BB031773	chr4:102760134-103011965	NOTEST	0	0
BB287469	chr12:87816576-87820676	NOTEST	0	0
BC030499	chr11:78290840-78296805	NOTEST	0	0
BC039966	chr4:153948454-153950476	NOTEST	0	0
BC048502	chr15:103438959-103448459	NOTEST	0	0
BC048507	chr13:67863325-67863923	NOTEST	0	0
BC048562	chr9:108436481-108446083	NOTEST	0	0
BC048602	chr15:35307009-35328535	NOTEST	0	0
BC048609	chr19:6080037-6084891	NOTEST	0	0
BC048671	chr6:90301269-90305448	NOTEST	0	0
BC049730	chr7:24709258-24714535	NOTEST	0	0
BC051537	chr17:34083842-34095309	NOTEST	0	0
BC051665	chr13:60781886-60786364	NOTEST	0	0
BC052688	chr13:61771579-61787282	NOTEST	0	0
BC053393	chr11:46193848-46589232	NOTEST	0	0
BC055402	chr1:57200644-57214996	NOTEST	0	0
BC061195	chrX:93156153-93156871	NOTEST	0	0
BC061212	chr5:95732091-95736173	NOTEST	0	0
BC061237	chr14:44500121-44506345	NOTEST	0	0
BC080695	chr4:143567466-143573798	NOTEST	0	0
BC100530	chr16:36359381-36367570	NOTEST	0	0
BC117090	chr16:36321664-36334332	NOTEST	0	0
Banf2	chr2:144033101-144073979	NOTEST	0	0
Bc1	chrX:162407199-163352564	NOTEST	0	0
Bcas1os2	chr2:170346990-170427845	NOTEST	0	0
Bcas3os1	chr11:85353163-85832388	NOTEST	0	0
Bcas3os2	chr11:85353163-85832388	NOTEST	0	0
Bcl2a1a	chr9:88956919-88962416	NOTEST	0	0
Bcl2a1c	chr9:114330134-114330578	NOTEST	0	0
Becn2	chr1:175920328-175922225	NOTEST	0	0
Bex6	chr16:32179799-32186944	NOTEST	0	0
Bglap3	chr3:88368616-88369720	NOTEST	0	0
Birc7	chr2:180929022-180934010	NOTEST	0	0
Bmp10	chr6:87429001-87434512	NOTEST	0	0
Boll	chr1:55300068-55363469	NOTEST	0	0
Bpi	chr2:158258240-158284531	NOTEST	0	0
Bpifa1	chr2:154142879-154149217	NOTEST	0	0

Bpifa3	chr2:154130335-154138359	NOTEST	0	0
Bpifa6	chr2:153974944-154000495	NOTEST	0	0
Bpifb2	chr2:153875044-153895270	NOTEST	0	0
Bpifb3	chr2:153918229-153932996	NOTEST	0	0
Bpifb9a	chr2:154257878-154271243	NOTEST	0	0
Bpifb9b	chr2:154307243-154320642	NOTEST	0	0
Brs3	chrX:57043073-57048758	NOTEST	0	0
Bsnd	chr4:106483457-106492243	NOTEST	0	0
Bsph1	chr7:13450840-13473449	NOTEST	0	0
Bsph2	chr7:13554865-13571067	NOTEST	0	0
Btg4	chr9:51116000-51119700	NOTEST	0	0
Btnl2	chr17:34354821-34369492	NOTEST	0	0
Btnl4	chr17:34469041-34475937	NOTEST	0	0
C030007H22Rik	chr1:89360343-89406133	NOTEST	0	0
C030013G03Rik	chr17:12419973-12507704	NOTEST	0	0
C030018K13Rik	chr5:64477007-64483966	NOTEST	0	0
C030029H02Rik	chr7:136268323-136318511	NOTEST	0	0
C130026I21Rik	chr1:85246343-85270566	NOTEST	0	0
C130079G13Rik	chr3:59925213-59937949	NOTEST	0	0
C1rb	chr6:124570429-124581044	NOTEST	0	0
C230024C17Rik	chr1:153721239-153737829	NOTEST	0	0
C230079O03Rik	chr7:136332215-136349415	NOTEST	0	0
C330011F03Rik	chr17:50733126-51613053	NOTEST	0	0
C330013F16Rik	chrX:139240225-139357738	NOTEST	0	0
C330022C24Rik	chr7:140835495-140846769	NOTEST	0	0
C330046G13Rik	chr10:84547416-84553338	NOTEST	0	0
C430002E04Rik	chr3:41487680-41493199	NOTEST	0	0
C4bp	chr1:130635920-130661618	NOTEST	0	0
C630028M04Rik	chr4:51968093-52051110	NOTEST	0	0
C86187	chr7:46967746-46975911	NOTEST	0	0
C86695	chr8:21958713-21964303	NOTEST	0	0
C87198	chr12:56591058-56594554	NOTEST	0	0
C87414	chr5:93635184-93671463	NOTEST	0	0
C87499	chr4:88627319-88634186	NOTEST	0	0
C87977	chr4:144206761-144213017	NOTEST	0	0
Cabp2	chr19:4082487-4087339	NOTEST	0	0
Cabs1	chr5:87979450-87981541	NOTEST	0	0
Cacng6	chr7:3424661-3434940	NOTEST	0	0
Calcr	chr6:3685719-3764713	NOTEST	0	0
Calhm1	chr19:47141034-47144174	NOTEST	0	0
Calm4	chr13:3837756-3838671	NOTEST	0	0
Calm5	chr13:3854172-3854761	NOTEST	0	0
Calml3	chr13:3802892-3804318	NOTEST	0	0
Capza3	chr6:140041524-140042786	NOTEST	0	0
Casp14	chr10:78711994-78718293	NOTEST	0	0
Catsper1	chr19:5335740-5344153	NOTEST	0	0
Catsperb	chr12:101404672-101626009	NOTEST	0	0
Catsperg2	chr7:29697218-29727015	NOTEST	0	0
Ccdc110	chr8:45934648-45944145	NOTEST	0	0
Ccdc135	chr8:95055102-95078141	NOTEST	0	0
Ccdc144b	chr3:35959305-36053547	NOTEST	0	0
Ccdc152	chr15:3280626-3303526	NOTEST	0	0
Ccdc154	chr17:25162460-25171913	NOTEST	0	0

Ccdc183	chr2:25608628-25617678	NOTEST	0	0
Ccdc34os	chr2:110017816-110050479	NOTEST	0	0
Ccdc42b	chr5:120613129-120634235	NOTEST	0	0
Ccdc70	chr8:21970595-21974041	NOTEST	0	0
Ccl17	chr8:94810452-94812036	NOTEST	0	0
Ccl20	chr1:83116765-83119167	NOTEST	0	0
Ccl26	chr5:135560447-135563569	NOTEST	0	0
Ccl27b	chr4_JH584293_random:7077-2	NOTEST	0	0
Ccr1l1	chr9:123976948-123978408	NOTEST	0	0
Ccr6	chr17:8236042-8257129	NOTEST	0	0
Cd209c	chr8:3940221-3946863	NOTEST	0	0
Cd209d	chr8:3871823-3878499	NOTEST	0	0
Cd300c	chr11:114956277-114960417	NOTEST	0	0
Cd300lh,Gm11710	chr11:115031446-115037690	NOTEST	0	0
Cd40lg	chrX:57212142-57224042	NOTEST	0	0
Cdh16	chr8:104446718-104624396	NOTEST	0	0
Cdhr5	chr7:141269084-141276786	NOTEST	0	0
Cdx2	chr5:147300899-147307249	NOTEST	0	0
Cdx4	chrX:103321397-103330224	NOTEST	0	0
Ceacam-ps1	chr7:16649029-16657478	NOTEST	0	0
Ceacam11	chr7:17972166-17978556	NOTEST	0	0
Ceacam12	chr7:18065928-18077986	NOTEST	0	0
Ceacam13	chr7:18009888-18019220	NOTEST	0	0
Ceacam14	chr7:17812681-17815627	NOTEST	0	0
Ceacam18	chr7:43634738-43649294	NOTEST	0	0
Ceacam19	chr7:19875741-19887965	NOTEST	0	0
Ceacam5	chr7:17713251-17761121	NOTEST	0	0
Ceacam9	chr7:16721928-16726110	NOTEST	0	0
Cela2a	chr4:141793611-141826003	NOTEST	0	0
Cela3b	chr4:137421007-137430520	NOTEST	0	0
Celrr	chr1:121087404-121120975	NOTEST	0	0
Ces1b	chr8:93056726-93080017	NOTEST	0	0
Ces1c	chr8:93099015-93131283	NOTEST	0	0
Ces1e	chr8:93201217-93229619	NOTEST	0	0
Ces1f	chr8:93256235-93279736	NOTEST	0	0
Ces1g	chr8:93302368-93337209	NOTEST	0	0
Ces2a	chr8:104734002-104741634	NOTEST	0	0
Ces2b	chr8:104831643-104838652	NOTEST	0	0
Ces2d-ps	chr8:104867423-104874082	NOTEST	0	0
Ces2f	chr8:104947355-104955962	NOTEST	0	0
Ces2h	chr8:105000852-105020410	NOTEST	0	0
Ces3a	chr8:105048598-105058414	NOTEST	0	0
Ces3b	chr8:105083754-105093591	NOTEST	0	0
Cetn1	chr18:9618418-9619469	NOTEST	0	0
Cfc1	chr1:34535647-34544311	NOTEST	0	0
Cfhr1	chr1:139547063-139560222	NOTEST	0	0
Cga	chr4:34893778-34907374	NOTEST	0	0
Chat	chr14:32408202-32465909	NOTEST	0	0
Chil4	chr3:106201490-106219479	NOTEST	0	0
Chrna9	chr5:65967123-65977486	NOTEST	0	0
Chst13	chr6:90308350-90325185	NOTEST	0	0
Cib4	chr5:30485583-30545836	NOTEST	0	0
Cistr-act	chr15:102746440-102746909	NOTEST	0	0

Cks1brt	chr8:85151923-85173622	NOTEST	0	0
Clcnka	chr4:141384610-141398706	NOTEST	0	0
Cldn17	chr16:88505806-88506978	NOTEST	0	0
Cldn18	chr9:99690796-99717267	NOTEST	0	0
Cldn24	chr8:47822142-47822805	NOTEST	0	0
Cldn4	chr5:134945123-134946934	NOTEST	0	0
Cldnd2	chr7:43440815-43443320	NOTEST	0	0
Clec2f	chr6:129014111-129020527	NOTEST	0	0
Clec2g	chr6:128934380-128984707	NOTEST	0	0
Clec4a4	chr6:122990366-123024421	NOTEST	0	0
Clec4g	chr8:3716070-3720651	NOTEST	0	0
Clps	chr17:28558213-28560714	NOTEST	0	0
Clpsl2	chr17:28549486-28552618	NOTEST	0	0
Clrn3	chr7:135511455-135528654	NOTEST	0	0
Cma2	chr14:55971427-55973995	NOTEST	0	0
Cml5	chr6:85817217-85820972	NOTEST	0	0
Cmtm1	chr8:104293541-104310145	NOTEST	0	0
Cmtm2a	chr8:104281041-104293181	NOTEST	0	0
Cmtm2b	chr8:104322226-104330764	NOTEST	0	0
Cngb3	chr4:19280849-19510623	NOTEST	0	0
Cnpy1	chr5:28205462-28237873	NOTEST	0	0
Cort	chr4:149125190-149126741	NOTEST	0	0
Cox8c	chr12:102899305-102900534	NOTEST	0	0
Cpa1	chr6:30639220-30645361	NOTEST	0	0
Cpa5	chr6:30611009-30631521	NOTEST	0	0
Cpb2	chr14:75004109-75388146	NOTEST	0	0
Cpsf4l	chr11:113698170-113710017	NOTEST	0	0
Cpxcr1	chrX:116448943-116478783	NOTEST	0	0
Crisp2	chr17:40764733-40794146	NOTEST	0	0
Crisp3	chr17:40221776-40242258	NOTEST	0	0
Crisp4	chr1:18115190-18137051	NOTEST	0	0
Crnn	chr3:93144786-93149471	NOTEST	0	0
Crxos	chr7:15882616-15904030	NOTEST	0	0
Cryaa	chr17:31677930-31681730	NOTEST	0	0
Cryba1	chr11:77718731-77725293	NOTEST	0	0
Crygb	chr1:65080221-65082290	NOTEST	0	0
Crygc	chr1:65071524-65073532	NOTEST	0	0
Crygd	chr1:65061837-65063440	NOTEST	0	0
Cryge	chr1:65048556-65051163	NOTEST	0	0
Crygf	chr1:65926521-65928304	NOTEST	0	0
Csf2	chr11:54247269-54249899	NOTEST	0	0
Csmd2os	chr4:127988043-128567656	NOTEST	0	0
Csn1s1	chr5:87666207-87682577	NOTEST	0	0
Csn1s2b	chr5:87808121-87824421	NOTEST	0	0
Csn2	chr5:87692618-87699425	NOTEST	0	0
Csn3	chr5:87908587-87979351	NOTEST	0	0
Csnka2ip	chr16:64477810-64479134	NOTEST	0	0
Cst10	chr2:149405248-149410278	NOTEST	0	0
Cst11	chr2:148768617-148771497	NOTEST	0	0
Cst13	chr2:148820098-148830410	NOTEST	0	0
Cst8	chr2:148798838-148805584	NOTEST	0	0
Cst9	chr2:148835146-148838737	NOTEST	0	0
Csta1	chr16:36119945-36131189	NOTEST	0	0

Ctag2	chrX:65047643-65049017	NOTEST	0	0
Ctf2	chr7:127718959-127725616	NOTEST	0	0
Ctrc	chr4:141838239-141846990	NOTEST	0	0
Ctrcos	chr4:141838239-141846990	NOTEST	0	0
Cts3	chr13:61564629-61570127	NOTEST	0	0
Cts6	chr13:61195146-61203392	NOTEST	0	0
Cts7	chr13:61352460-61358170	NOTEST	0	0
Cts8	chr13:61246746-61255348	NOTEST	0	0
Cts8-ps	chr13:61281379-61288850	NOTEST	0	0
Ctsj	chr13:61000277-61005911	NOTEST	0	0
Ctsll3	chr13:60798249-60802844	NOTEST	0	0
Ctsm	chr13:61536443-61541839	NOTEST	0	0
Ctsq	chr13:61035037-61040597	NOTEST	0	0
Ctsr	chr13:61159214-61164188	NOTEST	0	0
Cxcl15	chr5:90794533-90803067	NOTEST	0	0
Cxcl17	chr7:25376818-25566417	NOTEST	0	0
Cxcl3	chr5:90786100-90788093	NOTEST	0	0
Cylc1	chrX:111110417-111123874	NOTEST	0	0
Cylc2	chr4:51216677-51229928	NOTEST	0	0
Cym	chr3:107211294-107221732	NOTEST	0	0
Cyp11b1	chr15:74834891-74841643	NOTEST	0	0
Cyp11b2	chr15:74851009-74856318	NOTEST	0	0
Cyp19a1	chr9:54165936-54193442	NOTEST	0	0
Cyp1a2	chr9:57676936-57683655	NOTEST	0	0
Cyp21a1	chr17:34801347-34804426	NOTEST	0	0
Cyp2a12	chr7:27029089-27036815	NOTEST	0	0
Cyp2a22	chr7:26931630-26939386	NOTEST	0	0
Cyp2a4	chr7:26307191-26315088	NOTEST	0	0
Cyp2a5	chr7:26835338-26843264	NOTEST	0	0
Cyp2b13	chr7:26061494-26096196	NOTEST	0	0
Cyp2b19	chr7:26757186-26772630	NOTEST	0	0
Cyp2b23	chr7:26665226-26686430	NOTEST	0	0
Cyp2b9	chr7:26173408-26210660	NOTEST	0	0
Cyp2c29	chr19:39287084-39330713	NOTEST	0	0
Cyp2c37	chr19:39992423-40012243	NOTEST	0	0
Cyp2c38	chr19:39389555-39463075	NOTEST	0	0
Cyp2c39	chr19:39510821-39568529	NOTEST	0	0
Cyp2c40	chr19:39767072-39812814	NOTEST	0	0
Cyp2c50	chr19:40089678-40113955	NOTEST	0	0
Cyp2c53-ps	chr19:39229253-39274737	NOTEST	0	0
Cyp2c54	chr19:40037939-40073813	NOTEST	0	0
Cyp2c67	chr19:39608858-39649042	NOTEST	0	0
Cyp2c68	chr19:39688835-39741101	NOTEST	0	0
Cyp2c69	chr19:39842659-39886769	NOTEST	0	0
Cyp2c70	chr19:40153360-40187286	NOTEST	0	0
Cyp2d10	chr15:82402845-82407194	NOTEST	0	0
Cyp2d11	chr15:82389153-82394022	NOTEST	0	0
Cyp2d12	chr15:82555097-82559413	NOTEST	0	0
Cyp2d13	chr15:82636749-82642045	NOTEST	0	0
Cyp2d34	chr15:82615964-82620907	NOTEST	0	0
Cyp2d37-ps	chr15:82688749-82690058	NOTEST	0	0
Cyp2d40	chr15:82759832-82764122	NOTEST	0	0
Cyp2d9	chr15:82452376-82456827	NOTEST	0	0

Cyp2g1	chr7:26808926-26821197	NOTEST	0	0
Cyp2j11	chr4:96294508-96348680	NOTEST	0	0
Cyp2j5	chr4:96627431-96664119	NOTEST	0	0
Cyp2t4	chr7:27153713-27158564	NOTEST	0	0
Cyp2w1	chr5:139352616-139357033	NOTEST	0	0
Cyp3a11	chr5:145854606-145879854	NOTEST	0	0
Cyp3a16	chr5:145436308-145469723	NOTEST	0	0
Cyp3a25	chr5:145977193-146009618	NOTEST	0	0
Cyp3a41a	chr5:145694048-145720136	NOTEST	0	0
Cyp3a41b	chr5:145558663-145584730	NOTEST	0	0
Cyp3a44	chr5:145773982-145805874	NOTEST	0	0
Cyp3a57	chr5:145345269-145390512	NOTEST	0	0
Cyp3a59	chr5:146079257-146113283	NOTEST	0	0
Cyp4a10	chr4:115518286-115533649	NOTEST	0	0
Cyp4a12a	chr4:115299045-115332815	NOTEST	0	0
Cyp4a12b	chr4:115411623-115439034	NOTEST	0	0
Cyp4a14	chr4:115486199-115496141	NOTEST	0	0
Cyp4a29	chr4:115242083-115254557	NOTEST	0	0
Cyp4a30b	chr4:115452603-115471062	NOTEST	0	0
Cyp4a31	chr4:115563648-115579015	NOTEST	0	0
Cyp4a32	chr4:115600937-115622366	NOTEST	0	0
Cyp4f37	chr17:32621318-32636184	NOTEST	0	0
Cyp4f40	chr17:32659482-32676480	NOTEST	0	0
Cyp7a1	chr4:6265611-6275631	NOTEST	0	0
Cyp8b1	chr9:121914355-121916305	NOTEST	0	0
Cypt1,Cypt8	chrX:16522871-16523689	NOTEST	0	0
Cypt12	chr3:17948443-17948952	NOTEST	0	0
Cypt14	chrX:39862918-39863604	NOTEST	0	0
Cypt15	chrX:39346265-39346961	NOTEST	0	0
Cypt3	chrX:153558592-153559429	NOTEST	0	0
Cypt4,Cypt9	chr9:24557047-24696293	NOTEST	0	0
Cypt7	chrX:16522871-16523689	NOTEST	0	0
Cypt8	chrX:16522871-16523689	LOWDAT	0	0
Cypt9	chr9:24557047-24696293	LOWDAT	0	0
D030024E09Rik	chr15:61699283-61774451	NOTEST	0	0
D030040B21Rik	chr1:16657551-16662278	NOTEST	0	0
D130058E03	chr6:127296185-127307967	NOTEST	0	0
D14Erttd670e	chr14:19838924-19844677	NOTEST	0	0
D16Erttd519e	chr16:70616424-70624822	NOTEST	0	0
D17Erttd648e	chr17:10840383-12063360	NOTEST	0	0
D530049I02Rik	chr1:73391384-73430779	NOTEST	0	0
D5Erttd577e,Gm328	chr5:95456805-95485589	NOTEST	0	0
D630010B17Rik	chr15:94247201-94255606	NOTEST	0	0
D630013N20Rik	chr10:70601048-70655963	NOTEST	0	0
D730001G18Rik	chr15:74770907-74778859	NOTEST	0	0
D730048I06Rik	chr9:35788049-35790112	NOTEST	0	0
D730050B12Rik	chr13:72809600-72816763	NOTEST	0	0
D7Erttd143e	chr7:3218783-3221015	NOTEST	0	0
D830005E20Rik	chr10:33083482-33476709	NOTEST	0	0
D830015G02Rik	chr14:54968786-54994549	NOTEST	0	0
D930007P13Rik	chr15:103123069-103146828	NOTEST	0	0
D930032P07Rik	chr19:28262447-28720027	NOTEST	0	0
DQ267100	chr12:109603944-109661711	NOTEST	0	0

DQ267101	chr12:109603944-109661711	NOTEST	0	0
DQ267102	chr12:109603944-109661711	NOTEST	0	0
DXBay18,Gm14685	chrX:73137231-73158399	NOTEST	0	0
Dao	chr5:114003734-114025676	NOTEST	0	0
Dbx1	chr7:49631498-49636835	NOTEST	0	0
Dcdc2c	chr12:28437794-28548337	NOTEST	0	0
Dcpp1	chr17:23880875-23882853	NOTEST	0	0
Dcpp2	chr17:23898721-23900787	NOTEST	0	0
Dcpp3	chr17:23917457-23919441	NOTEST	0	0
Dcst1	chr3:89350234-89365239	NOTEST	0	0
Ddi1	chr9:6168611-6377519	NOTEST	0	0
Defa-ps1	chr8:21695011-21695853	NOTEST	0	0
Defa-ps12	chr8:19210461-19212760	NOTEST	0	0
Defa-ps13	chr8:19300676-19304794	NOTEST	0	0
Defa-rs1	chr8:21325887-21327020	NOTEST	0	0
Defa-rs7,Defa23	chr8:21191572-21192550	NOTEST	0	0
Defa17	chr8:21655766-21656736	NOTEST	0	0
Defa2	chr8:21378516-21379495	NOTEST	0	0
Defa20	chr8:21509257-21510237	NOTEST	0	0
Defa21	chr8:21025544-21026517	NOTEST	0	0
Defa22	chr8:21162276-21163249	NOTEST	0	0
Defa23	chr8:21191572-21192550	LOWDAT	0	0
Defa24,Defa6	chr8:21734493-21735471	NOTEST	0	0
Defa25	chr8:21065037-21089644	NOTEST	0	0
Defa26	chr8:21618167-21618972	NOTEST	0	0
Defa3	chr8:21287408-21288377	NOTEST	0	0
Defa4	chr8:21065037-21089644	NOTEST	0	0
Defa5	chr8:21297393-21298375	NOTEST	0	0
Defa6	chr8:21734493-21735471	LOWDAT	0	0
Defb1	chr8:21776554-21795185	NOTEST	0	0
Defb10	chr8:21858900-21862010	NOTEST	0	0
Defb11	chr8:21905373-21906432	NOTEST	0	0
Defb12	chr8:19111930-19114833	NOTEST	0	0
Defb13	chr8:21946761-21948622	NOTEST	0	0
Defb14	chr8:19194327-19195309	NOTEST	0	0
Defb15	chr8:21929812-21932710	NOTEST	0	0
Defb18	chr1:18236472-18237443	NOTEST	0	0
Defb19	chr2:152576085-152580312	NOTEST	0	0
Defb2	chr8:21839925-21843481	NOTEST	0	0
Defb21	chr2:152572743-152574943	NOTEST	0	0
Defb22	chr2:152485665-152490138	NOTEST	0	0
Defb23	chr2:152459054-152464620	NOTEST	0	0
Defb25	chr2:152622355-152623053	NOTEST	0	0
Defb26	chr2:152507755-152511736	NOTEST	0	0
Defb29	chr2:152538713-152540041	NOTEST	0	0
Defb3	chr8:19293360-19295339	NOTEST	0	0
Defb33	chr8:20892666-20897723	NOTEST	0	0
Defb34	chr8:19123751-19126540	NOTEST	0	0
Defb35	chr8:21938351-21940878	NOTEST	0	0
Defb36	chr2:152604326-152612729	NOTEST	0	0
Defb37	chr8:18986232-18991055	NOTEST	0	0
Defb38	chr8:19023463-19026529	NOTEST	0	0
Defb39	chr8:19052825-19064810	NOTEST	0	0

Defb4	chr8:19198703-19201547	NOTEST	0	0
Defb40	chr8:18974939-18978116	NOTEST	0	0
Defb41	chr1:18250977-18265138	NOTEST	0	0
Defb43	chr14:63011770-63018088	NOTEST	0	0
Defb44-ps	chr1:18210052-18223564	NOTEST	0	0
Defb45	chr2:152593190-152596485	NOTEST	0	0
Defb46	chr8:19239915-19242143	NOTEST	0	0
Defb47	chr14:62998076-63001160	NOTEST	0	0
Defb48	chr14:62977523-62984510	NOTEST	0	0
Defb5	chr8:19247591-19250828	NOTEST	0	0
Defb50	chr8:21823538-21831296	NOTEST	0	0
Defb6	chr8:19225477-19228209	NOTEST	0	0
Defb7	chr8:19495096-19497775	NOTEST	0	0
Defb8	chr8:19445769-19447606	NOTEST	0	0
Defb9	chr8:21881712-21885434	NOTEST	0	0
Dgat2l6	chrX:100524837-100546108	NOTEST	0	0
Dio1	chr4:107291464-107307143	NOTEST	0	0
Dkk1	chr19:30545884-30549496	NOTEST	0	0
Dkk4	chr8:22624042-22627546	NOTEST	0	0
Dlx1as	chr2:71529444-71537891	NOTEST	0	0
Dlx6as2	chr6:6820545-6869533	NOTEST	0	0
Dlx6os1	chr6:6820545-6869533	NOTEST	0	0
Dmrt3	chr19:25610536-25623921	NOTEST	0	0
Dmrtd1b	chrX:102707880-102715209	NOTEST	0	0
Dmrtd1c2	chrX:102847638-102854616	NOTEST	0	0
Dmrtd2	chr7:24870056-24877651	NOTEST	0	0
Dnajib8	chr6:88222267-88223256	NOTEST	0	0
Dnajc5g	chr5:30933142-31348845	NOTEST	0	0
Dnase1	chr16:4037144-4077810	NOTEST	0	0
Dnmt3aos	chr12:3806979-3914443	NOTEST	0	0
Doxl2	chr6:48975142-48978745	NOTEST	0	0
Dpcr1	chr17:35635754-35643695	NOTEST	0	0
Dppa1	chr11:46607009-46629274	NOTEST	0	0
Dppa3	chr6:122626423-122630271	NOTEST	0	0
Dppa4	chr16:48283734-48294292	NOTEST	0	0
Drd4	chr7:141292005-141295001	NOTEST	0	0
Dreh	chr17:64767110-64767931	NOTEST	0	0
Dsg3	chr18:20510303-20541310	NOTEST	0	0
Dsg4	chr18:20436174-20471821	NOTEST	0	0
Dthd1	chr5:62813822-62888318	NOTEST	0	0
Dusp21	chrX:18145869-18146692	NOTEST	0	0
Dux	chr10:58230650-58232675	NOTEST	0	0
Dydc1	chr14:41072910-41092197	NOTEST	0	0
E030002O03Rik	chr7:104153012-104164816	NOTEST	0	0
E030018B13Rik	chr7:63886350-63938915	NOTEST	0	0
E030019B13Rik	chr12:56490427-56529420	NOTEST	0	0
E030025P04Rik	chr11:109139290-109144369	NOTEST	0	0
E030044B06Rik	chr19:40868315-40882639	NOTEST	0	0
E130218I03Rik	chr4:134243305-134245873	NOTEST	0	0
E230019M04Rik	chrX:140062878-140106797	NOTEST	0	0
E330012B07Rik	chr6:147180240-147208294	NOTEST	0	0
E330014E10Rik,Gn	chr5_GL456354_random:82558	NOTEST	0	0
E330020D12Rik	chr1:153404185-153414233	NOTEST	0	0

E330023G01Rik	chr9:98748598-98820087	NOTEST	0	0
Ear10	chr14:43922897-43923368	NOTEST	0	0
Ear14	chr14:51203689-51204156	LOWDAT	0	0
Ear4	chr14:51203689-51204156	NOTEST	0	0
Efcab8	chr2:153780878-153795182	NOTEST	0	0
Egfbp2	chr7:44012677-44016968	NOTEST	0	0
Elovl3	chr19:46131898-46148325	NOTEST	0	0
Emx1	chr6:85187930-85204463	NOTEST	0	0
Emx2	chr19:59458689-59465357	NOTEST	0	0
Emx2os	chr19:59425103-59458635	NOTEST	0	0
En2	chr5:28165695-28172166	NOTEST	0	0
Enam	chr5:88487974-88506049	NOTEST	0	0
Enpp7	chr11:118988187-118992841	NOTEST	0	0
Enthd1	chr15:80452239-80560470	NOTEST	0	0
Entpd8	chr2:25080322-25095205	NOTEST	0	0
Eras	chrX:7919821-7928607	NOTEST	0	0
Ereg	chr5:91074616-91093649	NOTEST	0	0
Erich5	chr15:34453311-34473892	NOTEST	0	0
Erp27	chr6:136907386-136922180	NOTEST	0	0
Esp1	chr17:40727119-40731782	NOTEST	0	0
Esp15	chr17:39640956-39645667	NOTEST	0	0
Esp16	chr17:39536141-39540847	NOTEST	0	0
Esp18	chr17:39406358-39410992	NOTEST	0	0
Esp23	chr17:39073690-39077037	NOTEST	0	0
Esp24	chr17:39036694-39040227	NOTEST	0	0
Esp3	chr17:40632074-40637060	NOTEST	0	0
Esp31	chr17:38639446-38645653	NOTEST	0	0
Esp34	chr17:38554191-38560621	NOTEST	0	0
Esp36	chr17:38416473-38420185	NOTEST	0	0
Esp38	chr17:39950519-39955287	NOTEST	0	0
Esp4	chr17:40598593-40602617	NOTEST	0	0
Esp5	chr17:40561506-40579549	NOTEST	0	0
Esp6	chr17:40561506-40579549	NOTEST	0	0
Esp6-esp5	chr17:40561506-40579549	NOTEST	0	0
Esx1	chrX:137115396-137120326	NOTEST	0	0
Etd	chrX:53434917-53443576	NOTEST	0	0
Etv2	chr7:30633615-30635852	NOTEST	0	0
Evx1	chr6:52308388-52318378	NOTEST	0	0
Evx2	chr2:74655615-74659419	NOTEST	0	0
F10	chr8:13037307-13056676	NOTEST	0	0
F11	chr8:45241169-45262031	NOTEST	0	0
F13b	chr1:139501706-139523756	NOTEST	0	0
F630111L10Rik	chr3:59006977-59344256	NOTEST	0	0
F630206G17Rik	chr11:45808082-45842878	NOTEST	0	0
F730035M05Rik	chr12:70227840-70234165	NOTEST	0	0
F830045P16Rik	chr2:129458358-129536602	NOTEST	0	0
Fabp12	chr3:10244208-10301183	NOTEST	0	0
Fabp2	chr3:122882591-122924116	NOTEST	0	0
Fabp6	chr11:43596039-43601562	NOTEST	0	0
Fabp9	chr3:10193623-10197283	NOTEST	0	0
Fam115e	chr6:42587212-42597372	NOTEST	0	0
Fam122c	chrX:53273432-53301501	NOTEST	0	0
Fam150a	chr1:6359330-6394731	NOTEST	0	0

Fam151a	chr4:106733914-106799831	NOTEST	0	0
Fam154a	chr4:86444697-86558303	NOTEST	0	0
Fam162b	chr10:51585449-51590460	NOTEST	0	0
Fam170a	chr18:50278368-50283019	NOTEST	0	0
Fam170b	chr14:32833961-32836788	NOTEST	0	0
Fam209	chr2:172472553-172474316	NOTEST	0	0
Fam24a	chr7:131334621-131336716	NOTEST	0	0
Fam25c	chr14:34351881-34355393	NOTEST	0	0
Fam46d	chrX:107782751-107872911	NOTEST	0	0
Fam47c	chrX:78737762-78739410	NOTEST	0	0
Fam50b	chr13:34739641-34747622	NOTEST	0	0
Fam71b	chr11:46193848-46589232	NOTEST	0	0
Fam71d	chr12:78691534-78734519	NOTEST	0	0
Fam71f1	chr6:29319139-29336022	NOTEST	0	0
Fam83c	chr2:155829182-155834854	NOTEST	0	0
Fancd2os	chr6:113596761-113600715	NOTEST	0	0
Fbxo39	chr11:72314443-72319419	NOTEST	0	0
Fbxw13	chr9:109179226-109195975	NOTEST	0	0
Fbxw14	chr9:109271124-109287676	NOTEST	0	0
Fbxw18	chr9:109676733-109702700	NOTEST	0	0
Fbxw19	chr9:109478574-109495854	NOTEST	0	0
Fbxw20	chr9:109217431-109234754	NOTEST	0	0
Fbxw21	chr9:109139453-109162022	NOTEST	0	0
Fbxw22	chr9:109378408-109404294	NOTEST	0	0
Fbxw24	chr9:109601115-109626059	NOTEST	0	0
Fbxw26	chr9:109717565-109746089	NOTEST	0	0
Fbxw28	chr9:109322885-109339659	NOTEST	0	0
Fcrl5	chr3:87435781-87500678	NOTEST	0	0
Fcrl6	chr1:172596639-172602551	NOTEST	0	0
Ferd3l	chr12:33928424-33929309	NOTEST	0	0
Fezf1	chr6:23245046-23248264	NOTEST	0	0
Fezf2	chr14:12341891-12345865	NOTEST	0	0
Ffar2	chr7:30818356-30823775	NOTEST	0	0
Fgb	chr3:83042304-83049790	NOTEST	0	0
Fgf15	chr7:144896531-144900951	NOTEST	0	0
Fgf20	chr8:40279165-40286953	NOTEST	0	0
Fgf6	chr6:127015541-127024718	NOTEST	0	0
Fhad1os1	chr4:141890622-142011651	NOTEST	0	0
Flg2	chr3:93197272-93221376	NOTEST	0	0
Fmo3	chr1:162953799-162984491	NOTEST	0	0
Fnd3c2	chrX:106235245-106255372	NOTEST	0	0
Fndc8	chr11:82892144-82900737	NOTEST	0	0
Foxa2	chr2:148042876-148046969	NOTEST	0	0
Foxa3	chr7:19013282-19023539	NOTEST	0	0
Foxb1	chr9:69757709-69760940	NOTEST	0	0
Foxb2	chr19:16872315-16873830	NOTEST	0	0
Foxe1	chr4:46344193-46345309	NOTEST	0	0
Foxg1	chr12:49382882-49386867	NOTEST	0	0
Foxi1	chr11:34204340-34208089	NOTEST	0	0
Foxr1	chr9:44434233-44440868	NOTEST	0	0
Fpr-rs3	chr17:20623845-20624877	NOTEST	0	0
Fpr-rs4	chr17:18021732-18022704	NOTEST	0	0
Fpr-rs6	chr17:20182077-20183097	NOTEST	0	0

Fpr3	chr17:17970457-17971677	NOTEST	0	0
Frem3	chr8:80611038-80695557	NOTEST	0	0
Frmpd1os	chr4:45184905-45285936	NOTEST	0	0
Fscb	chr12:64471332-64474898	NOTEST	0	0
Fscn3	chr6:28427900-28438622	NOTEST	0	0
Fshb	chr2:107056140-107059651	NOTEST	0	0
Ftcd	chr10:76575647-76590338	NOTEST	0	0
Fthl17	chrX:9033485-9034333	NOTEST	0	0
Ftmt	chr18:52331535-52332996	NOTEST	0	0
Fut4-ps1	chr17:56734227-56739292	NOTEST	0	0
G630055G22Rik	chr18:47922840-48107980	NOTEST	0	0
G630071F17Rik	chr18:60663409-60671624	NOTEST	0	0
G630093K05Rik	chr13:47910434-47934301	NOTEST	0	0
G6bos	chr17:35062692-35066184	NOTEST	0	0
G6pc	chr11:101367729-101377903	NOTEST	0	0
G6pc2	chr2:69211072-69227993	NOTEST	0	0
Gabra6	chr11:42306436-42321072	NOTEST	0	0
Galntl5	chr5:25181479-25220289	NOTEST	0	0
Galp	chr7:6197089-6216137	NOTEST	0	0
Gas2l2	chr11:83421634-83429521	NOTEST	0	0
Gast	chr11:100334411-100336996	NOTEST	0	0
Gata5	chr2:180325087-180340732	NOTEST	0	0
Gata5os	chr2:180325087-180340732	NOTEST	0	0
Gbp2b	chr3:142594846-142619176	NOTEST	0	0
Gcgr	chr11:120530726-120538984	NOTEST	0	0
Gckr	chr5:30933142-31348845	NOTEST	0	0
Gcm1	chr9:78051957-78065624	NOTEST	0	0
Gcm2	chr13:41101426-41109988	NOTEST	0	0
Gcnt3	chr9:70031495-70038088	NOTEST	0	0
Gdf3	chr6:122605402-122610071	NOTEST	0	0
Gfi1	chr5:107716654-107725805	NOTEST	0	0
Gh	chr11:106300260-106301896	NOTEST	0	0
Ghrh	chr2:157329495-157346655	NOTEST	0	0
Ghrhr	chr6:55376294-55388530	NOTEST	0	0
Ghrl	chr6:113716118-113719911	NOTEST	0	0
Gif	chr19:11747558-11763447	NOTEST	0	0
Gip	chr11:96024544-96030828	NOTEST	0	0
Gipr	chr7:19157124-19166127	NOTEST	0	0
Gja8	chr3:96913565-96926051	NOTEST	0	0
Gjd3	chr11:98982179-98983016	NOTEST	0	0
Gjd4	chr18:9278606-9282809	NOTEST	0	0
Gje1	chr10:14705608-14759019	NOTEST	0	0
Gk2	chr5:97392416-97588126	NOTEST	0	0
Gkn1	chr6:87345652-87350915	NOTEST	0	0
Gkn2	chr6:87373364-87379494	NOTEST	0	0
Glipr1l1	chr10:112060188-112078510	NOTEST	0	0
Glipr1l2	chr10:112083353-112108098	NOTEST	0	0
Glrp1	chr1:88499870-88510066	NOTEST	0	0
Glt6d1	chr2:25793966-25815836	NOTEST	0	0
Glycam1	chr15:103562759-103565081	NOTEST	0	0
Gm10007	chr19:58235580-58455398	NOTEST	0	0
Gm10024	chr10:77686568-77886769	NOTEST	0	0
Gm10052	chr15:103240396-103246698	LOWDAT	0	0

Gm10057	chrX:154043985-154055041	NOTEST	0	0
Gm10058,Gm1009	chrX:35404186-35427093	LOWDAT	0	0
Gm10081	chr7:107105911-107106859	NOTEST	0	0
Gm10094,Sap18	chr14:57798188-57804980	LOWDAT	0	0
Gm10096,Gm1048	chrX:35404186-35427093	LOWDAT	0	0
Gm101	chr1:119923518-119995210	NOTEST	0	0
Gm10100	chr10:77686568-77886769	NOTEST	0	0
Gm10104	chr8:21065037-21089644	NOTEST	0	0
Gm10142	chr10:77686568-77886769	NOTEST	0	0
Gm10147,Gm1481	chrX:35404186-35427093	LOWDAT	0	0
Gm10220	chr5:26114763-26121425	NOTEST	0	0
Gm10228	chr16:89040922-89041472	NOTEST	0	0
Gm10229	chr16:89015276-89015846	NOTEST	0	0
Gm10230	chrX:30820524-30843469	NOTEST	0	0
Gm10267	chr18:44156402-44159885	NOTEST	0	0
Gm10272	chr10:77686568-77886769	NOTEST	0	0
Gm10280	chr8:113067261-113093333	NOTEST	0	0
Gm10318	chr10:77686568-77886769	NOTEST	0	0
Gm10319	chr6:122136627-122150958	NOTEST	0	0
Gm10324	chr13:66113452-66122836	NOTEST	0	0
Gm10334	chr6:41442213-41446097	NOTEST	0	0
Gm10354	chr5:14945293-14978899	NOTEST	0	0
Gm10373	chr15:43430942-43477036	NOTEST	0	0
Gm10375	chr14:43602626-43608013	NOTEST	0	0
Gm10377	chr14:43010187-43015576	NOTEST	0	0
Gm10389	chr15:10568977-10714631	NOTEST	0	0
Gm10400	chr6:141249268-141499351	NOTEST	0	0
Gm10408	chr14:3634511-3800987	NOTEST	0	0
Gm10409,Gm3020	chr14:3634511-3800987	NOTEST	0	0
Gm10413	chr14:3634511-3800987	NOTEST	0	0
Gm10415	chr6:126286648-126328686	NOTEST	0	0
Gm10421	chr12:116485719-117337012	NOTEST	0	0
Gm10436	chr12:88175588-88181894	NOTEST	0	0
Gm10439	chrX:149594600-149636621	NOTEST	0	0
Gm10445	chr6:84412941-84423838	NOTEST	0	0
Gm1045	chr5:91987472-91995317	NOTEST	0	0
Gm10466	chr11:24721005-24730722	NOTEST	0	0
Gm10471	chr5:26082171-26089264	NOTEST	0	0
Gm10486	chrX:35404186-35427093	NOTEST	0	0
Gm10487	chrX:30329711-30352645	LOWDAT	0	0
Gm10488	chrX:35404186-35427093	LOWDAT	0	0
Gm10510	chr17:15350812-15354461	NOTEST	0	0
Gm10512	chr17:13205041-13206211	NOTEST	0	0
Gm10538	chr1:132564689-132741797	NOTEST	0	0
Gm10578	chr7:137193670-137314445	NOTEST	0	0
Gm10619	chr7:73808221-73816503	NOTEST	0	0
Gm10636	chr3:146367152-146378944	NOTEST	0	0
Gm10637	chr8:87169746-87199850	NOTEST	0	0
Gm10639	chr9:78289927-78305525	NOTEST	0	0
Gm10662,Gm5891	chr7:23132622-23144480	LOWDAT	0	0
Gm10665	chr7:22463109-22464075	NOTEST	0	0
Gm10666	chr7:22133775-22134741	NOTEST	0	0
Gm10670	chr7:20473959-20474925	NOTEST	0	0

Gm10681,Hsd3b4	chr3:98552543-98564038	NOTEST	0	0
Gm10696	chr3:94174411-94178193	NOTEST	0	0
Gm10714	chr2:174125037-174183918	NOTEST	0	0
Gm10731	chr3:40846998-40875609	NOTEST	0	0
Gm10782	chr13:56362899-56368857	NOTEST	0	0
Gm10823	chr16:27849929-27926128	NOTEST	0	0
Gm10845	chr14:79860520-79869176	NOTEST	0	0
Gm10857	chr2:6132868-6140570	NOTEST	0	0
Gm10865	chr15:78947723-79011041	NOTEST	0	0
Gm10921	chrX:31381958-31383918	NOTEST	0	0
Gm10922	chrX:4370635-4372595	NOTEST	0	0
Gm1110	chr9:26879566-26923081	NOTEST	0	0
Gm11128	chr6:85808050-85809877	NOTEST	0	0
Gm11149	chr9:49502145-49799069	NOTEST	0	0
Gm11186	chr11:52764705-53187347	NOTEST	0	0
Gm11213	chr4:63596900-63605261	NOTEST	0	0
Gm11237,LOC1010	chr4:73650909-73672398	LOWDAT	0	0
Gm1140,Gm14692	chrX:67695697-67706350	NOTEST	0	0
Gm11468	chr2:166273907-166294831	NOTEST	0	0
Gm11487	chr4:73401031-73405072	NOTEST	0	0
Gm11529	chr11:96446898-96464547	NOTEST	0	0
Gm11538	chr11:96203453-96205480	NOTEST	0	0
Gm11544	chr11:94844830-94849593	NOTEST	0	0
Gm11548	chr3:36499803-36506809	NOTEST	0	0
Gm11559	chr11:99864475-99865571	NOTEST	0	0
Gm11562	chr11:99619597-99620404	NOTEST	0	0
Gm11563	chr11:99657941-99658959	NOTEST	0	0
Gm11564	chr11:99814975-99815666	NOTEST	0	0
Gm11565	chr11:99914750-99915671	NOTEST	0	0
Gm11567	chr11:99879186-99880229	NOTEST	0	0
Gm11568	chr11:99857916-99859060	NOTEST	0	0
Gm11569	chr11:99798185-99809896	NOTEST	0	0
Gm11570	chr11:99984702-99986593	NOTEST	0	0
Gm11595	chr11:99771713-99772913	NOTEST	0	0
Gm11596	chr11:99792674-99793292	NOTEST	0	0
Gm11651	chr11:105965606-105989964	NOTEST	0	0
Gm11757,Gm1175	chr4:73901905-73905953	LOWDAT	0	0
Gm11758	chr4:73901905-73905953	NOTEST	0	0
Gm11780	chr4:4527773-4529458	NOTEST	0	0
Gm11937	chr11:99609793-99610189	NOTEST	0	0
Gm11938	chr11:99602645-99603308	NOTEST	0	0
Gm11961	chr11:4620274-4630011	NOTEST	0	0
Gm11981	chr11:6716000-6720037	NOTEST	0	0
Gm11985	chr11:7183156-7188569	NOTEST	0	0
Gm12169	chr11:46193848-46589232	NOTEST	0	0
Gm12171	chr11:46193848-46589232	NOTEST	0	0
Gm12238	chr11:55469751-55500887	NOTEST	0	0
Gm12253	chr11:58432558-58441622	NOTEST	0	0
Gm12298	chr11:66905631-66947086	NOTEST	0	0
Gm12505	chr4:55410442-55418842	NOTEST	0	0
Gm12603	chr4:89050306-89084610	NOTEST	0	0
Gm12669	chr7:137437647-137468594	LOWDAT	0	0
Gm12695	chr4:96723886-96785160	NOTEST	0	0

Gm12789	chr4:101986839-101990231	NOTEST	0	0
Gm12794	chr4:101940406-101943183	NOTEST	0	0
Gm12830	chr4:114821719-114856166	NOTEST	0	0
Gm12886	chr4:121414734-121423099	NOTEST	0	0
Gm12887	chr4:121614003-121622125	NOTEST	0	0
Gm12888	chr4:121316315-121324917	NOTEST	0	0
Gm13003	chr4:137159081-137165066	NOTEST	0	0
Gm13011	chr4:137401553-137409791	NOTEST	0	0
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Gm13040	chr4:143551699-143558236	NOTEST	0	0
Gm13043	chr4:143511311-143517833	NOTEST	0	0
Gm13051	chr4:146097311-146126623	NOTEST	0	0
Gm13057	chr4:143535953-143542471	NOTEST	0	0
Gm13078	chr4:143719450-143729158	NOTEST	0	0
Gm13083	chr4:143615002-143618595	NOTEST	0	0
Gm13084	chr4:143809990-143816093	NOTEST	0	0
Gm13088	chr4:143653759-143657246	NOTEST	0	0
Gm13102	chr4:144099879-144110101	NOTEST	0	0
Gm13103	chr4:143846496-143853637	NOTEST	0	0
Gm13119	chr4:144357963-144364419	NOTEST	0	0
Gm13124	chr4:144554999-144565134	NOTEST	0	0
Gm13125	chr4:144372759-144377933	NOTEST	0	0
Gm13128	chr4:144330248-144333465	NOTEST	0	0
Gm13177	chr4:144613706-144623398	NOTEST	0	0
Gm13178	chr4:144703190-144721404	NOTEST	0	0
Gm1322	chr2:67173833-67186212	NOTEST	0	0
Gm13242	chr4:145670696-145704437	NOTEST	0	0
Gm13271	chr4:88754867-88755416	NOTEST	0	0
Gm13272,Gm1328	chr4:88779849-88780660	NOTEST	0	0
Gm13275,Gm1328	chr4:88799574-88801130	NOTEST	0	0
Gm13276	chr4:88785053-88786515	NOTEST	0	0
Gm13277,Gm1328	chr4:88787976-88789438	NOTEST	0	0
Gm13278,Gm1327	chr4:88796741-88798204	NOTEST	0	0
Gm13279	chr4:88796741-88798204	NOTEST	0	0
Gm13285,Gm1328	chr4:88805530-88808380	LOWDAT	0	0
Gm13286	chr4:88757843-88758392	NOTEST	0	0
Gm13288	chr4:88805530-88808380	NOTEST	0	0
Gm13290	chr4:88805530-88808380	NOTEST	0	0
Gm13308,Gm2087	chr4_GL456350_random:17325	NOTEST	0	0
Gm13315	chr2:14604305-14987908	NOTEST	0	0
Gm13497	chr2:51241830-51295945	NOTEST	0	0
Gm13539	chr2:25784616-25787022	NOTEST	0	0
Gm13544	chr2:58267452-58357758	NOTEST	0	0
Gm13580	chr2:60411524-60412574	NOTEST	0	0
Gm13752	chr2:80391363-80398216	NOTEST	0	0
Gm13769	chr2:90322221-90325126	NOTEST	0	0
Gm13807	chr2:93403546-93417830	NOTEST	0	0
Gm13871	chr4:73901905-73905953	LOWDAT	0	0
Gm13944	chr2:77410626-77816816	NOTEST	0	0
Gm14092	chr2:145242610-145641939	NOTEST	0	0
Gm14137	chr2:119172499-119217050	NOTEST	0	0
Gm14139	chr2:150181754-150193279	NOTEST	0	0
Gm14151	chr2:151098244-151103809	NOTEST	0	0

Gm14204	chr2:158595471-158610723	NOTEST	0	0
Gm14288,Gm1444	chr2:175789356-175801038	NOTEST	0	0
Gm14306,Gm1443	chr2:175470024-175483322	NOTEST	0	0
Gm14327	chr2:177897162-177927850	NOTEST	0	0
Gm14345,Gm1435	chrX:31336368-31338328	NOTEST	0	0
Gm14346,Gm1435	chrX:34159624-34161584	NOTEST	0	0
Gm14347	chrX:4196575-4198535	NOTEST	0	0
Gm14351,Gm2913	chrX:33575386-33577346	LOWDAT	0	0
Gm14374	chrX:5669066-5671026	NOTEST	0	0
Gm14458	chrX:8985939-8986672	NOTEST	0	0
Gm14459	chrX:8514051-8524954	NOTEST	0	0
Gm14461	chr2:78237546-78302230	NOTEST	0	0
Gm14474	chrX:11302431-11302921	NOTEST	0	0
Gm14475,Gm1448	chrX:11308754-11309263	LOWDAT	0	0
Gm14476,Gm1448	chrX:11315088-11315597	LOWDAT	0	0
Gm14477,Gm1447	chrX:11321422-11321931	LOWDAT	0	0
Gm14478	chrX:11321422-11321931	LOWDAT	0	0
Gm14479,Gm1448	chrX:11299256-11299757	NOTEST	0	0
Gm14482	chrX:11321422-11321931	NOTEST	0	0
Gm14483	chrX:11308754-11309263	NOTEST	0	0
Gm14484	chrX:11311933-11312427	NOTEST	0	0
Gm14496	chr2:181991225-182001087	NOTEST	0	0
Gm14499	chrX:9043550-9044410	NOTEST	0	0
Gm14511	chrX:8975717-8976589	NOTEST	0	0
Gm14525	chrX:26672779-26702638	NOTEST	0	0
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Gm14632	chrX:35067383-35090316	NOTEST	0	0
Gm14635	chrX:12339778-12354996	NOTEST	0	0
Gm14685	chrX:73137231-73158399	LOWDAT	0	0
Gm14692	chrX:67695697-67706350	LOWDAT	0	0
Gm14718	chrX:57200636-57204376	NOTEST	0	0
Gm14725	chrX:70545557-70546385	NOTEST	0	0
Gm14743	chrX:78240461-78245921	NOTEST	0	0
Gm14744	chrX:77864757-77870033	NOTEST	0	0
Gm14781	chrX:91632193-91635671	NOTEST	0	0
Gm14819	chrX:35404186-35427093	NOTEST	0	0
Gm14850,Gm2149	chr8:21565385-21566350	NOTEST	0	0
Gm14851	chr8:21094970-21096050	NOTEST	0	0
Gm14858	chrX:102252650-102257689	NOTEST	0	0
Gm14920	chrX:117014756-117015104	NOTEST	0	0
Gm15008	chrX:36910833-36989695	NOTEST	0	0
Gm15023	chrX:135494587-135504594	LOWDAT	0	0
Gm15056	chr8:20900605-20901973	NOTEST	0	0
Gm15091	chrX:149784478-149984982	NOTEST	0	0
Gm15093	chrX:149088314-149305003	NOTEST	0	0
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Gm15107	chrX:148180723-148521446	NOTEST	0	0
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Gm15133	chr7:104299896-104324838	NOTEST	0	0
Gm15140	chrX:154109632-154120685	NOTEST	0	0
Gm15179	chr1:75360291-75375015	NOTEST	0	0

Gm15217	chr14:46379523-46390599	NOTEST	0	0
Gm1527	chr3:28892616-28926724	NOTEST	0	0
Gm15284	chr8:21134649-21135598	NOTEST	0	0
Gm15292	chr8:21249761-21250461	NOTEST	0	0
Gm15293	chr8:21201603-21202446	NOTEST	0	0
Gm15299	chr8:21315545-21316387	NOTEST	0	0
Gm15308	chr8:21529029-21530012	NOTEST	0	0
Gm15315	chr8:21665796-21666733	NOTEST	0	0
Gm15350	chr8:12757015-12868728	NOTEST	0	0
Gm15386	chr1:18250977-18265138	NOTEST	0	0
Gm15412	chr7:96210636-96908554	NOTEST	0	0
Gm15413	chr7:96210636-96908554	NOTEST	0	0
Gm1553	chr10:82486532-82492618	NOTEST	0	0
Gm156	chr6:129766646-129775849	NOTEST	0	0
Gm15645	chr7:105861780-105863327	NOTEST	0	0
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Gm15713	chr16:42884369-43619123	NOTEST	0	0
Gm15850	chr1:136127718-136131183	NOTEST	0	0
Gm1587	chr14:77793944-77798968	NOTEST	0	0
Gm15881	chr8:57774051-58911627	NOTEST	0	0
Gm15997	chr5:149489055-149611894	NOTEST	0	0
Gm16063	chr5:119625941-119634462	NOTEST	0	0
Gm16130	chr9:58028681-58118823	NOTEST	0	0
Gm16157	chr7:68266338-68363092	NOTEST	0	0
Gm16291	chr15:39768484-39857470	NOTEST	0	0
Gm16294	chr15:40511321-40527277	NOTEST	0	0
Gm1631	chr2:71719416-71730966	NOTEST	0	0
Gm16336	chr7:110868257-110982461	NOTEST	0	0
Gm16367	chr5_JH584299_random:82903	LOWDAT	0	0
Gm16381	chr12:87841839-87846716	NOTEST	0	0
Gm16390	chrX:154886802-154890267	NOTEST	0	0
Gm16404	chrX:55551595-55568457	NOTEST	0	0
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Gm16430	chrX:54622210-54639016	NOTEST	0	0
Gm16445	chrX:154152570-154156887	NOTEST	0	0
Gm16451	chr7:22117321-22118245	NOTEST	0	0
Gm1647	chr3:69131232-69157177	NOTEST	0	0
Gm16497	chr12:14261533-14285684	NOTEST	0	0
Gm16501	chrY:2720338-2720674	NOTEST	0	0
Gm16548	chr1:164115263-164220274	NOTEST	0	0
Gm16617	chr14:51984832-52020733	NOTEST	0	0
Gm16677	chr14:69547956-69555387	NOTEST	0	0
Gm16833	chr9:8994952-9260885	NOTEST	0	0
Gm16863	chr16:21247498-21296872	NOTEST	0	0
Gm16880	chr1:136696210-136725728	NOTEST	0	0
Gm16982	chr7:141562179-141633011	NOTEST	0	0
Gm17019	chr5:15028949-15033007	NOTEST	0	0
Gm17252	chr9:35685078-35687371	NOTEST	0	0
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Gm17455	chr10:60302749-60696490	NOTEST	0	0
Gm17644	chr1:12667562-12673090	NOTEST	0	0
Gm17660	chr5:104070059-104077608	NOTEST	0	0
Gm17677	chr9:35741048-35742252	NOTEST	0	0

Gm17689	chr9:36581277-36582635	NOTEST	0	0
Gm17727	chr9:35776523-35778109	NOTEST	0	0
Gm17746	chr12:25129173-25132274	NOTEST	0	0
Gm17751	chr1:76489132-76502028	NOTEST	0	0
Gm17821	chr12:67656741-67669271	NOTEST	0	0
Gm17830	chr17:49304478-49312960	NOTEST	0	0
Gm18409	chr10:99609170-99658134	NOTEST	0	0
Gm19277	chr15:85149253-85156132	NOTEST	0	0
Gm19303	chr15:51231639-51395610	NOTEST	0	0
Gm19395	chr10:53278080-53379851	NOTEST	0	0
Gm19402	chr10:77686568-77886769	NOTEST	0	0
Gm19466	chr18:53648150-53744547	NOTEST	0	0
Gm19510	chr15:59788416-59794959	NOTEST	0	0
Gm19583	chr5:75110320-75147107	NOTEST	0	0
Gm19589	chr1:88551516-88562166	NOTEST	0	0
Gm19668	chr10:77686568-77886769	NOTEST	0	0
Gm1968	chr16:29957926-29979124	NOTEST	0	0
Gm19710	chr3:89998759-90068347	NOTEST	0	0
Gm19757	chr6:105481265-105492668	NOTEST	0	0
Gm19782	chr15:69924232-70078204	NOTEST	0	0
Gm19784	chr18:66924761-66949961	NOTEST	0	0
Gm1979	chr5:26000171-26004727	NOTEST	0	0
Gm1993	chrX:25548500-25570449	NOTEST	0	0
Gm1995	chr12:87861349-87865690	NOTEST	0	0
Gm19990	chr12:56253242-56266381	NOTEST	0	0
Gm2002	chr4_JH584293_random:7077-2	NOTEST	0	0
Gm20098	chr17:51882726-51965257	NOTEST	0	0
Gm2012	chrX:26200882-26231323	NOTEST	0	0
Gm2016	chr12:87874071-87877859	NOTEST	0	0
Gm20172	chr1:25067475-25829707	NOTEST	0	0
Gm2022	chr12:87892833-87896722	NOTEST	0	0
Gm20268	chr1:101155767-101175202	NOTEST	0	0
Gm2030	chrX:26287198-26310044	NOTEST	0	0
Gm20319	chr16:26581704-26755502	NOTEST	0	0
Gm20356	chr3:74009218-74017277	NOTEST	0	0
Gm20362	chr6:79032041-79035869	NOTEST	0	0
Gm2042	chr12:87954479-87960682	NOTEST	0	0
Gm20554	chr13:72623465-72628564	NOTEST	0	0
Gm20556	chr15:84714628-84772207	NOTEST	0	0
Gm20594	chr6:79818030-79818364	NOTEST	0	0
Gm20735	chr8:122443655-122451322	NOTEST	0	0
Gm20736	chrY:82225214-82251414	NOTEST	0	0
Gm20738,Gm2081	chrY:64301780-64786299	LOWDAT	0	0
Gm20740	chr15:63414396-63479608	NOTEST	0	0
Gm20741	chr16:88811439-88812220	NOTEST	0	0
Gm20745	chr9:68017963-68025714	NOTEST	0	0
Gm20747	chrY:81799149-81801497	NOTEST	0	0
Gm20750	chr3:52906755-52927666	NOTEST	0	0
Gm20752	chr3:159076363-159308080	NOTEST	0	0
Gm20755	chr3:37898812-37992728	NOTEST	0	0
Gm20757	chr10:92171300-92375373	NOTEST	0	0
Gm20758	chr10:111854520-111874376	NOTEST	0	0
Gm20765,Gm2130	chr10:104142986-104188000	NOTEST	0	0

Gm20767	chr13:120140245-120155335	NOTEST	0	0
Gm20806	chrY:80756211-80757210	NOTEST	0	0
Gm20809	chrY:72819514-72820507	NOTEST	0	0
Gm20815	chrY:8832248-8835169	NOTEST	0	0
Gm20816,Gm2082	chrY:64301780-64786299	LOWDAT	0	0
Gm20822	chrY:15882558-15883245	NOTEST	0	0
Gm20823	chrY:72382444-72384781	NOTEST	0	0
Gm20826	chrY:7636215-7636973	NOTEST	0	0
Gm20831	chrY:17965159-17967598	NOTEST	0	0
Gm20854	chrY:85528524-85529519	NOTEST	0	0
Gm20857	chrY:25214873-25240906	NOTEST	0	0
Gm20858	chrY:26241091-26267093	NOTEST	0	0
Gm20865	chrY:73239169-73240030	NOTEST	0	0
Gm20867	chrY:64301780-64786299	NOTEST	0	0
Gm2087	chr9:83391354-83454574	NOTEST	0	0
Gm20871	chrY:59606709-59632758	NOTEST	0	0
Gm20877	chrY:17093878-17095887	NOTEST	0	0
Gm20917	chrY:79148794-79149787	NOTEST	0	0
Gm21002	chr8:21391810-21392792	NOTEST	0	0
Gm21057	chr7:80024813-80092751	NOTEST	0	0
Gm21221	chr5:149801989-149811751	NOTEST	0	0
Gm21269	chr7:73825923-73836549	NOTEST	0	0
Gm21276	chr7:38762405-38770304	NOTEST	0	0
Gm21283	chr8:110266976-110610253	NOTEST	0	0
Gm21293,Gm2131	chr10:104142986-104188000	LOWDAT	0	0
Gm21304,Gm2131	chr10:104142986-104188000	LOWDAT	0	0
Gm21312	chr10:104142986-104188000	NOTEST	0	0
Gm21319	chr12:87772424-87775755	NOTEST	0	0
Gm21498	chr8:21565385-21566350	LOWDAT	0	0
Gm21637	chrX:32650670-32651448	NOTEST	0	0
Gm21671	chr5:25949796-25954344	NOTEST	0	0
Gm21693,Rbmy	chrY:3294971-3306449	NOTEST	0	0
Gm21708,Rbmy	chrY:3771672-3783271	NOTEST	0	0
Gm21943	chrY:73535407-73537718	NOTEST	0	0
Gm21944	chr8:20876498-20889113	NOTEST	0	0
Gm21950	chrX:3076919-3078823	NOTEST	0	0
Gm21951	chrX:32726136-32728057	NOTEST	0	0
Gm2447	chr3:52739723-52776654	NOTEST	0	0
Gm2516	chr8:50368111-50416089	NOTEST	0	0
Gm2663	chr6:40995821-40999479	NOTEST	0	0
Gm2696	chr10:77686568-77886769	NOTEST	0	0
Gm2721	chr12:105394855-105403760	NOTEST	0	0
Gm2799,Gmcl1l	chrX:32560054-32562009	NOTEST	0	0
Gm2825	chrX:32973896-32975846	NOTEST	0	0
Gm2837	chrX:33056285-33057063	NOTEST	0	0
Gm2848	chr13:52569879-52573225	NOTEST	0	0
Gm2863	chrX:33313337-33315288	NOTEST	0	0
Gm2913	chrX:33575386-33577346	NOTEST	0	0
Gm2927	chrX:33657139-33659082	NOTEST	0	0
Gm2933	chrX:33575386-33577346	NOTEST	0	0
Gm3020	chr14:3634511-3800987	LOWDAT	0	0
Gm3139	chr5_JH584296_random:40898-	NOTEST	0	0
Gm3143	chr3:34699639-34716662	NOTEST	0	0

Gm3238	chr10:77686568-77886769	NOTEST	0	0
Gm3259	chr5:95305922-95343575	NOTEST	0	0
Gm3264	chr14:4871155-4875851	NOTEST	0	0
Gm3279	chr6:55684570-55694574	NOTEST	0	0
Gm3285	chr10:77686568-77886769	NOTEST	0	0
Gm3286	chr5_GL456354_random:82558	NOTEST	0	0
Gm3402	chr5:146502376-146516902	LOWDAT	0	0
Gm3404	chr5:146525800-146528553	NOTEST	0	0
Gm3409	chr5:146537647-146540427	NOTEST	0	0
Gm3415	chr5:146502376-146516902	NOTEST	0	0
Gm3428	chr9:35848544-35849880	NOTEST	0	0
Gm3434	chr9:36134286-36135630	NOTEST	0	0
Gm3458	chr9:71211912-71215386	NOTEST	0	0
Gm362	chrX:43590988-43593530	NOTEST	0	0
Gm364	chrX:57409148-57488771	NOTEST	0	0
Gm3646	chr1:39804140-39805332	NOTEST	0	0
Gm3701	chrX:3955042-3957002	NOTEST	0	0
Gm3706	chrX:4800410-4802359	LOWDAT	0	0
Gm3750	chrX:4037673-4039622	NOTEST	0	0
Gm3763	chrX:4952134-4954077	NOTEST	0	0
Gm382	chrX:127039971-127063986	NOTEST	0	0
Gm4027	chr12:87618867-87622955	LOWDAT	0	0
Gm41	chrX:86345474-86354994	NOTEST	0	0
Gm4133	chr7:22328793-22329717	NOTEST	0	0
Gm4175	chr7:22983728-22984673	NOTEST	0	0
Gm4201	chr7:22564422-22565343	NOTEST	0	0
Gm4214	chr7:21300501-21301467	NOTEST	0	0
Gm4216	chr7:23019005-23019923	NOTEST	0	0
Gm4224	chr7:12221315-12225807	NOTEST	0	0
Gm4251	chr14:71251272-71271059	NOTEST	0	0
Gm4265	chr7:129962164-129978669	NOTEST	0	0
Gm4278	chr14:74975085-74987104	NOTEST	0	0
Gm428	chr4:73681177-73687560	NOTEST	0	0
Gm4297	chrX:24552249-24573305	NOTEST	0	0
Gm4301	chr10:100381646-100382560	NOTEST	0	0
Gm4302	chr10:100345969-100362247	NOTEST	0	0
Gm4303	chr10:100345969-100362247	NOTEST	0	0
Gm4307	chr10:100345969-100362247	NOTEST	0	0
Gm4312	chr10:100366498-100367412	NOTEST	0	0
Gm4340	chr10:104142986-104188000	NOTEST	0	0
Gm436	chr4:144669936-144686368	NOTEST	0	0
Gm438	chr4:144777203-144786583	NOTEST	0	0
Gm44	chrX:90892141-90893134	NOTEST	0	0
Gm4541	chr7:23151760-23178761	NOTEST	0	0
Gm4559	chr7:142273763-142274363	NOTEST	0	0
Gm4567,Gm6902	chr7:22713597-22900755	NOTEST	0	0
Gm4598	chr7:24661293-24663109	NOTEST	0	0
Gm4710	chr17:75861022-75889039	NOTEST	0	0
Gm4719	chr17:89379240-89384993	NOTEST	0	0
Gm4736	chr6:132114220-132364135	NOTEST	0	0
Gm4745	chr7:14659707-14665996	NOTEST	0	0
Gm4763	chr7:24722493-24724290	NOTEST	0	0
Gm4776	chr1:46020414-46030437	NOTEST	0	0

Gm4791	chr9:46998740-47003860	NOTEST	0	0
Gm4794	chr10:33766423-33782115	NOTEST	0	0
Gm4814	chr13:93040714-93144724	NOTEST	0	0
Gm4832	chr17:88125511-88131116	NOTEST	0	0
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Gm4858	chr3:93068822-93075505	NOTEST	0	0
Gm4871	chr5:145029599-145032764	NOTEST	0	0
Gm4872	chr6:53221163-53226599	NOTEST	0	0
Gm4884	chr7:41032718-41045302	NOTEST	0	0
Gm4894	chr9:49250530-49280594	NOTEST	0	0
Gm4906	chrX:11327821-11328151	NOTEST	0	0
Gm4907	chrX:23892762-23907550	NOTEST	0	0
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Gm4971	chr7:73685491-73686563	NOTEST	0	0
Gm4981	chr10:58234847-58236660	NOTEST	0	0
Gm5039	chr12:88320121-88321762	NOTEST	0	0
Gm5065	chr7:5298546-5360682	NOTEST	0	0
Gm5071	chrX:91931945-91932980	NOTEST	0	0
Gm5072	chrX:91480125-91481160	NOTEST	0	0
Gm5082	chr13:41649442-41656777	NOTEST	0	0
Gm5087	chr14:13157387-13284638	NOTEST	0	0
Gm5091	chr17:15231584-15240783	NOTEST	0	0
Gm5095	chr18:47537734-47718636	NOTEST	0	0
Gm5108	chr5:67933611-67977070	NOTEST	0	0
Gm5114	chr7:39407293-39413160	NOTEST	0	0
Gm5129	chr5:29735333-29786478	NOTEST	0	0
Gm5132	chrX:9571959-9572391	NOTEST	0	0
Gm5134	chr10:75954513-76009589	NOTEST	0	0
Gm5142	chr14:59158502-59178749	NOTEST	0	0
Gm5150	chr3:15948069-16006332	NOTEST	0	0
Gm5166	chrX:102791195-102798389	NOTEST	0	0
Gm5168	chrX:26028213-26051041	NOTEST	0	0
Gm5169	chrX:25277482-25301455	NOTEST	0	0
Gm5177	chr10:10605944-10616313	NOTEST	0	0
Gm5294	chr5:138820079-138821619	NOTEST	0	0
Gm5334	chr7:68618455-68620009	NOTEST	0	0
Gm5346	chr8:43624974-43627185	NOTEST	0	0
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Gm5382	chrX:14211147-14211657	NOTEST	0	0
Gm5409	chr6:41415306-41419593	NOTEST	0	0
Gm5414	chr15:101624027-101628188	NOTEST	0	0
Gm5416	chr16:36210402-36217788	NOTEST	0	0
Gm5420	chr10:21690844-21693978	NOTEST	0	0
Gm5441	chr12:116485719-117337012	NOTEST	0	0
Gm5458	chr14:19594137-19602587	NOTEST	0	0
Gm5460	chr14:34041077-34046981	NOTEST	0	0
Gm5476	chr15:101587316-101588572	NOTEST	0	0
Gm5477	chr15:101608873-101610479	NOTEST	0	0
Gm5478	chr15:101643019-101647380	NOTEST	0	0
Gm5483	chr16:36184211-36188110	NOTEST	0	0

Gm5485	chr16:48399452-48412416	NOTEST	0	0
Gm5538	chr3:59729785-59752397	NOTEST	0	0
Gm5549	chr3:132630190-132644649	NOTEST	0	0
Gm5591	chr7:38518138-38528193	NOTEST	0	0
Gm5592	chr7:41284326-41290183	NOTEST	0	0
Gm5615	chr9:36532402-36541963	NOTEST	0	0
Gm5622	chr14:51552789-51662953	NOTEST	0	0
Gm5627	chr9:102739647-102756685	NOTEST	0	0
Gm5634	chrX:8962133-8962975	NOTEST	0	0
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Gm5662	chr12:88270634-88274497	NOTEST	0	0
Gm5712	chr3:129433672-129434712	NOTEST	0	0
Gm5725	chr7:23066532-23067456	NOTEST	0	0
Gm5726	chr7:20544833-20545757	NOTEST	0	0
Gm5728	chr7:22370121-22371039	NOTEST	0	0
Gm5766	chr16:4229228-4231205	NOTEST	0	0
Gm5771	chr6:41392355-41397256	NOTEST	0	0
Gm5779	chr10:75352054-75352961	NOTEST	0	0
Gm5795	chr14:3634511-3800987	NOTEST	0	0
Gm5796	chr14:4023940-4041368	NOTEST	0	0
Gm5797	chr14:7323987-7323995	NOTEST	0	0
Gm5800	chr14:51711643-51717132	NOTEST	0	0
Gm5862	chr5:26018420-26022891	NOTEST	0	0
Gm5885	chr6:133529188-133532762	NOTEST	0	0
Gm5891	chr7:23132622-23144480	NOTEST	0	0
Gm5893	chr7:24818794-24840275	NOTEST	0	0
Gm590	chr9:110914738-110916861	NOTEST	0	0
Gm5916	chr9:36119933-36128779	NOTEST	0	0
Gm5925	chrX:4515588-4517543	NOTEST	0	0
Gm5934	chrX:24474307-24499163	NOTEST	0	0
Gm5935	chrX:24753161-24775164	NOTEST	0	0
Gm5938	chrX:78125466-78130403	NOTEST	0	0
Gm5941	chrX:92118878-92599572	NOTEST	0	0
Gm597	chr1:28776121-28780252	NOTEST	0	0
Gm6026	chrY:2599098-2599434	NOTEST	0	0
Gm6034	chr17:36042960-36058645	NOTEST	0	0
Gm6040	chr8:20916489-20922071	NOTEST	0	0
Gm6042	chr15:101503815-101506313	NOTEST	0	0
Gm6086	chr1:93990508-94011539	NOTEST	0	0
Gm6116	chr5:74949193-74966368	NOTEST	0	0
Gm6121	chrX:26912743-26935669	NOTEST	0	0
Gm6164	chr7:22200340-22201264	NOTEST	0	0
Gm6260	chr3:143670891-143712143	NOTEST	0	0
Gm6268	chrX:36403476-36404654	NOTEST	0	0
Gm6289	chr3:144879324-144896011	NOTEST	0	0
Gm6300	chr3:14363116-14374239	NOTEST	0	0
Gm6313	chr6:148606785-148614309	NOTEST	0	0
Gm6329	chr8:45160493-45165145	NOTEST	0	0
Gm6367	chr5_JH584299_random:587624	NOTEST	0	0
Gm6370	chr5:146491362-146494132	NOTEST	0	0
Gm6406	chr9:98856590-98857352	NOTEST	0	0
Gm6432	chr9:99229375-99237239	NOTEST	0	0
Gm6455	chr5:10865028-10870808	NOTEST	0	0

Gm6460	chr5:11594955-11599480	NOTEST	0	0
Gm648	chrX:56543873-56549606	NOTEST	0	0
Gm6484	chr9:21800179-21852635	NOTEST	0	0
Gm6525	chr3:84160438-84304775	NOTEST	0	0
Gm6567	chr7:73097751-73102068	NOTEST	0	0
Gm6578	chr6:12099520-12109580	NOTEST	0	0
Gm6583	chr5:112343094-112378424	NOTEST	0	0
Gm6592	chrX:8843993-8849607	NOTEST	0	0
Gm6602	chr3:111881902-112082001	NOTEST	0	0
Gm6607	chr9:22055459-22389206	NOTEST	0	0
Gm6639	chr3:35597151-35666163	NOTEST	0	0
Gm6696	chr8:21583026-21583867	NOTEST	0	0
Gm6756	chr18:36920304-36922207	NOTEST	0	0
Gm6760	chrX:64151404-64152198	NOTEST	0	0
Gm6763	chr10:104142986-104188000	LOWDAT	0	0
Gm6792	chr7:6252709-6281861	NOTEST	0	0
Gm6793	chr2:75659258-75669407	NOTEST	0	0
Gm6812	chrX:68892372-68893053	NOTEST	0	0
Gm6815	chr16:36194479-36197886	NOTEST	0	0
Gm6878	chr14:67233291-67430952	NOTEST	0	0
Gm6880	chrX:74480286-74481399	NOTEST	0	0
Gm6890	chrX:74740926-74742188	NOTEST	0	0
Gm6902	chr7:22713597-22900755	LOWDAT	0	0
Gm6904	chr14:59244440-59260216	NOTEST	0	0
Gm6927	chrX:77674813-77675452	NOTEST	0	0
Gm7056	chr5:89616435-89622611	NOTEST	0	0
Gm7073	chrX:60436051-60456195	NOTEST	0	0
Gm7104	chr12:88282866-88287070	NOTEST	0	0
Gm7134	chrX:110372752-110375156	NOTEST	0	0
Gm7157	chrX:152563333-152563969	NOTEST	0	0
Gm7168	chr17:13948372-13950678	NOTEST	0	0
Gm7257	chr9:36431883-36434938	NOTEST	0	0
Gm732	chrX:107945734-107948436	NOTEST	0	0
Gm7337	chr5:87850358-87853012	NOTEST	0	0
Gm7550	chr12:54387732-54391318	NOTEST	0	0
Gm7616	chr9:59951293-59959044	NOTEST	0	0
Gm773	chrX:56189826-56212881	NOTEST	0	0
Gm7788	chr18:23217595-23217818	NOTEST	0	0
Gm7849,Gm7861	chr8:21593374-21594465	NOTEST	0	0
Gm7861	chr8:21593374-21594465	LOWDAT	0	0
Gm7904	chr9:21607083-21608329	NOTEST	0	0
Gm7978	chr5_GL456354_random:15730	NOTEST	0	0
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Gm813	chr16:58613685-58616978	NOTEST	0	0
Gm815	chr19:26885924-26888647	NOTEST	0	0
Gm8179	chr8:32151894-32181847	NOTEST	0	0
Gm829	chr4:45683588-45723706	NOTEST	0	0
Gm8298	chr3:59861050-59877313	NOTEST	0	0
Gm8369	chr19:11492037-11512577	NOTEST	0	0
Gm839	chr6:89212196-89216179	NOTEST	0	0
Gm8580	chr10:93641048-93745972	NOTEST	0	0
Gm8633	chr10:98299926-98351867	NOTEST	0	0
Gm8677	chr7:22533963-22534887	NOTEST	0	0

Gm8693	chr7:22691396-22692317	NOTEST	0	0
Gm8709	chr10:26673445-26674651	NOTEST	0	0
Gm8765	chr13:50698328-50703409	NOTEST	0	0
Gm8817	chrX:167063448-167070370	NOTEST	0	0
Gm884	chr11:103534576-103614739	NOTEST	0	0
Gm8882	chr6:132114220-132364135	NOTEST	0	0
Gm8883	chr1:71888111-71891204	NOTEST	0	0
Gm8884	chr9:48454343-48454727	NOTEST	0	0
Gm9	chrX:37208501-37211041	NOTEST	0	0
Gm904	chr13:50643227-50645838	NOTEST	0	0
Gm9047	chr6:29471436-29473429	NOTEST	0	0
Gm9112	chrX:102706887-102707670	NOTEST	0	0
Gm9125	chr3:94047980-94054885	NOTEST	0	0
Gm9159	chrX:103545499-103547699	NOTEST	0	0
Gm9268	chr7:43018797-43048106	NOTEST	0	0
Gm933	chr16:32804887-32810446	NOTEST	0	0
Gm9376	chr14:118267157-118267770	NOTEST	0	0
Gm94	chr18:43777195-43792878	NOTEST	0	0
Gm9513	chr9:36475637-36477180	NOTEST	0	0
Gm9573	chr17:35617922-35626637	NOTEST	0	0
Gm9696	chr3:59952308-59973594	NOTEST	0	0
Gm9731	chr8:27296044-27297200	NOTEST	0	0
Gm9758	chr5:14910123-14914889	NOTEST	0	0
Gm9839	chr1:32172805-32657738	NOTEST	0	0
Gm9871	chr6:101774248-101801982	NOTEST	0	0
Gm9926	chr18:66504177-66511737	NOTEST	0	0
Gm9961	chr16:11803720-11930594	NOTEST	0	0
Gm9992	chr17:7363711-7385305	NOTEST	0	0
Gm9994	chr1:93918436-93941239	NOTEST	0	0
Gm9999	chr7:46976631-46987803	NOTEST	0	0
Gmcl1l	chrX:32560054-32562009	NOTEST	0	0
Gml	chr15:74813454-74818815	NOTEST	0	0
Gnat3	chr5:17962569-18019668	NOTEST	0	0
Gnrhr	chr5:86181997-86197870	NOTEST	0	0
Gp2	chr7:119442543-119459272	NOTEST	0	0
Gpa33	chr1:166130459-166166510	NOTEST	0	0
Gpbar1	chr1:74278599-74279589	NOTEST	0	0
Gphb5	chr12:75411719-75416781	NOTEST	0	0
Gpr113	chr5:30193430-30205722	NOTEST	0	0
Gpr15	chr16:58717434-58718724	NOTEST	0	0
Gpr31b	chr17:13051320-13052280	NOTEST	0	0
Gpr33	chr12:52023003-52028063	NOTEST	0	0
Gpr50	chrX:71663766-71668089	NOTEST	0	0
Gpr82	chrX:13517080-13846556	NOTEST	0	0
Gpr87	chr3:59006977-59344256	NOTEST	0	0
Gprc6a	chr10:51614822-51631458	NOTEST	0	0
Gpx5	chr13:21286428-21292686	NOTEST	0	0
Grin1os	chr2:25289910-25319187	NOTEST	0	0
Grip1os2	chr10:119454033-120112965	NOTEST	0	0
Gsc	chr12:104471208-104473236	NOTEST	0	0
Gsc2	chr16:17913553-17915059	NOTEST	0	0
Gsdma2	chr11:98646758-98657957	NOTEST	0	0
Gsdma3	chr11:98626359-98638089	NOTEST	0	0

Gsdmc	chr15:63775970-63808739	NOTEST	0	0
Gsdmc2	chr15:63824345-63845176	NOTEST	0	0
Gsdmc3	chr15:63857724-63878558	NOTEST	0	0
Gsdmcl-ps	chr15:63914460-63925453	NOTEST	0	0
Gsdmcl1	chr15:63847308-63850942	NOTEST	0	0
Gsdmcl2	chr15:63880706-63889073	NOTEST	0	0
Gstt4	chr10:75814943-75822543	NOTEST	0	0
Gsx1	chr5:147188695-147190946	NOTEST	0	0
Gsx2	chr5:75075600-75077893	NOTEST	0	0
Gtsf1	chr15:103402458-103430427	NOTEST	0	0
Gtsf1l	chr2:163087030-163089601	NOTEST	0	0
Guca2a	chr4:119637731-119639465	NOTEST	0	0
Guca2b	chr4:119656602-119658945	NOTEST	0	0
Gucy1b2	chr14:62392669-62456289	NOTEST	0	0
Gulo	chr14:65986786-66009210	NOTEST	0	0
Gykl1	chr18:52693678-52695593	NOTEST	0	0
Gzmc	chr14:56231400-56234656	NOTEST	0	0
Gzmd	chr14:56129567-56132593	NOTEST	0	0
Gzme	chr14:56117618-56120625	NOTEST	0	0
Gzmf	chr14:56205262-56211407	NOTEST	0	0
Gzmg	chr14:56156580-56159579	NOTEST	0	0
Gzmk	chr13:113171873-113180897	NOTEST	0	0
Gzmn	chr14:56165795-56174596	NOTEST	0	0
H1fnt	chr15:98255981-98257307	NOTEST	0	0
H2-BI	chr17:36080188-36084249	NOTEST	0	0
H2-Ea-ps	chr17:34342211-34344645	NOTEST	0	0
H2-L	chr17:35263093-35267497	NOTEST	0	0
H2-M10.1	chr17:36322859-36326150	NOTEST	0	0
H2-M10.3	chr17:36365003-36368417	NOTEST	0	0
H2-M10.4	chr17:36460163-36462329	NOTEST	0	0
H2-M10.6	chr17:36812174-36815566	NOTEST	0	0
H2-M2	chr17:37480850-37483529	NOTEST	0	0
H2afb1	chr2:17996421-17996946	NOTEST	0	0
H2afb2	chrX:116681177-116681525	NOTEST	0	0
H2afb3	chrX:120290326-120910618	NOTEST	0	0
H2bfm	chrX:136927324-136928373	NOTEST	0	0
H60c	chr10:3256207-3267771	NOTEST	0	0
Habp2	chr19:56287937-56390038	NOTEST	0	0
Hamp	chr7:30942368-30944017	NOTEST	0	0
Hamp2	chr7:30922371-30924181	NOTEST	0	0
Hand1	chr11:57828712-57832147	NOTEST	0	0
Hand2	chr8:57320982-57324517	NOTEST	0	0
Havcr1	chr11:46740222-46779578	NOTEST	0	0
Hba-x	chr11:32276599-32278115	NOTEST	0	0
Hbb-bh1	chr7:103841637-103843162	NOTEST	0	0
Hbb-bh2	chr7:103839123-103840521	NOTEST	0	0
Hbb-y	chr7:103851753-103853207	NOTEST	0	0
Hcrt	chr11:100761692-100762931	NOTEST	0	0
Hdgfl1	chr13:26768171-26770165	NOTEST	0	0
Hdhd1a	chr18:50567655-50568699	NOTEST	0	0
Helt	chr8:46292047-46294671	NOTEST	0	0
Hes2	chr4:152158866-152162469	NOTEST	0	0
Hfe2	chr3:96525184-96529216	NOTEST	0	0

Hist1h1t	chr13:23695810-23696545	NOTEST	0	0
Hist1h2aa	chr13:23934461-23934913	NOTEST	0	0
Hist1h2ab	chr13:23751087-23751592	NOTEST	0	0
Hist1h2ba	chr13:23933724-23934156	NOTEST	0	0
Hist1h3h	chr13:21717627-21718115	NOTEST	0	0
Hist1h4b	chr13:23756936-23757386	NOTEST	0	0
Hist1h4f	chr13:23551285-23551643	NOTEST	0	0
Hmgb1-rs17	chr8:33484310-33485757	NOTEST	0	0
Hnf1a	chr5:114948979-114971062	NOTEST	0	0
Hnf4a	chr2:163547187-163572907	NOTEST	0	0
Hnf4aos	chr2:163492317-163541721	NOTEST	0	0
Hormad1	chr3:95559676-95587860	NOTEST	0	0
Hottip	chr6:52262774-52267603	NOTEST	0	0
Hoxa13	chr6:52258852-52260880	NOTEST	0	0
Hoxb1	chr11:96365757-96368253	NOTEST	0	0
Hoxb13	chr11:96194360-96196599	NOTEST	0	0
Hoxc12	chr15:102936852-102938517	NOTEST	0	0
Hoxc13	chr15:102921130-102928814	NOTEST	0	0
Hoxd12	chr2:74675012-74677705	NOTEST	0	0
Hoxd13	chr2:74668309-74671599	NOTEST	0	0
Hpd	chr5:123171806-123182686	NOTEST	0	0
Hrh4	chr18:13006989-13022882	NOTEST	0	0
Hrnr	chr3:93319748-93333572	NOTEST	0	0
Hsd3b2	chr3:98711106-98724543	NOTEST	0	0
Hsd3b3	chr3:98741475-98763128	NOTEST	0	0
Hsd3b4	chr3:98552543-98564038	NOTEST	0	0
Hsd3b5	chr3:98618635-98645534	NOTEST	0	0
Hsfy2	chr1:56636050-56637451	NOTEST	0	0
Hspb9	chr11:100713849-100714575	NOTEST	0	0
Hyal4	chr6:24748366-24766519	NOTEST	0	0
Hyal5	chr6:24857996-24891958	NOTEST	0	0
I730028E13Rik	chr9:61138514-61145259	NOTEST	0	0
Iapp	chr6:142234226-142322981	NOTEST	0	0
Idi2	chr13:8952862-8960935	NOTEST	0	0
Ido1	chr8:24584140-24597009	NOTEST	0	0
Ifi202b	chr1:173962568-173982844	NOTEST	0	0
Ifi27l2b	chr12:103450897-103457223	NOTEST	0	0
Ifna1	chr4:88850086-88850656	NOTEST	0	0
Ifna11	chr4:88819918-88820565	NOTEST	0	0
Ifna12	chr4:88602579-88603376	NOTEST	0	0
Ifna13	chr4:88643640-88644459	NOTEST	0	0
Ifna14	chr4:88571228-88571798	NOTEST	0	0
Ifna15	chr4:88557672-88558245	NOTEST	0	0
Ifna16	chr4:88676286-88676856	NOTEST	0	0
Ifna2	chr4:88683206-88683779	NOTEST	0	0
Ifna4	chr4:88841815-88842459	NOTEST	0	0
Ifna5	chr4:88835524-88836094	NOTEST	0	0
Ifna6	chr4:88827415-88827985	NOTEST	0	0
Ifna7	chr4:88816224-88816800	NOTEST	0	0
Ifna9	chr4:88591812-88592385	NOTEST	0	0
Ifnab	chr4:88690598-88691268	NOTEST	0	0
Ifnb1	chr4:88522024-88522794	NOTEST	0	0
Ifne	chr4:88879537-88880201	NOTEST	0	0

Ifnk	chr4:34949073-35157484	NOTEST	0	0
Ifnl2	chr7:28508860-28510360	NOTEST	0	0
Ifnl3	chr7:28522835-28524322	NOTEST	0	0
Ifnz	chr4:88782130-88783592	NOTEST	0	0
Igbp1b	chr6:138657091-138658444	NOTEST	0	0
Igfl3	chr7:18176493-18181862	NOTEST	0	0
Igsf23	chr7:19937304-19950743	NOTEST	0	0
Il10	chr1:131019844-131024970	NOTEST	0	0
Il12b	chr11:44400062-44414017	NOTEST	0	0
Il13	chr11:53631322-53634702	NOTEST	0	0
Il17a	chr1:20730904-20734496	NOTEST	0	0
Il17c	chr8:122422084-122423639	NOTEST	0	0
Il19	chr1:130932655-130939241	NOTEST	0	0
Il1f10	chr2:24291195-24293820	NOTEST	0	0
Il1f5	chr2:24276953-24282432	NOTEST	0	0
Il1f6	chr2:24215416-24225701	NOTEST	0	0
Il1f8	chr2:24153171-24160103	NOTEST	0	0
Il2	chr3:37120715-37125954	NOTEST	0	0
Il22	chr10:118204963-118210046	NOTEST	0	0
Il23r	chr6:67422931-67491855	NOTEST	0	0
Il24	chr1:130882073-130887411	NOTEST	0	0
Il27	chr7:126589294-126594910	NOTEST	0	0
Il3	chr11:54265084-54267279	NOTEST	0	0
Il31	chr5:123480152-123482101	NOTEST	0	0
Il9	chr13:56479276-56482246	NOTEST	0	0
Itlfb	chr10:118289629-118295038	NOTEST	0	0
Inhbc	chr10:127356325-127370544	NOTEST	0	0
Inhbe	chr10:127349401-127351772	NOTEST	0	0
Ins1	chr19:52264322-52265458	NOTEST	0	0
Iqca	chr1:90042131-90153401	NOTEST	0	0
Iqcf1	chr9:106499966-106502250	NOTEST	0	0
Iqcf3	chr9:106543388-106561625	NOTEST	0	0
Iqcf4	chr9:106568318-106570967	NOTEST	0	0
Iqcf5	chr9:106514572-106516003	NOTEST	0	0
Iqcf6	chr9:106626581-106627612	NOTEST	0	0
Irs4	chrX:141710997-141725217	NOTEST	0	0
Irx1	chr13:71958231-71963723	NOTEST	0	0
Irx2	chr13:72628977-72634194	NOTEST	0	0
Isx	chr8:74873173-74893506	NOTEST	0	0
Itgb1bp2	chrX:101449108-101453541	NOTEST	0	0
Itln1	chr1:171518123-171535294	NOTEST	0	0
Ivl	chr3:92570899-92573735	NOTEST	0	0
Izumo2	chr7:44708742-44719842	NOTEST	0	0
Kap	chr6:133849854-133853667	NOTEST	0	0
Kcne1	chr16:92346000-92359468	NOTEST	0	0
Kcnj1	chr9:32372417-32399194	NOTEST	0	0
Kcnk15	chr2:163853749-163858874	NOTEST	0	0
Kdf1	chr4:133518962-133530790	NOTEST	0	0
Keg1	chr19:12695789-12719896	NOTEST	0	0
Khdc1b	chr1:21383555-21386384	NOTEST	0	0
Khdc1c	chr1:21368330-21369743	NOTEST	0	0
Kif12	chr4:63165636-63172131	NOTEST	0	0
Kif2b	chr11:91575285-91577555	NOTEST	0	0

Kif4-ps	chr12:101145608-101149273	NOTEST	0	0
Kir3dl1	chrX:136517998-136534308	NOTEST	0	0
Kir3dl2	chrX:136448106-136469041	NOTEST	0	0
Kis2	chrX:52742502-52744593	NOTEST	0	0
Klf14	chr6:30956020-30958990	NOTEST	0	0
Klhdc7b	chr15:89386890-89388708	NOTEST	0	0
Klk1	chr7:44225436-44229617	NOTEST	0	0
Klk14	chr7:43690417-43695535	NOTEST	0	0
Klk15	chr7:43933770-43939590	NOTEST	0	0
Klk1b1	chr7:43966767-43971315	NOTEST	0	0
Klk1b11	chr7:43995878-43999875	NOTEST	0	0
Klk1b16	chr7:44136766-44141604	NOTEST	0	0
Klk1b21	chr7:44102291-44106579	NOTEST	0	0
Klk1b22	chr7:44112682-44116876	NOTEST	0	0
Klk1b24	chr7:44188262-44192451	NOTEST	0	0
Klk1b26	chr7:44012677-44016968	NOTEST	0	0
Klk1b3	chr7:44198190-44202351	NOTEST	0	0
Klk1b4	chr7:44207434-44211754	NOTEST	0	0
Klk1b5	chr7:44216474-44220703	NOTEST	0	0
Klk1b7-ps	chr7:43945011-43945927	NOTEST	0	0
Klk1b8	chr7:43950671-43954938	NOTEST	0	0
Klk1b9	chr7:43976060-43980376	NOTEST	0	0
Klra12	chr6:129972081-130386874	NOTEST	0	0
Klra17	chr6:129831153-129876672	NOTEST	0	0
Klra22	chr6:129972081-130386874	NOTEST	0	0
Klra23	chr6:129972081-130386874	NOTEST	0	0
Klrb1-ps1	chr6:129116517-129129446	NOTEST	0	0
Kpna7	chr5:144983743-145009636	NOTEST	0	0
Kprp	chr3:92823073-92827247	NOTEST	0	0
Krt12	chr11:99415663-99422259	NOTEST	0	0
Krt18	chr15:102028215-102032026	NOTEST	0	0
Krt24	chr11:99280092-99285238	NOTEST	0	0
Krt31	chr11:100046645-100050551	NOTEST	0	0
Krt32	chr11:100080847-100088226	NOTEST	0	0
Krt33a	chr11:100011198-100016212	NOTEST	0	0
Krt33b	chr11:100023633-100029868	NOTEST	0	0
Krt34	chr11:100037350-100041554	NOTEST	0	0
Krt35	chr11:100092191-100096224	NOTEST	0	0
Krt39	chr11:99514623-99521258	NOTEST	0	0
Krt4	chr15:101918534-101924735	NOTEST	0	0
Krt5	chr15:101707069-101712891	NOTEST	0	0
Krt6b	chr15:101676022-101680289	NOTEST	0	0
Krt71	chr15:101733948-101743097	NOTEST	0	0
Krt72	chr15:101776559-101786458	NOTEST	0	0
Krt73	chr15:101793307-101802332	NOTEST	0	0
Krt74	chr15:101754258-101763504	NOTEST	0	0
Krt76	chr15:101884350-101892920	NOTEST	0	0
Krt77	chr15:101859855-101869618	NOTEST	0	0
Krt81	chr15:101431013-101491512	NOTEST	0	0
Krt84	chr15:101525025-101532820	NOTEST	0	0
Krt86	chr15:101431013-101491512	NOTEST	0	0
Krtap1-3	chr11:99590460-99591377	NOTEST	0	0
Krtap1-4	chr11:99582548-99583677	NOTEST	0	0

Krtap1-5	chr11:99579976-99581016	NOTEST	0	0
Krtap10-10	chr10:77686568-77886769	NOTEST	0	0
Krtap10-4	chr10:77686568-77886769	NOTEST	0	0
Krtap11-1	chr16:89570175-89571183	NOTEST	0	0
Krtap12-1	chr10:77686568-77886769	NOTEST	0	0
Krtap13	chr16:88750743-88751628	NOTEST	0	0
Krtap13-1	chr16:88728861-88729611	NOTEST	0	0
Krtap14	chr16:88825290-88826145	NOTEST	0	0
Krtap15	chr16:88829008-88829844	NOTEST	0	0
Krtap16-1	chr16:88873664-88874269	NOTEST	0	0
Krtap16-3	chr16:88962303-88962873	NOTEST	0	0
Krtap17-1	chr11:99993231-99993994	NOTEST	0	0
Krtap19-1	chr16:88868917-88869410	NOTEST	0	0
Krtap19-3	chr16:88877512-88878038	NOTEST	0	0
Krtap19-4	chr16:88884785-88885089	NOTEST	0	0
Krtap19-5	chr16:88895967-88896449	NOTEST	0	0
Krtap19-9b	chr16:88931803-88932264	NOTEST	0	0
Krtap2-4	chr11:99614016-99614846	NOTEST	0	0
Krtap20-2	chr16:89205860-89206394	NOTEST	0	0
Krtap21-1	chr16:89403026-89403774	NOTEST	0	0
Krtap22-2	chr16:89010379-89010759	NOTEST	0	0
Krtap24-1	chr16:88610708-88612279	NOTEST	0	0
Krtap26-1	chr16:88646823-88647796	NOTEST	0	0
Krtap27-1	chr16:88671045-88671654	NOTEST	0	0
Krtap3-1	chr11:99566026-99566630	NOTEST	0	0
Krtap3-2	chr11:99555822-99556853	NOTEST	0	0
Krtap3-3	chr11:99550131-99550863	NOTEST	0	0
Krtap31-1	chr11:99907919-99908890	NOTEST	0	0
Krtap31-2	chr11:99936290-99937225	NOTEST	0	0
Krtap4-1	chr11:99627228-99628239	NOTEST	0	0
Krtap4-13	chr11:99798185-99809896	NOTEST	0	0
Krtap4-16	chr11:99850654-99851605	NOTEST	0	0
Krtap4-2	chr11:99634113-99635084	NOTEST	0	0
Krtap4-6	chr11:99665042-99665960	NOTEST	0	0
Krtap4-7	chr11:99643111-99644089	NOTEST	0	0
Krtap4-8	chr11:99780013-99780643	NOTEST	0	0
Krtap4-9	chr11:99785199-99786257	NOTEST	0	0
Krtap5-1	chr7:142296376-142297069	NOTEST	0	0
Krtap5-2	chr7:142174531-142176005	NOTEST	0	0
Krtap5-3	chr7:142201363-142203015	NOTEST	0	0
Krtap5-4	chr7:142303501-142304503	NOTEST	0	0
Krtap5-5	chr7:142228794-142229971	NOTEST	0	0
Krtap6-1	chr16:89031698-89032292	NOTEST	0	0
Krtap6-2	chr16:89419322-89420111	NOTEST	0	0
Krtap6-5	chr16:89047288-89047899	NOTEST	0	0
Krtap7-1	chr16:89507702-89508323	NOTEST	0	0
Krtap8-1	chr16:89487373-89487952	NOTEST	0	0
Krtap9-1	chr11:99873388-99874000	NOTEST	0	0
Krtap9-3	chr11:99597347-99598106	NOTEST	0	0
Krtap9-5	chr11:99948474-99949551	NOTEST	0	0
LOC100040786	chrY:66739796-66742170	NOTEST	0	0
LOC100048884	chr4:61670177-61674094	NOTEST	0	0
LOC100502896	chr4:73650909-73672398	NOTEST	0	0

LOC100503280	chrX:74966843-74969125	NOTEST	0	0
LOC100504039	chrX:53686490-53691332	LOWDAT	0	0
LOC100505025	chr7:73310379-73419899	NOTEST	0	0
LOC100861615	chr14:6259746-6287250	NOTEST	0	0
LOC100862015	chr4:73635784-73642163	NOTEST	0	0
LOC101055863	chr4:73681177-73687560	NOTEST	0	0
LOC101056136	chr14:42254658-42260048	NOTEST	0	0
LOC101056149	chr13:34652922-34666774	NOTEST	0	0
LOC101056236	chr16:92377070-92382683	NOTEST	0	0
LOC102308570	chr19:8883877-8890759	NOTEST	0	0
LOC102631757	chr17:31152751-31165053	NOTEST	0	0
LOC102632430	chr16:22857844-22899451	NOTEST	0	0
LOC102633315	chr8:25518758-25575718	NOTEST	0	0
LOC102634101	chr10:67005074-67096988	NOTEST	0	0
LOC102634401	chr2:74748421-74762896	NOTEST	0	0
LOC102634753	chr3:99049821-99053742	NOTEST	0	0
LOC102636514	chr8:57304413-57320859	NOTEST	0	0
LOC666331	chr11:101610699-101615956	NOTEST	0	0
Lbx1	chr19:45233727-45235236	NOTEST	0	0
Lce1a1	chr3:92646531-92648307	NOTEST	0	0
Lce1a2	chr3:92668612-92670315	NOTEST	0	0
Lce1b	chr3:92655649-92656926	NOTEST	0	0
Lce1c	chr3:92679246-92680918	NOTEST	0	0
Lce1e	chr3:92707399-92709074	NOTEST	0	0
Lce1f	chr3:92718695-92720350	NOTEST	0	0
Lce1h	chr3:92763214-92765065	NOTEST	0	0
Lce1i	chr3:92777209-92778899	NOTEST	0	0
Lce1j	chr3:92788844-92790514	NOTEST	0	0
Lce1k	chr3:92806290-92807891	NOTEST	0	0
Lce1l	chr3:92849948-92851286	NOTEST	0	0
Lce1m	chr3:93017806-93019060	NOTEST	0	0
Lce3a	chr3:92925286-92926230	NOTEST	0	0
Lce3b	chr3:92932978-92934096	NOTEST	0	0
Lce3c	chr3:92944485-92945730	NOTEST	0	0
Lce3d	chr3:92957389-92958574	NOTEST	0	0
Lce3e	chr3:92967060-92968281	NOTEST	0	0
Lce3f	chr3:92992225-92993426	NOTEST	0	0
Lcn10	chr2:25682725-25686081	NOTEST	0	0
Lcn11	chr2:25777016-25780279	NOTEST	0	0
Lcn12	chr2:25490844-25493911	NOTEST	0	0
Lcn3	chr2:25765568-25768099	NOTEST	0	0
Lcn4	chr2:26667673-26671282	NOTEST	0	0
Lcn5	chr2:25657951-25662230	NOTEST	0	0
Lcn6	chr2:25676785-25681607	NOTEST	0	0
Lcn8	chr2:25653117-25656216	NOTEST	0	0
Lcn9	chr2:25823152-25825537	NOTEST	0	0
Ldhc	chr7:46861262-46878142	NOTEST	0	0
Ldlrad2	chr4:137570875-137575180	NOTEST	0	0
Leap2	chr11:53422180-53423136	NOTEST	0	0
Lect2	chr13:56542459-56548538	NOTEST	0	0
Lefty2	chr1:180893118-180899102	NOTEST	0	0
Lelp1	chr3:92134993-92142754	NOTEST	0	0
Lep	chr6:29060220-29073876	NOTEST	0	0

Lgsn	chr1:31141077-31222656	NOTEST	0	0
Lhb	chr7:45420945-45421854	NOTEST	0	0
Lhx1	chr11:84519378-84525534	NOTEST	0	0
Lhx1os	chr11:84525659-84535831	NOTEST	0	0
Lhx2	chr2:38339280-38369737	NOTEST	0	0
Lhx5	chr5:120431885-120441457	NOTEST	0	0
Lipf	chr19:33961247-33976813	NOTEST	0	0
Lkaaeear1	chr2:181696794-181698442	NOTEST	0	0
Lmod2	chr6:24597770-24605414	NOTEST	0	0
Lmx1a	chr1:167689557-167848733	NOTEST	0	0
Lpcat2b	chr5:107431548-107435039	NOTEST	0	0
Lrcol1	chr5:110354095-110356087	NOTEST	0	0
Lrit3	chr3:129788290-129804030	NOTEST	0	0
Lrrc19	chr4:94614490-94693233	NOTEST	0	0
Lrrc43	chr5:123489324-123508205	NOTEST	0	0
Lrrc66	chr5:73606641-73632421	NOTEST	0	0
Lrrc74	chr12:86734368-86763795	NOTEST	0	0
Lrtm1	chr14:28904942-29721864	NOTEST	0	0
Luzp4	chrX:148882575-148924139	NOTEST	0	0
Ly6f	chr15:75268420-75272234	NOTEST	0	0
Ly6g5c	chr17:35108299-35111953	NOTEST	0	0
Ly6g6c	chr17:35067324-35070048	NOTEST	0	0
Lyg1	chr1:37946737-37957759	NOTEST	0	0
Lypd3	chr7:24636569-24641118	NOTEST	0	0
Lypd5	chr7:24349223-24353833	NOTEST	0	0
Lypd8	chr11:58379031-58390541	NOTEST	0	0
Lyrm7os	chr11:54819918-54824967	NOTEST	0	0
Lyzl1	chr18:4165831-4182236	NOTEST	0	0
Lyzl4os	chr9:121577842-121641566	NOTEST	0	0
Lyzl6	chr11:103631074-103638874	NOTEST	0	0
Magea1	chrX:155088518-155089790	NOTEST	0	0
Magea10	chrX:72381869-72386858	NOTEST	0	0
Magea2	chrX:155027200-155033292	NOTEST	0	0
Magea3	chrX:154948462-154949569	NOTEST	0	0
Magea4	chrX:72222016-72222964	NOTEST	0	0
Magea5	chrX:155053060-155061553	NOTEST	0	0
Magea6	chrX:154924011-154926115	NOTEST	0	0
Magea8	chrX:154985774-154995850	NOTEST	0	0
Mageb1	chrX:92015190-92016333	NOTEST	0	0
Mageb16	chrX:79623230-79671435	NOTEST	0	0
Mageb16-ps1	chrX:144381670-144688180	NOTEST	0	0
Mageb18	chrX:92118878-92599572	NOTEST	0	0
Mageb2	chrX:92015190-92016333	LOWDAT	0	0
Mageb4	chrX:86250255-86256219	NOTEST	0	0
Mageb5	chrX:91779607-91782976	NOTEST	0	0
Marco	chr1:120474537-120505084	NOTEST	0	0
Matn1	chr4:130944384-130955476	NOTEST	0	0
Mbd3l1	chr9:18478394-18485292	NOTEST	0	0
Mbd3l2	chr9:18430614-18446316	NOTEST	0	0
Mbl1	chr14:41151455-41158959	NOTEST	0	0
Mc2r	chr18:68406898-68429320	NOTEST	0	0
Mcoln3	chr3:146121790-146140646	NOTEST	0	0
Mcpt-ps1	chr14:55949808-55952371	NOTEST	0	0

Mcpt2	chr14:56042122-56044634	NOTEST	0	0
Mcpt9	chr14:56026863-56030495	NOTEST	0	0
Mepe	chr5:104325328-104338611	NOTEST	0	0
Mettl11b	chr1:163702992-163725232	NOTEST	0	0
Mettl7b	chr10:128933812-128960988	NOTEST	0	0
Mill1	chr7:18245346-18266092	NOTEST	0	0
Miox	chr15:89334472-89337007	NOTEST	0	0
Mip	chr10:128225837-128231811	NOTEST	0	0
Mir100	chr9:41531424-41531504	NOTEST	0	0
Mir101a	chr4:101346523-101399185	LOWDAT	0	0
Mir101b	chr19:29101374-29143843	NOTEST	0	0
Mir101c	chr9:3038668-3038743	NOTEST	0	0
Mir103-1	chr11:35769494-35791285	NOTEST	0	0
Mir103-2	chr2:131127411-131604824	NOTEST	0	0
Mir105	chrX:72432675-72656246	NOTEST	0	0
Mir106a	chrX:52742502-52744593	NOTEST	0	0
Mir106b	chr5:138164588-138171862	NOTEST	0	0
Mir107	chr19:34806935-34879455	NOTEST	0	0
Mir10a	chr11:96317164-96317274	NOTEST	0	0
Mir10b	chr2:74710043-74748271	NOTEST	0	0
Mir1187	chr5:82798943-82799065	NOTEST	0	0
Mir1188	chr12:109603944-109661711	NOTEST	0	0
Mir1190	chr12:100912699-101028983	NOTEST	0	0
Mir1191	chr5:76183879-76469519	NOTEST	0	0
Mir1191b	chr10:81396190-81427173	NOTEST	0	0
Mir1192	chr19:23141225-23166911	NOTEST	0	0
Mir1193	chr12:109715670-109715791	NOTEST	0	0
Mir1195	chr16:30920553-31275697	NOTEST	0	0
Mir1197	chr12:109712316-109712436	NOTEST	0	0
Mir1198	chr12:55280813-55492647	NOTEST	0	0
Mir1199	chr8:84010227-84011720	LOWDAT	0	0
Mir1224	chr16:20589581-20605377	NOTEST	0	0
Mir122a	chr18:64887755-65751537	NOTEST	0	0
Mir1231	chr1:135434579-135585355	NOTEST	0	0
Mir1247	chr12:110275384-110278129	NOTEST	0	0
Mir1249	chr15:84945719-84987971	NOTEST	0	0
Mir124a-1	chr14:64588114-64593961	LOWDAT	0	0
Mir124a-2	chr3:17789920-17800071	NOTEST	0	0
Mir124a-3	chr2:180894039-180894107	NOTEST	0	0
Mir1251	chr10:92081745-92165178	NOTEST	0	0
Mir1258	chr18:56525735-56587712	NOTEST	0	0
Mir125a	chr17:17830811-17830879	NOTEST	0	0
Mir125b-1	chr9:41581338-41592487	NOTEST	0	0
Mir125b-2	chr16:77646272-77646343	NOTEST	0	0
Mir126	chr2:26581055-26592682	NOTEST	0	0
Mir1264	chrX:146962512-147197277	NOTEST	0	0
Mir126b	chr2:26581055-26592682	NOTEST	0	0
Mir127	chr12:109590168-109595403	NOTEST	0	0
Mir128-1	chr1:128103305-128237735	NOTEST	0	0
Mir128-2	chr9:112065090-112348925	NOTEST	0	0
Mir129-1	chr6:29022618-29022691	NOTEST	0	0
Mir129-2	chr2:94241363-94241453	NOTEST	0	0
Mir1291	chr15:98517657-98534269	NOTEST	0	0

Mir1298	chrX:146962512-147197277	NOTEST	0	0
Mir129b	chr2:94241363-94241453	NOTEST	0	0
Mir1306	chr16:18248882-18289168	LOWDAT	0	0
Mir130a	chr2:84741114-84741178	NOTEST	0	0
Mir130b	chr16:17113397-17125106	NOTEST	0	0
Mir130c	chr9:53384022-53401867	NOTEST	0	0
Mir132	chr11:75173681-75173747	NOTEST	0	0
Mir133a-1	chr18:10725624-10812217	NOTEST	0	0
Mir133a-2	chr2:180370857-180401802	NOTEST	0	0
Mir133b	chr1:20682768-20682887	NOTEST	0	0
Mir133c	chr2:29346809-29524790	NOTEST	0	0
Mir134	chr12:109734138-109734209	NOTEST	0	0
Mir135a-1	chr9:106152859-106158138	NOTEST	0	0
Mir135a-2	chr10:92072085-92072185	NOTEST	0	0
Mir135b	chr1:132191435-132257382	NOTEST	0	0
Mir136	chr12:109590168-109595403	NOTEST	0	0
Mir137	chr3:118433856-118433929	NOTEST	0	0
Mir138-1	chr9:122682875-122682974	NOTEST	0	0
Mir138-2	chr8:94324310-94324381	NOTEST	0	0
Mir139	chr7:101421690-101512829	NOTEST	0	0
Mir140	chr8:107436397-107558595	NOTEST	0	0
Mir141	chr6:124717913-124717985	NOTEST	0	0
Mir142	chr11:87756840-87756955	NOTEST	0	0
Mir142b	chr11:87756840-87756955	NOTEST	0	0
Mir143	chr18:61639652-61665538	NOTEST	0	0
Mir144	chr11:78073004-78073070	NOTEST	0	0
Mir145	chr18:61639652-61665538	NOTEST	0	0
Mir145b	chr18:69022198-69022273	NOTEST	0	0
Mir146	chr11:43374396-43374461	NOTEST	0	0
Mir146b	chr19:46342761-46342870	NOTEST	0	0
Mir147	chr2:122637886-122641076	LOWDAT	0	0
Mir148a	chr6:51269811-51269910	NOTEST	0	0
Mir148b	chr15:103272917-103299864	NOTEST	0	0
Mir149	chr1:92831685-92860196	NOTEST	0	0
Mir150	chr7:45121756-45121821	NOTEST	0	0
Mir152	chr11:96849875-96861202	NOTEST	0	0
Mir153	chr12:116485719-117337012	NOTEST	0	0
Mir154	chr12:109734980-109749457	NOTEST	0	0
Mir155	chr16:84714139-84714204	NOTEST	0	0
Mir15a	chr14:61598225-61682373	NOTEST	0	0
Mir15b	chr3:69004971-69034623	NOTEST	0	0
Mir16-1	chr14:61598225-61682373	NOTEST	0	0
Mir16-2	chr3:69004971-69034623	NOTEST	0	0
Mir1668	chr8:83715176-83741311	NOTEST	0	0
Mir17	chr14:115043670-115043754	NOTEST	0	0
Mir18	chr14:115043850-115043946	NOTEST	0	0
Mir181a-1	chr1:137966454-137966541	NOTEST	0	0
Mir181a-2	chr2:38723373-38926461	NOTEST	0	0
Mir181b-1	chr1:137966638-137966718	NOTEST	0	0
Mir181b-2	chr2:38723373-38926461	NOTEST	0	0
Mir181c	chr8:84178872-84178961	NOTEST	0	0
Mir181d	chr8:84178715-84178787	NOTEST	0	0
Mir182	chr6:30165917-30165992	NOTEST	0	0

Mir183	chr6:30169667-30169737	NOTEST	0	0
Mir1839	chr7:81523549-81531498	NOTEST	0	0
Mir184	chr9:89802259-89802328	NOTEST	0	0
Mir1843	chr12:80335846-80436601	NOTEST	0	0
Mir1843b	chr1:159232325-159347580	LOWDAT	0	0
Mir185	chr16:18300824-18343932	NOTEST	0	0
Mir186	chr3:157534396-157548339	NOTEST	0	0
Mir187	chr18:24429109-24429170	NOTEST	0	0
Mir188	chrX:7158411-7319358	NOTEST	0	0
Mir1892	chr12:54645373-54656572	LOWDAT	0	0
Mir1893	chr18:6435950-6516108	LOWDAT	0	0
Mir1894	chr17:35917195-35932283	NOTEST	0	0
Mir1895	chr3:134236494-134262089	NOTEST	0	0
Mir1896	chr13:21442174-21453727	NOTEST	0	0
Mir1897	chr3:34560380-34677993	LOWDAT	0	0
Mir1898	chr15:12117850-12185449	NOTEST	0	0
Mir1899	chr9:8246785-8246881	NOTEST	0	0
Mir18b	chrX:52742330-52742413	NOTEST	0	0
Mir190	chr9:67217084-67559703	NOTEST	0	0
Mir1900	chr9:21032037-21039036	NOTEST	0	0
Mir1901	chr18:11821087-11945627	NOTEST	0	0
Mir1902	chr2:104426481-104494489	LOWDAT	0	0
Mir1903	chr8:128359072-128505475	LOWDAT	0	0
Mir1904	chr13:108654176-109955969	NOTEST	0	0
Mir1905	chr3:88532394-88541394	NOTEST	0	0
Mir1906-1	chrX:88759473-88759553	LOWDAT	0	0
Mir1907	chr15:50654758-50890041	NOTEST	0	0
Mir190b	chr3:90070019-90070099	NOTEST	0	0
Mir191	chr9:108568318-108568392	NOTEST	0	0
Mir1912	chrX:146962512-147197277	NOTEST	0	0
Mir192	chr19:6264843-6264932	NOTEST	0	0
Mir1928	chr5:65763520-65826784	NOTEST	0	0
Mir1929	chr10:44268357-44364291	NOTEST	0	0
Mir193	chr11:79711968-79712034	NOTEST	0	0
Mir1930	chr10:77622320-77645990	NOTEST	0	0
Mir1931	chr10:93160875-93241342	NOTEST	0	0
Mir1932	chr11:119390471-119390561	NOTEST	0	0
Mir1933	chr11:21239031-21371267	NOTEST	0	0
Mir1934	chr11:69663042-69663125	NOTEST	0	0
Mir1936	chr12:102568582-102704869	NOTEST	0	0
Mir1938	chr12:40203128-40223189	NOTEST	0	0
Mir193b	chr16:13449522-13449601	NOTEST	0	0
Mir194-1	chr1:185204167-185329401	NOTEST	0	0
Mir194-2	chr19:6264642-6264728	NOTEST	0	0
Mir1940	chr13:95325236-95337841	NOTEST	0	0
Mir1941	chr15:101349570-101370125	NOTEST	0	0
Mir1942	chr15:76170973-76231378	NOTEST	0	0
Mir1943	chr15:79360683-79403303	NOTEST	0	0
Mir1945	chr16:11254367-11254445	NOTEST	0	0
Mir1946a	chr16:32267449-32267583	NOTEST	0	0
Mir1946b	chr3:96080595-96161129	NOTEST	0	0
Mir1947	chr16:33062520-33125659	NOTEST	0	0
Mir1948	chr18:12643532-12737052	NOTEST	0	0

Mir1949	chr18:35553409-35558316	NOTEST	0	0
Mir195	chr11:70235041-70235135	NOTEST	0	0
Mir1950	chr6:40529090-40910666	NOTEST	0	0
Mir1951	chr2:115581715-115778768	NOTEST	0	0
Mir1952	chr2:138819928-138820007	NOTEST	0	0
Mir1953	chr2:151967528-151967617	NOTEST	0	0
Mir1954	chr2:113220186-113716767	NOTEST	0	0
Mir1955	chr2:92184181-92364666	NOTEST	0	0
Mir1956	chr3:138526190-138557599	NOTEST	0	0
Mir1957	chr8:24484966-24484986	NOTEST	0	0
Mir1957b	chr8:111448783-111522107	NOTEST	0	0
Mir1958	chr1:63980972-63984483	NOTEST	0	0
Mir195b	chr2:56785810-56785907	NOTEST	0	0
Mir1960	chr5:30155252-30184593	NOTEST	0	0
Mir1961	chr5:92683434-92965759	NOTEST	0	0
Mir1962	chr7:135537823-135686294	NOTEST	0	0
Mir1963	chr7:29003339-29125151	NOTEST	0	0
Mir1964	chr7:29768551-29781419	NOTEST	0	0
Mir1966	chr8:105605228-105622218	NOTEST	0	0
Mir1967	chr8:124022640-124022722	NOTEST	0	0
Mir1968	chr8:13176868-13200624	NOTEST	0	0
Mir1969	chr8:70925524-70925618	NOTEST	0	0
Mir196a-1	chr11:96265163-96265265	NOTEST	0	0
Mir196a-2	chr15:102973349-102973434	NOTEST	0	0
Mir196b	chr6:52230080-52230165	NOTEST	0	0
Mir1970	chr7:107284774-107591365	NOTEST	0	0
Mir1971	chr14:78191372-78191478	NOTEST	0	0
Mir1981	chr1:184813067-184845847	NOTEST	0	0
Mir1982	chr10:80826655-80829290	NOTEST	0	0
Mir1983	chr13:21896917-21897049	NOTEST	0	0
Mir199a-1	chr9:21424907-21510186	NOTEST	0	0
Mir199a-2	chr1:161987301-162478034	LOWDAT	0	0
Mir199b	chr2:32308470-32353304	NOTEST	0	0
Mir19a	chr14:115043999-115044081	NOTEST	0	0
Mir19b-1	chr14:115044304-115046728	NOTEST	0	0
Mir19b-2	chrX:52741982-52742066	NOTEST	0	0
Mir1a-1	chr2:180370857-180401802	NOTEST	0	0
Mir1a-2	chr18:10725624-10812217	NOTEST	0	0
Mir1b	chr18:10725624-10812217	NOTEST	0	0
Mir200a	chr4:156054895-156054985	NOTEST	0	0
Mir200b	chr4:156055680-156055750	NOTEST	0	0
Mir200c	chr6:124718321-124718390	NOTEST	0	0
Mir201	chrX:67988095-67988161	NOTEST	0	0
Mir202	chr7:139957688-139957760	NOTEST	0	0
Mir203	chr12:112130879-112130955	NOTEST	0	0
Mir204	chr19:22139116-22989884	NOTEST	0	0
Mir205	chr1:193507462-193507530	NOTEST	0	0
Mir206	chr1:20679009-20679082	NOTEST	0	0
Mir207	chr4:40720153-40757885	NOTEST	0	0
Mir208a	chr14:54941920-54966607	NOTEST	0	0
Mir208b	chr14:54968786-54994549	NOTEST	0	0
Mir20a	chr14:115044156-115044263	NOTEST	0	0
Mir20b	chrX:52742112-52742192	NOTEST	0	0

Mir21	chr11:86583864-87555823	LOWDAT	0	0
Mir210	chr7:141221383-141221493	NOTEST	0	0
Mir211	chr7:64153834-64269759	NOTEST	0	0
Mir212	chr11:75173387-75173478	NOTEST	0	0
Mir2136	chr9:104426112-104426187	NOTEST	0	0
Mir2137	chrX:72987338-73031543	NOTEST	0	0
Mir2139	chr4:139962172-139968026	LOWDAT	0	0
Mir214	chr1:161987301-162478034	LOWDAT	0	0
Mir215	chr1:185204167-185329401	NOTEST	0	0
Mir216a	chr11:28757011-28757083	NOTEST	0	0
Mir216b	chr11:28746190-28746276	NOTEST	0	0
Mir216c	chr11:28746190-28746276	NOTEST	0	0
Mir217	chr11:28763727-28763835	NOTEST	0	0
Mir218-1	chr5:47983154-48306282	NOTEST	0	0
Mir218-2	chr11:35121455-35708507	NOTEST	0	0
Mir219-1	chr17:34024982-34025092	NOTEST	0	0
Mir219-2	chr2:29845630-29845727	NOTEST	0	0
Mir219b	chr2:29845630-29845727	NOTEST	0	0
Mir219c	chr17:34024982-34025092	NOTEST	0	0
Mir21b	chr3:29082576-29691056	NOTEST	0	0
Mir21c	chr8:128278147-128278225	NOTEST	0	0
Mir22	chr11:75461538-75466690	LOWDAT	0	0
Mir221	chrX:19146293-19146388	NOTEST	0	0
Mir222	chrX:19146892-19146971	NOTEST	0	0
Mir223	chrX:96239925-96243642	LOWDAT	0	0
Mir23a	chr8:84208517-84208592	NOTEST	0	0
Mir23b	chr13:62964892-63431745	LOWDAT	0	0
Mir24-1	chr13:62964892-63431745	LOWDAT	0	0
Mir24-2	chr8:84208814-84208921	NOTEST	0	0
Mir25	chr5:138164588-138171862	NOTEST	0	0
Mir26a-1	chr9:118926535-119044119	NOTEST	0	0
Mir26a-2	chr10:126978716-126999975	NOTEST	0	0
Mir26b	chr1:74391608-74397285	NOTEST	0	0
Mir27a	chr8:84208671-84208758	NOTEST	0	0
Mir27b	chr13:62964892-63431745	LOWDAT	0	0
Mir28	chr18:52123524-52123546	NOTEST	0	0
Mir2861	chr2:32712806-32712888	NOTEST	0	0
Mir28b	chr8:72814598-73352556	NOTEST	0	0
Mir28c	chr8:96545953-96545973	NOTEST	0	0
Mir290	chr7:3218625-3218708	NOTEST	0	0
Mir290b	chr7:3218625-3218708	NOTEST	0	0
Mir291a	chr7:3218783-3221015	LOWDAT	0	0
Mir291b	chr7:3218783-3221015	LOWDAT	0	0
Mir292	chr7:3218783-3221015	LOWDAT	0	0
Mir292b	chr7:3218783-3221015	NOTEST	0	0
Mir293	chr7:3218783-3221015	LOWDAT	0	0
Mir294	chr7:3218783-3221015	LOWDAT	0	0
Mir295	chr7:3218783-3221015	LOWDAT	0	0
Mir296	chr2:174267046-174267125	NOTEST	0	0
Mir297-1	chr14:34645143-34653574	NOTEST	0	0
Mir297-2	chr8:104446718-104624396	NOTEST	0	0
Mir297a-3,Mir297a	chr2:10370450-10595253	NOTEST	0	0
Mir297a-4	chr2:10370450-10595253	NOTEST	0	0

Mir297b	chr2:10370450-10595253	NOTEST	0	0
Mir297c	chr1:185537335-185988795	NOTEST	0	0
Mir298	chr2:174267503-174267585	NOTEST	0	0
Mir299	chr12:109710637-109710700	NOTEST	0	0
Mir299b	chr12:109710637-109710700	NOTEST	0	0
Mir29a	chr6:31062659-31062747	NOTEST	0	0
Mir29b-1	chr6:31063022-31063093	NOTEST	0	0
Mir29b-2	chr1:195017398-195037908	LOWDAT	0	0
Mir29c	chr1:195017398-195037908	LOWDAT	0	0
Mir300	chr12:109724312-109724391	NOTEST	0	0
Mir301	chr11:86583864-87555823	NOTEST	0	0
Mir301b	chr16:17113397-17125106	NOTEST	0	0
Mir302a	chr3:127536713-127553349	NOTEST	0	0
Mir302b	chr3:127536713-127553349	NOTEST	0	0
Mir302c	chr3:127536713-127553349	NOTEST	0	0
Mir302d	chr3:127536713-127553349	NOTEST	0	0
Mir3057	chr10:81268171-81291581	NOTEST	0	0
Mir3058	chr10:95547006-95564167	NOTEST	0	0
Mir3059	chr10:101681486-102391468	NOTEST	0	0
Mir3060	chr11:4135159-4160293	NOTEST	0	0
Mir3061	chr11:52126745-52126836	NOTEST	0	0
Mir3062	chr11:68985700-69008460	NOTEST	0	0
Mir3063	chr11:95957163-96005944	LOWDAT	0	0
Mir3064	chr11:106780355-106788494	NOTEST	0	0
Mir3065	chr11:120007315-120047145	NOTEST	0	0
Mir3066	chr12:17348492-17430095	NOTEST	0	0
Mir3067	chr12:81026807-81186414	NOTEST	0	0
Mir3068	chr12:87428077-87472299	NOTEST	0	0
Mir3069	chr12:105030616-105032279	LOWDAT	0	0
Mir3070a	chr12:109587942-109588031	NOTEST	0	0
Mir3070b	chr12:109588591-109588680	NOTEST	0	0
Mir3071	chr12:109590168-109595403	LOWDAT	0	0
Mir3072	chr12:109734980-109749457	NOTEST	0	0
Mir3073	chr12:112106682-112127573	NOTEST	0	0
Mir3073b	chr12:112106682-112127573	NOTEST	0	0
Mir3074-1	chr13:62964892-63431745	NOTEST	0	0
Mir3074-2	chr8:84208814-84208921	NOTEST	0	0
Mir3075	chr14:25459184-25666747	NOTEST	0	0
Mir3076	chr14:30549130-30574726	NOTEST	0	0
Mir3077	chr14:57798188-57804980	NOTEST	0	0
Mir3078	chr14:64588114-64593961	LOWDAT	0	0
Mir3079	chr11:5191552-5261610	NOTEST	0	0
Mir3081	chr16:44485044-44558870	NOTEST	0	0
Mir3082	chr17:25829042-25833361	NOTEST	0	0
Mir3083	chr17:26941451-26970645	NOTEST	0	0
Mir3084	chr19:60761115-60790693	NOTEST	0	0
Mir3084-2	chr19:24919915-24961616	NOTEST	0	0
Mir3085	chr19:42280081-42280170	NOTEST	0	0
Mir3086	chr19:58911672-58911759	NOTEST	0	0
Mir3087	chr2:25428673-25448539	NOTEST	0	0
Mir3088	chr2:28700160-28813165	NOTEST	0	0
Mir3089	chr2:30721209-30721293	NOTEST	0	0
Mir3091	chr2:180257378-180258444	NOTEST	0	0

Mir3092	chr3:27416161-27710439	NOTEST	0	0
Mir3093	chr3:88215170-88215257	NOTEST	0	0
Mir3094	chr4:40970905-41025992	NOTEST	0	0
Mir3095	chr4:58435251-58553491	NOTEST	0	0
Mir3097	chr5:34949447-35033593	NOTEST	0	0
Mir3098	chr2:131127411-131604824	NOTEST	0	0
Mir3099	chr7:6730582-6976662	NOTEST	0	0
Mir30a	chr1:23272268-23272339	NOTEST	0	0
Mir30b	chr15:68337414-68337510	NOTEST	0	0
Mir30c-1	chr4:120757434-120831579	NOTEST	0	0
Mir30c-2	chr1:23291700-23291784	NOTEST	0	0
Mir30d	chr15:68341207-68341289	NOTEST	0	0
Mir30f	chr4:120757434-120831579	NOTEST	0	0
Mir31	chr4:88910556-88910662	NOTEST	0	0
Mir3100	chr7:19083848-19093820	NOTEST	0	0
Mir3101	chr7:27168432-27178883	NOTEST	0	0
Mir3102	chr7:100869745-100932161	NOTEST	0	0
Mir3103	chr7:128265696-128298131	NOTEST	0	0
Mir3104	chr7:141949750-142004243	NOTEST	0	0
Mir3106	chr8:15892544-17535385	NOTEST	0	0
Mir3107	chr8:22974835-23150497	NOTEST	0	0
Mir3108	chr8:108714643-108961636	NOTEST	0	0
Mir3109	chr9:69453682-69491785	NOTEST	0	0
Mir3110	chr8:126721780-126721800	NOTEST	0	0
Mir3112	chrX:134059175-134111854	LOWDAT	0	0
Mir32	chr4:56876012-56947429	NOTEST	0	0
Mir320	chr14:70443509-70443591	NOTEST	0	0
Mir322	chrX:53053111-53057190	LOWDAT	0	0
Mir323	chr12:109712507-109712593	NOTEST	0	0
Mir324	chr11:70010182-70015428	NOTEST	0	0
Mir325	chr13:107724616-107890064	NOTEST	0	0
Mir326	chr7:99535485-99606771	NOTEST	0	0
Mir328	chr8:105305600-105310623	NOTEST	0	0
Mir329	chr12:109713480-109713577	NOTEST	0	0
Mir33	chr15:82147268-82204960	NOTEST	0	0
Mir330	chr7:19181169-19206482	NOTEST	0	0
Mir331	chr10:93963767-93963863	NOTEST	0	0
Mir335	chr6:30733505-30896794	NOTEST	0	0
Mir337	chr12:109585788-109585885	NOTEST	0	0
Mir338	chr11:120007315-120047145	NOTEST	0	0
Mir339	chr5:139359738-139460534	NOTEST	0	0
Mir340	chr11:50025330-50125719	NOTEST	0	0
Mir341	chr12:109603944-109661711	NOTEST	0	0
Mir343	chr7:19382038-19404104	NOTEST	0	0
Mir344	chr7:61705849-61927574	NOTEST	0	0
Mir344-2	chr7:61940026-61940106	NOTEST	0	0
Mir344b	chr7:61705849-61927574	NOTEST	0	0
Mir344c	chr7:61705849-61927574	NOTEST	0	0
Mir344d-1	chr7:61683123-61683192	NOTEST	0	0
Mir344d-2	chr7:61685271-61685351	NOTEST	0	0
Mir344d-3	chr7:61705849-61927574	NOTEST	0	0
Mir344e	chr7:61705849-61927574	NOTEST	0	0
Mir344f	chr7:62046180-62046248	NOTEST	0	0

Mir344g	chr7:61943900-61982359	NOTEST	0	0
Mir344h-1	chr7:61705849-61927574	NOTEST	0	0
Mir344i	chr7:62085222-62085310	NOTEST	0	0
Mir345	chr12:108836972-108837068	NOTEST	0	0
Mir346	chr14:34820135-35581115	NOTEST	0	0
Mir3470a	chr11:3202352-3479831	NOTEST	0	0
Mir3470b	chr7:143948404-144470935	NOTEST	0	0
Mir3471-1	chr5:23787743-24161231	NOTEST	0	0
Mir3473	chr15:100038663-100219473	NOTEST	0	0
Mir3473c	chr1:191997202-192092599	NOTEST	0	0
Mir3473d	chr8:111003185-111031751	NOTEST	0	0
Mir3473f	chr3:103193822-103854618	NOTEST	0	0
Mir3473g	chr2:126890394-126933235	NOTEST	0	0
Mir3474	chr2:158624912-158639211	NOTEST	0	0
Mir3475	chrX:140310947-140311012	NOTEST	0	0
Mir34a	chr4:150068453-150068555	NOTEST	0	0
Mir34b	chr9:51103561-51103645	NOTEST	0	0
Mir34c	chr9:51103033-51103110	NOTEST	0	0
Mir350	chr1:176733652-176807124	NOTEST	0	0
Mir351	chrX:53053111-53057190	LOWDAT	0	0
Mir3535	chr1:86344718-86359455	NOTEST	0	0
Mir3544	chr12:109585788-109585885	NOTEST	0	0
Mir3547	chr17:25240169-25256364	NOTEST	0	0
Mir3569	chr7:30589379-30589437	NOTEST	0	0
Mir3572	chr7:3645268-3677553	NOTEST	0	0
Mir362	chrX:7158411-7319358	NOTEST	0	0
Mir3620	chrX:150547384-150570622	NOTEST	0	0
Mir363	chrX:52741692-52741767	NOTEST	0	0
Mir365-1	chr16:13453839-13453926	NOTEST	0	0
Mir365-2	chr11:79726399-79726511	NOTEST	0	0
Mir367	chr3:127536713-127553349	NOTEST	0	0
Mir369	chr12:109734980-109749457	NOTEST	0	0
Mir370	chr12:109603944-109661711	NOTEST	0	0
Mir374	chrX:103560909-103623754	NOTEST	0	0
Mir374c	chrX:103560909-103623754	NOTEST	0	0
Mir375	chr1:74900657-74900721	NOTEST	0	0
Mir376a	chr12:109723780-109723848	NOTEST	0	0
Mir376b	chr12:109723457-109723539	NOTEST	0	0
Mir376c	chr12:109722717-109722802	NOTEST	0	0
Mir377	chr12:109734980-109749457	NOTEST	0	0
Mir378	chr9:71844251-72111819	NOTEST	0	0
Mir378b	chr11:88339381-88718267	NOTEST	0	0
Mir378c	chr3:97309255-97411316	NOTEST	0	0
Mir379	chr12:109709059-109709125	NOTEST	0	0
Mir380	chr12:109711802-109711863	NOTEST	0	0
Mir381	chr12:109726821-109726896	NOTEST	0	0
Mir382	chr12:109733770-109733846	NOTEST	0	0
Mir383	chr8:37522553-38661508	NOTEST	0	0
Mir384	chrX:105344281-105344369	NOTEST	0	0
Mir3960	chr2:32712899-32712972	NOTEST	0	0
Mir3962	chr7:144929930-144939925	LOWDAT	0	0
Mir3963	chr2:134786163-135475258	NOTEST	0	0
Mir3964	chr14:109460229-109490814	NOTEST	0	0

Mir3965	chr7:99641529-99641549	NOTEST	0	0
Mir3966	chr10:97423477-97423562	NOTEST	0	0
Mir3967	chr2:22622326-22693877	NOTEST	0	0
Mir3968	chr11:115440544-115448268	NOTEST	0	0
Mir3969	chr5:87595901-87595993	NOTEST	0	0
Mir3970	chr13:27010322-27010345	NOTEST	0	0
Mir3971	chr11:75531693-75577572	NOTEST	0	0
Mir409	chr12:109734980-109749457	NOTEST	0	0
Mir410	chr12:109734980-109749457	LOWDAT	0	0
Mir411	chr12:109710174-109710256	NOTEST	0	0
Mir412	chr12:109734980-109749457	NOTEST	0	0
Mir421	chrX:77164402-77475936	NOTEST	0	0
Mir423	chr11:77044291-77078437	NOTEST	0	0
Mir425	chr9:108568776-108568861	NOTEST	0	0
Mir429	chr4:156053904-156053987	NOTEST	0	0
Mir431	chr12:109590168-109595403	NOTEST	0	0
Mir432	chr12:109590168-109595403	NOTEST	0	0
Mir433	chr12:109590168-109595403	LOWDAT	0	0
Mir434	chr12:109590168-109595403	NOTEST	0	0
Mir448	chrX:146962512-147197277	NOTEST	0	0
Mir449a	chr13:113035378-113091135	NOTEST	0	0
Mir449b	chr13:113035378-113091135	NOTEST	0	0
Mir449c	chr13:113035378-113091135	NOTEST	0	0
Mir450-1	chrX:53048153-53048244	NOTEST	0	0
Mir450-2	chrX:53048298-53048367	NOTEST	0	0
Mir450b	chrX:53047996-53048078	NOTEST	0	0
Mir451	chr11:78073169-78073241	NOTEST	0	0
Mir452	chrX:72257431-72274721	NOTEST	0	0
Mir453	chr12:109734980-109749457	NOTEST	0	0
Mir455	chr4:63215411-63334990	NOTEST	0	0
Mir463	chrX:66799222-66799297	NOTEST	0	0
Mir465	chrX:66839051-66839125	NOTEST	0	0
Mir465b-1	chrX:66835763-66835842	NOTEST	0	0
Mir465c-1	chrX:66832516-66832597	NOTEST	0	0
Mir465d	chrX:66822655-66822713	NOTEST	0	0
Mir466	chr14:112021429-112058438	NOTEST	0	0
Mir4660	chr12:70244534-70669399	NOTEST	0	0
Mir466b-2,Mir466b	chr2:3513064-3526376	LOWDAT	0	0
Mir466b-3	chr2:3513064-3526376	NOTEST	0	0
Mir466d	chr2:5293456-5714762	NOTEST	0	0
Mir466f-1	chr19:12071789-12413554	NOTEST	0	0
Mir466f-2	chr7:28451984-28482345	NOTEST	0	0
Mir466f-3	chr14:75004109-75388146	NOTEST	0	0
Mir466g	chr8:108470104-108667190	NOTEST	0	0
Mir466h	chr4:81476308-81487013	NOTEST	0	0
Mir466i	chr13:17715961-17805097	NOTEST	0	0
Mir466n	chr11:114344525-114757886	NOTEST	0	0
Mir466p	chr18:64887755-65751537	NOTEST	0	0
Mir467a-1	chr2:10370450-10595253	LOWDAT	0	0
Mir467a-10	chr12:37880704-38633410	NOTEST	0	0
Mir467a-2	chr2:10370450-10595253	NOTEST	0	0
Mir467a-3	chrX:164090186-164118859	NOTEST	0	0
Mir467a-5	chr2:10370450-10595253	NOTEST	0	0

Mir467a-7	chr2:10370450-10595253	NOTEST	0	0
Mir467a-9	chr2:10370450-10595253	NOTEST	0	0
Mir467b	chr2:10370450-10595253	NOTEST	0	0
Mir467c	chr11:86415843-86544807	NOTEST	0	0
Mir467d	chr2:10370450-10595253	NOTEST	0	0
Mir467e	chr1:10324718-10865874	NOTEST	0	0
Mir467f	chr18:52767810-52915931	NOTEST	0	0
Mir468	chr6:81896598-81896676	NOTEST	0	0
Mir470	chrX:66813950-66814025	NOTEST	0	0
Mir471	chrX:66792594-66792661	NOTEST	0	0
Mir483	chr7:142650767-142670356	NOTEST	0	0
Mir484	chr16:14159625-14159692	NOTEST	0	0
Mir485	chr12:109734901-109734974	NOTEST	0	0
Mir486	chr8:22974835-23150497	NOTEST	0	0
Mir487b	chr12:109727332-109727414	NOTEST	0	0
Mir488	chr1:158362303-158691786	NOTEST	0	0
Mir489	chr6:3685719-3764713	NOTEST	0	0
Mir490	chr6:36333137-36524774	NOTEST	0	0
Mir491	chr4:88094629-88411011	NOTEST	0	0
Mir493	chr12:109580232-109580315	NOTEST	0	0
Mir494	chr12:109715317-109715402	NOTEST	0	0
Mir495	chr12:109718753-109718816	NOTEST	0	0
Mir496	chr12:109734980-109749457	NOTEST	0	0
Mir496b	chr19:16132830-16387453	NOTEST	0	0
Mir497	chr11:70234691-70234816	NOTEST	0	0
Mir497b	chr11:70234691-70234816	NOTEST	0	0
Mir499	chr2:155611242-155692384	NOTEST	0	0
Mir500	chrX:7158411-7319358	NOTEST	0	0
Mir501	chrX:7158411-7319358	NOTEST	0	0
Mir503	chrX:53053111-53057190	LOWDAT	0	0
Mir504	chrX:59062145-59585572	NOTEST	0	0
Mir5046	chr19:6829083-6840627	LOWDAT	0	0
Mir505	chrX:60223289-60403981	NOTEST	0	0
Mir509	chrX:68010104-68010179	NOTEST	0	0
Mir5098	chr5:77265493-77283697	NOTEST	0	0
Mir5100	chr11:60728397-60732951	NOTEST	0	0
Mir5101	chr12:75818317-76110928	NOTEST	0	0
Mir5103	chr1:34433120-34433199	NOTEST	0	0
Mir5104	chr10:7832469-7870397	NOTEST	0	0
Mir5106	chr4:44221194-44221267	NOTEST	0	0
Mir5107	chr18:60803848-60812652	NOTEST	0	0
Mir5108	chr10:61715262-61783864	NOTEST	0	0
Mir511	chr2:14229413-14332023	NOTEST	0	0
Mir5112	chr18:82720280-82720340	NOTEST	0	0
Mir5113	chr15:80711312-80941086	LOWDAT	0	0
Mir5114	chr19:44293675-44306862	LOWDAT	0	0
Mir5116	chrX:56585511-56597919	LOWDAT	0	0
Mir5119	chr11:98262605-98262662	NOTEST	0	0
Mir5120	chr9:107399879-107529343	NOTEST	0	0
Mir5121	chr7:45125562-45128745	NOTEST	0	0
Mir5122	chr4:133369771-133423698	LOWDAT	0	0
Mir5123	chr4:40804581-40854537	NOTEST	0	0
Mir5124	chr3:93428490-93428511	NOTEST	0	0

Mir5125	chr12:48219729-48301462	NOTEST	0	0
Mir5126	chr1:84369838-84696221	NOTEST	0	0
Mir5127	chr18:81992009-81992080	NOTEST	0	0
Mir5128	chr9:113930933-114026751	NOTEST	0	0
Mir5129	chr2:44983511-45114084	NOTEST	0	0
Mir5130	chr14:102976580-102982637	LOWDAT	0	0
Mir5131	chr14:45593170-45658143	LOWDAT	0	0
Mir5132	chrX:74013913-74023936	NOTEST	0	0
Mir5133	chr9:62122517-62122594	NOTEST	0	0
Mir5134	chr17:24223231-24251409	NOTEST	0	0
Mir5135	chr12:76533133-76533212	NOTEST	0	0
Mir5136	chr19:8883877-8890759	NOTEST	0	0
Mir532	chrX:7158411-7319358	NOTEST	0	0
Mir539	chr12:109728128-109728202	NOTEST	0	0
Mir540	chr12:109586079-109586146	NOTEST	0	0
Mir541	chr12:109734980-109749457	NOTEST	0	0
Mir542	chrX:53049402-53049487	NOTEST	0	0
Mir543	chr12:109717257-109717333	NOTEST	0	0
Mir544	chr8:110142537-110168206	NOTEST	0	0
Mir547	chrX:67988373-67988451	NOTEST	0	0
Mir551b	chr3:29082576-29691056	NOTEST	0	0
Mir5615-1	chr10:81104613-81104675	NOTEST	0	0
Mir5615-2	chr10:81104613-81104675	NOTEST	0	0
Mir5616	chr4:149518240-149566437	NOTEST	0	0
Mir5617	chrX:20848542-20920918	NOTEST	0	0
Mir5618	chr9:7764076-7794332	NOTEST	0	0
Mir5619	chr5:104047010-104065367	NOTEST	0	0
Mir5620	chr7:7282315-7299511	NOTEST	0	0
Mir5621	chr11:115765432-115799033	NOTEST	0	0
Mir5622	chr2:152847963-152895321	NOTEST	0	0
Mir5623	chr19:57611033-58133340	NOTEST	0	0
Mir5624	chr13:93771678-93943016	NOTEST	0	0
Mir5625	chr5:30647935-30659729	NOTEST	0	0
Mir5626	chr9:70405693-70405753	NOTEST	0	0
Mir5627	chr12:44210312-44210373	NOTEST	0	0
Mir568	chr16:43640654-43640737	NOTEST	0	0
Mir5709	chr17:66666847-67354459	NOTEST	0	0
Mir5710	chr9:54699558-54716317	NOTEST	0	0
Mir574	chr5:64970074-65041901	NOTEST	0	0
Mir582	chr13:108654176-109955969	NOTEST	0	0
Mir592	chr6:27275120-28134369	NOTEST	0	0
Mir598	chr14:63606529-63820410	NOTEST	0	0
Mir599	chr15:35371545-35931229	NOTEST	0	0
Mir615	chr15:103014007-103017429	NOTEST	0	0
Mir6236	chr9:110281286-110281409	NOTEST	0	0
Mir6237	chr9:9660890-10904775	NOTEST	0	0
Mir6238	chr7:53891760-53891889	NOTEST	0	0
Mir6239	chr14:116925296-117979529	NOTEST	0	0
Mir6241	chr14:118258633-118258736	NOTEST	0	0
Mir6244	chr9:52111984-52168111	NOTEST	0	0
Mir6335	chr2:67781042-67781140	NOTEST	0	0
Mir6336	chr2:40596772-42653598	NOTEST	0	0
Mir6337	chr2:65364295-65364400	NOTEST	0	0

Mir6338	chr11:72388755-72388864	NOTEST	0	0
Mir6339	chr2:130012339-130050399	NOTEST	0	0
Mir6340	chr2:173659844-173702182	NOTEST	0	0
Mir6341	chr1:12425985-12426106	NOTEST	0	0
Mir6342	chr1:29421487-29421612	NOTEST	0	0
Mir6343	chr1:76509559-76509643	NOTEST	0	0
Mir6344	chr1:82131915-82132019	NOTEST	0	0
Mir6345	chr1:93343644-93367618	NOTEST	0	0
Mir6348	chr1:168490642-168490762	NOTEST	0	0
Mir6349	chr1:39186895-39186992	NOTEST	0	0
Mir6350	chr1:47467020-47467125	NOTEST	0	0
Mir6352	chr1:77367184-77515088	NOTEST	0	0
Mir6353	chr1:84036292-84284645	NOTEST	0	0
Mir6354	chr11:62951192-63386069	NOTEST	0	0
Mir6355	chr18:59579629-59579735	NOTEST	0	0
Mir6356	chr18:68739399-68739501	NOTEST	0	0
Mir6357	chr18:70508679-70530321	NOTEST	0	0
Mir6358	chr18:76170551-76170652	NOTEST	0	0
Mir6359	chr18:88971789-89131014	NOTEST	0	0
Mir6360	chr18:23752332-23893861	NOTEST	0	0
Mir6361	chr18:32880572-32880673	NOTEST	0	0
Mir6362	chr5:29789010-29970488	NOTEST	0	0
Mir6363	chr16:50726750-50732773	NOTEST	0	0
Mir6364	chr2:166566344-166722152	NOTEST	0	0
Mir6365	chr16:13471079-13471180	NOTEST	0	0
Mir6366	chr16:18165088-18165170	NOTEST	0	0
Mir6367	chr19:8989283-9076926	LOWDAT	0	0
Mir6368	chr13:28460033-28885422	NOTEST	0	0
Mir6369	chr5:30933142-31348845	NOTEST	0	0
Mir6370	chr6:19555341-19555461	NOTEST	0	0
Mir6372	chr11:25616845-26210576	NOTEST	0	0
Mir6373	chr6:102794383-102794485	NOTEST	0	0
Mir6374	chr6:83362373-83441678	NOTEST	0	0
Mir6375	chr6:85790139-85790234	NOTEST	0	0
Mir6376	chr6:88084472-88105304	NOTEST	0	0
Mir6378	chr3:34922544-34922651	NOTEST	0	0
Mir6380	chr11:47739591-48074583	NOTEST	0	0
Mir6381	chr3:142620662-142638008	NOTEST	0	0
Mir6382	chrX:106309825-106309935	NOTEST	0	0
Mir6383	chrX:136183244-136183360	NOTEST	0	0
Mir6384	chrX:52272426-52619047	NOTEST	0	0
Mir6385	chr9:58217179-58249786	NOTEST	0	0
Mir6386	chr9:92250193-92272561	NOTEST	0	0
Mir6387	chr12:15791726-15816785	NOTEST	0	0
Mir6388	chr12:115695719-115695794	NOTEST	0	0
Mir6389	chr7:57581060-57581162	NOTEST	0	0
Mir6390	chr14:105623641-105623770	NOTEST	0	0
Mir6391	chr14:118482691-118706219	NOTEST	0	0
Mir6392	chr15:84167815-84189521	NOTEST	0	0
Mir6393	chr15:87795849-87795943	NOTEST	0	0
Mir6394	chr7:96210636-96908554	NOTEST	0	0
Mir6395	chr8:34154562-34170847	NOTEST	0	0
Mir6396	chr8:122619470-122622735	NOTEST	0	0

Mir6397	chr4:108043829-108118547	NOTEST	0	0
Mir6398	chr4:123349632-123684360	NOTEST	0	0
Mir6399	chr4:137993455-138207079	NOTEST	0	0
Mir6400	chr4:15917239-15945507	NOTEST	0	0
Mir6401	chr7:139779017-139779126	NOTEST	0	0
Mir6402	chr4:91250766-91399984	NOTEST	0	0
Mir6403	chr4:134561689-134704290	NOTEST	0	0
Mir6404	chr7:143933114-143933208	NOTEST	0	0
Mir6405	chr19:44757393-44837869	NOTEST	0	0
Mir6406	chr11:68209363-68386826	NOTEST	0	0
Mir6407	chr19:52991179-53038654	NOTEST	0	0
Mir6408	chr10:60923022-60923113	NOTEST	0	0
Mir6409	chr10:75954513-76009589	LOWDAT	0	0
Mir6410	chr10:78434798-78434902	NOTEST	0	0
Mir6411	chr10:104287268-104287376	NOTEST	0	0
Mir6412	chr17:30215523-30576287	NOTEST	0	0
Mir6413	chr10:20297580-20297688	NOTEST	0	0
Mir6414	chr5:41891341-41891423	NOTEST	0	0
Mir6415	chr5:92443872-92505608	NOTEST	0	0
Mir6416	chr7:64153834-64269759	NOTEST	0	0
Mir6417	chr5:52135901-52136017	NOTEST	0	0
Mir6418	chr5:137528128-137533229	NOTEST	0	0
Mir6419	chr2:17346733-17731068	NOTEST	0	0
Mir6420	chr17:64440805-64440907	NOTEST	0	0
Mir6481	chr3:99141089-99220203	NOTEST	0	0
Mir6516	chr11:117076782-117078955	NOTEST	0	0
Mir653	chr6:3685719-3764713	NOTEST	0	0
Mir6537	chr7:25091114-25132460	NOTEST	0	0
Mir6538	chr12:26306793-26415262	NOTEST	0	0
Mir6539	chr14:67751927-67933572	NOTEST	0	0
Mir654	chr12:109723217-109723301	NOTEST	0	0
Mir6540	chr16:42248560-42340651	NOTEST	0	0
Mir6541	chr14:62837689-62956886	NOTEST	0	0
Mir6546	chr1:171064590-171064652	NOTEST	0	0
Mir664	chr1:185204167-185329401	NOTEST	0	0
Mir665	chr12:109586313-109586407	NOTEST	0	0
Mir666	chr12:109717084-109717183	NOTEST	0	0
Mir667	chr12:109720005-109720097	NOTEST	0	0
Mir668	chr12:109734731-109734797	NOTEST	0	0
Mir669a-1	chr17:50733126-51613053	NOTEST	0	0
Mir669a-2	chr2:10370450-10595253	NOTEST	0	0
Mir669a-3	chr2:10370450-10595253	NOTEST	0	0
Mir669a-4,Mir669p	chr17:50733126-51613053	LOWDAT	0	0
Mir669b	chr3:114863252-115125764	NOTEST	0	0
Mir669c	chr12:90998491-91384409	NOTEST	0	0
Mir669e	chr8:39467447-40227787	NOTEST	0	0
Mir669g	chr2:10370450-10595253	NOTEST	0	0
Mir669h	chr10:113586577-113614774	NOTEST	0	0
Mir669i	chr2:10370450-10595253	NOTEST	0	0
Mir669j	chr2:10370450-10595253	NOTEST	0	0
Mir669k	chr2:10370450-10595253	NOTEST	0	0
Mir669m-1	chr5:78929669-79515904	NOTEST	0	0
Mir669m-2	chrX:77164402-77475936	NOTEST	0	0

Mir669p-1	chr17:50733126-51613053	NOTEST	0	0
Mir670	chr2:94261299-94261399	NOTEST	0	0
Mir671	chr5:24586749-24592486	LOWDAT	0	0
Mir6715	chr19:55180884-55196313	NOTEST	0	0
Mir672	chrX:104077434-104201117	NOTEST	0	0
Mir673	chr12:109571989-109572080	NOTEST	0	0
Mir674	chr2:117185126-117185226	NOTEST	0	0
Mir675	chr7:142575531-142578146	LOWDAT	0	0
Mir676	chrX:99975605-100400760	NOTEST	0	0
Mir6769b	chr8:71626711-71671757	NOTEST	0	0
Mir677	chr10:128083306-128090388	NOTEST	0	0
Mir678	chr10:76207221-76237865	LOWDAT	0	0
Mir679	chr12:109715576-109715650	NOTEST	0	0
Mir680-2	chr9:22055459-22389206	NOTEST	0	0
Mir680-3	chr10:25867369-25894505	NOTEST	0	0
Mir681	chr12:69746847-69987002	NOTEST	0	0
Mir682	chr13:75645045-75645141	NOTEST	0	0
Mir683-1	chr13:50544625-50544734	NOTEST	0	0
Mir683-2	chr13:50600971-50601080	NOTEST	0	0
Mir684-1	chrX:7753088-7753173	NOTEST	0	0
Mir684-2	chr4:11134096-11134182	NOTEST	0	0
Mir687	chr14:73195501-73325791	NOTEST	0	0
Mir688	chr15:102671791-102671866	NOTEST	0	0
Mir6896	chr1:33908224-34308662	NOTEST	0	0
Mir6897	chr1:36140027-36244302	NOTEST	0	0
Mir6898	chr1:36335729-36369181	NOTEST	0	0
Mir6899	chr1:64035670-64121389	NOTEST	0	0
Mir690	chr16:28158583-28753243	NOTEST	0	0
Mir6900	chr1:92439718-92473758	NOTEST	0	0
Mir6901	chr1:93235896-93296448	NOTEST	0	0
Mir6902	chr1:93343644-93367618	NOTEST	0	0
Mir6903	chr1:133702673-133753747	NOTEST	0	0
Mir6904	chr1:180568974-180601254	NOTEST	0	0
Mir6905	chr10:24869985-24913529	NOTEST	0	0
Mir6906	chr10:60106256-60133913	NOTEST	0	0
Mir6907	chr10:78400361-78413043	NOTEST	0	0
Mir6908	chr10:78436746-78464948	NOTEST	0	0
Mir6909	chr10:79526428-79533787	NOTEST	0	0
Mir691	chr16:73892305-74410912	NOTEST	0	0
Mir6910	chr10:79697304-80369637	NOTEST	0	0
Mir6911	chr10:79697304-80369637	NOTEST	0	0
Mir6912	chr10:80602879-80615783	NOTEST	0	0
Mir6913	chr10:81384427-81388352	NOTEST	0	0
Mir6914	chr10:128377123-128394006	NOTEST	0	0
Mir6915	chr10:128377123-128394006	NOTEST	0	0
Mir6916	chr10:128510249-128525859	NOTEST	0	0
Mir6917	chr10:128569367-128589501	NOTEST	0	0
Mir6918	chr11:4874002-4894200	NOTEST	0	0
Mir6919	chr11:50225334-50235103	NOTEST	0	0
Mir692-1	chr17:6895228-6895337	NOTEST	0	0
Mir692-2b	chr4:125490830-125714173	NOTEST	0	0
Mir6920	chr11:53350766-53421830	NOTEST	0	0
Mir6921	chr11:60105012-60220604	NOTEST	0	0

Mir6922	chr11:60105012-60220604	NOTEST	0	0
Mir6923	chr11:67078299-67102291	NOTEST	0	0
Mir6924	chr11:69881566-69895539	NOTEST	0	0
Mir6925	chr11:70700547-70731970	NOTEST	0	0
Mir6926	chr11:74849263-74897080	NOTEST	0	0
Mir6927	chr11:97663411-97685458	NOTEST	0	0
Mir6928	chr11:101009451-101063717	NOTEST	0	0
Mir6929	chr11:101418813-101435665	NOTEST	0	0
Mir693	chr17:46202854-46242299	NOTEST	0	0
Mir6930	chr11:102402975-102407517	NOTEST	0	0
Mir6931	chr11:102994055-103017147	NOTEST	0	0
Mir6932	chr11:107547959-107686943	NOTEST	0	0
Mir6933	chr11:117986856-118129219	NOTEST	0	0
Mir6934	chr11:119143042-119228499	NOTEST	0	0
Mir6935	chr11:120345689-120348484	NOTEST	0	0
Mir6936	chr11:120618371-120625002	NOTEST	0	0
Mir6937	chr12:28675206-28682174	NOTEST	0	0
Mir6938	chr12:85234519-85270564	NOTEST	0	0
Mir6939	chr12:112653820-112674276	NOTEST	0	0
Mir694	chr18:66056855-66291838	NOTEST	0	0
Mir6940	chr12:112722173-112746591	NOTEST	0	0
Mir6941	chr12:112908589-112929495	NOTEST	0	0
Mir6942	chr13:21387003-21402755	NOTEST	0	0
Mir6943	chr13:55445071-55460927	NOTEST	0	0
Mir6944	chr13:55473427-55488076	NOTEST	0	0
Mir6945	chr13:55497486-55513446	NOTEST	0	0
Mir6946	chr14:20674320-20694850	NOTEST	0	0
Mir6947	chr14:29978336-29993221	NOTEST	0	0
Mir6948	chr14:54642160-54690742	NOTEST	0	0
Mir6949	chr14:56082163-56085197	NOTEST	0	0
Mir695	chr2:155278251-155357424	NOTEST	0	0
Mir6950	chr14:69609475-69695834	NOTEST	0	0
Mir6951	chr15:38487429-38519266	NOTEST	0	0
Mir6952	chr15:76047185-76069730	NOTEST	0	0
Mir6953	chr15:76246806-76249904	NOTEST	0	0
Mir6954	chr15:76380512-76477269	NOTEST	0	0
Mir6955	chr15:78877189-78894585	NOTEST	0	0
Mir6956	chr15:78947723-79011041	NOTEST	0	0
Mir6957	chr15:80572596-80652854	NOTEST	0	0
Mir6958	chr15:89182212-89196474	NOTEST	0	0
Mir6959	chr15:89288235-89315311	NOTEST	0	0
Mir6960	chr15:99074972-99083409	NOTEST	0	0
Mir6961	chr15:100641081-100669500	NOTEST	0	0
Mir6962	chr15:101174124-101212601	NOTEST	0	0
Mir6963	chr15:103344285-103366748	NOTEST	0	0
Mir6964	chr16:97855208-97922633	NOTEST	0	0
Mir6965	chr17:24223231-24251409	NOTEST	0	0
Mir6966	chr17:25773775-25785586	NOTEST	0	0
Mir6968	chr17:26933126-26937890	NOTEST	0	0
Mir6969	chr17:28558213-28560714	NOTEST	0	0
Mir697	chr4:124714860-124732422	NOTEST	0	0
Mir6970	chr17:34839225-34850204	NOTEST	0	0
Mir6971	chr17:34839225-34850204	NOTEST	0	0

Mir6972	chr17:34856373-34862514	NOTEST	0	0
Mir6973a	chr17:35194506-35196305	NOTEST	0	0
Mir6973b	chr2:131039631-131043088	NOTEST	0	0
Mir6974	chr17:35203164-35205351	NOTEST	0	0
Mir6975	chr17:35241745-35253707	NOTEST	0	0
Mir6976	chr17:46546838-46556162	NOTEST	0	0
Mir6977	chr17:56412425-56476480	NOTEST	0	0
Mir6978	chr17:57203972-57228136	NOTEST	0	0
Mir6979	chr18:37844824-37935411	NOTEST	0	0
Mir698	chr4:124741877-124801511	NOTEST	0	0
Mir6980	chr18:37972622-37998969	NOTEST	0	0
Mir6981	chr18:37972622-37998969	NOTEST	0	0
Mir6982	chr18:60925631-60988152	NOTEST	0	0
Mir6983	chr18:61105571-61131139	NOTEST	0	0
Mir6984	chr19:3283046-3292837	NOTEST	0	0
Mir6985	chr19:4261668-4269172	NOTEST	0	0
Mir6986	chr19:4622550-4625617	NOTEST	0	0
Mir6987	chr19:5664634-5688908	NOTEST	0	0
Mir6988	chr19:6046575-6057751	NOTEST	0	0
Mir6989	chr11:46193848-46589232	NOTEST	0	0
Mir6990	chr19:6909697-6921808	NOTEST	0	0
Mir6991	chr19:7417624-7483291	NOTEST	0	0
Mir6992	chr19:8741423-8755642	NOTEST	0	0
Mir6993	chr19:10182887-10196872	NOTEST	0	0
Mir6994	chr19:11912398-11945096	NOTEST	0	0
Mir6995	chr19:47260173-47464411	NOTEST	0	0
Mir6996	chr2:26457901-26503822	NOTEST	0	0
Mir6997	chr2:29965559-30031450	NOTEST	0	0
Mir6998	chr2:31572650-31617526	NOTEST	0	0
Mir6999	chr2:91932821-91963563	NOTEST	0	0
Mir7-1	chr13:58391950-58411149	NOTEST	0	0
Mir7-2	chr7:78888276-78888373	NOTEST	0	0
Mir700	chr4:135412308-135433805	NOTEST	0	0
Mir7000	chr2:92383675-92401263	NOTEST	0	0
Mir7001	chr2:93419101-93469874	NOTEST	0	0
Mir7002	chr2:114101160-114175339	NOTEST	0	0
Mir7003	chr2:163054634-163084687	NOTEST	0	0
Mir7004	chr2:168634437-168742136	NOTEST	0	0
Mir7005	chr2:180176372-180225859	NOTEST	0	0
Mir7006	chr2:181569152-181592461	NOTEST	0	0
Mir7007	chr3:20215615-20242181	NOTEST	0	0
Mir7008	chr3:30995770-31052740	NOTEST	0	0
Mir7009	chr3:36448923-36475887	NOTEST	0	0
Mir701	chr5:110879802-111289779	NOTEST	0	0
Mir7010	chr3:82092426-82145877	NOTEST	0	0
Mir7011	chr3:88435961-88461182	NOTEST	0	0
Mir7012	chr3:90266533-90280665	NOTEST	0	0
Mir7013	chr3:94974730-95015238	NOTEST	0	0
Mir7014	chr3:95734147-95739569	NOTEST	0	0
Mir7015	chr4:120968316-121017247	NOTEST	0	0
Mir7016	chr4:129676354-129696838	NOTEST	0	0
Mir7017	chr4:133130632-133198330	NOTEST	0	0
Mir7018	chr4:137468802-137570630	NOTEST	0	0

Mir7019	chr4:138313409-138326296	NOTEST	0	0
Mir702	chr5:136982200-136996646	NOTEST	0	0
Mir7020	chr4:139622893-139649691	NOTEST	0	0
Mir7021	chr4:143107390-143212709	NOTEST	0	0
Mir7022	chr4:148145715-148152135	NOTEST	0	0
Mir7023	chr4:149649167-149701629	NOTEST	0	0
Mir7024	chr5:33898179-33936258	NOTEST	0	0
Mir7025	chr5:75152290-75198204	NOTEST	0	0
Mir7026	chr5:110664372-110770717	NOTEST	0	0
Mir7027	chr5:114380606-114421166	NOTEST	0	0
Mir7028	chr5:114707778-114722327	NOTEST	0	0
Mir7029	chr5:115565262-115622654	NOTEST	0	0
Mir7030	chr5:115631986-115647158	NOTEST	0	0
Mir7031	chr5:121817214-121836801	NOTEST	0	0
Mir7032	chr5:123973627-124003215	NOTEST	0	0
Mir7033	chr5:135369952-135394546	NOTEST	0	0
Mir7034	chr5:135735489-135744172	NOTEST	0	0
Mir7035	chr5:136083915-136111861	NOTEST	0	0
Mir7036	chr5:137295703-137307674	NOTEST	0	0
Mir7036b	chr5:34573713-34632305	NOTEST	0	0
Mir7037	chr5:139751281-139775678	NOTEST	0	0
Mir7038	chr5:140419304-140443358	NOTEST	0	0
Mir7039	chr5:144876494-144965830	NOTEST	0	0
Mir704	chr6:47796140-47813512	NOTEST	0	0
Mir7040	chr6:83034223-83054571	NOTEST	0	0
Mir7041	chr6:94500313-94700145	NOTEST	0	0
Mir7042	chr6:113697498-113711068	NOTEST	0	0
Mir7043	chr6:116633007-116673836	NOTEST	0	0
Mir7044	chr6:118066384-118091546	NOTEST	0	0
Mir7045	chr6:125096162-125130501	NOTEST	0	0
Mir7046	chr7:24969749-24972728	NOTEST	0	0
Mir7047	chr7:24978168-25005937	NOTEST	0	0
Mir7048	chr7:25202839-25219859	NOTEST	0	0
Mir7049	chr7:28558818-28598184	NOTEST	0	0
Mir705	chr6:85334961-85374634	LOWDAT	0	0
Mir7050	chr7:31032722-31042331	NOTEST	0	0
Mir7051	chr7:43444071-43457800	NOTEST	0	0
Mir7052	chr7:44467979-44471658	NOTEST	0	0
Mir7053	chr7:44532743-44548815	NOTEST	0	0
Mir7054	chr7:45002949-45016249	NOTEST	0	0
Mir7055	chr7:45163920-45176139	NOTEST	0	0
Mir7056	chr7:47077799-47133684	NOTEST	0	0
Mir7057	chr7:66258746-66388341	NOTEST	0	0
Mir7058	chr7:126363827-126369534	NOTEST	0	0
Mir7059	chr7:126571399-126584280	NOTEST	0	0
Mir706	chr6:119923968-120038655	NOTEST	0	0
Mir7060	chr7:127485220-127491513	NOTEST	0	0
Mir7061	chr7:130865909-130913302	NOTEST	0	0
Mir7062	chr7:139978937-139992509	NOTEST	0	0
Mir7063	chr7:141562179-141633011	NOTEST	0	0
Mir7064	chr7:143557229-143600090	NOTEST	0	0
Mir7065	chr8:13105720-13147939	NOTEST	0	0
Mir7066	chr8:70093084-70120844	NOTEST	0	0

Mir7067	chr8:70894721-70897443	NOTEST	0	0
Mir7068	chr8:72443879-72475233	NOTEST	0	0
Mir7069	chr8:84856985-84869257	NOTEST	0	0
Mir707	chr7:44849223-44855421	LOWDAT	0	0
Mir7070	chr8:85036914-85067120	NOTEST	0	0
Mir7071	chr8:88137884-88171943	NOTEST	0	0
Mir7072	chr8:94472762-94527272	NOTEST	0	0
Mir7073	chr8:95719450-95821728	NOTEST	0	0
Mir7074	chr8:105943589-105966115	NOTEST	0	0
Mir7075	chr8:107069401-107096545	NOTEST	0	0
Mir7076	chr8:111686509-111691010	NOTEST	0	0
Mir7077	chr8:117257018-117461505	NOTEST	0	0
Mir7078	chr8:117257018-117461505	NOTEST	0	0
Mir7079	chr8:123102349-123105242	NOTEST	0	0
Mir708	chr7:96210636-96908554	NOTEST	0	0
Mir7080	chr8:123117373-123135185	NOTEST	0	0
Mir7081	chr9:20907205-20959888	NOTEST	0	0
Mir7082	chr9:21067513-21092008	NOTEST	0	0
Mir7083	chr9:21800179-21852635	NOTEST	0	0
Mir7084	chr9:22055459-22389206	LOWDAT	0	0
Mir7085	chr9:44398175-44402965	NOTEST	0	0
Mir7086	chr9:45253838-45269146	NOTEST	0	0
Mir7087	chr9:45937856-45955249	NOTEST	0	0
Mir7088	chr9:108080435-108085027	NOTEST	0	0
Mir7089	chr9:109875578-109893890	NOTEST	0	0
Mir709	chr8:84066835-84096992	NOTEST	0	0
Mir7090	chr9:120933399-120960507	NOTEST	0	0
Mir7091	chrX:74273216-74282333	NOTEST	0	0
Mir7092	chrX:74313032-74320149	NOTEST	0	0
Mir7093	chrX:134756567-134761456	NOTEST	0	0
Mir7094-1	chr12:114469406-114469466	NOTEST	0	0
Mir7094-2	chr12:114513634-114513694	NOTEST	0	0
Mir710	chr8:64514331-64514441	NOTEST	0	0
Mir711	chr9:108953744-108984875	NOTEST	0	0
Mir7115	chr11:70432579-70440828	NOTEST	0	0
Mir7117	chr15:27466676-27594907	NOTEST	0	0
Mir7118	chr15:89155545-89180788	NOTEST	0	0
Mir7119	chr4:126556979-126593903	NOTEST	0	0
Mir713	chr13:62760738-62760846	NOTEST	0	0
Mir717	chrX:52272426-52619047	NOTEST	0	0
Mir718	chrX:74013913-74023936	NOTEST	0	0
Mir719	chr14:60219467-60251378	LOWDAT	0	0
Mir721	chr5:136248134-136567490	NOTEST	0	0
Mir7210	chr14:24088876-24088930	NOTEST	0	0
Mir7211	chr10:94514856-94590954	NOTEST	0	0
Mir7212	chr15:25843297-25973696	NOTEST	0	0
Mir7213	chr15:79995875-80014808	NOTEST	0	0
Mir7214	chr17:27317034-27317095	NOTEST	0	0
Mir7215	chr10:62659421-62726099	NOTEST	0	0
Mir7216	chr17:27328384-27328460	NOTEST	0	0
Mir7217	chr17:27355737-27355799	NOTEST	0	0
Mir7218	chr17:27358096-27358155	NOTEST	0	0
Mir7219	chr18:68260184-68300333	LOWDAT	0	0

Mir7220	chr18:60925631-60988152	NOTEST	0	0
Mir7221	chr2:92592205-92592277	NOTEST	0	0
Mir7222	chr2:92594601-92594676	NOTEST	0	0
Mir7223	chr11:107933386-108343888	NOTEST	0	0
Mir7224	chr2:67675456-67675516	NOTEST	0	0
Mir7225	chr3:97689828-97888707	LOWDAT	0	0
Mir7226	chr4:118208212-118291397	NOTEST	0	0
Mir7227	chr4:133679007-133753611	NOTEST	0	0
Mir7228	chr5:134572075-134572114	NOTEST	0	0
Mir7229	chr5:113324492-113324545	NOTEST	0	0
Mir7230	chr5:113337589-113337645	NOTEST	0	0
Mir7231	chr6:122820183-122845366	NOTEST	0	0
Mir7232	chr6:81895589-81895663	NOTEST	0	0
Mir7233	chr6:127788083-127788143	NOTEST	0	0
Mir7234	chr7:73819589-73819641	NOTEST	0	0
Mir7235	chr11:97136170-97149712	NOTEST	0	0
Mir7236	chr11:121356120-121388251	NOTEST	0	0
Mir7237	chr8:121950491-122029260	NOTEST	0	0
Mir7238	chr8:11611580-11635757	LOWDAT	0	0
Mir7239	chr11:46170086-46170143	NOTEST	0	0
Mir7240	chr8:70798134-70798192	NOTEST	0	0
Mir7241	chr9:67727716-67727780	NOTEST	0	0
Mir7242	chr9:67729498-67729577	NOTEST	0	0
Mir7243	chr9:101922127-102354693	NOTEST	0	0
Mir741	chrX:66796804-66796875	NOTEST	0	0
Mir742	chrX:66780372-66780437	NOTEST	0	0
Mir743	chrX:66776756-66776818	NOTEST	0	0
Mir743b	chrX:66777255-66777332	NOTEST	0	0
Mir744	chr11:65688243-65788297	NOTEST	0	0
Mir7578	chr2:27445580-27475673	NOTEST	0	0
Mir758	chr12:109712809-109712890	NOTEST	0	0
Mir759	chr14:79738430-79738528	NOTEST	0	0
Mir760	chr3:122293584-122293703	NOTEST	0	0
Mir761	chr4:109000804-109202272	NOTEST	0	0
Mir762	chr7:127704977-127708766	NOTEST	0	0
Mir764	chrX:146962512-147197277	NOTEST	0	0
Mir7646	chrX:135742691-135803468	LOWDAT	0	0
Mir7647	chr5:123510459-123524164	NOTEST	0	0
Mir7648	chr15:90224310-90230554	LOWDAT	0	0
Mir7649	chr6:128934380-128984707	NOTEST	0	0
Mir7650	chr9:15283336-15357788	NOTEST	0	0
Mir7652	chr1:150024260-150052202	NOTEST	0	0
Mir7653	chr11:78178148-78180819	LOWDAT	0	0
Mir7654	chr8:8666575-8690537	LOWDAT	0	0
Mir7655	chr2:18055236-18392830	NOTEST	0	0
Mir7656	chr9:94669891-95230452	NOTEST	0	0
Mir7657	chr3:122538718-122619714	LOWDAT	0	0
Mir7658	chr4:156229043-156234857	LOWDAT	0	0
Mir7661	chr6:108213095-108551116	NOTEST	0	0
Mir7662	chr10:62185395-62231218	NOTEST	0	0
Mir7663	chr10:22645010-22731447	NOTEST	0	0
Mir7665	chr2:119972698-120027403	NOTEST	0	0
Mir7666	chr8:40307874-40307929	NOTEST	0	0

Mir7667	chr9:21165713-21226281	NOTEST	0	0
Mir7668	chr7:29893336-29906567	NOTEST	0	0
Mir7669	chr10:127265080-127265101	NOTEST	0	0
Mir767	chrX:72432675-72656246	NOTEST	0	0
Mir7670	chr6:38433924-38512763	LOWDAT	0	0
Mir7671	chr11:53763596-53763654	NOTEST	0	0
Mir7672	chr14:26664116-26669846	LOWDAT	0	0
Mir7673	chrX:94274573-94274637	NOTEST	0	0
Mir7674	chr2:31974449-32053975	NOTEST	0	0
Mir7675	chr12:11265885-11319785	NOTEST	0	0
Mir7676-2	chr15:78325989-78351001	LOWDAT	0	0
Mir7677	chr17:27057303-27122223	NOTEST	0	0
Mir7678	chr2:164354069-164356507	NOTEST	0	0
Mir7679	chr11:82980302-82991830	NOTEST	0	0
Mir7680	chr16:21247498-21296872	NOTEST	0	0
Mir7681	chr1:53806873-54195034	NOTEST	0	0
Mir7682	chr1:151428647-151458183	NOTEST	0	0
Mir7684	chr15:82389153-82394022	LOWDAT	0	0
Mir7685	chr2:158243503-158243565	NOTEST	0	0
Mir7686	chr7:139957565-139957622	NOTEST	0	0
Mir7687	chr8:120488865-120589075	NOTEST	0	0
Mir770	chr12:109540995-109571729	LOWDAT	0	0
Mir7b	chr17:56242987-56243098	NOTEST	0	0
Mir802	chr16:93369719-93369816	NOTEST	0	0
Mir804	chr11:50357784-50357879	NOTEST	0	0
Mir8091	chr19:41588650-41588789	NOTEST	0	0
Mir8092	chr19:40894702-40917947	NOTEST	0	0
Mir8093	chr2:32646594-32694175	NOTEST	0	0
Mir8095	chr16:22466568-22657231	NOTEST	0	0
Mir8096	chr1:85751947-85752074	NOTEST	0	0
Mir8097	chr15:36239933-36283147	LOWDAT	0	0
Mir8099-1	chr3:95134087-95142360	NOTEST	0	0
Mir8100	chr11:46054501-46147347	NOTEST	0	0
Mir8102	chr11:97744896-97745035	NOTEST	0	0
Mir8103	chr11:97050819-97068904	NOTEST	0	0
Mir8105	chr10:128458679-128458768	NOTEST	0	0
Mir8106	chr9:122175873-122294423	NOTEST	0	0
Mir8107	chr9:110624788-110654161	NOTEST	0	0
Mir8108	chr8:25154551-25201542	LOWDAT	0	0
Mir8109	chr8:85700904-85701021	NOTEST	0	0
Mir8110	chr8:89024734-89024831	NOTEST	0	0
Mir8111	chr8:84005627-84005764	NOTEST	0	0
Mir8113	chr6:125224211-125239934	NOTEST	0	0
Mir8115	chr11:86583864-87555823	NOTEST	0	0
Mir8116	chr5:137288253-137294466	NOTEST	0	0
Mir8118	chr4:33310310-33502610	NOTEST	0	0
Mir8119	chr4:129548343-129573641	NOTEST	0	0
Mir8120	chr3:65659287-65659426	NOTEST	0	0
Mir871	chrX:66810427-66810504	NOTEST	0	0
Mir872	chr4:94614490-94693233	NOTEST	0	0
Mir873b	chr4:35706647-36951744	NOTEST	0	0
Mir874	chr13:58004956-58102428	NOTEST	0	0
Mir875	chr15:35371545-35931229	NOTEST	0	0

Mir876	chr4:35706647-36951744	NOTEST	0	0
Mir877	chr17:35956818-35969750	NOTEST	0	0
Mir878	chrX:66801507-66801585	NOTEST	0	0
Mir879	chr5:9266192-9480717	NOTEST	0	0
Mir880	chrX:66800529-66800607	NOTEST	0	0
Mir881	chrX:66801943-66802021	NOTEST	0	0
Mir882	chr12:109682196-109682273	NOTEST	0	0
Mir883a	chrX:66780757-66780833	NOTEST	0	0
Mir883b	chrX:66789889-66789967	NOTEST	0	0
Mir9-1	chr3:88215597-88215686	NOTEST	0	0
Mir9-2	chr13:83738813-83738885	NOTEST	0	0
Mir9-3	chr7:79500025-79534403	NOTEST	0	0
Mir92-1	chr14:115044304-115046728	LOWDAT	0	0
Mir92-2	chrX:52741837-52741928	NOTEST	0	0
Mir92b	chr3:89227115-89227198	NOTEST	0	0
Mir93	chr5:138164588-138171862	NOTEST	0	0
Mir96	chr6:30169445-30169551	NOTEST	0	0
Mir98	chrX:151803281-151935417	NOTEST	0	0
Mir99a	chr16:77598935-77599000	NOTEST	0	0
Mir99b	chr17:17830187-17830257	NOTEST	0	0
Mirlet7a-1	chr13:48538178-48538272	NOTEST	0	0
Mirlet7a-2	chr9:41536715-41536811	NOTEST	0	0
Mirlet7b	chr15:85703772-85707524	LOWDAT	0	0
Mirlet7c-1	chr16:77599656-77599750	NOTEST	0	0
Mirlet7c-2	chr15:85703772-85707524	LOWDAT	0	0
Mirlet7d	chr13:48536011-48536114	NOTEST	0	0
Mirlet7e	chr17:17830351-17830444	NOTEST	0	0
Mirlet7f-1	chr13:48537828-48537917	NOTEST	0	0
Mirlet7f-2	chrX:151803281-151935417	NOTEST	0	0
Mirlet7g	chr9:106170928-106191706	NOTEST	0	0
Mirlet7i	chr10:122985639-122985724	NOTEST	0	0
Mirlet7j	chr3:140028248-140028370	NOTEST	0	0
Mirlet7k	chr5:147283188-147283298	NOTEST	0	0
Mixl1	chr1:180693047-180697034	NOTEST	0	0
Mmp10	chr9:7502341-7510242	NOTEST	0	0
Mmp1a	chr9:7464140-7476869	NOTEST	0	0
Mmp1b	chr9:7367669-7388026	NOTEST	0	0
Mmp20	chr9:7628230-7674968	NOTEST	0	0
Mmp21	chr7:133674269-133680061	NOTEST	0	0
Mmp27	chr9:7571457-7581393	NOTEST	0	0
Mmp7	chr9:7692110-7699416	NOTEST	0	0
Mnx1	chr5:29473822-29478470	NOTEST	0	0
Moxd2	chr6:40529090-40910666	NOTEST	0	0
Mptx1	chr1:174330517-174332877	NOTEST	0	0
Mptx2	chr1:173274460-173277756	NOTEST	0	0
Mrgpra6	chr7:47185765-47189355	NOTEST	0	0
Mrgprb3	chr7:48642862-48643801	NOTEST	0	0
Mrgprg	chr7:143763709-143766993	NOTEST	0	0
Mroh4	chr15:74606027-74636318	NOTEST	0	0
Mroh9	chr1:163024301-163085670	NOTEST	0	0
Ms4a10	chr19:10962294-10974670	NOTEST	0	0
Ms4a15	chr19:10978306-10993250	NOTEST	0	0
Ms4a18	chr19:10997024-11017963	NOTEST	0	0

Ms4a5	chr19:11196816-11299884	NOTEST	0	0
Msgn1	chr12:11208381-11208948	NOTEST	0	0
Msemb	chr14:32142022-32158326	NOTEST	0	0
Msx1os	chr5:37820490-37824585	NOTEST	0	0
Msx3	chr7:140046156-140049088	NOTEST	0	0
Mtnr1b	chr9:15862613-15874556	NOTEST	0	0
Muc19	chr15:91838325-91934555	NOTEST	0	0
Muc20	chr16:32735885-32797435	NOTEST	0	0
Muc4	chr16:32735885-32797435	NOTEST	0	0
Muc5ac	chr7:141789010-141819135	NOTEST	0	0
Muc5b	chr7:141839071-141873085	NOTEST	0	0
Muc6	chr7:141634048-141655308	NOTEST	0	0
Muc11	chr15:103751922-103899312	NOTEST	0	0
Mug-ps1	chr6:122176052-122248566	NOTEST	0	0
Mug1	chr6:121838540-121889057	NOTEST	0	0
Mug2	chr6:122006797-122085967	NOTEST	0	0
Mup1	chr4:60498012-60501960	NOTEST	0	0
Mup10	chr4:60578240-60662395	NOTEST	0	0
Mup11	chr4:60578240-60662395	NOTEST	0	0
Mup12	chr4:60737380-60741281	NOTEST	0	0
Mup13	chr4:61224306-61228286	NOTEST	0	0
Mup14	chr4:61300018-61439704	NOTEST	0	0
Mup15	chr4:61300018-61439704	NOTEST	0	0
Mup16	chr4:61515592-61519486	NOTEST	0	0
Mup17	chr4:61591929-61595832	NOTEST	0	0
Mup19	chr4:61778324-61782224	NOTEST	0	0
Mup2	chr4:61300018-61439704	NOTEST	0	0
Mup21	chr4:62147831-62150841	NOTEST	0	0
Mup4	chr4:59956805-59960665	NOTEST	0	0
Mup5	chr4:61831318-61835180	NOTEST	0	0
Mup6	chr4:60003548-60006214	NOTEST	0	0
Mup7	chr4:60066468-60139858	NOTEST	0	0
Mup8	chr4:60218620-60222599	NOTEST	0	0
Mup9	chr4:60418045-60421952	NOTEST	0	0
Mybpc3	chr2:91118143-91136516	NOTEST	0	0
Mybphl	chr3:108364910-108383741	NOTEST	0	0
Mycs	chrX:5466903-5469265	NOTEST	0	0
Myod1	chr7:46376473-46379092	NOTEST	0	0
Nags	chr11:102145512-102149528	NOTEST	0	0
Nctc1	chr7:142544608-142558598	NOTEST	0	0
Nek10	chr14:14820814-15006693	NOTEST	0	0
Nell1os	chr7:49975349-50863289	NOTEST	0	0
Neurod2	chr11:98325416-98329645	NOTEST	0	0
Neurod6	chr6:55677818-55681263	NOTEST	0	0
Nipal4	chr11:46148154-46166359	NOTEST	0	0
Nipsnap3a	chr4:52989283-53000854	NOTEST	0	0
Nkx1-1	chr5:33430733-33434090	NOTEST	0	0
Nkx1-2	chr7:132596238-132599637	NOTEST	0	0
Nkx2-1	chr12:56531934-56536908	NOTEST	0	0
Nkx2-3	chr19:43612324-43615892	NOTEST	0	0
Nkx2-4	chr2:147083875-147085345	NOTEST	0	0
Nkx2-5	chr17:26838664-26841565	NOTEST	0	0
Nkx2-6	chr14:69164798-69175540	NOTEST	0	0

Nkx2-9	chr12:56611396-56613284	NOTEST	0	0
Nkx3-1	chr14:69190691-69194658	NOTEST	0	0
Nkx3-2	chr5:41761482-41764220	NOTEST	0	0
Nlrp14	chr7:107166989-107198103	NOTEST	0	0
Nlrp2	chr7:5298546-5360682	NOTEST	0	0
Nlrp4a	chr7:26435112-26475458	NOTEST	0	0
Nlrp4b	chr7:10687792-10730158	NOTEST	0	0
Nlrp4c	chr7:6045160-6105149	NOTEST	0	0
Nlrp4e	chr7:23301191-23362277	NOTEST	0	0
Nlrp4g	chr9:124348830-124354483	NOTEST	0	0
Nlrp5	chr7:23385896-23441921	NOTEST	0	0
Nlrp9a	chr7:26535064-26574146	NOTEST	0	0
Nlrp9b	chr7:20008022-20062938	NOTEST	0	0
Nlrp9c	chr7:26364886-26394243	NOTEST	0	0
Nme9	chr9:99456242-99568899	NOTEST	0	0
Nodal	chr10:61417971-61425337	NOTEST	0	0
Noto	chr6:85423885-85428877	NOTEST	0	0
Nox3	chr17:3635239-3696261	NOTEST	0	0
Noxa1	chr2:25080322-25095205	NOTEST	0	0
Nphs1os	chr7:30460057-30488609	NOTEST	0	0
Npsr1	chr9:24098017-24316398	NOTEST	0	0
Npvf	chr6:50650870-50654393	NOTEST	0	0
Nr0b1	chrX:86191774-86195944	NOTEST	0	0
Nr1h5	chr3:102939657-102964133	NOTEST	0	0
Nr2e1	chr10:42561970-42583588	NOTEST	0	0
Nr2e3	chr9:59942770-59950079	NOTEST	0	0
Nr5a1	chr2:38692659-38714542	NOTEST	0	0
Nrg3os	chr14:38368950-39473088	NOTEST	0	0
Nron	chr2:33729955-33887946	NOTEST	0	0
Nt5c1b	chr12:10369970-10390174	NOTEST	0	0
Ntf5	chr7:45413694-45417179	NOTEST	0	0
Nup62cl	chrX:140007672-140062568	NOTEST	0	0
Nutf2-ps1	chr8:105860633-105880401	LOWDAT	0	0
Nutm1	chr2:112247947-112259291	NOTEST	0	0
Nxf7	chrX:135579786-135593855	NOTEST	0	0
Oas1d	chr5:120914817-120921647	NOTEST	0	0
Oaz1-ps	chr10:80826655-80829290	LOWDAT	0	0
Oaz3	chr3:94433165-94436616	NOTEST	0	0
Obox1	chr7:15547256-15556846	NOTEST	0	0
Obox2	chr7:15388850-15398543	NOTEST	0	0
Obox3	chr7:15625305-15639777	NOTEST	0	0
Obox5	chr7:15750369-15759274	NOTEST	0	0
Obox6	chr7:15833249-15839679	NOTEST	0	0
Obp1a	chrX:78085504-78091374	NOTEST	0	0
Obp2a	chr2:25700073-25703326	NOTEST	0	0
Ocm	chr5:144019806-144050609	NOTEST	0	0
Odam	chr5:87885694-87892742	NOTEST	0	0
Odf3l2	chr10:79639525-79645738	NOTEST	0	0
Odf4	chr11:68921834-68927081	NOTEST	0	0
Oit1	chr14:8348947-8378763	NOTEST	0	0
Olfr1	chr11:73395075-73399495	NOTEST	0	0
Olfr10	chr11:49317547-49318483	NOTEST	0	0
Olfr100,Olfr102	chr17:37313410-37314437	LOWDAT	0	0

Olfr1000	chr2:85607963-85608908	NOTEST	0	0
Olfr1002	chr2:85647362-85648319	NOTEST	0	0
Olfr1006	chr2:85674210-85678741	NOTEST	0	0
Olfr1008	chr2:85689430-85690372	NOTEST	0	0
Olfr1009	chr2:85721406-85722351	NOTEST	0	0
Olfr101	chr17:37299493-37300420	NOTEST	0	0
Olfr1010	chr2:85753362-85754306	NOTEST	0	0
Olfr1012	chr2:85759438-85760374	NOTEST	0	0
Olfr1013	chr2:85769802-85770720	NOTEST	0	0
Olfr1014	chr2:85776585-85777503	NOTEST	0	0
Olfr1015	chr2:85785473-85786489	NOTEST	0	0
Olfr1016	chr2:85799338-85800268	NOTEST	0	0
Olfr1018	chr2:85822972-85823908	NOTEST	0	0
Olfr1019	chr2:85840856-85841789	NOTEST	0	0
Olfr102	chr17:37313410-37314437	NOTEST	0	0
Olfr1020	chr2:85849419-85850498	NOTEST	0	0
Olfr1022	chr2:85868593-85869541	NOTEST	0	0
Olfr1023	chr2:85886801-85887737	NOTEST	0	0
Olfr1024	chr2:85904068-85905052	NOTEST	0	0
Olfr1026	chr2:85923269-85924193	NOTEST	0	0
Olfr1028	chr2:85951064-85952039	NOTEST	0	0
Olfr1029	chr2:85975212-85976273	NOTEST	0	0
Olfr103	chr17:37336288-37337230	NOTEST	0	0
Olfr1030	chr2:85979311-85984798	NOTEST	0	0
Olfr1031	chr2:85991818-85992829	NOTEST	0	0
Olfr1032	chr2:86007777-86008710	NOTEST	0	0
Olfr1036	chr2:86074703-86075718	NOTEST	0	0
Olfr1037	chr2:86084729-86085854	NOTEST	0	0
Olfr1038-ps	chr2:86120223-86123037	NOTEST	0	0
Olfr1039	chr2:86130701-86131661	NOTEST	0	0
Olfr1040	chr2:86145790-86146732	NOTEST	0	0
Olfr1042	chr2:86159344-86160441	NOTEST	0	0
Olfr1043	chr2:86162002-86162947	NOTEST	0	0
Olfr1044	chr2:86170870-86171815	NOTEST	0	0
Olfr1045	chr2:86197802-86198750	NOTEST	0	0
Olfr1046	chr2:86216757-86217708	NOTEST	0	0
Olfr1047	chr2:86228009-86228969	NOTEST	0	0
Olfr1048	chr2:86235870-86236833	NOTEST	0	0
Olfr1049	chr2:86254764-86255691	NOTEST	0	0
Olfr1051	chr2:86275558-86276485	NOTEST	0	0
Olfr1052	chr2:86297817-86298756	NOTEST	0	0
Olfr1053	chr2:86314342-86315285	NOTEST	0	0
Olfr1054	chr2:86332415-86333354	NOTEST	0	0
Olfr1055	chr2:86346825-86347764	NOTEST	0	0
Olfr1056	chr2:86355358-86356437	NOTEST	0	0
Olfr1057	chr2:86374462-86375410	NOTEST	0	0
Olfr1058	chr2:86385465-86386416	NOTEST	0	0
Olfr1061	chr2:86413108-86414050	NOTEST	0	0
Olfr1062	chr2:86422718-86423674	NOTEST	0	0
Olfr1065	chr2:86445012-86446004	NOTEST	0	0
Olfr1066	chr2:86455327-86456269	NOTEST	0	0
Olfr107	chr17:37405476-37406509	NOTEST	0	0
Olfr1076	chr2:86508460-86509402	NOTEST	0	0

Olfr1077-ps1	chr2:86525661-86528427	NOTEST	0	0
Olfr1079	chr2:86537965-86538913	NOTEST	0	0
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Olfr1122	chr2:87387706-87388687	NOTEST	0	0
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Olfr1467	chr19:13364629-13365556	NOTEST	0	0
Olfr1469	chr19:13410570-13411500	NOTEST	0	0
Olfr147	chr9:38401710-38403829	NOTEST	0	0
Olfr1471	chr19:13445013-13445958	NOTEST	0	0
Olfr1472	chr19:13453570-13454515	NOTEST	0	0
Olfr1474	chr19:13470971-13471916	NOTEST	0	0
Olfr1475	chr19:13479251-13480196	NOTEST	0	0
Olfr1477	chr19:13500545-13503292	NOTEST	0	0
Olfr148	chr9:39613568-39614501	NOTEST	0	0
Olfr1480	chr19:13529674-13530622	NOTEST	0	0
Olfr1484	chr19:13585305-13586253	NOTEST	0	0
Olfr1487	chr19:13619163-13620111	NOTEST	0	0
Olfr1489	chr19:13633112-13634054	NOTEST	0	0
Olfr149	chr9:39701831-39702767	NOTEST	0	0
Olfr1490	chr19:13654445-13655396	NOTEST	0	0
Olfr1491	chr19:13704828-13705788	NOTEST	0	0
Olfr1494	chr19:13749107-13750055	NOTEST	0	0
Olfr1495	chr19:13768343-13769303	NOTEST	0	0
Olfr1496	chr19:13780547-13781614	NOTEST	0	0
Olfr1497	chr19:13794664-13795609	NOTEST	0	0
Olfr1499	chr19:13814643-13815588	NOTEST	0	0
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Olfr1500	chr19:13827458-13828394	NOTEST	0	0
Olfr1501	chr19:13838223-13839171	NOTEST	0	0
Olfr1502	chr19:13861794-13862745	NOTEST	0	0
Olfr1504	chr19:13887260-13888208	NOTEST	0	0
Olfr1505	chr19:13919021-13919972	NOTEST	0	0
Olfr1506	chr2:90221566-90224471	NOTEST	0	0
Olfr1507	chr14:52489934-52495695	NOTEST	0	0
Olfr1508	chr14:52462720-52467461	NOTEST	0	0
Olfr1509	chr14:52450392-52451402	NOTEST	0	0
Olfr151	chr9:37729976-37731061	NOTEST	0	0
Olfr1510	chr14:52409888-52410927	NOTEST	0	0
Olfr1511	chr14:52389814-52390771	NOTEST	0	0
Olfr1512	chr14:52372109-52373051	NOTEST	0	0
Olfr1513	chr14:52349102-52350044	NOTEST	0	0
Olfr152	chr2:87782535-87783486	NOTEST	0	0
Olfr1532-ps1	chr7:106914199-106915123	NOTEST	0	0
Olfr1535	chr13:21555039-21556020	NOTEST	0	0
Olfr1537	chr9:39237486-39238431	NOTEST	0	0
Olfr154	chr2:85663376-85664455	NOTEST	0	0
Olfr155	chr4:43854291-43855463	NOTEST	0	0
Olfr156	chr4:43820334-43821433	NOTEST	0	0
Olfr157	chr4:43834751-43836517	NOTEST	0	0
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Olfr164	chr16:19285793-19286741	NOTEST	0	0
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Olfr167	chr16:19514695-19515634	NOTEST	0	0
Olfr168	chr16:19529979-19530918	NOTEST	0	0
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Olfr17	chr7:107097466-107098414	NOTEST	0	0
Olfr170	chr16:19605724-19606666	NOTEST	0	0
Olfr171	chr16:19624156-19625101	NOTEST	0	0
Olfr172	chr16:58760152-58761240	NOTEST	0	0
Olfr173	chr16:58796778-58797942	NOTEST	0	0
Olfr175-ps1	chr16:58823780-58826761	NOTEST	0	0
Olfr176	chr16:58872214-58873148	NOTEST	0	0
Olfr177	chr16:58872214-58873148	LOWDAT	0	0
Olfr178	chr16:58889258-58890218	NOTEST	0	0
Olfr180	chr16:58915685-58918486	NOTEST	0	0
Olfr181	chr16:58925556-58928644	NOTEST	0	0
Olfr183	chr16:58995403-59000616	NOTEST	0	0
Olfr186	chr16:59026975-59027905	NOTEST	0	0
Olfr187	chr16:59035779-59039749	NOTEST	0	0
Olfr19	chr16:16673049-16673979	NOTEST	0	0
Olfr190	chr16:59074154-59075078	NOTEST	0	0
Olfr191	chr16:59085551-59086481	NOTEST	0	0
Olfr192	chr16:59098065-59098990	NOTEST	0	0
Olfr193	chr16:59109678-59110608	NOTEST	0	0
Olfr194	chr16:59119147-59120068	NOTEST	0	0
Olfr195	chr16:59148851-59149778	NOTEST	0	0
Olfr196	chr16:59167211-59168141	NOTEST	0	0
Olfr197	chr16:59185555-59186481	NOTEST	0	0
Olfr198	chr16:59201503-59202424	NOTEST	0	0
Olfr199	chr16:59215684-59216611	NOTEST	0	0
Olfr2	chr7:107000874-107002605	NOTEST	0	0
Olfr20	chr11:73350858-73354699	NOTEST	0	0
Olfr201	chr16:59268738-59269665	NOTEST	0	0
Olfr202	chr16:59283571-59284495	NOTEST	0	0
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Olfr204	chr16:59314487-59315405	NOTEST	0	0
Olfr205	chr16:59328589-59329507	NOTEST	0	0
Olfr206	chr16:59344778-59345699	NOTEST	0	0
Olfr209	chr16:59361298-59362216	NOTEST	0	0
Olfr211	chr6:116493610-116494540	NOTEST	0	0
Olfr213	chr6:116540454-116541438	NOTEST	0	0
Olfr214	chr6:116556426-116557389	NOTEST	0	0
Olfr215	chr6:116582011-116582944	NOTEST	0	0
Olfr218	chr1:173203357-173204299	NOTEST	0	0
Olfr220	chr1:174448624-174449602	NOTEST	0	0
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Olfr224	chr11:58566398-58567343	NOTEST	0	0
Olfr225	chr11:59612965-59614225	NOTEST	0	0
Olfr228	chr2:86482798-86483740	NOTEST	0	0

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Olfr23	chr11:73940247-73941225	NOTEST	0	0
Olfr231	chr1:174117090-174118014	NOTEST	0	0
Olfr235	chr19:12071789-12413554	NOTEST	0	0
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Olfr242	chr9:39128166-39145070	LOWDAT	0	0
Olfr243	chr7:103716595-103717546	NOTEST	0	0
Olfr247	chr10:129974604-129975549	NOTEST	0	0
Olfr248	chr1:174391045-174392055	NOTEST	0	0
Olfr25	chr9:38329491-38330559	NOTEST	0	0
Olfr259	chr2:87107446-87108385	NOTEST	0	0
Olfr26	chr9:38855059-38855990	NOTEST	0	0
Olfr262	chr19:12071789-12413554	NOTEST	0	0
Olfr263	chr13:21132776-21133730	NOTEST	0	0
Olfr266	chr3:106821606-106822557	NOTEST	0	0
Olfr267	chr4:58784778-58785720	NOTEST	0	0
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Olfr270	chr4:52970628-52971567	NOTEST	0	0
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Olfr281	chr15:98456311-98457247	NOTEST	0	0
Olfr282	chr15:98437469-98438397	NOTEST	0	0
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Olfr285	chr15:98312588-98313548	NOTEST	0	0
Olfr286	chr15:98226674-98234450	NOTEST	0	0
Olfr287	chr15:98206970-98221056	NOTEST	0	0
Olfr288	chr15:98186012-98195542	NOTEST	0	0
Olfr29-ps1	chr4:43781364-43782327	NOTEST	0	0
Olfr290	chr7:84915780-84916728	NOTEST	0	0
Olfr291	chr7:84853570-84857318	NOTEST	0	0
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Olfr293	chr7:86663663-86664674	NOTEST	0	0
Olfr294	chr7:86615635-86616643	NOTEST	0	0
Olfr295	chr7:86585276-86586206	NOTEST	0	0
Olfr297	chr7:86526758-86527691	NOTEST	0	0
Olfr298	chr7:86488550-86489549	NOTEST	0	0
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Olfr3	chr2:36812148-36813090	NOTEST	0	0
Olfr30	chr11:58454914-58455980	NOTEST	0	0
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Olfr305	chr7:86363375-86364335	NOTEST	0	0
Olfr307	chr7:86335452-86336394	NOTEST	0	0
Olfr308	chr7:86321023-86321950	NOTEST	0	0
Olfr309	chr7:86306184-86307111	NOTEST	0	0
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Olfr310	chr7:86268729-86269811	NOTEST	0	0
Olfr311	chr11:58841115-58842042	NOTEST	0	0
Olfr312	chr11:58831155-58832082	NOTEST	0	0

Olfr313	chr11:58816927-58818001	NOTEST	0	0
Olfr314	chr11:58786138-58787269	NOTEST	0	0
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Olfr316	chr11:58757666-58758587	NOTEST	0	0
Olfr317	chr11:58732095-58733223	NOTEST	0	0
Olfr318	chr11:58720068-58721094	NOTEST	0	0
Olfr319	chr11:58701702-58702623	NOTEST	0	0
Olfr32	chr2:90138179-90142293	NOTEST	0	0
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Olfr322	chr11:58665560-58666544	NOTEST	0	0
Olfr323	chr11:58625072-58626044	NOTEST	0	0
Olfr324	chr11:58597344-58598466	NOTEST	0	0
Olfr325	chr11:58580836-58581877	NOTEST	0	0
Olfr328	chr11:58551304-58552237	NOTEST	0	0
Olfr329-ps	chr11:58542446-58544938	NOTEST	0	0
Olfr33	chr7:102713454-102714411	NOTEST	0	0
Olfr330	chr11:58528928-58534825	NOTEST	0	0
Olfr331	chr11:58501597-58502554	NOTEST	0	0
Olfr332	chr11:58489718-58492499	NOTEST	0	0
Olfr338	chr2:36376777-36377698	NOTEST	0	0
Olfr339	chr2:36421399-36422329	NOTEST	0	0
Olfr340	chr2:36452586-36453525	NOTEST	0	0
Olfr341	chr2:36479186-36480128	NOTEST	0	0
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Olfr345	chr2:36640040-36640976	NOTEST	0	0
Olfr346	chr2:36688003-36688933	NOTEST	0	0
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Olfr355	chr2:36927179-36928112	NOTEST	0	0
Olfr356	chr2:36937120-36938068	NOTEST	0	0
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Olfr360	chr2:37068306-37069260	NOTEST	0	0
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Olfr365	chr2:37201242-37202181	NOTEST	0	0
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Olfr370	chr8:83541092-83542188	NOTEST	0	0
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Olfr372	chr8:72057659-72058675	NOTEST	0	0
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Olfr374	chr8:72107039-72110509	NOTEST	0	0
Olfr376	chr11:73371245-73375704	NOTEST	0	0
Olfr378	chr11:73425036-73428477	NOTEST	0	0
Olfr38	chr6:42762053-42763007	NOTEST	0	0

Olfr380	chr11:73453274-73454210	NOTEST	0	0
Olfr381	chr11:73485886-73486822	NOTEST	0	0
Olfr382	chr11:73516258-73517197	NOTEST	0	0
Olfr384	chr11:73602581-73603520	NOTEST	0	0
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Olfr389	chr11:73776386-73780589	NOTEST	0	0
Olfr39	chr9:20282350-20286648	NOTEST	0	0
Olfr390	chr11:73786939-73787875	NOTEST	0	0
Olfr391-ps	chr11:73798752-73802984	NOTEST	0	0
Olfr392	chr11:73814141-73816877	NOTEST	0	0
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Olfr402	chr11:74155155-74156103	NOTEST	0	0
Olfr403	chr11:74195504-74196446	NOTEST	0	0
Olfr406	chr11:74269390-74270362	NOTEST	0	0
Olfr410	chr11:74334281-74335229	NOTEST	0	0
Olfr411	chr11:74346623-74347672	NOTEST	0	0
Olfr412	chr11:74364670-74365609	NOTEST	0	0
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Olfr418-ps1	chr1:173270146-173271137	NOTEST	0	0
Olfr420	chr1:174158721-174159767	NOTEST	0	0
Olfr426	chr1:174099459-174100410	NOTEST	0	0
Olfr427	chr1:174099459-174100410	LOWDAT	0	0
Olfr429	chr1:174089037-174089980	NOTEST	0	0
Olfr43	chr11:74206197-74207289	NOTEST	0	0
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Olfr432	chr1:174050374-174051313	NOTEST	0	0
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Olfr434	chr6:43216914-43217880	NOTEST	0	0
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Olfr44	chr9:39484203-39493988	NOTEST	0	0
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Olfr464	chr11:87913919-87915003	NOTEST	0	0
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Olfr47	chr6:43235609-43236575	NOTEST	0	0
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Olfr5	chr7:6480215-6486813	NOTEST	0	0
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Olfr544	chr7:102484113-102488307	NOTEST	0	0
Olfr545	chr7:102493822-102494773	NOTEST	0	0
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Olfr549	chr7:102554285-102555236	NOTEST	0	0
Olfr55	chr17:33176415-33177363	NOTEST	0	0
Olfr551	chr7:102587740-102588819	NOTEST	0	0
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Olfr970	chr9:39819640-39820576	NOTEST	0	0
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Olfr972	chr9:39873276-39874221	NOTEST	0	0
Olfr974	chr9:39942261-39943194	NOTEST	0	0
Olfr975	chr9:39949836-39950769	NOTEST	0	0
Olfr976	chr9:39954256-39957069	NOTEST	0	0
Olfr978	chr9:39993811-39994747	NOTEST	0	0
Olfr979	chr9:40000205-40001250	NOTEST	0	0
Olfr98	chr17:37262732-37263662	NOTEST	0	0
Olfr980	chr9:40005993-40007029	NOTEST	0	0
Olfr981	chr9:40022394-40023327	NOTEST	0	0
Olfr982	chr9:40074296-40075262	NOTEST	0	0
Olfr983	chr9:40092016-40093558	NOTEST	0	0
Olfr984	chr9:40100543-40101488	NOTEST	0	0

Olfr985	chr9:40126923-40128039	NOTEST	0	0
Olfr986	chr9:40187078-40188094	NOTEST	0	0
Olfr987	chr2:85330966-85331896	NOTEST	0	0
Olfr988	chr2:85352994-85353924	NOTEST	0	0
Olfr99	chr17:37279500-37280418	NOTEST	0	0
Olfr992	chr2:85399601-85400531	NOTEST	0	0
Olfr993	chr2:85413932-85414877	NOTEST	0	0
Olfr994	chr2:85429882-85430827	NOTEST	0	0
Olfr995	chr2:85438208-85439156	NOTEST	0	0
Olfr996	chr2:85579214-85580282	NOTEST	0	0
Olfr998	chr2:85590509-85591521	NOTEST	0	0
Omt2a	chr9:78311971-78314797	NOTEST	0	0
Omt2b	chr9:78328029-78329620	NOTEST	0	0
Oog1	chr12:87602664-87608850	LOWDATA	0	0
Oog2	chr4:144190716-144196934	NOTEST	0	0
Oog3	chr4:144157555-144162651	NOTEST	0	0
Oog4	chr4:143437163-143450302	NOTEST	0	0
Oosp1	chr19:11667459-11691051	NOTEST	0	0
Oosp2	chr19:11647283-11660559	NOTEST	0	0
Oosp3	chr19:11697054-11711858	NOTEST	0	0
Opalin	chr19:41063419-41077113	NOTEST	0	0
Orm1	chr4:63344565-63348162	NOTEST	0	0
Orm2	chr4:63362448-63365877	NOTEST	0	0
Otc	chrX:10252358-10321024	NOTEST	0	0
Otor	chr2:143078491-143081699	NOTEST	0	0
Ott	chrX:149088314-149305003	NOTEST	0	0
Otud6a	chrX:100402221-100442717	NOTEST	0	0
Otx1	chr11:21994763-22001651	NOTEST	0	0
Otx2	chr14:48657676-48667644	NOTEST	0	0
Otx2os1	chr14:48669287-48793348	NOTEST	0	0
Ovch2	chr7:107781543-107801179	NOTEST	0	0
Ovol1	chr19:5549136-5560575	NOTEST	0	0
Oxct2b	chr4:123105164-123126091	NOTEST	0	0
Oxt	chr2:130576168-130577053	NOTEST	0	0
P2ry4	chrX:100590153-100594869	NOTEST	0	0
Pabpc2	chr18:39773496-39776082	NOTEST	0	0
Pabpc6	chr17:9666496-9669704	NOTEST	0	0
Pabpn1l	chr8:122619470-122622735	NOTEST	0	0
Padi6	chr4:140727354-140742643	NOTEST	0	0
Pate4	chr9:35607092-35611885	NOTEST	0	0
Paupar	chr2:105536079-105697364	NOTEST	0	0
Pax4	chr6:28442333-28449340	NOTEST	0	0
Pax6	chr2:105536079-105697364	NOTEST	0	0
Pax6os1	chr2:105536079-105697364	NOTEST	0	0
Pbp2	chr6:135309128-135310384	NOTEST	0	0
Pbsn	chrX:77837897-77853500	NOTEST	0	0
Pcdha4-g	chr18:36930284-37841872	NOTEST	0	0
Pcdhb1	chr18:36930284-37841872	NOTEST	0	0
Pcp2	chr8:3621550-3625545	NOTEST	0	0
Pcsk2os2	chr2:143535475-143816282	NOTEST	0	0
Pdc	chr1:150319416-150346771	NOTEST	0	0
Pdcd1	chr1:94038304-94052553	NOTEST	0	0
Pdcl2	chr5:76183879-76469519	NOTEST	0	0

Pdha2	chr3:141210003-141212355	NOTEST	0	0
Pdx1	chr5:147228597-147275149	NOTEST	0	0
Pea15b	chr5:77511194-77511748	NOTEST	0	0
Pebp4	chr14:69840406-70059918	NOTEST	0	0
Peril	chr3:34772074-34782346	NOTEST	0	0
Pet2	chrX:89403847-89409689	NOTEST	0	0
Pfn3	chr13:55399647-55415232	NOTEST	0	0
Pfpl	chr19:12427904-12432110	NOTEST	0	0
Pga5	chr19:10668956-10678071	NOTEST	0	0
Pgc	chr17:47726841-47734478	NOTEST	0	0
Pgk2	chr17:40207017-40208609	NOTEST	0	0
Pglyrp3	chr3:92014582-92031584	NOTEST	0	0
Phgr1	chr2:118772768-118778164	NOTEST	0	0
Phox2a	chr7:101818312-101838226	NOTEST	0	0
Phox2b	chr5:67094396-67099126	NOTEST	0	0
Pih1d3	chr1:31222838-31224287	NOTEST	0	0
Pinc	chr1:73391384-73430779	NOTEST	0	0
Pinlyp	chr7:24541657-24546005	NOTEST	0	0
Pip	chr6:41847548-41852062	NOTEST	0	0
Pitpnm2os1	chr5:124118688-124249760	NOTEST	0	0
Pitx1	chr13:55825053-55831425	NOTEST	0	0
Pitx2	chr3:129199877-129219594	NOTEST	0	0
Pla2g10	chr16:13715056-13739471	NOTEST	0	0
Pla2g10os	chr16:13715056-13739471	NOTEST	0	0
Pla2g1b	chr5:115466265-115474717	NOTEST	0	0
Pla2g2a	chr4:138799246-138863469	NOTEST	0	0
Pla2g2e	chr4:138877941-138882814	NOTEST	0	0
Pla2g2f	chr4:138750532-138757598	NOTEST	0	0
Pldi	chr10:60928225-60938132	NOTEST	0	0
Plet1os	chr9:50488798-50505639	NOTEST	0	0
Plin5	chr17:56111600-56117548	NOTEST	0	0
Pmch	chr10:88091071-88146941	NOTEST	0	0
Pmis2	chr7:30670721-30671605	NOTEST	0	0
Pnliprp1	chr19:58728886-58744169	NOTEST	0	0
Pnmt	chr11:98386631-98388097	NOTEST	0	0
Pnpla1	chr17:28858410-28890308	NOTEST	0	0
Pom121l12	chr11:14599239-14600316	NOTEST	0	0
Pom121l2	chr13:21981180-21988734	NOTEST	0	0
Poteg	chr8:27447669-27495172	NOTEST	0	0
Pou5f1	chr17:35506031-35510777	NOTEST	0	0
Ppp1r17	chr6:56017514-56032688	NOTEST	0	0
Ppp1r2-ps7	chrX:22461595-22463543	NOTEST	0	0
Ppp1r2-ps9	chrX:15110585-15111489	NOTEST	0	0
Ppp1r27	chr11:120549974-120551132	NOTEST	0	0
Ppp2r2cos	chr5:36868569-36955078	NOTEST	0	0
Ppy	chr11:102099930-102101300	NOTEST	0	0
Prame	chrX:135613001-135627705	NOTEST	0	0
Pramef12	chr4:144391673-144408464	NOTEST	0	0
Pramef17	chr4:143991126-143994369	NOTEST	0	0
Pramef25	chr4:143948182-143951016	NOTEST	0	0
Pramef6	chr4:143894236-143900380	NOTEST	0	0
Pramel1	chr4:143394440-143399819	NOTEST	0	0
Pramel3	chrX:135302315-135312636	NOTEST	0	0

Pramel4	chr4:144059125-144069318	NOTEST	0	0
Pramel5	chr4:144270632-144280466	NOTEST	0	0
Pramel6	chr2:87508457-87510865	NOTEST	0	0
Prap1	chr7:140093395-140097203	NOTEST	0	0
Prb1	chr6:132114220-132364135	NOTEST	0	0
Prdm13	chr4:21677479-21685963	NOTEST	0	0
Prdm14	chr1:13113427-13127163	NOTEST	0	0
Prdx6b	chr2:80292469-80295358	NOTEST	0	0
Prh1	chr6:132569841-132572401	NOTEST	0	0
Prkag2os1	chr5:24862734-25100642	NOTEST	0	0
Prl	chr13:27057569-27065203	NOTEST	0	0
Prl2a1	chr13:27801654-27808716	NOTEST	0	0
Prl2b1	chr13:27383344-27390846	NOTEST	0	0
Prl2c1	chr13:27849341-27857708	NOTEST	0	0
Prl2c2	chr13:12996123-13005330	NOTEST	0	0
Prl2c3,Prl2c4	chr13:12790817-12800079	NOTEST	0	0
Prl2c4	chr13:12790817-12800079	NOTEST	0	0
Prl2c5	chr13:13182781-13191840	NOTEST	0	0
Prl3a1	chr13:27259488-27276660	NOTEST	0	0
Prl3b1	chr13:27242429-27249740	NOTEST	0	0
Prl3c1	chr13:27196659-27203750	NOTEST	0	0
Prl3d1	chr13:27094188-27100260	NOTEST	0	0
Prl3d2	chr13:27121703-27127482	NOTEST	0	0
Prl3d3	chr13:27156798-27162520	NOTEST	0	0
Prl4a1	chr13:28016222-28023546	NOTEST	0	0
Prl5a1	chr13:28142483-28151595	NOTEST	0	0
Prl6a1	chr13:27312626-27319252	NOTEST	0	0
Prl7a2	chr13:27658583-27668036	NOTEST	0	0
Prl7b1	chr13:27601818-27610582	NOTEST	0	0
Prl7c1	chr13:27773494-27780804	NOTEST	0	0
Prl7d1	chr13:27708997-27716737	NOTEST	0	0
Prl8a1	chr13:27573921-27582171	NOTEST	0	0
Prl8a2	chr13:27345672-27354215	NOTEST	0	0
Prl8a6	chr13:27432680-27438688	NOTEST	0	0
Prl8a8	chr13:27507071-27513213	NOTEST	0	0
Prl8a9	chr13:27558000-27564604	NOTEST	0	0
Prlh	chr1:90953107-90954012	NOTEST	0	0
Prlhr	chr19:60466732-60468304	NOTEST	0	0
Prm1	chr16:10796331-10796823	NOTEST	0	0
Prm2	chr16:10791380-10792097	NOTEST	0	0
Prm3	chr16:10790507-10790914	NOTEST	0	0
Prn	chr2:131909927-131956131	NOTEST	0	0
Prodh2	chr7:30493657-30513402	NOTEST	0	0
Prok1	chr3:107235530-107239707	NOTEST	0	0
Prol1	chr5:88317311-88328817	NOTEST	0	0
Prop1	chr11:50950805-50953632	NOTEST	0	0
Prp2	chr6:132595945-132600702	NOTEST	0	0
Prpmp5	chr6:132114220-132364135	NOTEST	0	0
Prps1l1	chr12:34984760-34986436	NOTEST	0	0
Prr23a	chr9:98842586-98843645	NOTEST	0	0
Prr27	chr5:87825696-87846386	NOTEST	0	0
Prr30	chr14:101197689-101200069	NOTEST	0	0
Prr9	chr3:92122203-92123947	NOTEST	0	0

Prss1	chr6:41458929-41463786	NOTEST	0	0
Prss16	chr13:22002175-22009741	NOTEST	0	0
Prss2	chr6:41521775-41525079	NOTEST	0	0
Prss21	chr17:23868071-23873113	NOTEST	0	0
Prss22	chr17:23993533-23998100	NOTEST	0	0
Prss28	chr17:25308645-25311876	NOTEST	0	0
Prss29	chr17:25318653-25322684	NOTEST	0	0
Prss3	chr6:41373758-41377613	NOTEST	0	0
Prss30	chr17:23972126-23975230	NOTEST	0	0
Prss33	chr17:23833360-23835767	NOTEST	0	0
Prss37	chr6:40514823-40519508	NOTEST	0	0
Prss39	chr1:34498429-34503062	NOTEST	0	0
Prss40	chr1:34552330-34560943	NOTEST	0	0
Prss42	chr9:110798184-110803744	NOTEST	0	0
Prss43	chr9:110826689-110831504	NOTEST	0	0
Prss46	chr9:110844505-110856522	NOTEST	0	0
Prss48	chr3:85993809-86002491	NOTEST	0	0
Prss51	chr14:64093695-64097672	NOTEST	0	0
Prss52	chr14:64104322-64113751	NOTEST	0	0
Prss54	chr8:95559291-95575197	NOTEST	0	0
Prss55	chr14:64075442-64085389	NOTEST	0	0
Prss56	chr1:87183492-87188404	NOTEST	0	0
Prss58	chr6:40529090-40910666	NOTEST	0	0
Prss8	chr7:127912516-127930113	NOTEST	0	0
Pzca	chr15:74714838-74717065	NOTEST	0	0
Psg-ps1	chr7:17672312-17682060	NOTEST	0	0
Psg18	chr7:18345807-18355007	NOTEST	0	0
Psg20	chr7:18674365-18685992	NOTEST	0	0
Psg21	chr7:18646653-18656725	NOTEST	0	0
Psg22	chr7:18718089-18727248	NOTEST	0	0
Psg23	chr7:18606342-18616501	NOTEST	0	0
Psg25	chr7:18519701-18532227	NOTEST	0	0
Psg26	chr7:18474581-18484149	NOTEST	0	0
Psg27	chr7:18556513-18567305	NOTEST	0	0
Psg28	chr7:18422535-18432055	NOTEST	0	0
Psg29	chr7:17203476-17215756	NOTEST	0	0
Psors1c2	chr17:35533200-35534648	NOTEST	0	0
Ptchd3	chr11:121830217-121843436	NOTEST	0	0
Ptf1a	chr2:19445662-19447501	NOTEST	0	0
Pth	chr7:113385575-113388573	NOTEST	0	0
Pth2	chr7:45180994-45181838	NOTEST	0	0
Ptprt0s	chr2:161521987-162661147	NOTEST	0	0
Ptx4	chr17:25120759-25125268	NOTEST	0	0
Pxt1	chr17:28933985-28942262	NOTEST	0	0
Pyy	chr11:102106675-102107776	NOTEST	0	0
R3hdml	chr2:163492317-163541721	NOTEST	0	0
Rab11fip4os1	chr11:79591211-79694012	NOTEST	0	0
Rab11fip4os2	chr11:79591211-79694012	NOTEST	0	0
Raet1a,Raet1b	chr10:22158608-22374139	NOTEST	0	0
Rag2	chr2:101560780-101632528	NOTEST	0	0
Rax	chr18:65934638-65939089	NOTEST	0	0
Rbakdn	chr5:143164778-143165751	NOTEST	0	0
Rbbp8nl	chr2:180277645-180289879	NOTEST	0	0

Rbm31y	chrY:17400760-17402718	NOTEST	0	0
Rbm46os	chr3:82876704-82943638	NOTEST	0	0
Rbmx12	chr7:107209444-107210916	NOTEST	0	0
Rbmy	chrY:3771672-3783271	NOTEST	0	0
Rbp3	chr14:33954021-33964216	NOTEST	0	0
Rcvrn	chr11:67695325-67703355	NOTEST	0	0
Rd3l	chr12:111971558-112068854	NOTEST	0	0
Rdh16	chr10:127801152-127815839	NOTEST	0	0
Rdh19	chr10:127849927-127861176	NOTEST	0	0
Rdh8	chr9:20818503-20826163	NOTEST	0	0
Reg1	chr6:78425982-78428666	NOTEST	0	0
Reg2	chr6:78405154-78408097	NOTEST	0	0
Reg3a	chr6:78380708-78383839	NOTEST	0	0
Reg3d	chr6:78375873-78378865	NOTEST	0	0
Reg3g	chr6:78466267-78468874	NOTEST	0	0
Retn	chr8:3655769-3659818	NOTEST	0	0
Retnlb	chr16:48816855-48818892	NOTEST	0	0
Rfpl3s	chr9:55962588-55980932	NOTEST	0	0
Rfpl4	chr7:5109786-5116911	NOTEST	0	0
Rfpl4b	chr10:38820540-38821779	NOTEST	0	0
Rfx6	chr10:51677759-51730429	NOTEST	0	0
Rgr	chr14:37037489-37048964	NOTEST	0	0
Rgs21	chr1:144519689-144567667	NOTEST	0	0
Rhbd12	chr4:123787874-123829904	NOTEST	0	0
Rhbg	chr3:88242873-88254684	NOTEST	0	0
Rhox1	chrX:37213804-37222258	NOTEST	0	0
Rhox10	chrX:38066474-38071688	NOTEST	0	0
Rhox11	chrX:38076597-38085139	NOTEST	0	0
Rhox12	chrX:38104061-38110907	NOTEST	0	0
Rhox13	chrX:38120839-38129966	NOTEST	0	0
Rhox2a	chrX:37244991-37249690	NOTEST	0	0
Rhox2b	chrX:37412104-37416806	NOTEST	0	0
Rhox2c	chrX:37453658-37458375	NOTEST	0	0
Rhox2d	chrX:37493409-37497715	NOTEST	0	0
Rhox2e	chrX:37530467-37541809	NOTEST	0	0
Rhox2f	chrX:37571420-37576159	NOTEST	0	0
Rhox2g	chrX:37639111-37643470	NOTEST	0	0
Rhox2h	chrX:37668996-37673277	NOTEST	0	0
Rhox3a,Rhox3e	chrX:37249918-37258978	NOTEST	0	0
Rhox3c	chrX:37469867-37473961	NOTEST	0	0
Rhox3e	chrX:37546974-37550897	NOTEST	0	0
Rhox3f	chrX:37581351-37585496	NOTEST	0	0
Rhox3g	chrX:37623430-37628139	NOTEST	0	0
Rhox3h	chrX:37657687-37668764	NOTEST	0	0
Rhox4a	chrX:37390863-37395620	NOTEST	0	0
Rhox4b	chrX:37432493-37437278	NOTEST	0	0
Rhox4c	chrX:37480336-37485124	NOTEST	0	0
Rhox4d	chrX:37514534-37519175	NOTEST	0	0
Rhox4e	chrX:37557411-37562282	NOTEST	0	0
Rhox4f	chrX:37602894-37607686	NOTEST	0	0
Rhox4g	chrX:37646500-37651327	NOTEST	0	0
Rhox6	chrX:37827054-37829857	NOTEST	0	0
Rhox7	chrX:37831685-37841171	NOTEST	0	0

Rhox9	chrX:37899096-37901770	NOTEST	0	0
Rln3	chr8:84043066-84044979	NOTEST	0	0
Rmst	chr10:92081745-92165178	NOTEST	0	0
Rn4.5s	chr6:47752751-47752925	NOTEST	0	0
Rnase1	chr14:51145001-51146767	NOTEST	0	0
Rnase11	chr14:51049450-51050163	NOTEST	0	0
Rnase12	chr14:51056697-51057242	NOTEST	0	0
Rnase13	chr14:51922159-51922773	NOTEST	0	0
Rnase2a	chr14:51255261-51256112	NOTEST	0	0
Rnase2b	chr14:51162259-51163018	NOTEST	0	0
Rnase9	chr14:51038458-51041867	NOTEST	0	0
Rnf133	chr6:23262773-23839421	NOTEST	0	0
Rnf148	chr6:23262773-23839421	NOTEST	0	0
Rnf151	chr17:24715839-24718057	NOTEST	0	0
Rnf183	chr4:62427541-62434726	NOTEST	0	0
Rnf186	chr4:138967111-138968366	NOTEST	0	0
Rnf224	chr2:25234475-25236787	NOTEST	0	0
Rnu11	chr4:132270078-132270186	NOTEST	0	0
Rnu6	chr19:14438479-14438506	NOTEST	0	0
Rnu7	chr5:53698484-53707704	LOWDAT	0	0
Rnu73b	chr3:86137939-86142668	NOTEST	0	0
Rp11l	chr14:63992430-64033506	NOTEST	0	0
Rpl10l	chr12:66283378-66284401	NOTEST	0	0
Rpl34-ps1	chr3:130726826-130730398	LOWDAT	0	0
Rpr1	chr6:69326936-69327174	NOTEST	0	0
Rpr2	chr3:22251369-22251607	NOTEST	0	0
Rpr3	chr8:3803124-3803361	NOTEST	0	0
Rps27rt	chr3:90212666-90213648	LOWDAT	0	0
Rptn	chr3:93393698-93399442	NOTEST	0	0
Rptoros	chr11:119602994-119899591	NOTEST	0	0
Rsph6a	chr7:19054686-19074447	NOTEST	0	0
Rxfp4	chr3:88651897-88653142	NOTEST	0	0
S100a2	chr3:90590246-90591508	NOTEST	0	0
Saa3	chr7:46711997-46715676	NOTEST	0	0
Saa4	chr7:46727998-46732543	NOTEST	0	0
Sall3	chr18:80966373-80986578	NOTEST	0	0
Samd7	chr3:30746292-30767174	NOTEST	0	0
Samt2	chrX:154575227-154579330	NOTEST	0	0
Samt3	chrX:86044198-86047313	NOTEST	0	0
Samt4	chrX:154482001-154484682	NOTEST	0	0
Satl1	chrX:112384304-112406779	NOTEST	0	0
Sbp	chr17:23941995-23945607	NOTEST	0	0
Sbpl	chr17:23953084-23955273	NOTEST	0	0
Scarletltr	chr9:64080760-64088045	NOTEST	0	0
Scarna10	chr6:125168006-125191586	NOTEST	0	0
Scarna17	chr18:74778393-74778455	NOTEST	0	0
Scarna2	chr3:108554341-108554402	NOTEST	0	0
Scarna3a	chr1:159232325-159347580	NOTEST	0	0
Scarna3b	chr12:80335846-80436601	NOTEST	0	0
Scarna6	chr1:87756010-87792428	NOTEST	0	0
Scarna8	chr4:86581284-86612022	NOTEST	0	0
Scarna9	chr9:15283336-15357788	NOTEST	0	0
Scgb1b19	chr7:33287306-33288491	NOTEST	0	0

Scgb1b2	chr7:31290518-31291816	NOTEST	0	0
Scgb1b20	chr7:33373233-33374558	NOTEST	0	0
Scgb1b24	chr7:33743798-33745103	NOTEST	0	0
Scgb1b27	chr7:34021566-34022881	NOTEST	0	0
Scgb1b29	chr7:32441540-32442844	NOTEST	0	0
Scgb1b3	chr7:31375591-31376916	NOTEST	0	0
Scgb1b30	chr7:34095430-34100837	NOTEST	0	0
Scgb1b7	chr7:31712664-31713980	NOTEST	0	0
Scgb1c1	chr7:140835495-140846769	NOTEST	0	0
Scgb2b12	chr7:32325285-32327245	NOTEST	0	0
Scgb2b15	chr7:32827682-32829653	NOTEST	0	0
Scgb2b17	chr7:33054581-33056552	NOTEST	0	0
Scgb2b19	chr7:33278365-33280341	NOTEST	0	0
Scgb2b2	chr7:31302768-31304977	NOTEST	0	0
Scgb2b20	chr7:33364342-33366319	NOTEST	0	0
Scgb2b23-ps	chr7:33625144-33653281	NOTEST	0	0
Scgb2b24	chr7:33737192-33739295	NOTEST	0	0
Scgb2b26	chr7:33942996-33944985	NOTEST	0	0
Scgb2b27	chr7:34011918-34013942	NOTEST	0	0
Scgb2b3	chr7:31359037-31362072	NOTEST	0	0
Scgb2b7	chr7:31703778-31705754	NOTEST	0	0
Scgb3a2	chr18:43764300-43767399	NOTEST	0	0
Scp2d1	chr2:144823665-144824415	NOTEST	0	0
Scpep1os	chr11:88905927-88955442	NOTEST	0	0
Sctr	chr1:120006979-120063532	NOTEST	0	0
Sdr16c5	chr4:3995941-4019663	NOTEST	0	0
Sdr16c6	chr4:4056665-4077514	NOTEST	0	0
Sds	chr5:120476546-120503623	NOTEST	0	0
Sec14i3	chr11:4064852-4078990	NOTEST	0	0
39691	chr16:4986857-4997852	NOTEST	0	0
40421	chr5:129683390-129708511	NOTEST	0	0
Serpina1f	chr12:103688043-103695529	NOTEST	0	0
Serpina3a	chr12:104112723-104121896	NOTEST	0	0
Serpina3b	chr12:104127995-104139545	NOTEST	0	0
Serpina3j	chr12:104314569-104320586	NOTEST	0	0
Serpina4-ps1	chr12:104077958-104086920	NOTEST	0	0
Serpina6	chr12:103646631-103657071	NOTEST	0	0
Serpina7	chrX:139079249-139085236	NOTEST	0	0
Serpina11	chr1:107362313-107380475	NOTEST	0	0
Serpina13	chr1:106980983-107001195	NOTEST	0	0
Serpina3b	chr1:107153960-107161114	NOTEST	0	0
Serpina3c	chr1:107271200-107278371	NOTEST	0	0
Serpina3d	chr1:107078192-107083480	NOTEST	0	0
Serpina6d	chr13:33661404-33671585	NOTEST	0	0
Serpina9c	chr13:33149274-33159754	NOTEST	0	0
Serpina9d	chr13:33192958-33203980	NOTEST	0	0
Serpina9e	chr13:33249609-33260846	NOTEST	0	0
Serpina9f	chr13:33324076-33335366	NOTEST	0	0
Serpina9g	chr13:33484789-33496000	NOTEST	0	0
Serpini2	chr3:75242356-75270078	NOTEST	0	0
Sftpd	chr14:41172211-41185198	NOTEST	0	0
Sh2d1b2	chr1:170232870-170251587	NOTEST	0	0
Shbg	chr11:69614815-69617905	NOTEST	0	0

Siglec15	chr18:78043613-78057268	NOTEST	0	0
Sim1	chr10:50895650-50989152	NOTEST	0	0
Sim2	chr16:94085259-94127032	NOTEST	0	0
Skint1	chr4:112006268-112029538	NOTEST	0	0
Skint10	chr4:112710829-112774861	NOTEST	0	0
Skint11	chr4:114163383-114245028	NOTEST	0	0
Skint2	chr4:112613739-112652248	NOTEST	0	0
Skint4	chr4:112081469-112168076	NOTEST	0	0
Skint5	chr4:113477890-113999503	NOTEST	0	0
Skint6	chr4:112804615-113286973	NOTEST	0	0
Skint7	chr4:111972926-111988221	NOTEST	0	0
Skint9	chr4:112385968-112433985	NOTEST	0	0
Slain1os	chr14:103650242-103704799	NOTEST	0	0
Slc10a1	chr12:80953184-80968079	NOTEST	0	0
Slc13a2os	chr11:78394484-78422185	NOTEST	0	0
Slc16a8	chr15:79251015-79254748	NOTEST	0	0
Slc17a1	chr13:23870272-23895730	NOTEST	0	0
Slc17a2	chr13:23807026-23823525	NOTEST	0	0
Slc17a3	chr13:23839433-23860714	NOTEST	0	0
Slc22a14	chr9:119169455-119190393	NOTEST	0	0
Slc22a16	chr10:40570361-40604132	NOTEST	0	0
Slc22a19	chr19:7673075-7711310	NOTEST	0	0
Slc22a20	chr19:5970233-5986143	NOTEST	0	0
Slc22a26	chr19:7781980-7802667	NOTEST	0	0
Slc22a27	chr19:7864388-7966027	NOTEST	0	0
Slc22a28	chr19:8062208-8131982	NOTEST	0	0
Slc22a30	chr19:8335622-8405105	NOTEST	0	0
Slc23a1	chr18:35598666-35627227	NOTEST	0	0
Slc25a41	chr17:57032771-57041654	NOTEST	0	0
Slc25a54	chr3:109080498-109116582	NOTEST	0	0
Slc26a9	chr1:131744021-131770405	NOTEST	0	0
Slc28a3	chr13:58553307-58610877	NOTEST	0	0
Slc2a7	chr4:150148971-150168482	NOTEST	0	0
Slc30a3	chr5:30933142-31348845	NOTEST	0	0
Slc34a1	chr13:55399647-55415232	NOTEST	0	0
Slc34a3	chr2:25228896-25234234	NOTEST	0	0
Slc35g3	chr11:69759885-69761844	NOTEST	0	0
Slc36a3	chr11:55124822-55151706	NOTEST	0	0
Slc51b	chr9:65398487-65422773	NOTEST	0	0
Slc5a12	chr2:110597298-110649345	NOTEST	0	0
Slc6a14	chrX:21714899-21742357	NOTEST	0	0
Slc6a19os	chr13:73681156-73709856	NOTEST	0	0
Slc6a3	chr13:73536746-73578672	NOTEST	0	0
Slc7a12	chr3:14480698-14505818	NOTEST	0	0
Slc7a9	chr7:35449091-35466034	NOTEST	0	0
Slc9c1	chr16:45535265-45607001	NOTEST	0	0
Slco1a1	chr6:141907280-141946962	NOTEST	0	0
Slco1b2	chr6:141629517-141686635	NOTEST	0	0
Slco6b1	chr1:96906175-96997560	NOTEST	0	0
Slco6d1	chr1:98421123-98509380	NOTEST	0	0
Sln	chr9:53850250-53853849	NOTEST	0	0
Slx	chrX:26522656-26545565	NOTEST	0	0

Slxl1	chrX:55226875-55243736	NOTEST	0	0
Sly	chrY:75195855-75222053	NOTEST	0	0
Smc1b	chr15:85064688-85131957	NOTEST	0	0
Smcp	chr3:92583865-92589024	NOTEST	0	0
Smgc	chr15:91838325-91934555	NOTEST	0	0
Smim23	chr11:32820375-32824594	NOTEST	0	0
Smlr1	chr10:25527942-25536272	NOTEST	0	0
Smok2a	chr17:13221187-13227658	NOTEST	0	0
Smok2b	chr17:13230262-13237189	NOTEST	0	0
Smok3a	chr5:138021275-138034665	NOTEST	0	0
Smok3b	chr5:138037223-138050633	NOTEST	0	0
Smok4a	chr17:13487020-13554094	NOTEST	0	0
Smr3a	chr5:88002524-88008534	NOTEST	0	0
Snora15	chr5:129787355-129846443	NOTEST	0	0
Snora17	chr2:26637175-26640244	NOTEST	0	0
Snora19	chr19:60761115-60790693	LOWDAT	0	0
Snora20	chr17:12916328-12940396	NOTEST	0	0
Snora21	chr11:97777525-97782439	NOTEST	0	0
Snora24	chr3:123507551-123508336	LOWDAT	0	0
Snora26	chr5:74093082-74094336	LOWDAT	0	0
Snora2b	chr15:98517657-98534269	NOTEST	0	0
Snora3	chr7:109519194-109522369	NOTEST	0	0
Snora30	chr7:127527896-127528003	NOTEST	0	0
Snora31	chr14:75845255-75848303	NOTEST	0	0
Snora33	chr10:23785182-23787209	NOTEST	0	0
Snora34	chr15:98517657-98534269	NOTEST	0	0
Snora35	chrX:146962512-147197277	NOTEST	0	0
Snora36b	chr1:185204167-185329401	NOTEST	0	0
Snora41	chr1:63176830-63180486	NOTEST	0	0
Snora43	chr2:26637175-26640244	NOTEST	0	0
Snora44	chr4:132308677-132311024	NOTEST	0	0
Snora47	chr13:95325236-95337841	NOTEST	0	0
Snora52	chr7:141447649-141451342	NOTEST	0	0
Snora5c	chr11:6615597-6626067	NOTEST	0	0
Snora61	chr4:132308677-132311024	NOTEST	0	0
Snora62	chr9:120127765-120132369	NOTEST	0	0
Snora68	chr8:70894721-70897443	NOTEST	0	0
Snora69	chrX:37082519-37085184	NOTEST	0	0
Snora75	chr1:86344718-86359455	NOTEST	0	0
Snora78	chr17:24719530-24719965	NOTEST	0	0
Snora81	chr16:23107467-23127730	NOTEST	0	0
Snord100	chr10:23785182-23787209	NOTEST	0	0
Snord104	chr11:106500990-106501063	NOTEST	0	0
Snord11	chr1:59685005-59711510	NOTEST	0	0
Snord110	chr2:130274411-130284451	NOTEST	0	0
Snord111	chr8:110810491-110846803	NOTEST	0	0
Snord116	chr7:59716060-59716150	NOTEST	0	0
Snord116i1	chr7:59700879-59700969	NOTEST	0	0
Snord116i2	chr7:59619157-59678878	NOTEST	0	0
Snord118	chr19:7417624-7483291	NOTEST	0	0
Snord12	chr2:167035795-167065862	NOTEST	0	0
Snord123	chr15:32240567-32244662	NOTEST	0	0
Snord14a	chr2:32775820-32784405	NOTEST	0	0

Snord14c	chr10:46244747-46244770	LOWDAT	0	0
Snord14d	chr10:46244747-46244770	NOTEST	0	0
Snord15a	chr7:99477896-99483709	NOTEST	0	0
Snord16a	chr9:64173386-64178562	NOTEST	0	0
Snord17	chr2:144250123-144270902	NOTEST	0	0
Snord19	chr14:30999825-31019131	NOTEST	0	0
Snord1a	chr11:116671659-116675798	LOWDAT	0	0
Snord1b	chr11:116671659-116675798	NOTEST	0	0
Snord1c	chr11:116671659-116675798	NOTEST	0	0
Snord2	chr16:23107467-23127730	NOTEST	0	0
Snord23	chr7:15937835-15946108	NOTEST	0	0
Snord32a	chr7:45125562-45128745	NOTEST	0	0
Snord33	chr7:45125562-45128745	NOTEST	0	0
Snord34	chr7:45125562-45128745	NOTEST	0	0
Snord35a	chr7:45125562-45128745	NOTEST	0	0
Snord35b	chr7:45122387-45124389	NOTEST	0	0
Snord37	chr10:81176630-81182509	NOTEST	0	0
Snord38a	chr4:117153835-117156132	NOTEST	0	0
Snord42a	chr11:78180935-78183584	NOTEST	0	0
Snord42b	chr11:78180935-78183584	NOTEST	0	0
Snord43	chr15:80077780-80083406	NOTEST	0	0
Snord45b	chr3:153907288-153912966	NOTEST	0	0
Snord45c	chr3:153907288-153912966	LOWDAT	0	0
Snord47	chr1:161035165-161038537	NOTEST	0	0
Snord49a	chr11:62602876-62604806	NOTEST	0	0
Snord49b	chr11:62602876-62604806	NOTEST	0	0
Snord4a	chr11:78180935-78183584	NOTEST	0	0
Snord52	chr17:34950235-34952471	NOTEST	0	0
Snord53	chr7:110848295-110848315	NOTEST	0	0
Snord55	chr4:117153835-117156132	NOTEST	0	0
Snord57	chr2:130274411-130284451	NOTEST	0	0
Snord58b	chr18:75000476-75003381	NOTEST	0	0
Snord61	chrX:57383347-57393036	NOTEST	0	0
Snord64	chr7:59978810-59978856	NOTEST	0	0
Snord65	chr11:62602876-62604806	NOTEST	0	0
Snord66	chr16:20672748-20692883	NOTEST	0	0
Snord67	chr2:91546321-91620665	NOTEST	0	0
Snord68	chr8:123102349-123105242	NOTEST	0	0
Snord69	chr14:30999825-31019131	NOTEST	0	0
Snord7	chr11:83291698-83298977	LOWDAT	0	0
Snord70	chr1:59685005-59711510	NOTEST	0	0
Snord71	chr8:109778639-109864208	NOTEST	0	0
Snord72	chr15:5116612-5119140	NOTEST	0	0
Snord73a	chr3:86137939-86142668	NOTEST	0	0
Snord8	chr14:52198150-52237572	NOTEST	0	0
Snord82	chr1:86344718-86359455	NOTEST	0	0
Snord83b	chr15:80077780-80083406	NOTEST	0	0
Snord85	chr4:130663358-130781565	NOTEST	0	0
Snord87	chr1:9942024-9944118	NOTEST	0	0
Snord88a	chr7:44246721-44252319	NOTEST	0	0
Snord88c	chr7:44246721-44252319	NOTEST	0	0
Snord89	chr1:39548746-39548840	NOTEST	0	0
Snord90	chr2:37370070-37422903	NOTEST	0	0

Snord91a	chr11:74898079-74925798	NOTEST	0	0
Snord92	chr17:71616214-71659031	NOTEST	0	0
Snord93	chr5:23787743-24161231	NOTEST	0	0
Snord95	chr11:48800359-48806241	NOTEST	0	0
Snord96a	chr11:48800359-48806241	NOTEST	0	0
Snord98	chr10:62743927-62792368	NOTEST	0	0
Snord99	chr4:132308677-132311024	NOTEST	0	0
Sntn	chr14:13670875-13683148	NOTEST	0	0
Sohlh1	chr2:25842996-25847248	NOTEST	0	0
Sohlh2	chr3:55182043-55209957	NOTEST	0	0
Sox14	chr9:99874105-99876170	NOTEST	0	0
Sox15	chr11:69655036-69662642	NOTEST	0	0
Sox21	chr14:118233233-118237030	NOTEST	0	0
Sox5os3	chr6:144672867-144693832	NOTEST	0	0
Sp8	chr12:118846328-118852578	NOTEST	0	0
Spaca3	chr11:80858388-80867814	NOTEST	0	0
Spaca4	chr7:45721219-45729492	NOTEST	0	0
Spaca5	chrX:21068487-21077959	NOTEST	0	0
Spaca7	chr8:12573048-12600738	NOTEST	0	0
Spag11a	chr8:19157886-19159578	NOTEST	0	0
Spag11b	chr8:19140758-19143010	NOTEST	0	0
Spam1	chr6:24791187-24801048	NOTEST	0	0
Spata16	chr3:26637630-26983212	NOTEST	0	0
Spata21	chr4:141088344-141112759	NOTEST	0	0
Spata3	chr1:86021941-86029958	NOTEST	0	0
Spata31d1b	chr13:59712283-59719289	NOTEST	0	0
Spata45	chr1:191036821-191042941	NOTEST	0	0
Spatc1	chr15:76266786-76292572	NOTEST	0	0
Speer1-ps1	chr5:11340407-11346273	NOTEST	0	0
Speer2	chr16:69856873-69863744	NOTEST	0	0
Speer3	chr5:13791618-13796819	NOTEST	0	0
Speer4b	chr5:26817356-27727500	NOTEST	0	0
Speer4c	chr5:15680709-15714596	NOTEST	0	0
Speer4d	chr5:15619098-15623864	NOTEST	0	0
Speer4e	chr5:14933630-14938475	NOTEST	0	0
Speer4f	chr5:17476121-17480936	NOTEST	0	0
Speer5-ps1	chr10:44170446-44219585	NOTEST	0	0
Speer6-ps1	chr13:3149474-3189678	NOTEST	0	0
Speer7-ps1	chr5:15680709-15714596	NOTEST	0	0
Speer8-ps1	chr5:14945293-14978899	NOTEST	0	0
Speer9-ps1	chr7:3128145-3144992	NOTEST	0	0
Spert	chr14:75582833-75593116	NOTEST	0	0
Spic	chr10:88675269-88683023	NOTEST	0	0
Spin2-ps1	chrX:3835878-3836656	NOTEST	0	0
Spin2d	chrX:73175301-73176989	NOTEST	0	0
Spink11	chr18:44190044-44196177	NOTEST	0	0
Spink12	chr18:44104522-44108543	NOTEST	0	0
Spink13	chr18:62548910-62741387	NOTEST	0	0
Spink14	chr18:44027868-44032208	NOTEST	0	0
Spink3	chr18:43728068-43737237	NOTEST	0	0
Spink4	chr4:40920055-40931395	NOTEST	0	0
Spink6	chr18:44071392-44083610	NOTEST	0	0
Spink7	chr18:62548910-62741387	NOTEST	0	0

Spink8	chr9:109816626-109826627	NOTEST	0	0
Spinkl	chr18:44166357-44175073	NOTEST	0	0
Spint3	chr2:164569694-164573456	NOTEST	0	0
Spint4	chr2:164698500-164702448	NOTEST	0	0
Spn-ps	chr15:90891395-90898476	NOTEST	0	0
Sppl2c	chr11:104186326-104191166	NOTEST	0	0
Sprr1b	chr3:92436808-92438779	NOTEST	0	0
Sprr2a1	chr3:92250646-92257304	NOTEST	0	0
Sprr2a2	chr3:92215834-92222491	NOTEST	0	0
Sprr2b	chr3:92316704-92318085	NOTEST	0	0
Sprr2d	chr3:92339139-92340873	NOTEST	0	0
Sprr2e	chr3:92352142-92353449	NOTEST	0	0
Sprr2f	chr3:92365186-92366442	NOTEST	0	0
Sprr2g	chr3:92373914-92375229	NOTEST	0	0
Sprr2h	chr3:92385684-92387319	NOTEST	0	0
Sprr2i	chr3:92407990-92409271	NOTEST	0	0
Sprr2j-ps	chr3:92418086-92419396	NOTEST	0	0
Sprr2k	chr3:92432581-92433927	NOTEST	0	0
Sprr3	chr3:92456501-92458720	NOTEST	0	0
Sprr4	chr3:92500262-92500493	NOTEST	0	0
Spt1	chr15:103751922-103899312	NOTEST	0	0
Sptlc3	chr2:139493919-139637674	NOTEST	0	0
Spz1	chr13:92574631-92576232	NOTEST	0	0
Sry	chrY:2662470-2663658	NOTEST	0	0
Ssty1	chrY:18089166-18091551	NOTEST	0	0
Ssty2	chrY:80463105-80465434	NOTEST	0	0
Ssx9	chrX:8748429-8754587	NOTEST	0	0
Ssxb1	chrX:8413304-8422157	NOTEST	0	0
Ssxb10	chrX:8327423-8336235	NOTEST	0	0
Ssxb2	chrX:8454342-8461726	NOTEST	0	0
Ssxb3	chrX:8583543-8589246	NOTEST	0	0
Ssxb5	chrX:8803690-8809386	NOTEST	0	0
Ssxb6	chrX:8542603-8548255	NOTEST	0	0
Ssxb8	chrX:8685330-8690844	NOTEST	0	0
Ssxb9	chrX:8366977-8375388	NOTEST	0	0
St6galnac1	chr11:116765024-116775507	NOTEST	0	0
Stfa2	chr16:36403945-36408363	NOTEST	0	0
Stfa2l1	chr16:36156810-36161948	NOTEST	0	0
Stfa3	chr16:36450536-36455392	NOTEST	0	0
Stra8	chr6:34920959-34939342	NOTEST	0	0
Stx19	chr16:62793688-62847040	NOTEST	0	0
Sult1b1	chr5:87513338-87538195	NOTEST	0	0
Sult1c1	chr17:53961614-53990631	NOTEST	0	0
Sult1c2	chr17:53829636-53845958	NOTEST	0	0
Sult1d1	chr5:87554649-87569006	NOTEST	0	0
Sult1e1	chr5:87575967-87591611	NOTEST	0	0
Sult2a1	chr7:13796245-13837410	NOTEST	0	0
Sult2a2	chr7:13733505-13779637	NOTEST	0	0
Sult2a3	chr7:14067554-14122993	NOTEST	0	0
Sult2a4	chr7:13909676-13989588	NOTEST	0	0
Sult2a5	chr7:13623966-13670807	NOTEST	0	0
Sult2a6	chr7:14222402-14254870	NOTEST	0	0
Sult2a7	chr7:14465158-14492926	NOTEST	0	0

Sult3a1	chr10:33857721-33879475	NOTEST	0	0
Sun5	chr2:153856189-153871084	NOTEST	0	0
Sva	chr6:42038393-42042851	NOTEST	0	0
Sval1	chr6:41951627-41956098	NOTEST	0	0
Sval2	chr6:41860338-41864322	NOTEST	0	0
Sval3	chr6:41968139-41973090	NOTEST	0	0
Svs1	chr6:48986860-48991724	NOTEST	0	0
Svs2	chr2:164235928-164238341	NOTEST	0	0
Svs3b	chr2:164254362-164256643	NOTEST	0	0
Svs4	chr2:164275955-164278307	NOTEST	0	0
Svs5	chr2:164332764-164334394	NOTEST	0	0
Svs6	chr2:164316750-164318450	NOTEST	0	0
Syce3	chr15:89390173-89410503	NOTEST	0	0
Sycn	chr7:28540884-28542210	NOTEST	0	0
Sycp1	chr3:102818498-102936100	NOTEST	0	0
Sycp1-ps1	chr7:18786301-18798510	NOTEST	0	0
Synb	chr14:69508647-69512549	NOTEST	0	0
Syt8	chr7:142434976-142440396	NOTEST	0	0
Taar1	chr10:23920405-23921404	NOTEST	0	0
Taar2	chr10:23938571-23941583	NOTEST	0	0
Taar3	chr10:23949557-23950589	NOTEST	0	0
Taar4	chr10:23960493-23961537	NOTEST	0	0
Taar5	chr10:23970705-23971719	NOTEST	0	0
Taar6	chr10:23984608-23985646	NOTEST	0	0
Taar7a	chr10:23992404-23993481	NOTEST	0	0
Taar7b	chr10:23999938-24001015	NOTEST	0	0
Taar7d	chr10:24027221-24028298	NOTEST	0	0
Taar7e	chr10:24037613-24038690	NOTEST	0	0
Taar7f	chr10:24049509-24050586	NOTEST	0	0
Taar8a	chr10:24076499-24077534	NOTEST	0	0
Taar8b	chr10:24091259-24092294	NOTEST	0	0
Taar8c	chr10:24100842-24101951	NOTEST	0	0
Taar9	chr10:24108487-24109534	NOTEST	0	0
Tac4	chr11:95261528-95269261	NOTEST	0	0
Taf7l	chrX:134460115-134476490	NOTEST	0	0
Tas1r2	chr4:139653537-139670279	NOTEST	0	0
Tas2r102	chr6:132762130-132763174	NOTEST	0	0
Tas2r103	chr6:133036162-133037101	NOTEST	0	0
Tas2r104	chr6:131684835-131685744	NOTEST	0	0
Tas2r105	chr6:131686560-131687463	NOTEST	0	0
Tas2r106	chr6:131677959-131678886	NOTEST	0	0
Tas2r107	chr6:131659157-131660084	NOTEST	0	0
Tas2r108	chr6:40493591-40494485	NOTEST	0	0
Tas2r109	chr6:132980014-132980965	NOTEST	0	0
Tas2r110	chr6:132868007-132869009	NOTEST	0	0
Tas2r113	chr6:132893010-132893940	NOTEST	0	0
Tas2r114	chr6:131689133-131690063	NOTEST	0	0
Tas2r115	chr6:132737053-132737986	NOTEST	0	0
Tas2r116	chr6:132855437-132856355	NOTEST	0	0
Tas2r117	chr6:132802900-132803893	NOTEST	0	0
Tas2r118	chr6:23969160-23970060	NOTEST	0	0
Tas2r119	chr15:32177288-32178294	NOTEST	0	0
Tas2r120	chr6:132656956-132657844	NOTEST	0	0

Tas2r121	chr6:132700089-132701007	NOTEST	0	0
Tas2r122	chr6:132710998-132711928	NOTEST	0	0
Tas2r123	chr6:132847141-132848143	NOTEST	0	0
Tas2r124	chr6:132754729-132755659	NOTEST	0	0
Tas2r125	chr6:132909650-132910586	NOTEST	0	0
Tas2r126	chr6:42434534-42435461	NOTEST	0	0
Tas2r129	chr6:132951101-132952064	NOTEST	0	0
Tas2r130	chr6:131629891-131630830	NOTEST	0	0
Tas2r131	chr6:132956911-132957844	NOTEST	0	0
Tas2r134	chr2:51627510-51628407	NOTEST	0	0
Tas2r135	chr6:42405528-42406494	NOTEST	0	0
Tas2r136	chr6:132777178-132778162	NOTEST	0	0
Tas2r137	chr6:40491237-40492239	NOTEST	0	0
Tas2r138	chr6:40529090-40910666	NOTEST	0	0
Tas2r139	chr6:42140935-42141895	NOTEST	0	0
Tas2r140	chr6:133054854-133055793	NOTEST	0	0
Tas2r143	chr6:42400237-42401119	NOTEST	0	0
Tas2r144	chr6:42215327-42216287	NOTEST	0	0
Tbata	chr10:61171963-61188841	NOTEST	0	0
Tbc1d21	chr9:58359803-58370369	NOTEST	0	0
Tbc1d22bos	chr17:29549801-29606808	NOTEST	0	0
Tbr1	chr2:61804452-61814113	NOTEST	0	0
Tbx10	chr19:3992751-3999512	NOTEST	0	0
Tbx22	chrX:107667963-107688980	NOTEST	0	0
Tchhl1	chr3:93468753-93471980	NOTEST	0	0
Tcl1b1	chr12:105159703-105166625	NOTEST	0	0
Tcl1b2	chr12:105147032-105155225	NOTEST	0	0
Tcl1b3	chr12:105191044-105195399	NOTEST	0	0
Tcl1b4	chr12:105202421-105206993	NOTEST	0	0
Tcl1b5	chr12:105176357-105181145	NOTEST	0	0
Tcstv1	chr13:119893386-119894785	NOTEST	0	0
Tcstv3	chr13:120316861-120318261	NOTEST	0	0
Tdgf1	chr9:110939607-110946158	NOTEST	0	0
Tdh	chr14:63492346-63509092	NOTEST	0	0
Tdo2	chr3:81958413-81975728	NOTEST	0	0
Tdpoz1	chr3:93669332-93676283	NOTEST	0	0
Tdpoz2	chr3:93651541-93652686	NOTEST	0	0
Tdpoz3	chr3:93826019-93827117	NOTEST	0	0
Tdpoz4	chr3:93796397-93797510	NOTEST	0	0
Tdpoz5	chr3:94071621-94072644	NOTEST	0	0
Teddm1	chr1:153891645-153893060	NOTEST	0	0
Tepp	chr8:95311597-95321329	NOTEST	0	0
Tex101	chr7:24668011-24672050	NOTEST	0	0
Tex12	chr9:50557147-50561268	NOTEST	0	0
Tex13a	chrX:137571548-138846955	NOTEST	0	0
Tex16	chrX:112093519-112127326	NOTEST	0	0
Tex19.2	chr11:121116214-121118677	NOTEST	0	0
Tex24	chr8:27344393-27349188	NOTEST	0	0
Tex26	chr5:149439705-149470620	NOTEST	0	0
Tex28	chrX:74150943-74167838	NOTEST	0	0
Tex29	chr8:11840520-11855761	NOTEST	0	0
Tex33	chr15:78378399-78395912	NOTEST	0	0
Tex36	chr7:133587023-133602115	NOTEST	0	0

Tex43	chr18:56588347-56594779	NOTEST	0	0
Tfap2c	chr2:172549592-172558621	NOTEST	0	0
Tfap2e	chr4:126716002-126736269	NOTEST	0	0
Tfec	chr6:16833380-16898441	NOTEST	0	0
Tff1	chr17:31152751-31165053	NOTEST	0	0
Tff2	chr17:31141061-31144282	NOTEST	0	0
Tff3	chr17:31125305-31129611	NOTEST	0	0
Tgif2lx1,Tgif2lx2	chrX:118427226-118428258	LOWDAT	0	0
Tgif2lx2	chrX:118427226-118428258	NOTEST	0	0
Themis3	chr17:66555251-66594622	NOTEST	0	0
Timd2	chr11:46668959-46707104	NOTEST	0	0
Tinag	chr9:76951697-77045781	NOTEST	0	0
Tlx1	chr19:45150714-45156943	NOTEST	0	0
Tm4sf5	chr11:70505273-70511183	NOTEST	0	0
Tmco5b	chr2:113220186-113716767	NOTEST	0	0
Tmed11	chr5:108777234-108795363	NOTEST	0	0
Tmed6	chr8:107061483-107065644	NOTEST	0	0
Tmem132cos	chr5:127241825-127565790	NOTEST	0	0
Tmem171	chr13:98686237-98694831	NOTEST	0	0
Tmem174	chr13:98634977-98637410	NOTEST	0	0
Tmem190	chr7:4782939-4784340	NOTEST	0	0
Tmem210	chr2:25288144-25289187	NOTEST	0	0
Tmem212	chr3:27866064-27896368	NOTEST	0	0
Tmem225	chr9:40148121-40150878	NOTEST	0	0
Tmem247	chr17:86917347-86922367	NOTEST	0	0
Tmem52	chr4:155469113-155470858	NOTEST	0	0
Tmem52b	chr6:129512556-129519227	NOTEST	0	0
Tmem89	chr9:108914618-108915563	NOTEST	0	0
Tmem92	chr11:94777216-94782703	NOTEST	0	0
Tmem95	chr11:69876683-69878018	NOTEST	0	0
Tmprss11g	chr5:86485876-86518600	NOTEST	0	0
Tmprss12	chr15:100280836-100293053	NOTEST	0	0
Tmprss15	chr16:78953007-79091097	NOTEST	0	0
Tmprss4	chr9:45172725-45249985	NOTEST	0	0
Tnfsf18	chr1:161494656-161505290	NOTEST	0	0
Tnk2os	chr16:32644642-32683493	NOTEST	0	0
Tnp2	chr16:10787934-10788655	NOTEST	0	0
Tomm20l	chr12:71111427-71136675	NOTEST	0	0
Toporsl	chr4:52596273-52612163	NOTEST	0	0
Tpbpa	chr13:60938691-60941935	NOTEST	0	0
Tpbpb	chr13:60901294-60904847	NOTEST	0	0
Tppp2	chr14:51918760-51920700	NOTEST	0	0
Tpte	chr8:22283440-22371418	NOTEST	0	0
Trap1a	chrX:139240225-139357738	NOTEST	0	0
Trat1	chr16:48734689-48771956	NOTEST	0	0
Trcg1	chr9:57236555-57249864	NOTEST	0	0
Treh	chr9:44673232-44686305	NOTEST	0	0
Trem1l1	chr17:48359915-48367176	NOTEST	0	0
Trex2	chrX:73433704-73435343	NOTEST	0	0
Trhr2	chr8:122356966-122360746	NOTEST	0	0
Trim31	chr17:36898129-36910217	NOTEST	0	0
Trim42	chr9:97349561-97369958	NOTEST	0	0
Trim43b	chr9:89084623-89092835	NOTEST	0	0

Trim50	chr5:135353295-135367654	NOTEST	0	0
Trim52	chr14:106106197-106135862	NOTEST	0	0
Trim54	chr5:30933142-31348845	NOTEST	0	0
Trim60	chr8:64998447-65018688	NOTEST	0	0
Trim75	chr8:64981650-64987644	NOTEST	0	0
Triml1	chr8:43129806-43141486	NOTEST	0	0
Triml2	chr8:43183121-43193884	NOTEST	0	0
Trp53tg5	chr2:164470303-164473724	NOTEST	0	0
Trpc5os	chrX:144381670-144688180	NOTEST	0	0
Trpd52l3	chr19:30003789-30006020	NOTEST	0	0
Trpv6	chr6:41620618-41636405	NOTEST	0	0
Try10	chr6:41354104-41357944	NOTEST	0	0
Try4	chr6:41302271-41305533	NOTEST	0	0
Try5	chr6:41311231-41314710	NOTEST	0	0
Tsga8	chrX:82948869-85205050	NOTEST	0	0
Tshb	chr3:102777397-102782714	NOTEST	0	0
Tsix	chrX:103431516-103484957	NOTEST	0	0
Tspan10	chr11:120442630-120447321	NOTEST	0	0
Tspy-ps	chrY:1055763-1058868	NOTEST	0	0
Tssk2	chr16:17898636-17900024	NOTEST	0	0
Tssk3	chr4:129489007-129490770	NOTEST	0	0
Tssk5	chr15:76371957-76374938	NOTEST	0	0
Ttc23l	chr15:10503946-10558668	NOTEST	0	0
Ttc24	chr3:88069409-88078304	NOTEST	0	0
Ttl10	chr4:156034836-156050817	NOTEST	0	0
Tuba3b	chr6:145615962-145621477	NOTEST	0	0
Tunar	chr12:105336593-105383932	NOTEST	0	0
Txndc8	chr4:57984028-58009124	NOTEST	0	0
Tyr	chr7:87427404-87493411	NOTEST	0	0
U90926	chr5:92209894-92215408	NOTEST	0	0
Ube2d2b	chr5:107744794-107875107	NOTEST	0	0
Ube2dnl1	chrX:114905011-114905941	NOTEST	0	0
Ube2dnl2	chrX:114907581-114908510	NOTEST	0	0
Ubqln3	chr7:104140622-104143272	NOTEST	0	0
Ubqlnl	chr7:104148258-104150556	NOTEST	0	0
Ubtfl1	chr9:18404417-18411502	NOTEST	0	0
Ucn3	chr13:3940687-3945349	NOTEST	0	0
Ugt1a10	chr1:88055410-88220002	NOTEST	0	0
Ugt1a2	chr1:88055410-88220002	NOTEST	0	0
Ugt1a9	chr1:88055410-88220002	NOTEST	0	0
Ugt2a3	chr5:87324971-87337195	NOTEST	0	0
Ugt2b1	chr5:86916638-86926503	NOTEST	0	0
Ugt2b34	chr5:86889769-86906937	NOTEST	0	0
Ugt2b35	chr5:87000859-87013274	NOTEST	0	0
Ugt2b36	chr5:87065926-87092555	NOTEST	0	0
Ugt2b37	chr5:87240491-87254788	NOTEST	0	0
Ugt2b38	chr5:87409939-87424203	NOTEST	0	0
Ugt2b5	chr5:87124946-87140340	NOTEST	0	0
Ugt3a1	chr15:9279828-9315036	NOTEST	0	0
Ugt3a2	chr15:9335597-9370870	NOTEST	0	0
Umod	chr7:119462707-119479262	NOTEST	0	0
Umodl1	chr17:30954682-31010710	NOTEST	0	0
Uncx	chr5:139543897-139548178	NOTEST	0	0

Upk2	chr9:44452714-44454767	NOTEST	0	0
Upk3a	chr15:85017140-85022560	NOTEST	0	0
Upk3b	chr5:136038495-136044993	NOTEST	0	0
Upk3bl	chr5:136057266-136064324	NOTEST	0	0
Urad	chr5:147314983-147322440	NOTEST	0	0
Ush1c	chr7:46195350-46238490	NOTEST	0	0
Usp17la	chr7:104857015-104862667	NOTEST	0	0
Usp17lb	chr7:104840311-104842504	NOTEST	0	0
Usp17lc	chr7:103416695-103419174	NOTEST	0	0
Usp17ld	chr7:103250085-103252505	NOTEST	0	0
Usp17le	chr7:104768048-104777470	NOTEST	0	0
Usp26	chrX:51753958-51801233	NOTEST	0	0
Usp9y	chrY:1298960-1459782	NOTEST	0	0
V1ra8	chr6:90202816-90203656	NOTEST	0	0
Vax1	chr19:59166186-59170029	NOTEST	0	0
Vax2	chr6:83692805-83738304	NOTEST	0	0
Vax2os	chr6:83692805-83738304	NOTEST	0	0
Vgll1	chrX:57088105-57105446	NOTEST	0	0
Vmn1r-ps103	chr13:22441271-22442243	NOTEST	0	0
Vmn1r-ps79	chr7:22352262-22354555	NOTEST	0	0
Vmn1r1	chr1:182157177-182158098	NOTEST	0	0
Vmn1r10	chr6:57113424-57114360	NOTEST	0	0
Vmn1r100,Vmn1r1	chr7:22412230-22414668	NOTEST	0	0
Vmn1r101	chr7:22437305-22438229	NOTEST	0	0
Vmn1r103	chr7:20509616-20510534	NOTEST	0	0
Vmn1r104	chr7:20533836-20534760	NOTEST	0	0
Vmn1r107	chr7:20668917-20669841	NOTEST	0	0
Vmn1r11	chr6:57137352-57138252	NOTEST	0	0
Vmn1r112	chr7:20771184-20772078	NOTEST	0	0
Vmn1r113	chr7:20787284-20788208	NOTEST	0	0
Vmn1r114	chr7:20811220-20812186	NOTEST	0	0
Vmn1r115	chr7:20844097-20844985	NOTEST	0	0
Vmn1r116	chr7:20872255-20873179	NOTEST	0	0
Vmn1r117	chr7:20883197-20884121	NOTEST	0	0
Vmn1r118	chr7:22228563-22229484	NOTEST	0	0
Vmn1r119	chr7:21011531-21012455	NOTEST	0	0
Vmn1r12	chr6:57158919-57159843	NOTEST	0	0
Vmn1r120	chr7:21052866-21053784	NOTEST	0	0
Vmn1r121	chr7:21097568-21098513	NOTEST	0	0
Vmn1r122	chr7:21133210-21134128	NOTEST	0	0
Vmn1r123	chr7:21162184-21163108	NOTEST	0	0
Vmn1r124	chr7:21259693-21260617	NOTEST	0	0
Vmn1r125	chr7:21272178-21273102	NOTEST	0	0
Vmn1r126	chr7:21300501-21301467	NOTEST	0	0
Vmn1r127	chr7:21318943-21319861	NOTEST	0	0
Vmn1r128	chr7:21349372-21350296	NOTEST	0	0
Vmn1r129	chr7:21360367-21361291	NOTEST	0	0
Vmn1r13	chr6:57209857-57210760	NOTEST	0	0
Vmn1r130	chr7:21994586-21995510	NOTEST	0	0
Vmn1r132,Vmn1r1	chr7:22095519-22097921	NOTEST	0	0
Vmn1r135	chr7:21832350-21833274	NOTEST	0	0
Vmn1r137	chr7:23217331-23218255	NOTEST	0	0
Vmn1r138	chr7:22027976-22028897	NOTEST	0	0

Vmn1r139	chr7:22095519-22097921	LOWDAT	0	0
Vmn1r14	chr6:57233438-57234350	NOTEST	0	0
Vmn1r142	chr7:22163117-22164035	NOTEST	0	0
Vmn1r148	chr7:22412230-22414668	NOTEST	0	0
Vmn1r15	chr6:57258148-57259048	NOTEST	0	0
Vmn1r151	chr7:22498760-22499678	NOTEST	0	0
Vmn1r152	chr7:22522966-22523890	NOTEST	0	0
Vmn1r157	chr7:22713597-22900755	NOTEST	0	0
Vmn1r158	chr7:22713597-22900755	NOTEST	0	0
Vmn1r159	chr7:22713597-22900755	NOTEST	0	0
Vmn1r16	chr6:57322723-57323635	NOTEST	0	0
Vmn1r160	chr7:22713597-22900755	NOTEST	0	0
Vmn1r163	chr7:23055539-23056463	NOTEST	0	0
Vmn1r165	chr7:22658017-22658941	NOTEST	0	0
Vmn1r166	chr7:23250761-23251682	NOTEST	0	0
Vmn1r167	chr7:23504641-23505589	NOTEST	0	0
Vmn1r168	chr7:23540719-23541649	NOTEST	0	0
Vmn1r169	chr7:23577184-23578099	NOTEST	0	0
Vmn1r17	chr6:57360466-57361378	NOTEST	0	0
Vmn1r170	chr7:23606174-23607089	NOTEST	0	0
Vmn1r171	chr7:23631987-23633568	NOTEST	0	0
Vmn1r172	chr7:23658315-23660663	NOTEST	0	0
Vmn1r173	chr7:23702341-23703283	NOTEST	0	0
Vmn1r174	chr7:23753910-23754852	NOTEST	0	0
Vmn1r175	chr7:23808285-23809200	NOTEST	0	0
Vmn1r176	chr7:23834811-23835726	NOTEST	0	0
Vmn1r177	chr7:23865519-23866449	NOTEST	0	0
Vmn1r178	chr7:23893528-23894443	NOTEST	0	0
Vmn1r179	chr7:23928385-23929357	NOTEST	0	0
Vmn1r18	chr6:57389667-57390567	NOTEST	0	0
Vmn1r180	chr7:23952386-23953356	NOTEST	0	0
Vmn1r183	chr7:24054773-24055691	NOTEST	0	0
Vmn1r184	chr7:26266830-26267775	NOTEST	0	0
Vmn1r185	chr7:26611118-26612078	NOTEST	0	0
Vmn1r186,Vmn1r6	chr7_GL456219_random:93810	LOWDAT	0	0
Vmn1r187,Vmn1r6	chr7_GL456219_random:14888	LOWDAT	0	0
Vmn1r188	chr13:22087877-22088804	NOTEST	0	0
Vmn1r189	chr13:22101726-22102665	NOTEST	0	0
Vmn1r19	chr6:57404463-57405390	NOTEST	0	0
Vmn1r191	chr13:22178685-22179582	NOTEST	0	0
Vmn1r192	chr13:22187145-22188048	NOTEST	0	0
Vmn1r193	chr13:22218860-22219820	NOTEST	0	0
Vmn1r194	chr13:22244214-22245105	NOTEST	0	0
Vmn1r195	chr13:22278316-22279404	NOTEST	0	0
Vmn1r196	chr13:22293192-22294098	NOTEST	0	0
Vmn1r197	chr13:22327910-22328807	NOTEST	0	0
Vmn1r198	chr13:22354345-22355248	NOTEST	0	0
Vmn1r199	chr13:22382537-22383641	NOTEST	0	0
Vmn1r2	chr4:3172082-3173003	NOTEST	0	0
Vmn1r20	chr6:57431690-57432602	NOTEST	0	0
Vmn1r200	chr13:22395028-22395967	NOTEST	0	0
Vmn1r201	chr13:22474617-22475520	NOTEST	0	0
Vmn1r202	chr13:22501336-22502245	NOTEST	0	0

Vmn1r203	chr13:22524050-22524986	NOTEST	0	0
Vmn1r204	chr13:22556200-22557109	NOTEST	0	0
Vmn1r205	chr13:22591979-22592930	NOTEST	0	0
Vmn1r206	chr13:22620096-22621035	NOTEST	0	0
Vmn1r207-ps	chr13:22725683-22726622	NOTEST	0	0
Vmn1r208	chr13:22772398-22773325	NOTEST	0	0
Vmn1r209	chr13:22805579-22806518	NOTEST	0	0
Vmn1r21	chr6:57843563-57844457	NOTEST	0	0
Vmn1r210	chr13:22827193-22828114	NOTEST	0	0
Vmn1r211	chr13:22851598-22852495	NOTEST	0	0
Vmn1r213	chr13:23011248-23012403	NOTEST	0	0
Vmn1r214	chr13:23034337-23035441	NOTEST	0	0
Vmn1r215	chr13:23075791-23076694	NOTEST	0	0
Vmn1r216	chr13:23099148-23100045	NOTEST	0	0
Vmn1r217	chr13:23113833-23114730	NOTEST	0	0
Vmn1r218	chr13:23136484-23137381	NOTEST	0	0
Vmn1r219	chr13:23162642-23163581	NOTEST	0	0
Vmn1r22	chr6:57900081-57900990	NOTEST	0	0
Vmn1r220	chr13:23183627-23184524	NOTEST	0	0
Vmn1r221	chr13:23217372-23218311	NOTEST	0	0
Vmn1r222	chr13:23232114-23233041	NOTEST	0	0
Vmn1r223	chr13:23249237-23250323	NOTEST	0	0
Vmn1r224	chr17:20419162-20420059	NOTEST	0	0
Vmn1r225	chr17:20502298-20503195	NOTEST	0	0
Vmn1r226	chr17:20687507-20688404	NOTEST	0	0
Vmn1r227	chr17:20735099-20736126	NOTEST	0	0
Vmn1r229	chr17:20814494-20815415	NOTEST	0	0
Vmn1r23	chr6:57925882-57926791	NOTEST	0	0
Vmn1r230	chr17:20846550-20847501	NOTEST	0	0
Vmn1r231	chr17:20889715-20890651	NOTEST	0	0
Vmn1r232	chr17:20913204-20914363	NOTEST	0	0
Vmn1r233	chr17:20993726-20994686	NOTEST	0	0
Vmn1r234	chr17:21228825-21229815	NOTEST	0	0
Vmn1r235	chr17:21260426-21262863	NOTEST	0	0
Vmn1r236	chr17:21286532-21287653	NOTEST	0	0
Vmn1r237	chr17:21314016-21314886	NOTEST	0	0
Vmn1r238	chr18:3122491-3123412	NOTEST	0	0
Vmn1r24	chr6:57955640-57956531	NOTEST	0	0
Vmn1r25	chr6:57978393-57979302	NOTEST	0	0
Vmn1r26	chr6:58008182-58009202	NOTEST	0	0
Vmn1r27	chr6:58215105-58216017	NOTEST	0	0
Vmn1r28	chr6:58265173-58266082	NOTEST	0	0
Vmn1r29	chr6:58307296-58308208	NOTEST	0	0
Vmn1r3	chr4:3184384-3185305	NOTEST	0	0
Vmn1r30	chr6:58434936-58435845	NOTEST	0	0
Vmn1r31	chr6:58471966-58472878	NOTEST	0	0
Vmn1r32	chr6:66552182-66559708	NOTEST	0	0
Vmn1r33	chr6:66611650-66612568	NOTEST	0	0
Vmn1r34	chr6:66636822-66637752	NOTEST	0	0
Vmn1r35	chr6:66678793-66679684	NOTEST	0	0
Vmn1r36	chr6:66715971-66716889	NOTEST	0	0
Vmn1r37	chr6:66731391-66732300	NOTEST	0	0
Vmn1r38	chr6:66776221-66777130	NOTEST	0	0

Vmn1r39	chr6:66804414-66805332	NOTEST	0	0
Vmn1r4	chr6:56956512-56957406	NOTEST	0	0
Vmn1r40	chr6:89714202-89715135	NOTEST	0	0
Vmn1r41	chr6:89740887-89747414	NOTEST	0	0
Vmn1r42	chr6:89844517-89845615	NOTEST	0	0
Vmn1r43	chr6:89869460-89870529	NOTEST	0	0
Vmn1r44	chr6:89893273-89894206	NOTEST	0	0
Vmn1r45	chr6:89931649-89940507	NOTEST	0	0
Vmn1r46	chr6:89976170-89977100	NOTEST	0	0
Vmn1r47	chr6:90021887-90022820	NOTEST	0	0
Vmn1r48	chr6:90035932-90036841	NOTEST	0	0
Vmn1r49	chr6:90072085-90073018	NOTEST	0	0
Vmn1r50	chr6:90107274-90108207	NOTEST	0	0
Vmn1r51	chr6:90122642-90130645	NOTEST	0	0
Vmn1r52	chr6:90178715-90179645	NOTEST	0	0
Vmn1r54	chr6:90269105-90270053	NOTEST	0	0
Vmn1r55	chr7:5146489-5147422	NOTEST	0	0
Vmn1r56	chr7:5194915-5196747	NOTEST	0	0
Vmn1r57	chr7:5220477-5221410	NOTEST	0	0
Vmn1r58	chr7:5408889-5413145	NOTEST	0	0
Vmn1r59	chr7:5453826-5454759	NOTEST	0	0
Vmn1r6	chr6:57002354-57003266	NOTEST	0	0
Vmn1r60	chr7:5544196-5545099	NOTEST	0	0
Vmn1r61	chr7:5610410-5611313	NOTEST	0	0
Vmn1r62	chr7_GL456219_random:93810	NOTEST	0	0
Vmn1r63	chr7_GL456219_random:14888	NOTEST	0	0
Vmn1r64	chr7:5883579-5884542	NOTEST	0	0
Vmn1r65	chr7:6007749-6011010	NOTEST	0	0
Vmn1r66	chr7:10273827-10275351	NOTEST	0	0
Vmn1r67	chr7:10446788-10447787	NOTEST	0	0
Vmn1r68	chr7:10527209-10528169	NOTEST	0	0
Vmn1r69	chr7:10579755-10581487	NOTEST	0	0
Vmn1r7	chr6:57024337-57025273	NOTEST	0	0
Vmn1r70	chr7:10633586-10634483	NOTEST	0	0
Vmn1r71	chr7:10747501-10749538	NOTEST	0	0
Vmn1r72	chr7:11669598-11670519	NOTEST	0	0
Vmn1r73	chr7:11756256-11757168	NOTEST	0	0
Vmn1r74	chr7:11846774-11847689	NOTEST	0	0
Vmn1r75	chr7:11880342-11881260	NOTEST	0	0
Vmn1r76	chr7:11930310-11931285	NOTEST	0	0
Vmn1r77	chr7:12041298-12042219	NOTEST	0	0
Vmn1r78	chr7:12152463-12153405	NOTEST	0	0
Vmn1r79	chr7:12176192-12177113	NOTEST	0	0
Vmn1r8	chr6:57035912-57037125	NOTEST	0	0
Vmn1r80	chr7:12192964-12193891	NOTEST	0	0
Vmn1r81	chr7:12259758-12260679	NOTEST	0	0
Vmn1r82	chr7:12304804-12305719	NOTEST	0	0
Vmn1r83	chr7:12321207-12322128	NOTEST	0	0
Vmn1r84	chr7:12361807-12362764	NOTEST	0	0
Vmn1r86	chr7:13101996-13102947	NOTEST	0	0
Vmn1r87	chr7:13131470-13132358	NOTEST	0	0
Vmn1r88	chr7:13177718-13178669	NOTEST	0	0
Vmn1r9	chr6:57070894-57071945	NOTEST	0	0

Vmn1r91	chr7:20101157-20102081	NOTEST	0	0
Vmn1r94	chr7:20167459-20168377	NOTEST	0	0
Vmn1r95	chr7:22189376-22190300	NOTEST	0	0
Vmn2r-ps129	chr17:23004970-23006659	NOTEST	0	0
Vmn2r-ps159	chr4:156331102-156339499	NOTEST	0	0
Vmn2r-ps54	chr7:41668013-41727193	NOTEST	0	0
Vmn2r-ps60	chr7:42430104-42430369	NOTEST	0	0
Vmn2r10	chr5:108995538-109006436	NOTEST	0	0
Vmn2r100	chr17:19504810-19532060	NOTEST	0	0
Vmn2r101	chr17:19577230-19612317	NOTEST	0	0
Vmn2r102	chr17:19660398-19694748	NOTEST	0	0
Vmn2r103	chr17:19773362-19812536	NOTEST	0	0
Vmn2r104	chr17:20029424-20048205	NOTEST	0	0
Vmn2r105	chr17:20208229-20234872	NOTEST	0	0
Vmn2r106	chr17:20267546-20285430	NOTEST	0	0
Vmn2r107	chr17:20345424-20375772	NOTEST	0	0
Vmn2r108	chr17:20462372-20481236	NOTEST	0	0
Vmn2r109	chr17:20540516-20564756	NOTEST	0	0
Vmn2r11	chr5:109046872-109059452	NOTEST	0	0
Vmn2r110	chr17:20573828-20596259	NOTEST	0	0
Vmn2r111	chr17:22547940-22573273	NOTEST	0	0
Vmn2r112	chr17:22601147-22619133	NOTEST	0	0
Vmn2r114	chr17:23290933-23312313	NOTEST	0	0
Vmn2r115	chr17:23343976-23360128	NOTEST	0	0
Vmn2r116	chr17:23384802-23401864	NOTEST	0	0
Vmn2r117	chr17:23459674-23479597	NOTEST	0	0
Vmn2r12	chr5:109085848-109097864	NOTEST	0	0
Vmn2r120	chr17:57508782-57545314	NOTEST	0	0
Vmn2r121	chrX:124127338-124135910	NOTEST	0	0
Vmn2r122	chr4_JH584292_random:3535-1	NOTEST	0	0
Vmn2r123	chr4:156331102-156339499	NOTEST	0	0
Vmn2r124	chr17:18049483-18074220	NOTEST	0	0
Vmn2r13	chr5:109156067-109192107	NOTEST	0	0
Vmn2r14	chr5:109215501-109224622	NOTEST	0	0
Vmn2r15	chr5:109286268-109297556	NOTEST	0	0
Vmn2r16	chr5:109330380-109364481	NOTEST	0	0
Vmn2r17	chr5:109420012-109453387	NOTEST	0	0
Vmn2r18	chr5:151561660-151586924	NOTEST	0	0
Vmn2r19	chr6:123308332-123336537	NOTEST	0	0
Vmn2r2	chr3:64116431-64137480	NOTEST	0	0
Vmn2r21	chr6:123492507-123533406	NOTEST	0	0
Vmn2r22	chr6:123609757-123650635	NOTEST	0	0
Vmn2r23	chr6:123702820-123742239	NOTEST	0	0
Vmn2r24	chr6:123778970-123816280	NOTEST	0	0
Vmn2r25	chr6:123822813-123853190	NOTEST	0	0
Vmn2r26	chr6:124024757-124062035	NOTEST	0	0
Vmn2r27	chr6:124191595-124231784	NOTEST	0	0
Vmn2r28	chr7:5480455-5493851	NOTEST	0	0
Vmn2r3	chr3:64258960-64287417	NOTEST	0	0
Vmn2r30	chr7:7312273-7337493	NOTEST	0	0
Vmn2r31	chr7:7383984-7399627	NOTEST	0	0
Vmn2r32	chr7:7463968-7479973	NOTEST	0	0
Vmn2r33	chr7:7550966-7566786	NOTEST	0	0

Vmn2r34	chr7:7671828-7689398	NOTEST	0	0
Vmn2r35	chr7:7786150-7819867	NOTEST	0	0
Vmn2r36	chr7:7876652-7902462	NOTEST	0	0
Vmn2r37	chr7:9205548-9223653	NOTEST	0	0
Vmn2r38	chr7:9074795-9097765	NOTEST	0	0
Vmn2r39	chr7:9014749-9030682	NOTEST	0	0
Vmn2r4	chr3:64388620-64410057	NOTEST	0	0
Vmn2r40	chr7:8907733-8931402	NOTEST	0	0
Vmn2r41	chr7:8137904-8161551	NOTEST	0	0
Vmn2r42	chr7:8183268-8200320	NOTEST	0	0
Vmn2r43	chr7:8244350-8260599	NOTEST	0	0
Vmn2r44	chr7:8367459-8383238	NOTEST	0	0
Vmn2r45	chr7:8471468-8488959	NOTEST	0	0
Vmn2r48	chr7:9927623-9953585	NOTEST	0	0
Vmn2r49	chr7:9976244-9992139	NOTEST	0	0
Vmn2r5	chr3:64490820-64507685	NOTEST	0	0
Vmn2r50	chr7:10037234-10053178	NOTEST	0	0
Vmn2r51	chr7:10087197-10105659	NOTEST	0	0
Vmn2r52	chr7:10158651-10176286	NOTEST	0	0
Vmn2r53	chr7:12581469-12606544	NOTEST	0	0
Vmn2r54	chr7:12615232-12636134	NOTEST	0	0
Vmn2r55	chr7:12651705-12684991	NOTEST	0	0
Vmn2r56	chr7:12693997-12733105	NOTEST	0	0
Vmn2r58	chr7:41836880-41872670	NOTEST	0	0
Vmn2r59	chr7:42011791-42058981	NOTEST	0	0
Vmn2r6	chr3:64537560-64559818	NOTEST	0	0
Vmn2r60	chr7:42116470-42195776	NOTEST	0	0
Vmn2r61	chr7:42260052-42300755	NOTEST	0	0
Vmn2r62	chr7:42764437-42793496	NOTEST	0	0
Vmn2r63	chr7:42903250-42933789	NOTEST	0	0
Vmn2r65	chr7:84940168-84964009	NOTEST	0	0
Vmn2r66	chr7:84994644-85012020	NOTEST	0	0
Vmn2r67	chr7:85136239-85155902	NOTEST	0	0
Vmn2r68	chr7:85221517-85237704	NOTEST	0	0
Vmn2r69	chr7:85406375-85415676	NOTEST	0	0
Vmn2r70	chr7:85558702-85569088	NOTEST	0	0
Vmn2r71	chr7:85615461-85624547	NOTEST	0	0
Vmn2r72	chr7:85737783-85754981	NOTEST	0	0
Vmn2r73	chr7:85857546-85875938	NOTEST	0	0
Vmn2r74	chr7:85951866-85961482	NOTEST	0	0
Vmn2r75	chr7:86148041-86171724	NOTEST	0	0
Vmn2r76	chr7:86225205-86246201	NOTEST	0	0
Vmn2r77	chr7:86795140-86812032	NOTEST	0	0
Vmn2r78	chr7:86915348-86955177	NOTEST	0	0
Vmn2r79	chr7:86996464-87037968	NOTEST	0	0
Vmn2r8	chr5:108797192-108808754	NOTEST	0	0
Vmn2r80	chr10:79148815-79194933	NOTEST	0	0
Vmn2r81	chr10:79247776-79294535	NOTEST	0	0
Vmn2r82	chr10:79356590-79396766	NOTEST	0	0
Vmn2r83	chr10:79468957-79492154	NOTEST	0	0
Vmn2r88	chr14:51411000-51418882	NOTEST	0	0
Vmn2r89	chr14:51451961-51461293	NOTEST	0	0
Vmn2r9	chr5:108842946-108852510	NOTEST	0	0

Vmn2r91	chr17:18085056-18136643	NOTEST	0	0
Vmn2r92	chr17:18151929-18185178	NOTEST	0	0
Vmn2r93	chr17:18298280-18326441	NOTEST	0	0
Vmn2r94	chr17:18243569-18277566	NOTEST	0	0
Vmn2r95	chr17:18424103-18452324	NOTEST	0	0
Vmn2r96	chr17:18581726-18598157	NOTEST	0	0
Vmn2r97	chr17:18914321-18948071	NOTEST	0	0
Vmn2r98	chr17:19053492-19081311	NOTEST	0	0
Vmn2r99	chr17:19362134-19394590	NOTEST	0	0
Vpreb2	chr16:17980564-17981080	NOTEST	0	0
Vsig1	chrX:140907607-140939472	NOTEST	0	0
Vsx2	chr12:84569851-84595457	NOTEST	0	0
Vwa2	chr19:56874415-56912078	NOTEST	0	0
Wap	chr11:6635482-6638649	NOTEST	0	0
Wbscr28	chr5:134901592-134906733	NOTEST	0	0
Wdr20rt	chr12:65225516-65228454	NOTEST	0	0
Wfdc11	chr2:164662893-164674087	NOTEST	0	0
Wfdc15b	chr2:164214453-164221663	NOTEST	0	0
Wfdc16	chr2:164634707-164638802	NOTEST	0	0
Wfdc9	chr2:164649624-164654966	NOTEST	0	0
Wnt1	chr15:98789856-98793830	NOTEST	0	0
Wnt8a	chr18:34542327-34548061	NOTEST	0	0
Xkr9	chr1:13668770-13701723	NOTEST	0	0
Xlr5a	chrX:73107634-73129260	NOTEST	0	0
Xlr5b	chrX:73137231-73158399	NOTEST	0	0
Xlr5c	chrX:73285196-73290515	NOTEST	0	0
Zar1l	chr5:150507068-150518159	NOTEST	0	0
Zc2hc1b	chr10:13149643-13178023	NOTEST	0	0
Zcchc13	chrX:103630585-103631664	NOTEST	0	0
Zdhhc11	chr13:73963861-73992840	NOTEST	0	0
Zdhhc25	chr15:88600301-88601669	NOTEST	0	0
Zfp352	chr4:90218819-90225687	NOTEST	0	0
Zfp42	chr8:43295066-43307009	NOTEST	0	0
Zfp474	chr18:52615914-52639830	NOTEST	0	0
Zfp488	chr14:33967069-33978764	NOTEST	0	0
Zfp534	chr4:147674224-147702631	NOTEST	0	0
Zfp572	chr15:59306947-59312013	NOTEST	0	0
Zfp600	chr4:146156826-146198756	NOTEST	0	0
Zfp616	chr11:74070169-74087301	NOTEST	0	0
Zfp735	chr11:73688777-73713808	NOTEST	0	0
Zfp91Cntf	chr19:12763527-12796123	NOTEST	0	0
Zfp936	chr7:43177587-43192109	NOTEST	0	0
Zfp957	chr14:79212354-79247367	NOTEST	0	0
Zfy1	chrY:725206-797409	NOTEST	0	0
Zfy2	chrY:2106174-2170409	NOTEST	0	0
Znrf4	chr17:56511247-56512483	NOTEST	0	0
Zp1	chr19:10914295-10920601	NOTEST	0	0
Zp2	chr7:120132360-120145290	NOTEST	0	0
Zp3r	chr1:130576705-130629606	NOTEST	0	0
Zp4-ps	chr13:11522051-11525682	NOTEST	0	0
Zscan10	chr17:23600825-23611019	NOTEST	0	0
Zscan4a	chr7:10794240-10799065	NOTEST	0	0
Zscan4b	chr7:10900739-10905050	NOTEST	0	0

Zscan4c	chr7:11005744-11010547	NOTEST	0	0
Zscan4d	chr7:11161642-11166148	NOTEST	0	0
Zscan4e	chr7:11306377-11310682	NOTEST	0	0
Zscan4f	chr7:11397914-11402318	NOTEST	0	0
Zscan5b	chr7:6222277-6239412	NOTEST	0	0
Zyg11a	chr4:108181933-108217922	NOTEST	0	0
a	chr2:155013569-155051012	NOTEST	0	0
Osbp11	chr16:33185070-33243312	OK	7.93112	7.931
Lmbr1	chr5:29229801-29378390	OK	12.1647	12.1636
Wdpcp	chr11:21572280-21898686	OK	4.24653	4.24581
35854	chr1:184813067-184845847	OK	21.9663	21.9614
Fkbp8	chr8:70527742-70535328	OK	171.186	171.14
Eri2	chr7:119760922-119794058	OK	1.83489	1.83404
Acad9	chr3:36065999-36092857	OK	11.9398	11.9331
Utp14b	chr1:78657824-78707743	OK	2.8015	2.79987
Golga4	chr9:118506317-118582519	OK	17.7938	17.7824
Zzef1	chr11:72796225-72927120	OK	12.2312	12.2226
Pigb	chr9:72985503-73039699	OK	3.54572	3.54308
Prps1l3	chr12:57230411-57457241	OK	8.78301	8.77646
Rsf1	chr7:97579895-97692782	OK	4.35986	4.35632
Mrps14	chr1:160195259-160201186	OK	12.4717	12.4606
Slc25a22	chr7:141429748-141437874	OK	44.3411	44.3005
Fxr2	chr11:69632970-69653297	OK	78.6157	78.54
Rwdd2b	chr16:87433330-87440592	OK	5.55648	5.55068
Katnbl1	chr2:112379210-112414237	OK	4.51608	4.51133
Crebl2	chr6:134830198-134857883	OK	19.7545	19.7318
Gm10549	chr18:33464162-33474710	NOTEST	0.00725115	0.00724199
Mrps18a	chr17:46111003-46128908	OK	49.4483	49.3837
Slx1b	chr7:126688926-126695783	OK	4.38755	4.3816
Tatdn1	chr15:58889228-58933730	OK	4.47654	4.47043
Kif13a	chr13:46749087-46929718	OK	6.48163	6.47277
Eif3j1,Eif3j2	chr2:122028579-122118386	NOTEST	0.106494	0.106346
Ppme1	chr7:100326736-100371896	OK	91.5387	91.407
Acaca	chr11:84195437-84401651	OK	8.2986	8.286
Ndufa8	chr2:36036333-36049292	OK	99.3045	99.1504
B3gat3	chr19:8920392-8927236	OK	77.8508	77.7233
Polr3c	chr3:96711894-96727439	OK	9.35927	9.34297
Fbxl5	chr5:43744617-43782149	OK	24.766	24.7228
Gpr137b	chr13:13357619-13393624	OK	12.0264	12.0051
Klc2	chr19:5107745-5118408	OK	124.961	124.74
Zfp410	chr12:84316858-84344439	OK	11.859	11.8374
Dclre1a	chr19:56529160-56548222	OK	1.59558	1.59265
Fam120a	chr13:48879216-48967828	OK	39.2788	39.1962
G6pc3	chr11:102189698-102194081	OK	45.6718	45.5758
Uxs1	chr1:43750230-43827708	OK	15.4251	15.3918
Rufy3	chr5:88565039-88651417	OK	204.978	204.531
Mfap3	chr11:57518664-57533817	OK	8.43036	8.41055
Synj2bp	chr12:81492193-81532907	OK	8.46261	8.4427
0610010F05Rik	chr11:23573775-23633631	OK	34.2648	34.1824
9330159M07Rik	chr9:88839163-88858870	OK	0.805254	0.803298
Pdp1	chr4:11958182-11966450	OK	15.5749	15.5365
Tmem97	chr11:78541816-78550735	OK	7.08764	7.0693
Mlh3	chr12:85234519-85270564	OK	4.45679	4.44509

Fars2	chr13:36117642-36537595	OK	10.7353	10.7061
Nxn12	chr13:51171024-51175187	OK	1.05731	1.0544
Stmnd1	chr13:46273720-46300115	NOTEST	0.0314952	0.0314082
Ccdc47	chr11:106199355-106216367	OK	56.0546	55.8995
Atg12	chr18:46732416-46741579	OK	42.1578	42.0409
Pdlim7	chr13:55497486-55513446	OK	54.4265	54.2729
Wdtdc1	chr4:133292465-133339315	OK	27.2977	27.2206
Pidd1	chr7:141438514-141443355	OK	1.6584	1.65371
Fuz	chr7:44896078-44929490	OK	5.57111	5.555
Rgs1	chr1:153779386-153844141	NOTEST	0.214033	0.213409
Fuca2	chr10:13501027-13517275	OK	21.0184	20.9571
Tmem167	chr13:90089666-90114921	OK	7.68862	7.66574
Abcf2	chr5:24565340-24577467	OK	40.2961	40.1747
Ranbp2	chr10:58446851-58494154	OK	20.5162	20.4537
Ak5	chr3:152396002-152681432	OK	30.8668	30.7719
Dtx2	chr5:135994799-136032881	OK	5.97595	5.95693
Sdhaf2	chr19:10500511-10525209	OK	17.4649	17.409
Gbp7	chr3:142530335-142550151	OK	4.1593	4.14593
Rbm22	chr18:60560785-60572729	OK	10.0188	9.98633
Fam96a	chr9:66126610-66138968	OK	14.6414	14.5934
Bcl7b	chr5:135168371-135181852	OK	20.2976	20.2305
Rpl22	chr4:152324435-152334082	OK	47.221	47.063
Vti1a	chr19:55316350-55626561	OK	18.5663	18.5027
Rcor2	chr19:7269763-7275225	OK	3.67148	3.65841
Zfp459	chr13:67405712-67421418	NOTEST	0.150188	0.149645
Mast1	chr8:84911852-84937353	OK	62.9245	62.6946
2010015L04Rik	chr4:155400968-155443110	OK	1.20252	1.19809
Mrpl21	chr19:3283046-3292837	OK	11.6259	11.582
Rabl6	chr2:25583017-25608446	OK	33.4285	33.2994
Jpx	chrX:103493575-103506425	NOTEST	0.221373	0.220516
Spin2c	chrX:153832292-153834240	OK	0.970495	0.966734
Tbc1d22a	chr15:86214458-86498503	OK	17.2231	17.1556
Fosl2	chr5:32136471-32157839	OK	4.11639	4.10025
Mettl13	chr1:162533671-162548345	OK	5.26523	5.24376
Rap1gds1	chr3:138925896-139075201	OK	218.149	217.256
Eif4b	chr15:102073772-102097173	OK	60.2001	59.946
Cul5	chr9:53614581-53667507	OK	13.4424	13.3854
Map1lc3b	chr8:121590467-121598047	OK	224.269	223.299
4930427A07Rik	chr12:113156420-113165458	OK	1.30981	1.30413
Eftud2	chr11:102838471-102880975	OK	22.1454	22.0467
Aurkaip1	chr4:155831268-155833098	OK	41.5834	41.3978
Arl14ep	chr2:106962528-106974397	OK	9.13702	9.09565
Arsa	chr15:89472475-89484850	OK	16.7992	16.7228
Snrpa1	chr7:66060335-66074587	OK	10.7486	10.6996
Dysf	chr6:84008597-84211059	OK	21.8196	21.7195
Aqr	chr2:114101160-114175339	OK	11.1719	11.1198
Brf2	chr8:27123831-27128632	OK	9.44024	9.39588
Vav2	chr2:27263634-27426825	OK	14.1184	14.0516
Galnt13	chr2:54436386-55117744	OK	10.0221	9.97411
Kcna6	chr6:126708328-126740674	OK	48.0116	47.7804
Zfyve16	chr13:92487748-92530810	OK	5.20604	5.1806
Zfp644	chr5:106616740-106696830	OK	8.72435	8.68124
Rala	chr13:17880574-17944217	OK	38.9889	38.7945

Zfp780b	chr7:27959799-27979157	OK	2.61087	2.59747
Bace1	chr9:45838528-45862484	OK	45.1324	44.8999
Bod1l	chr5:41787539-41844315	OK	10.7419	10.6859
Zcrb1	chr15:93386112-93398290	OK	32.3372	32.1651
Rogdi	chr16:5008728-5013553	OK	35.89	35.6976
Fibp	chr19:5460606-5465052	OK	23.3463	23.2207
Dlg4	chr11:70018604-70045531	OK	57.9851	57.6703
Bzw1	chr1:58393135-58406548	OK	56.1768	55.8699
Kansl1	chr11:104333228-104442291	OK	15.0386	14.9552
Metap1d	chr2:71453337-71525191	OK	8.76006	8.71138
Mark3	chr12:111574509-111656227	OK	16.3141	16.2228
Zfp189	chr4:49521175-49531558	OK	2.49407	2.47934
Aplp1	chr7:30434979-30445582	OK	111.746	111.079
Smap1	chr1:23761925-23922381	OK	48.2952	48.0034
Dnm3	chr1:161987301-162478034	OK	85.4362	84.915
Nsmaf	chr4:6396207-6454271	OK	10.6079	10.5429
Tbx6	chr7:126781482-126785548	NOTEST	0.128342	0.127554
Notch4	chr17:34564294-34588543	OK	1.12205	1.11511
Senp3	chr11:69673109-69682084	OK	17.9617	17.8488
Aplp2	chr9:31149556-31211815	OK	299.696	297.769
Fstl4	chr11:52764705-53187347	OK	0.91845	0.912451
Cep41	chr6:30653456-30693682	OK	2.63971	2.62236
Ppp2r4	chr2:30416049-30447807	OK	92.1582	91.5445
Noc2l	chr4:156236009-156255338	OK	10.4786	10.4087
Aox1	chr1:58029968-58106410	OK	18.1954	18.074
Ttll5	chr12:85824949-86053760	OK	14.0228	13.9278
Ddx58	chr4:40203776-40239825	OK	6.59534	6.55057
Atp5s	chr12:69724961-69744658	OK	13.1834	13.092
Eps15	chr4:109280274-109387816	OK	75.0787	74.5564
Vps4a	chr8:107031325-107045756	OK	60.0852	59.6666
Sf3b2	chr19:5273920-5295455	OK	60.2823	59.8584
Rabif	chr1:134494659-134507884	OK	28.8131	28.6105
Gm7977	chr3:48026011-48026759	NOTEST	0.0357415	0.0354874
Kcnj4	chr15:79483713-79505241	OK	3.27562	3.25226
Nt5dc1	chr10:34303611-34418528	OK	1.35774	1.34805
Pgbd1	chr13:21421274-21441053	NOTEST	0.357476	0.354914
Slc35g2	chr9:100552187-100571085	OK	17.2351	17.1101
Mrrf	chr2:36116078-36190283	OK	11.7904	11.7046
Git2	chr5:114727407-114773492	OK	8.34881	8.28715
Gapvd1	chr2:34676982-34755232	OK	15.6797	15.5637
Prkag1	chr15:98812796-98831508	OK	30.0893	29.8633
Ywhaq	chr12:21390328-21417436	OK	66.2155	65.7147
AI837181	chr19:5425143-5427316	OK	30.9887	30.7532
Wdr82	chr9:106170928-106191706	OK	16.9168	16.788
Tcte2	chr17:13716435-13905794	NOTEST	0.560595	0.556322
Ube2e2	chr14:18573576-18893627	OK	51.113	50.7214
Rab6b	chr9:103112073-103185270	OK	348.151	345.472
Tram1l1	chr3:124321036-124323260	OK	14.6899	14.5764
Nol10	chr12:17348492-17430095	OK	11.5875	11.4978
Rad54l2	chr9:106688079-106789213	OK	5.5087	5.4656
Gm2382	chr9:88688604-88719798	OK	3.54395	3.516
Pop1	chr15:34495310-34530653	OK	2.23232	2.21462
Btbd10	chr7:113315643-113369339	OK	20.1232	19.9635

Rbx1	chr15:81466315-81476369	OK	57.1049	56.6514
Bag6	chr17:35135177-35147322	OK	47.0228	46.6402
1700021F05Rik	chr10:43525120-43540994	OK	21.3157	21.1418
Ptpdc1	chr13:48577871-48625573	OK	16.1557	16.0215
Parp10	chr15:76232994-76243440	OK	2.21752	2.19899
Gpn3	chr5:122372507-122382769	OK	14.4976	14.3761
Tex38	chr4:115779833-115781034	NOTEST	0.317844	0.315158
Slc25a44	chr3:88410493-88425141	OK	11.8841	11.7833
Mtpap	chr18:4375591-4397330	OK	8.49455	8.4215
Nup153	chr13:46679901-46727849	OK	9.73784	9.65407
Cecr5	chr6:120509493-120531299	OK	6.01739	5.96478
Knop1	chr7:118842217-118995211	OK	5.5184	5.47009
Eef1d	chr15:75894795-75909556	OK	21.9606	21.7677
Rdh11	chr12:79175550-79191819	OK	26.4779	26.2434
Lztr1	chr16:17508970-17526330	OK	71.5519	70.9167
Atn1	chr6:124742543-124756487	OK	21.3602	21.1695
Cwh43	chr5:73406077-73453425	NOTEST	0.137995	0.136758
Pmpca	chr2:26389347-26409219	OK	37.4374	37.1008
Lysmd4	chr7:67222543-67228468	OK	4.75054	4.70755
Rxfp1	chr3:79644715-79737794	NOTEST	0.154587	0.153186
Ngb	chr12:87097530-87102539	OK	3.53489	3.50277
Traf7	chr17:24488782-24527938	OK	10.6276	10.5308
1810026B05Rik	chr7:73426651-73558395	OK	1.90868	1.89126
Iqsec2	chrX:152144267-152225237	OK	9.78769	9.69812
P4ha3	chr7:100285519-100319699	OK	8.04442	7.97023
Sh2d3c	chr2:32721054-32755007	OK	10.5829	10.4852
Trim62	chr4:128884139-128911326	OK	9.16525	9.0801
Tnpo3	chr6:29540826-29609607	OK	22.6094	22.3991
Ints7	chr1:191575733-191621691	OK	7.84404	7.77083
Pced1a	chr2:130417683-130444269	OK	3.87697	3.84065
Dynlt1f	chr17:6646605-6655939	NOTEST	2.68E-05	2.65E-05
Pcdhga1	chr18:36930284-37841872	OK	2.11057	2.09062
Dus2	chr8:106011506-106053819	OK	2.71799	2.69214
Aida	chr1:183297059-183324501	OK	14.3885	14.2509
Mrpl11	chr19:4962305-4966995	OK	10.5784	10.4768
Relb	chr7:19606221-19629438	OK	3.00231	2.97328
Immpl1	chr2:105904637-105965558	OK	2.05849	2.03825
Tmem144	chr3:79813152-79842662	NOTEST	0.73906	0.731793
Ulk2	chr11:61775597-61855092	OK	23.116	22.8872
Hid1	chr11:115347708-115367719	OK	31.8472	31.5316
Kif24	chr4:41390747-41464848	NOTEST	0.241828	0.239425
Lrrc16a	chr13:24012483-24280790	OK	3.60652	3.57051
Rad1	chr15:10486017-10499063	OK	8.96298	8.87309
Mrpl46	chr7:78775340-78783089	OK	20.7381	20.5273
Bod1	chr11:31665149-31671862	OK	41.5887	41.1624
Purg	chr8:33386324-33417469	OK	11.2617	11.1462
Ctc1	chr11:69015910-69036473	OK	7.45314	7.37643
Usp22	chr11:61151780-61175059	OK	68.963	68.2441
Cav1	chr6:17306334-17341328	OK	37.5898	37.1974
Nqo2	chr13:33917917-34002794	OK	17.4199	17.2374
Inpp5b	chr4:124741877-124801511	OK	8.05981	7.97451
Actb	chr5:142903115-142906724	OK	768.573	760.39
Coa7	chr4:108328151-108340718	OK	3.37675	3.34079

Ism2	chr12:87278637-87299705	NOTEST	0.327322	0.323829
Ppapdc2	chr19:28923063-28966801	OK	7.48577	7.40571
Pfdn4	chr2:170482964-170519070	OK	24.035	23.7744
Zfp319	chr8:95326135-95331950	OK	4.4301	4.38176
Snrnp25	chr11:32205414-32208995	OK	23.9408	23.6778
Dhx38	chr8:109548023-109565601	OK	8.41717	8.32457
Prkar1b	chr5:139017303-139130386	OK	271.603	268.605
Gsk3b	chr16:38085063-38246079	OK	62.2114	61.524
Gm1976	chr17:94750099-94834799	OK	11.618	11.4894
Ube2e3	chr2:78869046-78920583	OK	36.199	35.7972
Pitpnm1	chr19:4099997-4125858	OK	16.5699	16.3848
Rps6kl1	chr12:85135595-85151264	OK	7.57717	7.49168
Wdr91	chr6:34880425-34910831	OK	8.44057	8.34366
Sec24b	chr3:129983184-130060907	OK	14.1581	13.9951
Nub1	chr5:24685814-24710555	OK	34.6185	34.2188
Zc3hc1	chr6:30366387-30391010	OK	8.96409	8.86042
Actr3	chr1:125392904-125435727	OK	67.497	66.7127
Rabgef1	chr5:130171818-130214337	OK	17.479	17.2725
Raly	chr2:154791109-154867261	OK	107.073	105.795
Znfx1	chr2:167035795-167065862	OK	24.9909	24.6924
Rcl1	chr19:29101374-29143843	OK	7.0127	6.92887
Sgk3	chr1:9798129-9902568	OK	2.57619	2.54516
BC031181	chr18:75005899-75009933	OK	112.822	111.447
Zfp939	chr7:39449517-39477416	OK	1.32432	1.30814
Rhpn2	chr7:35334236-35396767	OK	1.42405	1.40662
Dsg2	chr18:20558115-20604526	NOTEST	0.0275424	0.0272017
Pcnxl4	chr12:72536356-72580213	OK	6.85248	6.76727
Clpx	chr9:65294259-65330658	OK	13.3663	13.1995
Atp6ap1	chrX:74297096-74304721	OK	173.748	171.565
Agpat1	chr17:34605860-34615971	OK	44.5735	44.0133
Spa17	chr9:37603293-37613720	OK	7.64841	7.5522
Abhd11	chr5:135009151-135013157	OK	21.5911	21.3194
Fus	chr7:127967478-127982031	OK	53.4382	52.7648
Dvl3	chr16:20517063-20532187	OK	11.1902	11.0479
Psmc5	chr11:106256184-106263112	OK	153.678	151.721
Ppcdc	chr9:57412659-57440114	OK	4.5655	4.50691
Ndufa7	chr17:33824571-33838316	OK	118.734	117.2
Kif1a	chr1:93015455-93101865	OK	230.437	227.451
Psme2	chr14:55587439-55591101	OK	1.62503	1.60388
Isca1	chr13:59755414-59769789	OK	42.7614	42.1981
Zfyve26	chr12:79232346-79296282	OK	3.01018	2.97028
Carkd	chr8:11497505-11513286	OK	28.7623	28.3805
Pik3r1	chr13:101680760-101768217	OK	47.6806	47.0463
Oxnad1	chr14:32085727-32103203	OK	3.98942	3.9361
Gpn1	chr5:31494760-31511627	OK	13.1173	12.941
Wdr45	chrX:7722219-7728201	OK	21.2752	20.9887
Lrrc47	chr4:154011802-154026044	OK	22.9396	22.6291
Fam217b	chr2:178414533-178422161	OK	10.5672	10.4239
Cntln	chr4:84884308-85131921	OK	4.46956	4.40885
Vps35	chr8:85260391-85299497	OK	103.411	102.004
Lrrc57	chr2:120604237-120621559	OK	16.3059	16.0827
Lsg1	chr16:30561368-30587589	OK	8.48527	8.36904
Txnl4b	chr8:109565985-109574051	OK	10.9339	10.7832

Spn	chr4:141444672-141538597	OK	3.7403	3.68864
Pfdn1	chr18:36403678-36454495	OK	46.6494	46.0035
Zzz3	chr3:152396002-152681432	OK	7.14957	7.05049
Taf3	chr2:9914551-10048609	OK	3.87041	3.81672
Hspa4	chr11:53259813-53300479	OK	87.0457	85.8364
Pigo	chr4:43017637-43025756	OK	3.14667	3.10293
Trappc13	chr13:104142152-104178466	OK	23.9589	23.6254
Tnrc6b	chr15:80711312-80941086	OK	7.26713	7.16534
Sin3a	chr9:57072039-57128368	OK	6.63474	6.54135
Cdc27	chr11:104502525-104550620	OK	19.9629	19.6785
Riok2	chr17:17374331-17394899	OK	7.97191	7.8581
Atg5	chr10:44268357-44364291	OK	24.321	23.9677
Psmb9	chr17:34182098-34187330	OK	3.09237	3.04736
Stoml2	chr4:43027689-43031384	OK	19.3905	19.1071
8430422H06Rik	chr18:14232305-14278542	NOTEST	0.381862	0.376274
Sos2	chr12:69583760-69681852	OK	9.15146	9.01663
Sigmar1	chr4:41738492-41741359	OK	53.6465	52.8504
2810474O19Rik	chr6:149309413-149335663	OK	3.03687	2.9914
Efhc1	chr1:20951625-20990841	OK	2.0184	1.98813
Serpina10	chr12:103616674-103631405	NOTEST	0.192366	0.189473
Hars	chr18:36766527-36783205	OK	80.2912	79.0827
Tkt	chr14:30549130-30574726	OK	87.9417	86.6149
2310057M21Rik	chr7:131342717-131362698	OK	11.8147	11.6357
Ascc2	chr11:4637792-4683386	OK	4.12288	4.06019
Gm16897	chr1:194938820-194976959	NOTEST	0.187876	0.184995
Scyl2	chr10:89640106-89686285	OK	13.1779	12.9749
Sgtb	chr13:104109789-104141441	OK	29.1072	28.6563
Dcun1d1	chr3:35892104-35932966	OK	9.14161	8.999
Gpr157	chr4:150087502-150105927	OK	3.74375	3.68515
Gpr137b-ps	chr13:12614064-12650395	OK	9.3182	9.17162
Bud13	chr9:46283011-46298783	OK	2.70335	2.66073
Cog3	chr14:75702350-75754493	OK	10.6884	10.5189
Hprt	chrX:52988077-53021660	OK	146.846	144.511
Nudt12	chr17:59001400-59013322	OK	8.25916	8.12745
Tfcp2	chr15:100502747-100552008	OK	6.59075	6.48558
Skiv2l	chr17:34839225-34850204	OK	23.0672	22.6985
Ogfr	chr2:180589406-180595837	OK	10.1858	10.0229
Ppp6r3	chr19:3454928-3575749	OK	17.5917	17.3093
Tpst1	chr5:130073325-130135733	OK	24.0343	23.6467
Plk2	chr13:110395043-110400843	OK	15.9526	15.6947
Sirt3	chr7:140857396-140882309	OK	21.7224	21.3711
Sgcg	chr14:61138456-61258490	NOTEST	0.0200671	0.0197424
Nudt14	chr12:112934732-112942118	OK	9.04022	8.89365
Map3k11	chr19:5689130-5702864	OK	10.9076	10.7307
Rpp14	chr14:8080312-8091846	OK	20.4919	20.1584
Pofut1	chr2:153241531-153270249	OK	8.80846	8.66425
Dnah6	chr6:73017606-73221631	NOTEST	0.176384	0.173453
Pafah1b1	chr11:74673948-74724384	OK	291.523	286.671
Elavl1	chr8:4284781-4325100	OK	13.6138	13.3868
Tulp4	chr17:6106829-6240637	OK	11.7805	11.5841
Fam53a	chr5:33600352-33629635	OK	3.35057	3.29442
Limk1	chr5:134656038-134688590	OK	79.1871	77.8579
Sms	chrX:157443953-157492046	OK	26.4575	26.0116

Rrp12	chr19:41862850-41896153	OK	11.7062	11.5087
Aldh3a2	chr11:61244754-61267127	OK	28.2501	27.7727
Ptcd1	chr5:145140396-145167104	OK	6.16337	6.059
Fahd1	chr17:24848895-24850302	OK	7.88156	7.74798
Actr1a	chr19:46376813-46395735	OK	192.617	189.34
Sbk1	chr7:126272618-126294999	OK	21.0898	20.7278
Rab11fip3	chr17:25989035-26069177	OK	19.1918	18.8623
Flad1	chr3:89402672-89411863	OK	12.6883	12.4704
Jtb	chr3:90231596-90235840	OK	17.5273	17.2257
Pced1b	chr15:97244073-97385691	OK	3.18638	3.13148
Sin3b	chr8:72723269-72758203	OK	31.9638	31.4092
AI462493	chr19:8880013-8880933	OK	19.5254	19.1863
Chtf18	chr17:25717171-25727415	OK	0.888524	0.873041
Khdrbs2	chr1:32172805-32657738	OK	2.64822	2.60207
Srf	chr17:46546838-46556162	OK	6.07081	5.96491
Naa25	chr5:121397981-121440113	OK	21.7347	21.3554
Dctpp1	chr7:127256958-127260667	OK	9.40289	9.23797
Pdxdc1	chr16:13819276-13903145	OK	40.6048	39.8914
N4bp3	chr11:51643088-51657681	OK	1.21281	1.1913
Dnajc16	chr4:141761997-141790644	OK	8.66444	8.51043
4933427D14Rik	chr11:72154096-72203371	OK	1.47717	1.4509
Brk1	chr6:113604771-113616951	OK	101.961	100.144
Inpp1	chr1:52789419-52817688	OK	16.9562	16.6534
Krt19	chr11:100140810-100145919	NOTEST	0.484437	0.475769
Samm50	chr15:84192232-84214303	OK	56.2741	55.2614
Cast	chr13:74694285-74807921	OK	51.3898	50.4633
Sar1a	chr10:61680320-61693297	OK	62.9425	61.8059
Tmpo	chr10:91147570-91171619	OK	11.08	10.8796
Fbxo10	chr4:45018608-45084604	OK	4.52417	4.44199
Eif1ax	chrX:159372194-159385699	OK	87.9329	86.3285
Tmcc1	chr6:116018617-116193374	OK	8.61663	8.45854
Ddx47	chr6:135011611-135023776	OK	26.5991	26.1091
Slc35a1	chr4:34663256-34687438	OK	8.23395	8.08217
Tsc2	chr17:24549949-24632627	OK	17.3383	17.0181
Plekhb2	chr1:34849958-34879585	OK	103.535	101.604
Lipt1	chr1:37872205-37876298	OK	1.62199	1.59163
Cryzl1	chr16:91688897-91728802	OK	14.9775	14.6971
Hiatl1	chr13:65065029-65112982	OK	21.3654	20.9647
A930005H10Rik	chr3:115881578-115888130	OK	8.54125	8.38044
Zufsp	chr10:33926935-33951212	OK	3.29929	3.23716
Acn9	chr6:6956017-7039220	OK	20.6777	20.2875
Tsr2	chrX:151047169-151096543	OK	13.6651	13.4045
Dpysl2	chr14:66802863-66868600	OK	192.881	189.179
Dedd	chr1:171329144-171345645	OK	9.01801	8.8446
Eif4a3	chr11:119288362-119300043	OK	15.788	15.4843
Chmp2b	chr16:65539132-65562697	OK	44.1766	43.3234
Dpp6	chr5:26817356-27727500	OK	134.763	132.158
Fam214a	chr9:74953052-75032468	OK	5.5154	5.40857
Dopey2	chr16:93711906-93810588	OK	26.7067	26.189
Polr3k	chr2:181864359-181870826	OK	14.2864	14.0094
Hk2	chr6:82725026-82774454	OK	0.978027	0.95904
D130020L05Rik	chr12:101039408-101088927	NOTEST	0.574902	0.563737
Sv2c	chr13:95959442-96132577	OK	125.087	122.656

Fbxo11	chr17:87975049-88065285	OK	29.858	29.2768
Gnptab	chr10:88379411-88447329	OK	17.8129	17.4631
Hspd1	chr1:55077833-55087932	OK	50.7433	49.7424
Zbtb6	chr2:37425499-37430919	OK	5.15519	5.05328
Ppia	chr11:6415869-6419810	OK	162.886	159.664
Rab36	chr10:75037088-75054100	OK	4.73141	4.63736
Eya3	chr4:132639045-132724765	OK	16.9325	16.5959
Scaf11	chr15:96411697-96460843	OK	12.9931	12.7341
Fastkd3	chr13:68582247-68592279	OK	4.74167	4.64705
Tmem33	chr5:67260564-67291461	OK	26.3217	25.7954
Gtf2i	chr5:134237831-134314760	OK	58.6727	57.4934
Zfp740	chr15:102203644-102215610	OK	15.8035	15.4859
Klf11	chr12:24651370-24662782	OK	4.48861	4.39787
Ddx59	chr1:136411915-136440220	OK	3.93919	3.8595
Coprs	chr8:13884787-13890271	OK	32.6379	31.9766
Fut4	chr9:14748458-14752122	OK	0.902042	0.883752
Gm1821	chr14:46084026-46084957	NOTEST	0.0675592	0.0661835
1110012L19Rik	chrX:70385912-70389416	OK	13.4644	13.1895
Hectd2	chr19:36554638-36689479	OK	1.40868	1.37988
Atp5j	chr16:84827870-84863778	OK	123.208	120.675
0610009O20Rik	chr18:38238404-38262629	OK	16.0825	15.7515
Slco1a4	chr6:141805439-141856171	OK	11.836	11.5914
Asph	chr4:9269316-9669344	OK	46.5824	45.6168
Phf6	chrX:52912213-52956961	OK	7.68534	7.52588
Naa20	chr2:145903240-145916425	OK	18.2796	17.9002
2610305D13Rik	chr4:147611935-147642508	OK	1.94305	1.9027
Gcdh	chr8:84872110-84893921	OK	8.26307	8.09139
Med18	chr4:132458728-132463921	OK	3.81987	3.74026
Cpeb2	chr5:43151685-43289724	OK	31.553	30.8954
Ddx3x	chrX:13281021-13293983	OK	118.229	115.763
Tusc2	chr9:107563254-107566108	OK	67.5225	66.1081
Ehmt2	chr17:34898491-34914050	OK	18.173	17.7887
Tmem189	chr2:167643224-167661544	OK	70.8695	69.3677
Fkbp2	chr19:6977738-6980461	OK	95.7323	93.7015
Adamtsl2	chr2:27079380-27108613	OK	0.867319	0.848909
Fry	chr5:150259929-150497753	OK	19.8445	19.4213
Ccar2	chr14:70100144-70153791	OK	15.9068	15.5672
Nf2	chr11:4765844-4849544	OK	20.296	19.8621
Als2	chr1:59120934-59237231	OK	8.95917	8.76764
Ppp2r5c	chr12:110447178-110583074	OK	53.1739	52.0353
Was	chrX:8081465-8090491	NOTEST	0.305014	0.298475
Shisa6	chr11:66211724-66526126	OK	1.00487	0.983269
Smim18	chr8:33731913-33777173	OK	7.544	7.38177
Slc35b1	chr11:95384921-95391652	OK	30.0716	29.4241
Ipo5	chr14:120911193-120948044	OK	34.9143	34.1607
Hyal2	chr9:107569162-107572778	OK	6.1184	5.98594
Gak	chr5:108569106-108629777	OK	30.9602	30.2874
Kalrn	chr16:33969072-34514027	OK	5.3625	5.24568
Meaf6	chr4:125085133-125110070	OK	13.7286	13.4295
Mrgpra2a	chr7:47426328-47452139	OK	2.14727	2.10044
1700021K19Rik	chr16:32821701-32868366	OK	19.7943	19.3625
Elovl6	chr3:129532385-129638493	OK	33.9742	33.233
Bscl2	chr19:8836928-8848683	OK	66.7883	65.329

Puf60	chr15:76070181-76080946	OK	68.7278	67.2249
Slco4c1	chr1:96818783-96872171	NOTEST	0.139006	0.135951
Fam219a	chr4:41517436-41569527	OK	81.1043	79.3196
Zfp868	chr8:69610653-69625548	OK	5.65832	5.53371
Hsp90b1	chr10:86690840-86705444	OK	143.851	140.673
Mrpl35	chr6:71812996-71823784	OK	13.6651	13.3629
Plekhn2	chr4:141625733-141664115	OK	20.5408	20.0863
Gpr56	chr8:94977108-95014208	OK	63.9174	62.5028
Ddx52	chr11:83942089-83963086	OK	7.68383	7.51371
Pigm	chr1:172376530-172384099	OK	6.00591	5.87292
Spata6	chr4:111720009-111829140	OK	7.5195	7.35273
Gpr119	chrX:48667978-48674478	NOTEST	0.77508	0.757876
Pole4	chr6:82646711-82652865	OK	12.086	11.8171
Nprl3	chr11:32226504-32267707	OK	12.297	12.0232
D17Wsu104e	chr17:56176540-56183920	OK	22.5057	22.002
Lig4	chr8:9970019-9976323	OK	4.8354	4.72705
Klhdc2	chr12:69296680-69310687	OK	94.5079	92.3819
Nalcn	chr14:123276640-123627144	OK	13.5244	13.2167
Mrpl20	chr4:155803617-155808829	OK	73.7606	72.0819
Pcbp2	chr15:102470631-102517004	OK	86.2079	84.243
Naa10	chrX:73916869-73921944	OK	15.4152	15.0637
Slc25a26	chr6:94500313-94700145	OK	8.77671	8.57577
Gstz1	chr12:87106865-87164723	OK	18.2998	17.8808
Mybbp1a	chr11:72441377-72451550	OK	15.2061	14.8564
Rpn2	chr2:157208547-157326318	OK	58.9681	57.6104
Chst11	chr10:82985496-83195891	OK	13.5635	13.2512
Sgsh	chr11:119314786-119355510	OK	3.68514	3.60001
Eif4g2	chr7:111067984-111083030	OK	156.003	152.372
Timmdc1	chr16:38497842-38522663	OK	18.0062	17.5865
Dusp8	chr7:142079486-142095284	OK	13.4596	13.1456
Rhoc	chr3:104789033-104794459	OK	43.093	42.0867
Zbtb21	chr16:97947434-97962621	OK	2.51661	2.45744
Srpk2	chr5:23434428-23616571	OK	21.4185	20.9147
Zfp397	chr18:23954687-23964670	OK	8.01264	7.82324
Ripk3	chr14:55784994-55788857	NOTEST	0.188824	0.184349
Pou6f1	chr15:100575317-100586365	OK	9.82065	9.58773
Usp47	chr7:112023505-112111386	OK	20.5319	20.0439
Zfp318	chr17:46383765-46420918	OK	10.2811	10.0356
Acadm	chr3:153922352-153944643	OK	29.8178	29.1049
Tex14	chr11:86583864-87555823	NOTEST	0.387375	0.378112
Plin2	chr4:86656564-86670059	OK	19.8924	19.416
Mmrn2	chr14:34375503-34404286	OK	5.59193	5.45778
Hook3	chr8:26021420-26119224	OK	7.08265	6.91269
Ptpn2	chr18:67665500-67724621	OK	4.33594	4.23175
Pitrm1	chr13:6548156-6648771	OK	13.56	13.2331
Phb2	chr6:124712288-124716945	OK	44.1175	43.0514
Hmgcr	chr13:96648961-96670936	OK	63.7157	62.1747
H2-T23	chr17:35994503-36038174	OK	7.69435	7.50812
Ogfod1	chr8:94037197-94067922	OK	16.0113	15.6217
Rnf115	chr3:96727610-96791155	OK	30.219	29.4837
Pla2g7	chr17:43568450-43612201	OK	188.265	183.678
2410016O06Rik	chr12:83950607-83952953	OK	2.35461	2.29717
Mast2	chr4:116306759-116464181	OK	23.4108	22.8371

Lsm10	chr4:126096652-126098584	OK	6.42538	6.26762
Pnpt1	chr11:29130750-29161828	OK	15.5137	15.1314
E2f1	chr2:154559399-154569892	OK	12.6593	12.3472
Gm3219	chr14:34345054-34345658	OK	11.9908	11.6932
Fhl4	chr10:85097018-85102495	NOTEST	0.300615	0.293152
Dnajb6	chr5:29735333-29786478	OK	16.4782	16.0686
Mfsd5	chr15:102279455-102281744	OK	27.8293	27.137
Ndfip1	chr18:38418974-38464406	OK	669.676	653.017
Fbxw17	chr13:50417876-50433769	OK	17.9042	17.4581
Fam160b1	chr19:57361008-57389594	OK	13.6237	13.2836
Psmb1	chr17:15475720-15498276	OK	176.522	172.1
Pgm3	chr9:86467153-86571842	OK	3.41856	3.33288
Rph3al	chr11:75830991-75925891	NOTEST	0.424374	0.413712
Mroh8	chr2:157208547-157326318	NOTEST	0.133791	0.130406
Zfp266	chr9:20495068-20521419	OK	8.5556	8.33825
Myct1	chr10:5593727-5606791	NOTEST	0.795774	0.775483
Kat6b	chr14:21499769-21672478	OK	2.96558	2.88938
Polr2l	chr7:141471859-141475153	OK	1.6129	1.57144
Dnajc6	chr4:101496647-101642799	OK	59.6827	58.1472
Eif4ebp1	chr8:27260326-27275656	OK	3.19451	3.11219
40786	chr3:144570426-144597676	OK	177.981	173.383
Tbcd	chr11:121451948-121673151	OK	53.9061	52.5132
Fam134a	chr1:75142785-75147909	OK	50.0297	48.7361
BC017643	chr11:121177592-121229309	OK	20.0732	19.5538
2610002M06Rik	chrX:107782751-107872911	OK	11.9459	11.6363
Hap1	chr11:100347326-100356141	OK	3.45743	3.36755
Frzb	chr2:80411969-80447396	OK	19.6586	19.1472
Diap1	chr18:37844824-37935411	OK	6.80702	6.62979
Ambra1	chr2:91730137-91918849	OK	13.7073	13.3503
Hoxa9	chr6:52223096-52227370	OK	8.93431	8.7015
Pag1	chr3:9687481-9833679	OK	4.71239	4.58924
Hist1h2be	chr13:23583669-23621124	OK	4.23941	4.12847
Dab1	chr4:104367537-104744844	NOTEST	0.697293	0.679039
Hecw2	chr1:53806873-54195034	OK	2.99073	2.91235
Cse1l	chr2:166906095-166946389	OK	22.5862	21.9924
Stmn3	chr2:181306458-181314500	OK	705.89	687.188
Snora23	chr7:110018424-110055114	NOTEST	0.954663	0.929354
Ssbp2	chr13:91461096-91786148	OK	11.5554	11.2482
Sav1	chr12:69746847-69987002	OK	10.2451	9.97222
Pgrmc2	chr3:41066325-41083046	OK	34.7977	33.8702
Mtif2	chr11:29526396-29545447	OK	10.6472	10.3634
Zc3h4	chr7:16401195-16437696	OK	6.84407	6.66158
Kcnb1	chr2:167095968-167188818	OK	28.2875	27.532
Kcnh3	chr15:99224975-99262041	NOTEST	0.492626	0.479446
Grap	chr11:61653320-61672777	OK	2.00515	1.95149
Zfyve9	chr4:108639258-108781904	OK	35.3498	34.3955
N4bp1	chr8:86841138-86885258	OK	7.14524	6.95201
Ddi2	chr4:141683562-141723419	OK	11.7066	11.3885
Spr	chr6:85133679-85137764	OK	52.0346	50.6196
Trpt1	chr19:6996130-7019469	OK	5.99591	5.83218
Car4	chr11:84957753-84966054	OK	2.61632	2.5448
Msrb1	chr17:24736641-24742778	OK	57.8761	56.2936
Timm10	chr2:84827020-84830213	OK	37.0133	35.9977

Nup133	chr8:123897122-123949265	OK	5.19386	5.05106
Mrpl15	chr1:4773199-4785726	OK	7.16284	6.96558
Senp2	chr16:22009483-22049269	OK	20.9967	20.4175
Ankhd1	chr18:36560602-36658908	OK	8.38076	8.14949
Pdpk1	chr17:24073679-24150922	OK	36.6687	35.653
Cul1	chr6:47454323-47526139	OK	49.8011	48.4178
Serpinb5	chr1:106861179-106883348	NOTEST	0.449202	0.436725
Kras	chr6:145216698-145250231	OK	26.5438	25.8055
Gpr52	chr1:160219173-160792938	OK	0.810581	0.787913
Nek5	chr8:22073615-22125053	NOTEST	0.0463402	0.0450396
Tab1	chr15:80133153-80161702	OK	6.13036	5.95801
Cope	chr8:70302784-70312990	OK	70.3076	68.3278
Dnal1	chr12:84114327-84143510	OK	7.51448	7.30276
Tmem68	chr4:3549040-3574768	OK	8.46829	8.22852
Tm2d1	chr4:98355369-98383265	OK	10.9633	10.6524
Churc1	chr12:76765572-76783178	OK	30.8357	29.9588
Pgam1	chr19:41911870-41918665	OK	43.3166	42.079
Nudt15	chr14:73519863-73548242	NOTEST	0.7028	0.682717
Snip1	chr4:125066692-125074043	OK	5.23095	5.08108
Pld2	chr11:70540163-70558110	OK	4.50093	4.37167
Spcs3	chr8:54520432-54529998	OK	17.8936	17.3796
Mlx	chr11:101087289-101095435	OK	12.7509	12.3839
Kng2	chr16:22985851-23029101	NOTEST	0.0952783	0.0925343
Brpf1	chr6:113307136-113324862	OK	4.84758	4.70796
Usp33	chr3:152346477-152393614	OK	45.7793	44.4606
Azin1	chr15:38487429-38519266	OK	65.0775	63.1948
Tfg	chr16:56690328-56717450	OK	57.781	56.1084
4933415F23Rik	chr1:23100473-23102253	NOTEST	0.0237622	0.0230739
Tomm5	chr4:45105209-45108113	OK	42.7125	41.4695
2510003E04Rik	chr10:62558469-62578457	OK	51.607	50.0993
Mapkap1	chr2:34406770-34624958	OK	20.5986	19.9963
Pcdhb21	chr18:36930284-37841872	OK	1.30293	1.26482
Mrfap1	chr5:36794866-36796754	OK	150.147	145.754
Kctd17	chr15:78428563-78439303	OK	61.3289	59.5237
Lrrc14	chr15:76710739-76715091	OK	10.8134	10.4943
Tomm70a	chr16:57121713-57154530	OK	87.222	84.6478
BC027231	chr16:44724300-44737284	OK	2.9382	2.85147
4930444P10Rik	chr1:16065978-16093041	NOTEST	0.398026	0.386248
Cdc123	chr2:5794293-5844960	OK	33.4656	32.4737
G3bp1	chr11:55469751-55500887	OK	18.2405	17.6976
Emc10	chr7:44489937-44496513	OK	112.483	109.133
Bphl	chr13:34037640-34074074	OK	11.6826	11.334
Radil	chr5:142484838-142551098	OK	3.22327	3.12694
Pex2	chr3:5560187-5576248	OK	11.1889	10.854
Fam208b	chr13:3538074-3611108	OK	3.55812	3.45131
Faf2	chr13:54621783-54664063	OK	21.328	20.6861
Gm9855	chr10:82629837-82690650	LOWDAT	2.34276	2.27224
Scrt2	chr2:152081528-152095802	OK	23.0991	22.3993
Acer2	chr4:86874413-86932490	OK	2.03741	1.97568
Dennd1b	chr1:138963708-139176042	OK	5.90452	5.72549
Nit1	chr1:171329144-171345645	OK	15.9118	15.4282
A130010J15Rik	chr1:193173468-193201546	OK	2.94508	2.85551
Ube2o	chr11:116537752-116581447	OK	66.0031	63.994

Nr2c2	chr6:92091417-92184023	OK	16.8053	16.2928
Srp9	chr1:182124736-182132415	OK	36.4134	35.3028
Rnf145	chr11:44518963-44565520	OK	28.6869	27.812
Leng1	chr7:3645268-3677553	OK	3.55113	3.44247
Cox7a2l	chr17:83501916-83514333	OK	107.474	104.18
Chm	chrX:113040591-113185515	OK	11.5832	11.2267
Rab14	chr2:35180204-35201120	OK	103.366	100.183
Dtnb	chr12:3572390-3781398	OK	14.6389	14.186
Rab11fip1	chr8:27138772-27174646	NOTEST	0.11376	0.110221
Slc6a7	chr18:60995379-61014199	OK	1.27898	1.23917
Mrpl44	chr1:79776017-79781445	OK	21.1225	20.4609
Prkdc	chr16:15637865-15842239	OK	4.08978	3.96131
Kif16b	chr2:142618344-142901464	OK	11.3078	10.9505
Gtf2a2	chr9:70012547-70022866	OK	30.3108	29.3515
1700048O20Rik	chr9:121937274-121947016	OK	1.03001	0.997247
Coq10b	chr1:55052769-55072702	OK	15.7289	15.2278
Rbbp7	chrX:162407199-163352564	OK	53.557	51.849
Nat6	chr9:107580169-107587359	OK	7.20929	6.97885
Abcc10	chr17:46297482-46328023	OK	1.51191	1.46346
Canx	chr11:50293956-50325673	OK	187.677	181.658
Cwf19l1	chr19:44108636-44135876	OK	3.02914	2.93187
Tmem184b	chr15:79360683-79403303	OK	39.0781	37.8229
Asf1a	chr10:53537323-53630439	OK	6.06487	5.87003
Hnrnpd	chr5:99955934-99978938	OK	13.1695	12.7445
Brd2	chr17:34112018-34122607	OK	45.1946	43.73
Trmt5	chr12:73280409-73286711	OK	8.60438	8.32531
Fbxw2	chr2:34804363-34826235	OK	29.5849	28.6203
Gp49a	chr10:51480611-51486329	NOTEST	0.0710713	0.0687517
Rtcb	chr10:85938636-85957793	OK	79.6592	77.0549
Zfp418	chr7:7171352-7183560	OK	1.37897	1.3338
Rnf14	chr18:38296634-38317849	OK	127.23	123.038
Pet112	chr3:85574128-85654470	OK	4.30222	4.16046
Yipf6	chrX:98937780-98949020	OK	18.5838	17.9706
Ufc1	chr1:171288563-171294982	OK	92.4105	89.3605
Me2	chr18:73770039-73815392	OK	22.7574	22.0061
Pus1	chr5:110773666-110780615	OK	12.007	11.6103
Neur11b	chr17:26414964-26446342	NOTEST	0.573581	0.554568
Usp38	chr8:80980732-81014906	OK	8.60795	8.32187
Pip4k2c	chr10:127190377-127211622	OK	27.838	26.9067
Rps23	chr13:90923121-90924732	OK	5.89183	5.6943
Nudt2	chr4:41465147-41480926	OK	17.3206	16.7393
Spin1	chr13:51100879-51152562	OK	55.6342	53.7626
Gm7030	chr17:36127608-36129425	NOTEST	0.178007	0.172014
Prkch	chr12:73585040-73778184	OK	3.56603	3.44565
Nap1l3	chrX:122394560-122397385	OK	31.3697	30.3102
Zfp239	chr6:117863076-117872766	OK	3.21361	3.10479
Slc4a9	chr18:36528151-36556272	NOTEST	0.0375942	0.0363199
Tln2	chr9:67217084-67559703	OK	39.4502	38.1121
Sap130	chr18:31634382-31723061	OK	10.0085	9.6688
Plod3	chr5:136982200-136996646	OK	15.4917	14.9655
Mccc2	chr13:99948531-100015639	OK	7.98363	7.7121
1700088E04Rik	chr15:79108982-79141251	OK	0.949439	0.917098
Specc1l	chr10:75212072-75312400	OK	27.0741	26.151

Tceb3	chr4:136003369-136021649	OK	9.29134	8.97423
Pnpla8	chr12:44269153-44313435	OK	18.1378	17.5182
Nabl	chr2:17346733-17731068	OK	23.5217	22.7162
Sc5d	chr9:42254176-42264300	OK	70.9743	68.5435
6030443J06Rik	chr5:22550412-22558171	NOTEST	0.15152	0.14633
5031439G07Rik	chr15:84945719-84987971	OK	12.2838	11.8624
Mpp1	chrX:75095853-75130949	OK	31.4877	30.407
Ctf1	chr7:127712735-127718185	NOTEST	0.872751	0.84278
Abl1	chr2:31688536-31804362	OK	5.99132	5.78419
Vrk3	chr7:44748628-44777514	OK	11.3799	10.9859
Crebbp	chr16:4084047-4213404	OK	8.89468	8.58659
Suv39h2	chr2:3424130-3474986	OK	0.859486	0.829583
Rnf11	chr4:109452856-109476505	OK	116.561	112.503
Pom121	chr5:135369952-135394546	OK	9.97024	9.62297
Lyn	chr4:3678120-3791612	OK	2.54997	2.46111
Kdm5b	chr1:134560177-134632878	OK	7.6052	7.33968
Faf1	chr4:109676626-109963960	OK	20.8421	20.1135
Cd69	chr6:129267324-129275369	NOTEST	0.108449	0.104652
Ptpmt1	chr2:90910712-90918050	OK	13.108	12.6474
Taf7	chr18:36930284-37841872	OK	5.01935	4.84223
Mrpl38	chr11:116131816-116138868	OK	19.8422	19.1401
Ddhd1	chr14:45593170-45658143	OK	20.2686	19.5512
Tnfrsf19	chr14:60963833-61046855	OK	1.89632	1.82909
Ecsit	chr9:22055459-22389206	OK	15.9065	15.342
Chn1	chr2:73596525-73775346	OK	46.2503	44.6071
Epm2a	chr10:11343444-11457477	OK	13.1137	12.6474
Lrrc58	chr16:37868399-37888857	OK	30.5185	29.433
Fhl1	chrX:56731760-56793346	OK	77.1561	74.4106
Arl6ip6	chr2:53192083-53219221	OK	2.61295	2.51986
Rbbp5	chr1:132477366-132505665	OK	14.1427	13.6383
H2-DMb2	chr17:34145415-34151095	NOTEST	0.234541	0.226174
Pde2a	chr7:101421690-101512829	OK	32.1119	30.9661
Ccl27a	chr4:41760442-41774176	OK	9.20475	8.87578
Pim3	chr15:88862193-88865726	OK	21.824	21.044
Psmc6	chr12:55280813-55492647	OK	134.294	129.494
Letmd1	chr15:100469033-100479252	OK	24.0911	23.2292
Stard3	chr11:98358367-98381112	OK	11.987	11.5572
Crtc1	chr8:70382357-70439573	OK	11.7272	11.3038
Pcdhga4	chr18:36930284-37841872	OK	3.10434	2.99217
Vdac2	chr14:21831560-21848910	OK	90.7262	87.4464
Cep350	chr1:155844963-155973255	OK	5.97819	5.76144
Il13ra2	chrX:147383477-147403832	NOTEST	0.112903	0.108802
Lrrc41	chr4:116075464-116123690	OK	23.5232	22.6609
Haus6	chr4:86581284-86612022	OK	4.40007	4.23851
Usp34	chr11:23306894-23498039	OK	20.5185	19.7645
Zbtb39	chr10:127739537-127747339	OK	2.75188	2.65073
Swsap1	chr9:21955752-21958270	OK	7.22081	6.95537
Usp9x	chrX:13071497-13173327	OK	45.8607	44.1744
1500009L16Rik	chr10:83722864-83762762	OK	3.04354	2.93156
1700101I11Rik	chr6:129532183-129542331	OK	1.12865	1.08704
Kcnb2	chr1:15312451-15714214	OK	12.5698	12.1061
Tmem252	chr19:24674007-24861842	NOTEST	0.711851	0.685562
Tdp2	chr13:24831658-24842153	OK	10.3988	10.0146

Nucb2	chr7:116504368-116540588	OK	5.56202	5.35637
Gm4724,OTTMUSG	chr2:176619932-176636319	NOTEST	0.449312	0.432697
Mapk1	chr16:16983381-17047453	OK	103.639	99.796
Nol11	chr11:107166660-107189381	OK	7.491	7.21316
Dnlz	chr2:26315532-26352110	OK	17.4031	16.7552
Pspc1	chr14:56722448-56778316	OK	15.7353	15.1491
Trpm3	chr19:22139116-22989884	OK	9.80285	9.43739
Kctd11	chr11:69878263-69880985	OK	4.40736	4.24216
Zfp174	chr16:3847222-3858880	OK	1.18073	1.13644
Gstm4	chr3:108040407-108044859	OK	6.1059	5.87672
Mtx1	chr3:89209080-89214335	OK	11.8605	11.4146
Mycbp2	chr14:103113410-103346800	OK	30.0018	28.8697
Ackr2	chr9:121898354-121911071	NOTEST	0.0790088	0.076024
Usp8	chr2:126707327-126759314	OK	38.5402	37.0822
Scgb3a1	chr11:49663594-49665118	NOTEST	0.145201	0.139689
2310022A10Rik	chr7:27553289-27582098	OK	3.99166	3.83998
Npm3	chr19:45747733-45749563	NOTEST	0.940716	0.904947
Alkbh7	chr17:56997338-56999336	OK	12.4222	11.9492
Fbxl12os	chr9:20607474-20617271	NOTEST	0.459676	0.442169
Ywhaz	chr15:36770261-36796929	OK	308.313	296.569
Kctd19	chr8:105375380-105413487	NOTEST	0.424489	0.408309
Prkaa1	chr15:5143860-5181899	OK	35.4795	34.1264
Acp1	chr12:30884323-30911612	OK	13.7044	13.1805
Zmym4	chr4:126753554-126967923	OK	10.5299	10.1271
Dicer1	chr12:104687741-104751952	OK	7.52044	7.2322
Rtca	chr3:116488963-116508175	OK	58.7535	56.4968
Cant1	chr11:118406288-118419118	OK	23.1513	22.2612
Ppt2	chr17:34616661-34627097	OK	16.957	16.3046
Ubc	chr5:125385964-125390017	OK	179.525	172.6
Phf8	chrX:151520671-151633857	OK	5.86427	5.63798
Dcp1a	chr14:30008999-30527056	OK	2.81187	2.7032
Hist2h2be	chr3:96221120-96223738	OK	2.39659	2.30382
Tmem168	chr6:13580688-13608063	OK	9.48268	9.11528
Mapre3	chr5:30814755-30866106	OK	105.63	101.531
Prdm9	chr17:15543078-15563323	NOTEST	0.476006	0.457531
Tmem9b	chr7:109735835-109752263	OK	48.8236	46.9277
Mfap1b	chr2:121461665-121474023	OK	3.41481	3.28212
Ppp1r7	chr1:93343644-93367618	OK	24.5674	23.6124
Preb	chr5:30933142-31348845	OK	16.2137	15.5829
Ankrd42	chr7:92584182-92637142	OK	4.96972	4.77634
Stxbp1	chr2:32787606-32847237	OK	271.516	260.939
Mbd2	chr18:70568291-70626131	OK	29.7163	28.5573
Gmps	chr3:63976142-64019078	OK	13.8111	13.2725
Pdhx	chr2:103021056-103073513	OK	16.3145	15.678
Rab3c	chr13:110054186-110280206	OK	87.0667	83.6635
Zfp647	chr15:76910369-76925448	OK	0.960191	0.92261
Cdc73	chr1:143607498-143702684	OK	8.93288	8.58325
Cox8a	chr19:7215157-7217616	OK	393.063	377.672
Sf3b4	chr3:96172549-96177564	OK	7.97668	7.66395
Gm9079	chr10:122078111-122079879	OK	1.14565	1.10073
Mios	chr6:8209226-8236273	OK	7.12747	6.84738
Abhd14a	chr9:106440050-106447678	OK	19.3785	18.6165
Hist1h4a	chr13:23760794-23761249	NOTEST	0.0783882	0.0753014

Haus2	chr2:120604237-120621559	OK	11.7529	11.2901
Spire2	chr8:123332712-123369518	OK	46.569	44.725
Tmem8	chr17:26113315-26123253	OK	12.4836	11.9891
Sgcd	chr11:46978782-47379302	OK	12.4922	11.9973
Hoxa2	chr6:52162416-52164831	NOTEST	0.334514	0.321234
Smc2os	chr4:52430283-52438964	NOTEST	0.747826	0.718136
Smarca5-ps	chr4:145464209-145467961	OK	0.884916	0.849763
Micu3	chr8:40308050-40386304	OK	46.6294	44.7768
Unc50	chr1:37430171-37439124	OK	29.6001	28.4232
Wbscr22	chr5:135052956-135065365	OK	8.78032	8.43096
Abca1	chr4:53030788-53159895	OK	15.1829	14.5784
Trip4	chr9:65828925-65908794	OK	6.96928	6.69182
Fam193a	chr5:34369932-34486458	OK	8.90546	8.55063
Cep44	chr8:56531521-56550566	OK	2.54104	2.43977
Gm13034	chr4:146067523-146068718	OK	1.83327	1.76012
Snx29	chr16:11322903-11755473	OK	7.18061	6.89397
Dnase1l1	chrX:74273216-74282333	OK	5.01391	4.81376
Cacng2	chr15:77993622-78119280	OK	7.82516	7.51179
Ebpl	chr14:61339762-61360445	OK	6.2842	6.0322
Sbno1	chr5:124368701-124425914	OK	17.7442	17.0321
Lta4h	chr10:93453395-93484896	OK	23.7346	22.782
Dcakd	chr11:102994055-103017147	OK	9.52242	9.13902
Pold2	chr11:5861865-5878256	OK	8.17211	7.84134
Tpp2	chr1:43934006-44002971	OK	28.3104	27.1621
BC024978	chr7:27187005-27205386	OK	4.42669	4.24706
1110051M20Rik	chr2:91277827-91444642	OK	45.9366	44.0691
Efhc2	chrX:17132048-17319368	OK	1.65884	1.59115
Slc39a10	chr1:46807543-46853509	OK	19.1155	18.3328
Taok1	chr11:77529161-77607815	OK	26.6684	25.5735
Ppip5k1	chr2:121289601-121351013	OK	19.555	18.7499
Golga1	chr2:39016155-39065541	OK	12.3498	11.8412
Mark1	chr1:184896423-184999549	OK	17.5854	16.8605
Golga3	chr5:110176700-110223155	OK	19.2905	18.4946
A730098P11Rik	chr16:24392555-24992578	OK	23.7915	22.8097
Osbpl2	chr2:180119365-180162680	OK	25.0218	23.9867
Rnf216	chr5:142990892-143113020	OK	8.92068	8.55109
Ap1s2	chrX:163909016-163933666	OK	64.6222	61.9436
Mkx	chr18:6934965-7004779	OK	4.74797	4.55085
Ostc	chr3:130695916-130709444	OK	50.5902	48.4882
Ttf1	chr2:29060262-29087650	OK	1.86043	1.78308
Slc6a15	chr10:103367807-103419379	OK	61.8007	59.2305
Chtop	chr3:90498957-90509443	OK	38.4933	36.8922
Frmpd1	chr4:45184905-45285936	OK	36.2208	34.7096
E2f7	chr10:110745464-110787384	NOTEST	0.126323	0.121043
Ptar1	chr19:23687399-23721129	OK	3.85356	3.69246
Lrrc40	chr3:158036681-158067090	OK	8.8372	8.46746
Fam169b	chr7:68266338-68363092	NOTEST	0.577513	0.553334
Copg2	chr6:30733505-30896794	OK	43.8066	41.9702
Siva1	chr12:112644827-112649152	OK	4.495	4.30655
Helb	chr10:119454033-120112965	OK	1.59763	1.53064
Ddx56	chr11:6257544-6267729	OK	13.822	13.2425
5730455P16Rik	chr11:80360491-80378015	OK	26.8844	25.756
Xiap	chrX:42067835-42109664	OK	24.937	23.8852

Glyr1	chr16:5013901-5049910	OK	52.019	49.8242
Cblc	chr7:19779717-19796809	NOTEST	0.105979	0.101507
Eif2d	chr1:131153206-131173471	OK	10.2182	9.78684
Pelp1	chr11:70392880-70410031	OK	12.5485	12.0179
Prmt5	chr14:54507181-54517470	OK	23.3435	22.3551
Tmem59	chr4:107178629-107200996	OK	185.778	177.908
Atg4c	chr4:99193933-99259787	OK	10.8368	10.3777
Mthfsd	chr8:121097556-121108379	OK	12.8969	12.3504
Whamm	chr7:81571291-81596836	OK	3.25484	3.11673
Trmt12	chr15:58872648-58876781	OK	2.15801	2.06643
Calca	chr7:114631477-114636357	OK	1247.97	1195
Iffo1	chr6:125145240-125161782	OK	23.058	22.076
Mrpl42	chr10:95480805-95501927	OK	39.4224	37.7366
Clns1a	chr7:97696656-97720793	OK	13.0582	12.4965
Nrde2	chr12:100125449-100159653	OK	3.72202	3.5619
Cnih1	chr14:46775567-46788357	OK	117.583	112.498
Hat1	chr2:71389259-71441622	OK	11.1021	10.6219
Rwdd3	chr3:121155401-121171695	OK	1.97341	1.88792
Trappc2	chrX:166440824-166452543	OK	50.1695	47.9834
Daam1	chr12:71831067-71992376	OK	21.9909	21.0299
Lrsam1	chr2:32876133-32961255	OK	48.8774	46.7412
Brox	chr1:183276341-183297008	OK	31.0744	29.7157
Ubxn7	chr16:32332251-32393747	OK	10.1496	9.70553
Mtmr7	chr8:40492537-40634792	OK	49.5211	47.3544
Rnf217	chr10:31501886-31609725	OK	4.397	4.20413
Ift43	chr12:86082560-86162459	OK	10.327	9.87344
Pomgnt1	chr4:116150517-116159844	OK	22.7219	21.7237
Fam120b	chr17:15396201-15433581	OK	18.5861	17.7669
Plekho2	chr9:65552576-65580087	OK	3.5963	3.43769
Smg9	chr7:24399627-24422777	OK	12.3828	11.8348
Mib2	chr4:155654469-155669254	OK	11.9248	11.3969
BC029722	chr2:155775343-155819203	OK	22.5982	21.5965
Sidt2	chr9:45937856-45955249	OK	19.3846	18.5252
Eif1b	chr9:120492605-120495327	OK	151.531	144.805
Sec22a	chr16:35311130-35363918	OK	3.86118	3.68979
Rbfa	chr18:80192263-80200619	OK	14.4666	13.8238
Abhd13	chr8:9977716-9992154	OK	5.33142	5.09438
Alkbh5	chr11:60537682-60558512	OK	14.3514	13.7128
Qars	chr9:108508004-108515941	OK	21.3356	20.3849
Sumf2	chr5:129846989-129879083	OK	4.75505	4.54297
Gbe1	chr16:70313948-70569720	OK	15.869	15.1601
Cdk5rap1	chr2:154335385-154372719	OK	3.72892	3.5623
Rft1	chr14:30654374-30691313	OK	7.88448	7.53216
4933434E20Rik	chr3:89998759-90068347	OK	13.4397	12.834
Rps6kc1	chr1:190772878-190911770	OK	16.466	15.7224
Proser2	chr2:6098499-6130185	OK	1.10309	1.05317
Opa3	chr7:19228388-19246817	OK	22.2051	21.1946
2310061I04Rik	chr17:35892676-35897378	OK	46.8203	44.6888
Stambpl1	chr19:34192269-34240328	OK	11.22	10.709
Slc19a1	chr10:77032738-77050432	OK	11.7656	11.2296
Gnas	chr2:174281236-174346742	OK	1188.5	1134.3
Gabarapl1	chr6:129532183-129542331	OK	433.931	414.131
St6galnac4	chr2:32587077-32599696	OK	2.73028	2.60566

Sh3bp5l	chr11:58330717-58347728	OK	44.8037	42.7574
BC051226	chr17:33908181-33909178	OK	1.82731	1.74371
Zcchc12	chrX:36195903-36199158	OK	6.8724	6.55771
Clcn4-2	chr7:7282315-7299511	OK	50.4307	48.1156
Il17rd	chr14:27039000-27107286	OK	1.72506	1.64586
Nsdhl	chrX:72918520-72958528	OK	42.1236	40.187
Tsks	chr7:44943239-44958037	NOTEST	0.0851439	0.0812218
Wdr24	chr17:25823626-25828730	OK	7.63285	7.2809
Tor1aip2	chr1:156004598-156068859	OK	33.9805	32.4132
2210015D19Rik	chr11:5713416-5784710	OK	5.12908	4.89184
Prrc2c	chr1:162671784-162740556	OK	21.8689	20.8567
Slc6a19	chr13:73681156-73709856	OK	7.19701	6.86371
Wbp2	chr11:116078572-116086964	OK	220.769	210.54
Lphn3	chr5:81021592-81795730	OK	11.2574	10.7358
Rnf111	chr9:70425428-70503725	OK	9.87094	9.41195
Klhl21	chr4:152008890-152017677	OK	12.4983	11.9143
Tor1b	chr2:30953000-30959015	OK	11.4263	10.8923
Fam111a	chr19:12573524-12596566	OK	2.31135	2.20331
Zfp783	chr6:47943174-47965299	OK	0.800517	0.763081
B3gnt1	chr19:5038825-5041134	OK	51.2467	48.8493
Nfyc	chr4:120757434-120831579	OK	3.00894	2.86816
Fbxo17	chr7:28716789-28738140	NOTEST	0.589806	0.562206
Flrt2	chr12:95692225-95785213	OK	2.38437	2.27277
Clptm1l	chr13:73604001-73620639	OK	41.0688	39.1418
Mrpl4	chr9:21002736-21008837	OK	16.8654	16.0735
Gatad2b	chr3:90341653-90358120	OK	11.984	11.4199
Bin1	chr18:32359056-32435740	OK	58.4744	55.7183
Mfn2	chr4:147873585-147904909	OK	84.2123	80.2225
Gm8979	chr7:106075730-106079148	NOTEST	0.0590023	0.0562068
Trmt11	chr10:30534224-30600749	OK	2.85396	2.71864
Rnf185	chr11:3202352-3479831	OK	9.50666	9.05444
Oxct1	chr15:4020110-4155344	OK	86.8921	82.7578
Plagl2	chr2:153227768-153241358	OK	1.31604	1.25339
Nt5c3b	chr11:100415693-100441089	OK	15.6651	14.9189
Zfp940	chr7:29843935-29853648	OK	1.49736	1.42596
BC030336	chr7:120677619-120734854	OK	16.8136	16.0117
Tspan7	chrX:10485115-10596604	OK	219.612	209.133
Zfp84	chr7:29768551-29781419	OK	3.29652	3.13917
Hnf1b	chr11:83850868-83905917	NOTEST	0.167494	0.159498
Lsm8	chr6:18848634-18854052	OK	17.4346	16.6021
Wars2	chr3:99141089-99220203	OK	2.0183	1.92191
Dopey1	chr9:86467153-86571842	OK	7.35892	7.00748
Erlin2	chr8:27023798-27039435	OK	12.4715	11.8755
2700046A07Rik	chr18:62751673-62756347	NOTEST	0.116259	0.110701
Txndc9	chr1:37983866-37997208	OK	5.31535	5.06106
Sap30bp	chr11:115933658-115965534	OK	12.0621	11.4844
Zfp160	chr17:21008940-21028856	OK	3.15559	3.00435
Iars2	chr1:185204167-185329401	OK	31.3852	29.8802
Clp1	chr2:84723121-84727268	OK	3.45481	3.28894
2900009J06Rik	chr1:127729412-127774054	NOTEST	0.607626	0.578198
Nr2c1	chr10:94147930-94197214	OK	4.13268	3.93234
Hmces	chr6:87913975-87936613	OK	5.22625	4.97264
Fkbp3	chr12:65036333-65073938	OK	119.491	113.689

Ubox5	chr2:130589995-130630038	OK	4.07594	3.87795
G6pdx	chrX:74393290-74453778	OK	20.642	19.6367
Lrp12	chr15:39870602-39943757	OK	13.6804	13.0137
Ppp2r2b	chr18:42645220-43059471	OK	77.1138	73.3506
Tomm34	chr2:164053539-164071169	OK	60.2542	57.31
Abat	chr16:8513428-8621567	OK	18.7762	17.8558
Nup98	chr7:102119399-102210166	OK	10.6069	10.0868
Dhx29	chr13:112927792-112969187	OK	11.0221	10.4809
B4galnt4	chr7:141061273-141072119	OK	7.15318	6.8009
Dll3	chr7:28293554-28301785	NOTEST	0.243904	0.231822
Reep5	chr18:34344885-34373415	OK	890.424	846.289
Snrpc	chr17:27840086-27851967	OK	3.52712	3.35211
Cct8	chr16:87454984-87495869	OK	144.2	137.036
Mtfmt	chr9:65435781-65453054	OK	4.83132	4.59105
Cdhr1	chr14:37077848-37098311	OK	18.2599	17.3512
Cbx8	chr11:119038435-119040913	OK	4.36665	4.14891
Fem1a	chr17:56256792-56263608	OK	10.9466	10.4007
Iscu	chr5:113772811-113778282	OK	41.5677	39.4939
Dpcd	chr19:45560614-45660193	OK	30.9467	29.4024
Mta2	chr19:8941919-8952300	OK	12.817	12.1769
Pigg	chr5:108312924-108348779	OK	4.96566	4.71687
Ints3	chr3:90391379-90433636	OK	15.3472	14.5781
Scyl1	chr19:5740903-5771401	OK	27.7511	26.3595
Zfp709	chr8:71882067-71892565	OK	1.4748	1.4008
Sumo3	chr10:77606233-77618331	OK	42.4718	40.3349
Prpf6	chr2:181601318-181655661	OK	23.4357	22.2528
2310015A10Rik	chr12:80120545-80132844	OK	4.46118	4.23595
Setdb1	chr3:95315251-95357202	OK	8.80423	8.35962
Syt11	chr3:88744700-88772599	OK	397.339	377.241
Pfdn2	chr1:171345698-171358170	OK	115.218	109.388
Tmf1	chr6:97151949-97179124	OK	13.6708	12.9786
Gspt1	chr16:11203382-11254325	OK	25.528	24.2338
Nme1	chr11:93958924-93968521	OK	101.94	96.7715
Psmc8	chr7:29174186-29180673	OK	61.8305	58.695
Ptprn2	chr12:116485719-117337012	OK	27.8471	26.4345
Nfe2l2	chr2:75675518-75704641	OK	21.5077	20.4149
Itpkc	chr7:27207169-27228597	OK	2.64697	2.51243
Afg3l2	chr18:67404763-67449136	OK	36.2465	34.4032
Marf1	chr16:14109165-14159274	OK	25.8427	24.528
Tmem201	chr4:149715374-149738068	OK	10.6537	10.1115
Tmem243	chr5:9100736-9161776	OK	8.98719	8.52909
Helq	chr5:100762147-100798600	OK	1.78444	1.69337
Bloc1s1	chr10:128919913-128923524	OK	37.5772	35.6558
Atmin	chr8:116943392-116960445	OK	23.034	21.8538
Fmr1nb	chrX:68761838-68804560	NOTEST	0.257135	0.243953
Cops6	chr5:138161101-138163984	OK	103.567	98.2448
Rab10	chr12:3235790-3309969	OK	80.0846	75.9615
Car12	chr9:66713685-66766845	NOTEST	0.222642	0.211131
Zfp746	chr6:48062394-48086593	OK	4.47653	4.24467
Tsnax	chr8:125012996-125034192	OK	60.2255	57.1056
Coq3	chr4:21879674-21912126	OK	9.92136	9.40678
Nos3	chr5:24364818-24392143	OK	1.49434	1.4168
Fbxo18	chr2:11742572-11777527	OK	20.771	19.6916

Lrp3	chr7:35186384-35215345	OK	24.4896	23.2163
Tmem5	chr10:122081259-122097102	OK	17.212	16.3149
Smg8	chr11:86583864-87555823	OK	7.97302	7.55674
Dtwd2	chr18:49696144-49755601	OK	1.90747	1.8078
Cxcl2	chr5:90903898-90905938	NOTEST	0.428822	0.406405
Rab1	chr11:20201601-20226856	OK	117.211	111.077
Zcchc17	chr4:130316084-130359943	OK	28.1089	26.6376
Pcdha4	chr18:36930284-37841872	OK	3.88481	3.68102
Tmem19	chr10:115340739-115362262	OK	21.7252	20.5853
Pogk	chr1:166379166-166409828	OK	11.6136	11.0039
Birc2	chr9:7818225-7835255	OK	9.15146	8.6706
Ldhd	chr8:111626270-111630322	OK	8.21788	7.78577
Tap2	chr17:34204478-34216321	OK	12.6999	12.032
Dync1i1	chr6:5725638-6028039	OK	86.2154	81.6638
Zfp518b	chr5:38668483-38684826	OK	6.00618	5.68883
Cep290	chr10:100488288-100589259	OK	2.82535	2.67596
Snrk	chr9:122117265-122169702	OK	18.4948	17.5163
Nuggc	chr14:65605266-65648443	NOTEST	0.073047	0.0691822
Atxn10	chr15:85336380-85463836	OK	135	127.832
Cops8	chr1:90603424-90613341	OK	48.1572	45.5993
Ccnj	chr19:40831278-40848570	OK	1.92053	1.81848
Fancb	chrX:164980591-164997272	OK	1.28952	1.22096
Gstm5	chr3:107877229-107898685	OK	93.9995	88.9813
4930481A15Rik	chr19:5406814-5424979	OK	1.19922	1.13475
Mocs2	chr13:114818236-114829420	OK	34.4684	32.6152
Plcx2	chr16:45959260-46010413	OK	21.8484	20.6706
Cpa6	chr1:10324718-10865874	NOTEST	0.0974785	0.092219
Zc3h3	chr15:75754446-75841908	NOTEST	0.438205	0.414495
Kynu	chr2:43555324-43683048	NOTEST	0.180242	0.170467
Agpat6	chr8:23172945-23208453	OK	32.2557	30.4989
Agbl3	chr6:34780431-34859459	OK	3.38376	3.19933
Sbsn	chr7:30751470-30756134	OK	1.14164	1.07937
Lpin2	chr17:71183977-71249818	OK	8.58374	8.11545
Fn3krp	chr11:121421372-121430768	OK	15.0306	14.2087
C230037L18Rik	chr15:89472475-89484850	OK	1.11402	1.05311
Usp40	chr1:87945120-88008551	OK	4.06153	3.83887
Zfp712	chr13:67038593-67061170	OK	2.00275	1.89278
Sec23ip	chr7:128744869-128784835	OK	9.21918	8.71289
Ccdc173	chr2:69758056-69789486	OK	1.14775	1.08469
Srbd1	chr17:85984664-86145175	OK	5.02369	4.74762
Ddx6	chr9:44604891-44640731	OK	52.962	50.0499
Gpr65	chr12:98268634-98276722	NOTEST	0.36008	0.340272
Exoc8	chr8:124890298-124897705	OK	6.27347	5.92812
Prdx1	chr4:116684964-116700000	OK	36.5601	34.5442
Hcrtr1	chr4:130130216-130139162	OK	2.45481	2.31939
Mrpl49	chr19:6046575-6057751	OK	22.7271	21.4726
Dgcr2	chr16:17840355-17891728	OK	32.6722	30.8674
Ppp1r13l	chr7:19361215-19378533	OK	1.70701	1.61271
Pdcd10	chr3:75516489-75556852	OK	10.5203	9.93869
Kmt2e	chr5:23434428-23616571	OK	8.89407	8.40011
Mcidas	chr13:112993867-113000394	NOTEST	0.0403736	0.0381305
9130011E15Rik	chr19:45818143-45998488	OK	12.679	11.9745
Osbp	chr19:11965843-11994114	OK	24.086	22.7455

Zfp667	chr7:6286579-6307883	OK	2.49922	2.36008
Tom22	chr15:79670867-79672862	OK	56.6835	53.5259
Ofcc1	chr13:40001881-40288011	NOTEST	0.00736339	0.00695314
Fam199x	chrX:137049593-137082501	OK	6.54215	6.17753
Osbpl9	chr4:109000804-109202272	OK	40.1544	37.9155
Gm4788	chr1:139697918-139781239	NOTEST	0.00767468	0.00724663
Lrrc28	chr7:67513409-67645236	OK	9.17137	8.65949
Tmem204	chr17:25016085-25099497	OK	3.21844	3.03869
Strn4	chr7:16809266-16840931	OK	12.7328	12.0214
Vmn2r-ps11	chr3:64632862-64844743	NOTEST	0.00935729	0.00883329
Ints5	chr19:8892986-8897890	OK	7.51456	7.09286
Bag3	chr7:128523582-128546979	OK	122.319	115.45
Klf3	chr5:64803522-64830129	OK	6.09005	5.7478
Gabpb2	chr3:95181765-95236424	OK	2.38603	2.25188
Nme6	chr9:109832793-109842961	OK	3.78666	3.57349
Gab1	chr8:80764433-80880479	OK	15.9281	15.0301
Cypr1	chr16:85456243-85550373	OK	3.13386	2.95685
Mtx2	chr2:74825811-74876748	OK	40.4374	38.1526
Nploc4	chr11:120379797-120437700	OK	40.9586	38.6411
Gm7609	chr1:85199610-85213762	NOTEST	0.013703	0.0129272
Ppm1d	chr11:85311253-85347071	OK	2.95746	2.78977
Itfg1	chr8:85717556-85840949	OK	132.186	124.691
1700025G04Rik	chr1:151884523-152090320	OK	9.28579	8.75904
Tram1	chr1:13564701-13589864	OK	22.3631	21.0917
Wdfy3	chr5:101832952-102069921	OK	24.8698	23.4521
2410012E07Rik	chr14:70852932-70873954	NOTEST	0.0502237	0.0473585
Wbp11	chr6:136813653-136828216	OK	24.2111	22.8281
Map2k5	chr9:63163769-63377852	OK	15.849	14.9433
Fam159b	chr13:104845282-104863893	NOTEST	0.0174575	0.0164597
Znhit6	chr3:145576207-145605245	OK	6.06262	5.71463
Ccdc97	chr7:25711116-25719053	OK	16.5891	15.6359
Taf6l	chr19:8772521-8786417	OK	3.61788	3.40974
Rbmx	chrX:57383347-57393036	OK	9.99179	9.41546
Mrpl48	chr7:100549116-100641268	OK	12.6172	11.8894
Nt5m	chr11:59848072-59876533	OK	23.6348	22.2707
Ruvbl1	chr6:88465422-88497566	OK	3.10017	2.92071
Mrpl47	chr3:32727496-32736755	OK	14.5355	13.6927
Ift52	chr2:163017471-163046135	OK	21.0333	19.8128
Phtf2	chr5:20758663-20882124	OK	6.14192	5.78525
Chd1	chr17:15704966-15772612	OK	3.85108	3.62729
Ampd3	chr7:110768205-110812408	OK	16.317	15.3686
Psen1	chr12:83688562-83735199	OK	25.6988	24.2041
AW146154	chr7:41478873-41499890	NOTEST	0.597643	0.562882
Galr1	chr18:82392495-82406777	OK	4.86499	4.58195
Dcun1d2	chr8:13255962-13322924	OK	19.8396	18.6853
Tmem242	chr17:5410863-5440260	OK	70.0142	65.9384
Rprd2	chr3:95759872-95818953	OK	5.28072	4.97316
Fbxo8	chr8:56551133-56593939	OK	4.40978	4.15214
Tyw3	chr3:154576519-154623182	OK	2.12163	1.99767
Slc39a13	chr2:91061780-91070315	OK	12.1428	11.4329
Arhgap31	chr16:38598342-38713035	OK	13.3326	12.5519
Tmem263	chr10:85102626-85117747	OK	11.3041	10.6417
Commd8	chr5:72156999-72168183	OK	7.97201	7.50358

Pomt2	chr12:87106865-87164723	OK	7.93042	7.46256
Atrx	chrX:105797614-105929372	OK	8.78209	8.26384
Msx1	chr5:37820490-37824585	NOTEST	0.301134	0.283352
Znrf2	chr6:54816915-54890224	OK	8.23631	7.74991
Trove2	chr1:143750790-143777051	OK	9.32223	8.77152
Map6	chr7:99267446-99337137	OK	76.3732	71.849
Rac1	chr5:143505480-143527993	OK	162.799	153.141
Zfp574	chr7:25077204-25083492	OK	4.15049	3.90407
Parp16	chr9:65214689-65239219	OK	1.80615	1.69886
Dis3l	chr9:64306755-64341257	OK	12.7391	11.9819
Dgcr14	chr16:17900708-17911348	OK	7.37499	6.93601
Plac8l1	chr18:42178674-42196709	NOTEST	0.0347696	0.0326971
Dennd3	chr15:73512559-73572242	NOTEST	0.611308	0.574834
Slc22a15	chr3:101855770-101924453	OK	2.48204	2.3338
Cep19	chr16:32099801-32108054	OK	25.2782	23.7677
Slc10a7	chr8:78509327-78734012	OK	6.22654	5.85445
Tmx4	chr2:134594501-134644121	OK	63.2066	59.4243
Eif3c	chr7:126546910-126566366	OK	69.6795	65.5099
0610030E20Rik	chr6:72347316-72353160	OK	2.70985	2.54765
Hk1	chr10:62268854-62379908	OK	123.925	116.496
Mrps18b	chr17:35910384-35916369	OK	8.47921	7.96893
Pcdhb11	chr18:36930284-37841872	OK	0.799939	0.751769
Osbpl5	chr7:143688761-143741963	OK	14.1768	13.3229
Etf1	chr18:34902784-34932003	OK	35.5814	33.4381
Zmat3	chr3:32334793-32367438	OK	30.4622	28.6271
Csnk1d	chr11:120961740-120991333	OK	83.2914	78.2714
Csgalnact2	chr6:118107451-118139140	OK	4.58522	4.30862
Vars	chr17:35000906-35016329	OK	16.3673	15.3799
Lonp1	chr17:56614297-56626903	OK	25.8888	24.3268
Hps5	chr7:46760465-46795881	OK	11.4769	10.783
Ttc33	chr15:5185559-5218332	OK	35.2058	33.0741
Arfgef1	chr1:10137506-10232670	OK	37.3536	35.0908
Psmb7	chr2:38588045-38643906	OK	187.514	176.133
Adam9	chr8:24949610-25016922	OK	39.5288	37.1202
Gigyf2	chr1:87326997-87450810	OK	10.5917	9.94625
Trmt6	chr2:132804214-132816054	OK	7.89727	7.41567
Cep68	chr11:20227036-20249424	OK	5.62644	5.28324
Gpkow	chrX:7697133-7710259	OK	9.36834	8.79453
Coa4	chr7:100537099-100539812	OK	5.14797	4.8324
Pfkip	chr13:6548156-6648771	OK	136.399	128.02
Ube2e1	chr14:18271141-18331844	OK	46.2466	43.4055
2610507I01Rik	chr11:59197792-59202431	OK	5.68455	5.33525
Lipa	chr19:34492315-34527474	OK	44.1875	41.4696
Lgals6	chr7:28833793-28841703	NOTEST	0.202527	0.190065
Stx8	chr11:67966482-68207148	OK	5.7426	5.38909
Mccc1os	chr3:35959305-36053547	NOTEST	0.515461	0.483692
Triap1	chr5:115341246-115343552	OK	43.3175	40.6464
Ptplb	chr16:35022420-35109175	OK	8.81942	8.27468
Ei24	chr9:36779152-36797393	OK	53.3067	50.0128
Gtf2e1	chr16:37509795-37539769	OK	10.5603	9.9077
Pcdhb13	chr18:36930284-37841872	OK	1.26039	1.18249
Atp6v1h	chr1:5083172-5162549	OK	123.092	115.475
Scel	chr14:103513340-103613346	NOTEST	0.356401	0.334339

Mfap1a	chr2:121492680-121506656	OK	5.80018	5.4398
Med16	chr10:79697304-80369637	OK	16.9125	15.8609
Zfp846	chr9:20581327-20595193	OK	3.82103	3.58304
Prr14l	chr5:32789206-32854230	OK	6.05532	5.67745
Grpel1	chr5:36465184-36484285	OK	11.3817	10.6703
4930500J02Rik	chr2:104559183-104571429	NOTEST	0.70995	0.665499
Pds5a	chr5:65615259-65697856	OK	14.8584	13.9276
Capza2	chr6:17637097-17666536	OK	119.631	112.127
Dnajb11	chr16:22857844-22899451	OK	27.3342	25.615
Ncam1	chr9:49502145-49799069	OK	51.6381	48.39
Mre11a	chr9:14784706-14834417	OK	5.32351	4.98852
Ube2d1	chr10:71254979-71285262	OK	44.8018	41.9794
Wnt10a	chr1:74792018-74804175	NOTEST	0.17551	0.164446
Hs3st3b1	chr11:63884692-63922284	OK	0.923354	0.865121
Apmap	chr2:150583080-150608523	OK	34.9077	32.7048
Kdm5d	chrY:897787-943811	OK	3.04893	2.85641
Usp10	chr8:119910851-119957557	OK	15.1457	14.1892
Foxn2	chr17:88440711-88490533	OK	3.74866	3.51176
Zdhhc4	chr5:143316488-143329238	OK	14.9945	14.0468
Trmt2a	chr16:18248882-18289168	OK	6.36583	5.96315
Slfm3	chr11:83191329-83215154	NOTEST	0.383217	0.358969
Lypla1	chr1:4807892-4846735	OK	24.0251	22.5029
Rnpepl1	chr1:92910824-92920585	OK	5.22406	4.89223
Ero1l	chr14:45283086-45318572	OK	12.941	12.1186
1810010H24Rik	chr11:107028222-107030442	OK	1.03006	0.96458
Kat2a	chr11:100704745-100712467	OK	18.7352	17.5439
Ap2b1	chr11:83302696-83405033	OK	100.991	94.5656
Sdf4	chr4:155992913-156013610	OK	69.7061	65.2666
Hn1l	chr17:24942469-24960623	OK	5.50848	5.15761
Cln8	chr8:14888535-14901719	OK	6.29611	5.89502
Fbxo34	chr14:47472560-47531962	OK	12.288	11.505
Scd1	chr19:44394449-44407709	OK	272.293	254.934
Cbx6	chr15:79786350-79834333	OK	63.7387	59.675
Gm9776	chr13:94356748-94358923	OK	1.87709	1.75716
2810029C07Rik	chr12:111572316-111574402	NOTEST	0.630246	0.58996
Ccs	chr19:4825365-4839322	OK	15.9161	14.8978
Parn	chr16:13537963-13668170	OK	10.9629	10.2614
Fastkd1	chr2:69686823-69712606	OK	8.37734	7.84115
Gtf2b	chr3:142765246-142783605	OK	36.5679	34.2214
Hoxa10	chr6:52231196-52240854	OK	8.00982	7.49567
Csnk2b	chr17:35116194-35121447	OK	54.2567	50.7722
Ubac2	chr14:121878605-122021035	OK	17.8044	16.6609
Ifnar2	chr16:91372782-91405587	OK	13.9512	13.055
Hist1h3a	chr13:23761884-23762386	NOTEST	0.0658728	0.0616372
Prpf38a	chr4:108564866-108579336	OK	11.44	10.7039
Arf1	chr11:59211411-59228267	OK	145.724	136.347
Nanos1	chr19:60755986-60759914	OK	2.01434	1.88434
Eif3j2	chr2:122028579-122118386	LOWDAT	7.86271	7.35496
Mlh1	chr9:111228227-111271608	OK	4.65431	4.35343
Sec63	chr10:42761495-42832514	OK	18.1574	16.9824
Akna	chr4:63367127-63403445	NOTEST	0.556458	0.520404
Spop	chr11:95414082-95493410	OK	61.7183	57.7107
Pebp1	chr5:117282650-117287564	OK	158.706	148.393

Chrn2	chr3:89715021-89764632	OK	29.1125	27.2191
Gpsm2	chr3:108653912-108722299	OK	6.65794	6.22452
Naa50	chr16:44139808-44163364	OK	19.3054	18.0478
Mpdu1	chr11:69655036-69662642	OK	28.0637	26.2337
Ntmt1	chr2:30807976-30823014	OK	14.109	13.1887
Agps	chr2:75832176-75931350	OK	12.3847	11.5769
Il5	chr11:53720793-53725103	NOTEST	0.163575	0.152903
Nudcd3	chr11:6105691-6200451	OK	28.2275	26.385
Xdh	chr17:73883894-73950196	OK	1.49796	1.40015
Kars	chr8:111993438-112011354	OK	41.6355	38.914
Slc10a3	chrX:74365717-74373349	OK	3.98413	3.72349
Gm15545	chr7:44986899-44997579	NOTEST	0.284694	0.26604
Smg6	chr11:74925871-75164448	OK	8.35738	7.80972
Ipo11	chr13:106794438-106936915	OK	18.4304	17.2213
Nup160	chr2:90677214-90736328	OK	2.97903	2.78332
Ttl4	chr1:74661753-74697973	OK	1.15391	1.07803
Ttbk1	chr17:46442447-46487675	OK	20.1015	18.7785
Socs5	chr17:87107678-87137588	OK	22.6829	21.1896
Hps3	chr3:19957053-20035310	OK	20.4923	19.1427
Yars	chr4:129189794-129261404	OK	41.4152	38.6826
Atxn2	chr5:121711608-121814950	OK	24.793	23.1566
Emc8	chr8:120653913-120668112	OK	16.2809	15.2057
Sco1	chr11:67052669-67067440	OK	3.74308	3.49556
Gm17296	chr8:126426651-126475065	NOTEST	0.47256	0.441295
Zfp959	chr17:55892092-55898930	OK	1.69355	1.58149
Hist1h3b	chr13:23752379-23752840	NOTEST	0.076538	0.0714733
Snap23	chr2:120567670-120600722	OK	3.36234	3.13978
Cnot4	chr6:35022064-35133737	OK	10.7408	10.0296
Abca6	chr11:110176820-110251776	OK	26.5993	24.8374
Tcta	chr9:108302957-108305951	OK	39.1016	36.5109
Fam115a	chr6:42672546-42693059	OK	52.2636	48.7989
Btbd7	chr12:102784647-102878406	OK	5.00568	4.67352
Lrp11	chr10:7589799-7625477	OK	96.7773	90.3487
Babam1	chr8:71396854-71404772	OK	34.512	32.2194
Ephx4	chr5:107403512-107430031	OK	8.90244	8.31098
Zfp68	chr5:138603651-138619743	OK	6.77947	6.32905
Cend1	chr7:141426450-141429420	OK	266.638	248.899
Pip5k1c	chr10:81292971-81319974	OK	53.8979	50.3022
Gtf2h4	chr17:35667738-35673682	OK	8.35494	7.79714
Emc4	chr2:112266313-112368027	OK	82.7538	77.2245
Polr3h	chr15:81872462-81926213	OK	7.99741	7.46287
C130046K22Rik	chr11:103697723-103725573	OK	2.9089	2.71415
Ppp4r1	chr17:65783354-65841926	OK	10.8553	10.1276
Gtf3c2	chr5:30933142-31348845	OK	12.6113	11.7655
Nup54	chr5:92415539-92435199	OK	5.2142	4.8642
Cadps	chr14:12372562-12823079	OK	141.394	131.865
Gm5801	chr4:155943812-155959604	OK	11.0545	10.3083
Atad1	chr19:32672562-32712298	OK	57.9421	54.0307
Ppp2ca	chr11:52098823-52122749	OK	168.747	157.348
Tln1	chr4:43531512-43562583	OK	37.1114	34.6
Hist1h1b	chr13:21779831-21780625	NOTEST	0.211207	0.196879
Zscan21	chr5:138116904-138134265	OK	9.80489	9.13948
Pard6a	chr8:105701147-105703494	OK	11.6128	10.8247

Cox15	chr19:43689688-43753000	OK	8.4219	7.84987
Rpap3	chr15:97675104-97705822	OK	10.0393	9.35656
Ktn1	chr14:47663755-47736564	OK	22.5769	21.041
Nbn	chr4:15957966-15992589	OK	8.75228	8.15572
St6galnac6	chr2:32599708-32620809	OK	26.0093	24.2362
Etfdh	chr3:79603787-79628767	OK	24.3771	22.7142
Homez	chr14:54852736-54864158	OK	2.68457	2.50099
Txk	chr5:72695977-72752777	NOTEST	0.129826	0.12094
Golph3	chr15:12321495-12351267	OK	57.22	53.3015
Zxdc	chr6:90369493-90403486	OK	5.34511	4.97887
Pfn4	chr12:4769294-4778266	OK	1.35675	1.26378
Trmt61b	chr17:71552060-71598761	OK	6.30128	5.86933
Vps52	chr17:33955881-33966488	OK	22.2934	20.7645
Gm14325	chr2:177828990-177840318	OK	5.12281	4.77133
Akr7a5	chr4:139310743-139318786	OK	12.3657	11.517
Tob1	chr11:94211453-94215492	OK	15.1824	14.1352
Nhlrc2	chr19:56548260-56598846	OK	3.60324	3.35462
Bnip3	chr7:138890835-138909506	OK	57.8248	53.8345
Pcdhgc3	chr18:36930284-37841872	OK	24.4794	22.7898
R3hdm2	chr10:127390310-127499384	OK	17.8462	16.6144
Eif2b4	chr5:30933142-31348845	OK	19.2108	17.884
Slc31a1	chr4:62360700-62391769	OK	15.9799	14.8729
Slc41a2	chr10:83231138-83337817	OK	15.0601	14.0162
Selo	chr15:89089106-89123150	OK	15.2361	14.1787
BC023829	chrX:70460055-70477043	OK	14.6358	13.6195
Mrpl55	chr11:59202516-59206002	OK	23.2242	21.6106
Fstl1	chr16:37777054-37836516	OK	871.161	810.597
Aftph	chr11:20685084-20741556	OK	21.2771	19.7976
4930453N24Rik	chr16:64766104-64770939	OK	13.0147	12.1097
Scap	chr9:110333287-110384949	OK	22.7079	21.128
Ddx19a	chr8:110974990-110997823	OK	5.53563	5.15045
Ndufa1	chrX:37187588-37191238	OK	105.91	98.5294
Utp6	chr11:79933955-79962387	OK	16.4598	15.3117
Repin1	chr6:48593882-48599082	OK	5.28037	4.91066
Psmc5	chr2:34852088-34870962	OK	36.9534	34.3631
Ndufb7	chr8:83566757-83571623	OK	128.168	119.179
Neurl4	chr11:69901815-69913824	OK	19.5776	18.2034
Kctd7	chr5:130144887-130155808	OK	8.31264	7.7283
Usp42	chr5:143710325-143732280	OK	3.37573	3.13833
Napg	chr18:62977915-62999451	OK	62.6115	58.2005
1700003E16Rik	chr6:83156403-83162975	OK	2.45934	2.28604
Tnfaip3	chr10:19000909-19015410	OK	1.55295	1.44348
Drg2	chr11:60454616-60468705	OK	31.7719	29.5303
Jag2	chr12:112908589-112929495	OK	16.8313	15.6406
Gpx4	chr10:79697304-80369637	OK	36.3283	33.7579
Rufy1	chr11:50389302-50431111	OK	6.55702	6.09299
Chmp3	chr6:71543853-71581574	OK	94.7664	88.059
Pdp2	chr8:104446718-104624396	OK	2.42075	2.24935
Nudcd1	chr15:44375226-44437685	OK	6.4747	6.01626
Inpp5e	chr2:26389347-26409219	OK	9.52923	8.85127
Pdcd4	chr19:53892230-54033278	OK	23.0767	21.4328
Pcdhga9	chr18:36930284-37841872	OK	1.85381	1.72169
Aamp	chr1:74279839-74284738	OK	61.2917	56.9231

Sympk	chr7:19024376-19054622	OK	29.3568	27.2637
Yipf3	chr17:46248079-46252537	OK	35.6401	33.0987
Tnks1bp1	chr2:85050459-85073048	OK	21.1297	19.6212
Cpsf2	chr12:101975973-102005993	OK	15.9295	14.7919
2810006K23Rik	chr5:124328088-124341852	OK	6.23051	5.78445
2310067B10Rik	chr11:115765432-115799033	OK	11.9756	11.1179
Phc3	chr3:30899294-30969415	OK	6.76805	6.28322
4930429B21Rik	chr3:32334793-32367438	OK	1.59659	1.48219
Cask	chrX:13517080-13846556	OK	13.2777	12.3253
Armcx2	chrX:134804141-134809221	OK	51.8518	48.1316
Abhd17a	chr10:80583648-80590341	OK	59.104	54.8575
Insig2	chr1:121304352-121332589	OK	19.0401	17.6708
Wdr37	chr13:8802965-8871736	OK	28.8778	26.7989
Rsl24d1	chr9:73113468-73123333	OK	20.0762	18.6259
Adprhl2	chr4:126316350-126321703	OK	8.35293	7.74944
Ccrn4l	chr3:51224446-51251654	OK	6.70811	6.22338
Armc9	chr1:86154779-86278284	OK	5.93238	5.50316
Zfp346	chr13:55105308-55135071	OK	6.62234	6.14318
Spcs1	chr14:30999825-31019131	OK	107.153	99.3891
Wbp1	chr6:83119043-83121461	OK	17.3874	16.1252
Sdhb	chr4:140961270-140979192	OK	111.564	103.463
Tma7	chr9:109077987-109082381	OK	30.2979	28.0942
Mga	chr2:119897227-119969581	OK	4.53661	4.20602
Nod2	chr8:88647346-88688474	NOTEST	0.635053	0.588746
Sh3bp2	chr5:34525783-34563639	NOTEST	0.651237	0.603738
Pms2	chr5:143910000-143931756	OK	3.54942	3.29049
Rnaseh2a	chr8:84956609-84966011	OK	8.90313	8.25279
Anks1	chr17:27909305-28062779	OK	9.75897	9.04419
Mtg2	chr2:180070592-180085902	OK	5.67256	5.25697
Etv5	chr16:22381312-22439570	OK	31.2057	28.9169
Snrpb2	chr2:143063068-143072052	OK	27.6349	25.6056
Maged1	chrX:94535473-94542074	OK	226.144	209.53
Rnmt	chr18:68300354-68324852	OK	15.4316	14.2972
Atp8b2	chr3:89939480-89963332	OK	27.4345	25.416
Dcaf5	chr12:80335846-80436601	OK	20.384	18.8836
1700052N19Rik	chr10:4432604-4455140	OK	8.63949	8.00133
Urm1	chr2:29827388-29844996	OK	29.2615	27.0997
Rps6ka3	chrX:159255781-159368244	OK	37.0186	34.2809
Ski	chr4:155154074-155222535	OK	19.1563	17.7387
Tmem69	chr4:116551527-116555943	OK	5.4732	5.06792
Hmx1	chr5:35389116-35392872	OK	2.67929	2.48088
A330035P11Rik	chr14:122097938-122106974	NOTEST	0.199717	0.184924
Gm11696	chr11:109354777-109401369	OK	1.22708	1.13611
Cln3	chr7:126571399-126584280	OK	6.94954	6.43353
Tmem120a	chr5:135735489-135744172	OK	14.1256	13.0764
Raf1	chr6:115601937-115676635	OK	37.7445	34.9392
Tmem117	chr15:94629184-95096097	OK	30.0633	27.8256
Iigp1	chr18:60376028-60392629	OK	3.01302	2.78868
Mtpn	chr6:35508823-35539888	OK	70.695	65.4236
Cenpb	chr2:131127411-131604824	OK	48.5075	44.8871
Scly	chr1:91298337-91321080	OK	9.32179	8.62487
Strada	chr11:106162973-106193603	OK	11.0158	10.1919
Apold1	chr6:134982000-134986836	OK	1.89699	1.75496

Txndc15	chr13:55714649-55726228	OK	31.8966	29.508
Gpr107	chr2:31152315-31216567	OK	19.8711	18.3826
Trip11	chr12:101837371-101913171	OK	8.02058	7.4192
Mcm9	chr10:53537323-53630439	OK	1.35504	1.25336
Zfp454	chr11:50872722-50887443	OK	1.46282	1.35305
Sar1b	chr11:51763662-51791953	OK	32.58	30.1345
Gtpbp4	chr13:8972477-8996012	OK	14.9693	13.8457
Pparg	chr6:115361220-115490401	OK	0.824458	0.762537
H1f0	chr15:79028211-79030500	OK	38.3281	35.4491
Gm608	chr16:44173396-44227466	OK	2.65627	2.45675
Acbd6	chr1:155558119-155687233	OK	20.8831	19.3128
Tbl1xr1	chr3:22076651-22216594	OK	14.1064	13.0449
Syngap1	chr17:26941451-26970645	OK	3.06474	2.83396
Lnp	chr2:74514836-74578948	OK	23.434	21.6657
Rptor	chr11:119602994-119899591	OK	12.5553	11.6079
Cdk12	chr11:98203304-98253540	OK	6.4299	5.94447
Son	chr16:91647823-91679192	OK	47.0546	43.5007
Rmnd1	chr10:4403168-4432352	OK	2.87846	2.66102
Blvra	chr2:127070656-127097084	OK	18.8608	17.4315
D2Wsu81e	chr2:30171523-30178459	OK	10.6518	9.84375
Amigo3	chr9:108049289-108079375	OK	36.2604	33.5089
Bcl6	chr16:23965051-23988612	OK	9.61179	8.88109
Supt6	chr11:78206748-78245703	OK	32.9555	30.449
Pou2f1	chr1:165788680-166002634	OK	1.81265	1.6747
Scrib	chr15:76047185-76069730	OK	4.34482	4.01376
Sh2b1	chr7:126466992-126475130	OK	16.8166	15.5352
Gm13251	chr4:146270384-146469440	NOTEST	0.322531	0.297946
Cers2	chr3:95315251-95357202	OK	48.625	44.916
Fem1c	chr18:46504605-46525971	OK	9.25039	8.54479
Oard1	chr17:48409999-48417270	OK	9.81298	9.06393
Rbm12	chr2:156071840-156111965	OK	6.96465	6.43281
Slc30a9	chr5:67306956-67356145	OK	80.3372	74.1991
Mtmr9	chr14:63523609-63543953	OK	61.2755	56.5906
Isg20l2	chr3:87930313-87940686	OK	4.98942	4.60706
Hdac6	chrX:7930121-7947889	OK	8.09396	7.47251
Ap1b1	chr11:4938755-5042794	OK	60.9556	56.27
Pdcd6	chr13:74303120-74317326	OK	28.3738	26.1923
Ddx3y	chrY:1260714-1286613	OK	16.8977	15.5934
Ncoa3	chr2:165992636-166073242	OK	5.99267	5.52984
Syncrip	chr9:88449363-88482397	OK	13.4956	12.4524
Tbl3	chr17:24700652-24707653	OK	13.2708	12.2434
Pdgfa	chr5:138976971-138994953	OK	30.5855	28.2175
Lace1	chr10:42312584-42478565	OK	6.05598	5.58673
Nus1	chr10:52417546-52440192	OK	26.6755	24.6059
Ears2	chr7:122038820-122067063	OK	2.27703	2.10025
Vac14	chr8:110618637-110720398	OK	10.6658	9.83763
Naf1	chr8:66860216-66890564	OK	3.62534	3.34366
Degs1	chr1:182275769-182282759	OK	150.767	139.047
Man2b2	chr5:36806812-36830649	OK	11.06	10.1997
Hkdc1	chr10:62383136-62422457	NOTEST	0.0812916	0.0749633
Sncaip	chr18:52767810-52915931	OK	0.845859	0.78001
Serinc1	chr10:57515774-57532529	OK	445.666	410.967
Ndel1	chr11:68821445-68853131	OK	68.7472	63.3938

S100a11	chr3:93520495-93526288	OK	27.0381	24.9312
Coa3	chr11:101277969-101278948	OK	99.4551	91.7021
Mturn	chr6:54681623-54703855	OK	58.6502	54.0781
Hlcs	chr16:94129305-94287856	OK	10.4645	9.64824
Emcn	chr3:137341077-137431069	OK	11.6797	10.7686
Rnf167	chr11:70647588-70651414	OK	31.6244	29.1567
Dhrs7b	chr11:60830630-60858423	OK	13.4829	12.4301
Nbr1	chr11:101552106-101581951	OK	40.3203	37.1704
Hectd1	chr12:51743721-51829536	OK	25.2524	23.2781
Abca17	chr17:24264278-24347252	NOTEST	0.126958	0.117032
Gabpa	chr16:84827870-84863778	OK	6.88878	6.34946
Zfp110	chr7:12834809-12850584	OK	7.39343	6.81331
Ttl	chr2:129065946-129096283	OK	105.413	97.1377
Usp14	chr18:9958179-10030149	OK	65.4902	60.3407
Cnot6l	chr5:96070332-96161990	OK	4.71639	4.34419
Nlk	chr11:78567167-78697425	OK	20.3418	18.7358
Chd2	chr7:73426651-73558395	OK	5.39952	4.97312
Ulk1	chr5:110784488-110810081	OK	16.7641	15.4402
C230004F18Rik	chrX:61116377-61139460	OK	3.18297	2.93102
Gltp	chr5:114669499-114690935	OK	12.509	11.5177
Anln	chr9:22055459-22389206	OK	2.30073	2.11837
Snrpn	chr7:59982500-60140219	OK	328.315	302.284
Gpr89	chr3:96871065-96905298	OK	19.406	17.8657
Tor2a	chr2:32757025-32775633	OK	4.09785	3.77251
Ganc	chr2:120355308-120504919	OK	3.52682	3.24678
Ddost	chr4:138304737-138312611	OK	42.0277	38.6873
Frmd3	chr4:74013602-74202214	OK	44.3733	40.8435
Rab22a	chr2:173659844-173702182	OK	20.0517	18.4558
Senp1	chr15:98038743-98132447	OK	1.72619	1.5888
Cept1	chr3:106481985-106547761	OK	23.1459	21.3019
Fam151b	chr13:92449619-92484031	OK	2.31142	2.12721
AF529169	chr9:89590034-89622986	OK	10.6195	9.77246
Golga7	chr8:23241325-23257080	OK	38.0894	35.0501
Prune2	chr19:16956117-17223932	OK	267.7	246.3
Mrpl17	chr7:105803781-105811087	OK	5.67967	5.22543
Pacs2	chr12:113014507-113074401	OK	41.5004	38.1806
Park7	chr4:150897132-150909921	OK	156.285	143.78
Ago3	chr4:126340677-126429542	OK	4.50042	4.13984
Asb7	chr7:66644566-66689561	OK	4.8246	4.438
Pafah1b2	chr9:45965310-45984871	OK	112.152	103.139
Fbxl14	chr6:119432530-119544347	OK	6.38387	5.87061
A4galt	chr15:83226721-83251774	OK	22.0205	20.2485
Macf1	chr4:123349632-123684360	OK	17.5885	16.1727
1700007G11Rik	chr5:98329303-98802019	NOTEST	0.692631	0.636822
Ulk4	chr9:120964453-121277172	NOTEST	0.323992	0.29788
Pgpep1	chr8:70646435-70659738	OK	4.32861	3.97971
Rfc4	chr16:23107467-23127730	OK	3.06267	2.81581
Arhgap20	chr9:51765351-51875885	OK	4.72863	4.34737
Myh13	chr11:67327102-67371502	NOTEST	0.0775103	0.0712603
Alkbh6	chr7:30308752-30314303	OK	19.0094	17.4756
Tanc1	chr2:59612041-59846213	OK	18.6077	17.1042
Fam50a	chrX:74313032-74320149	OK	16.7783	15.4167
Gpr26	chr7:131966459-131985633	OK	1.35071	1.2411

Trim44	chr2:102300118-102400900	OK	49.0071	45.0299
Kctd6	chr14:8214147-8223569	OK	23.6592	21.7359
Tmem82	chr4:141614232-141618633	NOTEST	0.0546913	0.0502421
Itgb3bp	chr4:99765401-99829118	OK	1.93439	1.77697
Echdc1	chr10:29313165-29362442	OK	17.6226	16.1864
Hccs	chrX:169311530-169320343	OK	13.3597	12.2701
Ubl3	chr5:148504630-148552788	OK	70.3481	64.6085
Mrps31	chr8:22411339-22429665	OK	12.1712	11.1771
Wdr19	chr5:65199695-65260415	OK	5.05695	4.6431
Vdac1	chr11:52361114-52389396	OK	339.001	311.258
Clcn3	chr8:60910388-60983311	OK	47.145	43.2867
Prkab2	chr3:97658211-97673067	OK	25.0422	22.9926
Furin	chr7:80389193-80405431	OK	12.9157	11.8553
Copa	chr1:172066012-172122332	OK	83.019	76.2
Fam221b	chr4:43659621-43668859	NOTEST	0.528767	0.485319
Picalm	chr7:90130231-90209447	OK	62.1964	57.0847
Lsm14a	chr7:34344719-34389540	OK	22.6855	20.8205
Adap1	chr5:139271875-139325464	OK	85.2141	78.2086
Ufsp2	chr8:45975527-45999850	OK	31.2736	28.702
Uqcrb	chr13:66900620-66905350	OK	36.5603	33.5531
Txndc17	chr11:72207553-72210487	OK	39.3982	36.157
Parl	chr16:20279820-20302362	OK	24.7862	22.746
Ints12	chr3:133091952-133110985	OK	4.14983	3.80665
Zfp747	chr7:127372536-127376050	OK	2.43221	2.23103
Rtn4	chr11:29692897-30026033	OK	270.371	247.988
Chac1	chr2:119351241-119354327	OK	3.1028	2.84557
Atg4b	chr1:93755032-93789529	OK	42.1735	38.6773
Mtch2	chr2:90847154-90866634	OK	46.6066	42.7408
Tmem170	chr8:111864897-111876675	OK	3.57655	3.27978
Tbc1d19	chr5:53809626-53904380	OK	30.9194	28.3528
Slc35e3	chr10:117733677-117746358	OK	13.9582	12.7952
Zxda	chrX:94791284-94798289	OK	1.30905	1.19992
Fastkd2	chr1:63730624-63753385	OK	9.0572	8.30017
Atg13	chr2:91674611-91710592	OK	29.3174	26.865
Saal1	chr7:46686107-46710651	OK	1.54866	1.41903
Cd2ap	chr17:42792950-42876424	OK	22.7661	20.8596
Adnp	chr2:168180964-168207062	OK	27.9918	25.6446
Tmem184c	chr8:77595977-77610653	OK	68.2989	62.571
Mcmbp	chr7:128696458-128740429	OK	5.56331	5.09674
Pnck	chrX:73655991-73660070	OK	7.95354	7.28647
38230	chr11:53519735-53544096	OK	28.1581	25.7955
Atp5f1	chr3:105942862-105969760	OK	51.9218	47.5601
Nipbl	chr15:8289823-8444463	OK	5.31762	4.87039
Msrp3	chr10:120781100-120898971	OK	4.15776	3.80772
Zfp691	chr4:119169517-119174195	OK	2.64742	2.42452
Pelo	chr13:114958080-115101964	OK	10.6948	9.7915
Zscan2	chr7:80862107-80876513	OK	2.00789	1.83823
Fam104a	chr11:113649528-113684151	OK	11.9377	10.929
Pcdhga5	chr18:36930284-37841872	OK	3.00544	2.75124
Nup214	chr2:31974449-32053975	OK	6.85317	6.27317
Gid8	chr2:180710225-180721599	OK	16.4011	15.0112
Tnrc18	chr5:142724604-142817387	OK	8.14999	7.45925
Tmem41b	chr7:109972186-109986230	OK	14.0623	12.8695

Pgm2	chr4:99929450-99987294	OK	59.8389	54.7576
Asic4	chr1:75450509-75474340	NOTEST	0.030599	0.0279993
Trdmt1	chr2:13510160-13544664	OK	2.17549	1.99049
Ppp6r2	chr15:89211558-89286261	OK	25.6931	23.508
Phf2	chr13:48801749-48870885	OK	6.35394	5.8134
Samd9l	chr6:3372257-3399571	OK	3.62134	3.31315
Ints4	chr7:97480955-97541398	OK	16.1333	14.7598
Vrk1	chr12:106010262-106077410	OK	4.39673	4.02237
P4ha1	chr10:59323295-59373304	OK	14.2054	12.9945
E130317F20Rik	chr10:79697304-80369637	OK	0.868161	0.794152
Elp2	chr18:24603960-24638830	OK	39.6609	36.2785
Clpb	chr7:101663767-101790168	OK	11.7709	10.7665
Nckipsd	chr9:108808379-108818366	OK	19.918	18.2174
Sptssa	chr12:54645373-54656572	OK	32.0593	29.3187
Sumf1	chr6:108107020-108185583	OK	19.8247	18.1291
Nr2f6	chr8:71374118-71381952	OK	9.08482	8.30753
Gemin5	chr11:58120000-58168539	OK	6.44124	5.8897
Zfp952	chr17:32993138-33005457	OK	4.00665	3.66355
Sox6	chr7:115470871-116038744	OK	1.61625	1.47742
Adpgk	chr9:59291571-59316200	OK	10.3101	9.42366
Cnot1	chr8:95719450-95821728	OK	14.9776	13.6887
Mrpl12	chr11:120484668-120488754	OK	45.2533	41.3567
Cdk5r1	chr11:80477045-80481179	OK	21.2776	19.4453
Ccdc127	chr13:74350316-74365783	OK	25.9113	23.6786
Gpatch2l	chr12:86241877-86291368	OK	8.06012	7.36559
Rnf187	chr11:58932287-58938906	OK	215.53	196.956
BC004004	chr17:29268787-29302887	OK	25.6704	23.4569
Oxsm	chr14:16238658-16311926	OK	4.01728	3.67081
Zfp516	chr18:82910878-83005314	OK	7.13062	6.51552
Cpsf1	chr15:76576358-76607591	OK	8.47002	7.73925
Ly75	chr2:60293759-60383231	OK	1.94993	1.7817
Trim45	chr3:100922492-100936925	OK	4.08478	3.73173
Pex5l	chr3:32949633-33143191	OK	53.5443	48.915
Chmp7	chr14:69716978-69732570	OK	36.0481	32.9298
Dlgap1	chr17:70424791-70821413	OK	14.6749	13.403
Fancm	chr12:65075605-65132058	OK	1.95684	1.78708
Nfya	chr17:48386884-48409820	OK	6.73111	6.14684
Dpp9	chr17:56186681-56218889	OK	26.4732	24.175
Zfp532	chr18:64887755-65751537	OK	4.30053	3.92684
Heatr1	chr13:12395374-12438893	OK	3.87757	3.54043
Tyw1	chr5:130255618-130341567	OK	3.83165	3.49845
Ddx4	chr13:112598332-112652310	OK	1.14457	1.04485
Tmem8c	chr2:27061635-27072161	NOTEST	0.64165	0.585675
Ube4b	chr4:149328415-149426631	OK	43.2191	39.4486
Nif3l1	chr1:58447632-58462276	OK	12.2067	11.1413
Ncstn	chr1:172066012-172122332	OK	36.8327	33.6157
Chrn3	chr8:27368710-27399730	OK	4.60149	4.19937
Kdm3a	chr6:71588969-71632917	OK	4.88886	4.46141
Mrps9	chr1:42851232-42905683	OK	23.5451	21.4854
Wdr45b	chr11:121327202-121354447	OK	24.7847	22.615
Mex3a	chr3:88532394-88541394	NOTEST	0.323512	0.295191
Actr10	chr12:70937856-70964717	OK	38.7342	35.3431
0610010K14Rik	chr11:70235203-70237914	OK	13.9363	12.7162

Klhl17	chr4:156229043-156234857	OK	12.426	11.3372
Nup107	chr10:117750642-117792705	OK	8.96685	8.18102
Tmem70	chr1:16665190-16678275	OK	21.0844	19.2365
Apoa1bp	chr3:88056522-88058495	OK	58.4603	53.3309
Zbtb33	chrX:38189792-38252481	OK	5.87104	5.35544
Zfp938	chr10:82224855-82241275	OK	12.306	11.2245
Ssr4	chrX:73787027-73790828	OK	42.7931	39.0305
Alg12	chr15:88805242-88819318	OK	6.94549	6.3338
Cirh1a	chr8:106893639-106923094	OK	11.0062	10.0354
Rims1	chr1:22288421-22432843	OK	8.01933	7.31129
Emc6	chr11:73175502-73177042	OK	21.1078	19.2419
Ppapdc3	chr2:32095650-32110820	OK	8.86898	8.08458
Tatdn2	chr6:113697498-113711068	OK	12.6023	11.4863
Btrc	chr19:45363733-45533343	OK	17.1866	15.6643
Alyref2	chr1:171503477-171504750	OK	1.71712	1.56469
Akr1c14	chr13:4059590-4090422	OK	3.18211	2.89931
Eif4ebp2	chr10:61432496-61452669	OK	7.87133	7.17172
Snrnp200	chr2:127208403-127240451	OK	25.517	23.246
Aqp11	chr7:97726378-97738247	OK	5.4632	4.97641
Zfp91	chr19:12763527-12796123	OK	28.0563	25.5556
Trpc1	chr9:95706628-95750358	OK	11.4667	10.4444
Ttc38	chr15:85832303-85858822	OK	6.18803	5.63611
Asna1	chr8:85017930-85025278	OK	63.1809	57.545
Herc6	chr6:57580991-57665136	OK	1.24288	1.13197
Top1mt	chr15:75657032-75678790	OK	6.02102	5.48329
Kdm5a	chr6:120324321-120444574	OK	5.80029	5.28199
Rdh12	chr12:79208913-79222661	NOTEST	0.811649	0.739094
Jup	chr11:100368855-100397790	OK	54.6737	49.7859
Wdr90	chr17:25838837-25861515	NOTEST	0.645088	0.587408
Zfp748	chr13:67538640-67553152	OK	2.27593	2.07239
Tbl1x	chrX:77511226-77660265	OK	17.5377	15.9685
Krt83	chr15:101431013-101491512	NOTEST	0.0417305	0.0379961
Fat3	chr9:15910192-16378231	OK	4.07559	3.70985
Cenpq	chr17:40923054-40934551	OK	4.10887	3.74009
Cd300a	chr11:114890040-114904651	NOTEST	0.206307	0.187787
Dnajc9	chr14:20384637-20388910	OK	12.8856	11.7287
Tvp23a	chr16:10411937-10447350	OK	34.183	31.1093
Psmc6	chr14:45329823-45349071	OK	103.893	94.5498
Zdhhc17	chr10:110941779-111010066	OK	44.1132	40.146
Slc16a7	chr10:125227484-125328535	OK	4.99235	4.54293
Mrpl28	chr17:26123502-26126613	OK	35.7899	32.5636
Dazap2	chr15:100615661-100620761	OK	69.6562	63.3768
Sf3b6	chr12:4817607-4827659	OK	23.6492	21.5138
Nrxn2	chr19:6418737-6533217	OK	46.2241	42.0434
Mtmr3	chr11:4480867-4594815	OK	19.8438	18.0488
Ptrhd1	chr12:4133396-4240123	OK	4.98387	4.53299
Gm5	chr5:150499746-150502219	OK	1.64004	1.49157
Klhl22	chr16:17759620-17793382	OK	19.637	17.859
Zfp612	chr8:110079733-110092752	OK	5.99448	5.45155
Spag9	chr11:93996090-94126082	OK	71.1027	64.6626
4632415L05Rik	chr3:19894870-19898984	OK	6.40125	5.82093
Spock3	chr8:62951231-63357096	OK	48.8951	44.461
Ppat	chr5:76913248-76967505	OK	6.70926	6.10061

Ccne1	chr7:38097983-38107490	OK	7.00212	6.36646
Dnajc30	chr5:135052956-135065365	OK	13.3734	12.1592
Setx	chr2:29124991-29182471	OK	8.84977	8.04533
Tmem80	chr7:141297175-141338783	OK	11.6	10.5431
2810025M15Rik	chr1:157135182-157420236	OK	6.48373	5.89277
Ica1	chr6:8630526-8778484	OK	23.1468	21.034
Fndc3a	chr14:72537952-72710003	OK	9.72627	8.83829
Golga2	chr2:32288252-32307921	OK	32.5648	29.5851
Pggt1b	chr18:46239948-46280850	OK	6.19299	5.62617
Pik3c2a	chr7:116337275-116443458	OK	6.88168	6.2517
1110037F02Rik	chr4:11485957-11551143	OK	6.90022	6.26807
Htt	chr5:34761739-34912534	OK	17.9848	16.3364
Aggf1	chr13:95350682-95375357	OK	15.4373	14.0203
Nsun3	chr16:62734851-62786716	OK	2.99017	2.71561
Ankrd27	chr7:35586246-35639237	OK	24.1329	21.9133
Ap5m1	chr14:49012143-49087723	OK	7.25365	6.58629
Samhd1	chr2:157097528-157135222	OK	10.5532	9.58198
Epg5	chr18:77938466-78035027	OK	7.23139	6.56537
Tnfrsf26	chr7:143607684-143627845	NOTEST	0.0884214	0.0802712
Rtn4ip1	chr10:43901806-43947862	OK	15.194	13.7914
Fgf12	chr16:28158583-28753243	OK	95.9599	87.0974
Cdv3	chr9:103353101-103365780	OK	28.9677	26.2884
6430562O15Rik	chr13:99344785-99415561	NOTEST	0.334891	0.303901
L3mbtl1	chr2:162943464-162974522	OK	2.86888	2.60332
Mgat1	chr11:49244190-49263024	OK	17.2867	15.6855
Atxn1l	chr8:109726450-109737739	OK	8.27541	7.50879
Cox6c	chr15:35931975-35938246	OK	251.122	227.847
Rbm19	chr5:120116512-120198971	OK	3.39168	3.07727
Akap1	chr11:88830791-88864586	OK	8.35161	7.57716
Degs2	chr12:108371152-108702306	OK	0.888192	0.805667
Mto1	chr9:78448209-78474152	OK	7.73593	7.017
Olig1	chr16:91269768-91271939	NOTEST	0.0467634	0.0424134
Cdkl3	chr11:52004220-52084667	OK	3.44722	3.12645
Tmem8b	chr4:43668970-43692667	OK	16.3965	14.8698
Derl1	chr15:57869501-57892418	OK	31.7428	28.786
Cnih4	chr1:181150930-181168994	OK	14.5698	13.2114
Herc2	chr7:56050154-56231798	OK	32.1133	29.118
Ttc19	chr11:62281472-62457332	OK	16.9621	15.3797
Nmd3	chr3:69722054-69749046	OK	15.6547	14.1942
Foxk1	chr5:142401496-142462015	OK	7.60638	6.89656
Gltscr1	chr7:15971261-15999495	OK	2.48216	2.25047
Tmem230	chr2:132239491-132247788	OK	24.6013	22.3044
Prr12	chr7:45027706-45052881	OK	6.58155	5.96688
Myg1	chr15:102331708-102338138	OK	16.0268	14.5232
Tdrd3	chr14:87416582-87545508	OK	11.1173	10.0729
AU021092	chr16:5211818-5222299	OK	1.05865	0.959185
Zfp429	chr13:67389327-67399767	NOTEST	0.756932	0.685715
Pi4k2a	chr19:42090434-42122218	OK	49.4282	44.7736
Elk1	chrX:20933394-20950608	OK	4.37038	3.95716
Tmem66	chr8:34154562-34170847	OK	150.911	136.641
Tmem106b	chr6:13069758-13089269	OK	29.0479	26.3012
Tmem129	chr5:33653215-33657832	OK	14.037	12.7094
Dcaf17	chr2:71055743-71099142	OK	1.81833	1.64601

Cdk16	chrX:20688492-20699877	OK	95.6374	86.5716
Elac2	chr11:64979034-65162961	OK	11.0119	9.96668
Gtpbp8	chr16:44738878-44746363	OK	12.4791	11.2936
Trim32	chr4:65380802-66404483	OK	33.366	30.1956
Eif2b1	chr5:124570213-124579057	OK	14.9168	13.4986
Pld3	chr7:27532017-27553112	OK	77.6648	70.2794
Qser1	chr2:104754792-104816696	OK	3.31919	3.00343
Zfp273	chr13:67796593-67830985	OK	1.49576	1.35331
Herc1	chr9:66350449-66514593	OK	30.4366	27.5377
Tubb4b	chr2:25218744-25224702	OK	445.965	403.487
Klhl3	chr13:58004956-58102428	OK	2.24195	2.02839
Eltd1	chr3:151437881-151545081	OK	5.52991	5.00293
Tpp1	chr7:105744846-105752207	OK	16.193	14.6474
Patl1	chr19:11912398-11945096	OK	5.76077	5.2107
A830082N09Rik	chr10:33987215-33995055	OK	2.70867	2.44997
Nsun2	chr13:69612015-69635779	OK	23.3769	21.1433
Ddx19b	chr8:111003185-111031751	OK	5.9948	5.42189
BC049762	chr11:51253650-51262951	NOTEST	0.433444	0.392018
Acot6	chr12:84100653-84109783	OK	2.58795	2.34022
Tdrp	chr8:13952007-13974777	OK	17.0787	15.443
Zfp281	chr1:136624900-136630391	OK	6.42809	5.81244
Zfp526	chr7:25221450-25227505	OK	2.26279	2.04603
Lias	chr5:65391496-65409207	OK	22.528	20.3696
Ttc17	chr2:94300765-94406689	OK	8.88633	8.03468
Cdk7	chr13:100669480-100730942	OK	13.0895	11.8329
Ankrd45	chr1:161142711-161170507	OK	7.33554	6.63128
Wnt3a	chr11:59248041-59290751	NOTEST	0.0475546	0.0429859
Selt	chr3:58576657-58593546	OK	113.32	102.413
Dcaf10	chr4:45342100-45379722	OK	5.68812	5.14011
Senp8	chr9:59734258-59750649	OK	5.46427	4.93782
Cdc42se1	chr3:95181765-95236424	OK	25.3501	22.9066
Insr	chr8:3150921-3279617	OK	6.73199	6.08293
Timm8b	chr9:50603900-50625000	OK	78.9626	71.3467
Def8	chr8:123442955-123463899	OK	28.0677	25.3604
Mllt4	chr17:13716435-13905794	OK	9.98801	9.02277
Tcp111	chr2:104679979-104712162	OK	29.1479	26.33
Wipf2	chr11:98863597-98905578	OK	8.95808	8.09036
Zfp27	chr7:29893336-29906567	OK	3.07762	2.77941
Btbd6	chr12:112959861-113000621	OK	11.9731	10.812
Tpd52l1	chr10:31332379-31445921	OK	3.37785	3.05012
Ipo9	chr1:135382314-135430491	OK	19.1368	17.2792
Uso1	chr5:92137937-92202795	OK	38.0048	34.3065
Slc45a4	chr15:73580290-73624744	OK	23.2557	20.9916
Anxa6	chr11:54978961-55033471	OK	273.269	246.653
Dhrs7	chr12:72650352-72664828	OK	33.7367	30.4483
Ppp2r5e	chr12:75450880-75596200	OK	23.0649	20.8165
Erich6	chr3:58616299-58637207	OK	0.913449	0.824304
Abcf3	chr16:20548602-20561603	OK	26.1238	23.5742
Ndst2	chr14:20723729-20734562	OK	2.65639	2.39706
Acvr2a	chr2:48814108-48949267	OK	8.5808	7.74301
Dusp2	chr2:127336158-127338377	NOTEST	0.266198	0.240202
Smurf2	chr11:106820063-106920715	OK	9.27665	8.37048
Xrcc4	chr13:89848913-90089608	OK	5.43874	4.9074

Oprk1	chr1:5588492-5606133	OK	0.923384	0.833171
Gtf2h3	chr5:124579147-124597680	OK	4.18491	3.77589
Thbs3	chr3:89215186-89226837	OK	1.53584	1.38563
Cpd	chr11:76777207-76847008	OK	26.9856	24.3453
Eps8l1	chr7:4464734-4480487	OK	1.11211	1.0033
Suv420h1	chr19:3767420-3818303	OK	8.04648	7.2583
Fam175a	chr5:100804801-100820935	OK	1.57764	1.42282
Prrc2b	chr2:32151147-32234537	OK	42.5344	38.3572
Neur13	chr1:36264601-36273425	NOTEST	0.427809	0.385726
1700001G17Rik	chr1:33669823-33670712	NOTEST	0.484043	0.436376
Emg1	chr6:124663103-124712178	OK	20.009	18.0376
B3gnt11	chr11:121451948-121673151	OK	1.08542	0.978411
Thbd	chr2:148404470-148408188	OK	13.1298	11.8331
Erap1	chr13:74639871-74691875	OK	4.98742	4.49442
Adck5	chr15:76576358-76607591	OK	3.71386	3.34644
BC031361	chr16:38085063-38246079	OK	0.932586	0.840136
Pcmt1	chr10:7630235-7664623	OK	121.07	109.058
Ikbkap	chr4:56749679-56809605	OK	17.1339	15.4333
Cirbp	chr10:79697304-80369637	OK	40.2849	36.2865
Tctn1	chr5:122209728-122264460	OK	5.34367	4.81316
Zfp113	chr5:138139701-138155744	OK	1.67363	1.50735
Phf11b	chr14:59320963-59341330	OK	1.02185	0.920276
Aff1	chr5:103754161-103855322	OK	7.26724	6.5446
Dnm1	chr2:32308470-32353304	OK	180.496	162.528
Nipa1	chr7:55962530-56019573	OK	38.5539	34.7141
Ssr3	chr3:65379656-65392553	OK	66.2326	59.6348
Leprot	chr4:101647782-101659358	OK	24.2307	21.8156
Ube2v1	chr2:167607638-167632005	OK	21.4693	19.3294
Actr3b	chr5:25760025-25850341	OK	34.5972	31.1485
Glt8d1	chr14:30999825-31019131	OK	12.4222	11.1829
Pcid2	chr8:13077524-13105343	OK	11.5308	10.3796
Igfbp3	chr11:7206090-7213923	OK	6.70453	6.03491
Upp2	chr2:58567333-58792971	OK	5.6781	5.11083
Rlim	chrX:103957166-103981284	OK	17.4013	15.6608
Dbn1	chr13:55473427-55488076	OK	52.3355	47.0938
Psmc2	chr16:20651651-20663414	OK	94.9439	85.4336
Pdk1	chr2:71873223-71903858	OK	12.2325	11.0052
Ing3	chr6:21949614-21976037	OK	3.47032	3.12202
Zbtb18	chr1:177444660-177450764	OK	20.7048	18.6237
Zfyve28	chr5:34194893-34288324	OK	30.1622	27.1282
Hddc3	chr7:80343136-80346097	OK	1.88266	1.69317
Mtf1	chr4:124802548-124850730	OK	3.28867	2.95766
4933408B17Rik	chr18:34579845-34597468	NOTEST	0.132523	0.119184
Thsd7b	chr1:129273303-130219278	OK	4.21816	3.79351
Galnt14	chr17:73493750-73710451	OK	33.5063	30.1252
Sod2	chr17:13007838-13018119	OK	40.318	36.2494
Gcc2	chr10:58255525-58305592	OK	13.5523	12.1832
Cdc16	chr8:13757689-13781882	OK	18.959	17.0421
Tmco1	chr1:167308669-167333978	OK	10.1723	9.14337
Mrps5	chr2:127587425-127603986	OK	14.2948	12.8479
Zfp354c	chr11:50811084-50827731	OK	7.12442	6.40275
Kdm2a	chr19:4316146-4397077	OK	16.7091	15.0162
Rint1	chr5:23787743-24161231	OK	9.05095	8.13141

Coq5	chr5:115279701-115296972	OK	10.7419	9.64984
Exoc6b	chr6:84618485-85069513	OK	20.0741	18.0328
Tgoln1,Tgoln2	chr6:72608420-72617000	OK	87.594	78.6761
Cwf1912	chr9:3404084-3479236	OK	7.89695	7.09218
Ank	chr15:27466676-27594907	OK	48.0256	43.1305
Man2a1	chr17:64601648-64755110	OK	2.57488	2.31243
Katnal1	chr5:148871583-148928647	OK	21.0354	18.888
Hecw1	chr13:14226437-14523226	OK	26.4977	23.7911
Cd59a	chr2:104095800-104115410	OK	59.2093	53.1577
Pcdhga3	chr18:36930284-37841872	OK	5.85936	5.26042
Elp4	chr2:105700108-105904500	OK	5.90166	5.29817
Tubgcp6	chr15:89089106-89123150	OK	7.04683	6.32623
Nck1	chr9:100495002-100546053	OK	14.4647	12.9852
Rpe	chr1:66700892-66817595	OK	13.9061	12.4834
Rhobtb2	chr14:69784989-69805545	OK	17.0962	15.3466
Impa1	chr3:10313539-10331439	OK	39.6516	35.5907
3110001I22Rik	chr16:13671857-13703612	OK	0.910525	0.817188
Med29	chr7:28385246-28392690	OK	2.16458	1.94259
Pccb	chr9:100982037-101034875	OK	27.6725	24.8318
Aldh18a1	chr19:40550256-40588463	OK	9.12505	8.18796
Prep	chr10:45067213-45158995	OK	30.4616	27.3282
Prss57	chr10:79697304-80369637	NOTEST	0.0439249	0.0394051
Rbpms	chr8:33782643-33929863	OK	2.42382	2.1744
Psm13	chr7:140882393-140898642	OK	74.4044	66.7478
Atcay	chr10:81194690-81230779	OK	36.6414	32.8707
Chp1	chr2:119547706-119587022	OK	158.619	142.295
B3gnt7	chr1:86303220-86307305	NOTEST	0.070843	0.0635514
Slc22a5	chr11:53864541-53891703	OK	6.13769	5.50591
Ebag9	chr15:44619640-44641026	OK	13.1453	11.7909
Pcdha2	chr18:36930284-37841872	OK	3.3864	3.03718
Ipo13	chr4:117894492-117914999	OK	20.0339	17.9671
Ccdc160	chrX:52791199-52799468	OK	4.01019	3.59646
E2f3	chr13:29906574-29986063	OK	8.84659	7.93281
Nup43	chr10:7667503-7678886	OK	4.87456	4.37102
Zfp87	chr13:67515781-67526231	OK	4.09093	3.66817
Ttc37	chr13:76098733-76187983	OK	7.18516	6.44216
Rab2a	chr4:8535643-8607702	OK	135.288	121.228
Tm9sf4	chr2:153161300-153210463	OK	18.1469	16.2606
Rab44	chr17:29135055-29148976	NOTEST	0.0656949	0.0588582
Ptk7	chr17:46564450-46629504	OK	10.8008	9.67616
Ppip5k2	chr1:97706042-97770092	OK	20.5796	18.4354
Zfp369	chr13:65278853-65297795	OK	4.14599	3.71374
Ppp1r12b	chr1:134765942-134955940	OK	7.1831	6.43379
Inpp5f	chr7:128611364-128696436	OK	23.7653	21.2858
Zbtb43	chr2:33450287-33468532	OK	3.45994	3.09894
Pikfyve	chr1:65186684-65278696	OK	5.55488	4.97522
Scarf1	chr11:75513540-75526580	OK	0.880231	0.788281
Sgcb	chr5:73632748-73647731	OK	35.3726	31.6766
Myo1d	chr11:80482126-80780025	OK	12.4928	11.1872
Mrpl13	chr15:55534094-55557312	OK	41.316	36.9979
Taf12	chr4:132274374-132293330	OK	8.17565	7.32109
Rcn2	chr9:56041844-56059083	OK	25.3986	22.7431
Crem	chr18:3266353-3366863	OK	3.51079	3.14317

Heatr3	chr8:88137884-88171943	OK	10.8567	9.71974
Ghdc	chr11:100766331-100770957	OK	6.10966	5.46849
Pcnx12	chr8:125751507-125898317	OK	12.9657	11.6044
Utp11l	chr4:124678763-124693554	OK	13.4382	12.0259
Atf7ip	chr6:136518850-136607379	OK	9.44276	8.45029
Man2a2	chr7:80349096-80371375	OK	21.6222	19.3455
Rbbp4	chr4:129287620-129335370	OK	28.0324	25.0797
Ikbkg	chrX:74393290-74453778	OK	8.9128	7.97357
Rhbdd1	chr1:82316578-82445367	OK	6.79282	6.07687
Papss1	chr3:131564767-131643671	OK	37.5167	33.5553
Slc25a4	chr8:46207340-46211009	OK	723.098	646.743
Mob1b	chr5:88720870-88758455	OK	5.34843	4.78347
Kif3a	chr11:53567368-53604246	OK	72.9081	65.2038
Klhl12	chr1:134455554-134490873	OK	18.0506	16.143
Ep400	chr5:110664372-110770717	OK	6.40452	5.7271
Ube2j1	chr4:33031424-33052364	OK	81.199	72.6021
Gca	chr2:62664326-62694109	OK	6.49808	5.80977
Zdhhc7	chr8:120081094-120101472	OK	17.0952	15.2819
Gcfc2	chr6:81923668-81965949	NOTEST	0.691647	0.618204
Eif2ak4	chr2:118388616-118475234	OK	3.33929	2.98445
Gla	chrX:134588168-134601005	OK	11.6123	10.3781
Rbl2	chr8:91070056-91135496	OK	9.51299	8.501
Gm15417	chr3:89377645-89398779	OK	1.81617	1.62297
Akt2	chr7:27591559-27639453	OK	9.58228	8.56242
Lonrf2	chr1:38794508-38821215	OK	33.3925	29.8362
Kif3c	chr12:3365131-3426747	OK	72.6965	64.9529
4732491K20Rik	chr17:12318852-12327250	OK	1.92696	1.72134
Eprs	chr1:185363094-185428355	OK	45.7723	40.8811
Pgk1	chrX:106187099-106203699	OK	14.3932	12.855
Trappc12	chr12:28690627-28750453	OK	25.7822	23.0202
Arhgef33	chr17:80307406-80388689	NOTEST	0.189942	0.169573
Mrpl10	chr11:97041585-97049213	OK	32.5637	29.0698
Dnajb14	chr3:137867674-137908931	OK	20.9788	18.7245
Ifi47	chr11:49037659-49135387	OK	2.04867	1.82822
Slc9a5	chr8:105348257-105369881	OK	2.83572	2.53058
Taf1	chrX:101532734-101601789	OK	13.5741	12.1122
Usp37	chr1:74409383-74588028	OK	5.13485	4.5812
Zfp35	chr18:23989633-24005371	OK	10.2482	9.14246
C2cd3	chr7:100372232-100470159	OK	2.38591	2.12844
Slc39a11	chr11:113244854-113565815	OK	8.48422	7.56811
Gpcpd1	chr2:132529081-132578248	OK	30.9269	27.5873
Slc12a5	chr2:164967987-164999731	NOTEST	0.1865	0.166358
Tsr1	chr11:74898079-74925798	OK	9.91271	8.84184
Eif3i	chr4:129591973-129600648	OK	57.2247	51.0418
Papd7	chr13:69497958-69533864	OK	6.57052	5.86027
Twf2	chr9:106203107-106215387	OK	11.8353	10.5541
Gm20597	chr10:53498442-53518989	NOTEST	0.526606	0.469574
Ano10	chr9:122175873-122294423	OK	28.4491	25.367
Phtf1	chr3:103914119-104007491	OK	29.4054	26.2181
Slc16a11	chr11:70213909-70216414	NOTEST	0.30694	0.273668
Itgb1	chr8:128685653-128733579	OK	127.029	113.247
Spcs2	chr7:99837568-99858883	OK	21.2809	18.9715
Ubr4	chr4:139380658-139489532	OK	30.8577	27.5038

Eif2b5	chr16:20498816-20509325	OK	30.5899	27.2589
Spag1	chr15:36179529-36235177	OK	1.1878	1.05833
Rnls	chr19:33137744-33392295	OK	0.86978	0.774969
Rasl11b	chr5:74195325-74199477	OK	7.00338	6.23997
Mesdc2	chr7:83891999-83901532	OK	11.2973	10.0657
Necap1	chr6:122874556-122888941	OK	101.553	90.4646
Ccni	chr5:93181932-93206495	OK	121.829	108.522
Kifap3	chr1:163779678-163917100	OK	123.163	109.704
Elmsan1	chr12:84149173-84218881	OK	3.24234	2.88795
Tmem205	chr9:21921008-21935872	OK	28.7433	25.5956
Rps6kb1	chr11:86415843-86544807	OK	12.5007	11.1304
Spty2d1	chr7:46990395-47008414	OK	9.86232	8.78076
Dock3	chr9:106892824-107231909	OK	18.1836	16.1868
Ggt7	chr2:155490379-155514846	OK	53.581	47.6962
Ubqln1	chr13:58176155-58215653	OK	89.0525	79.2701
Smim3	chr18:60474190-60501983	OK	3.44839	3.06948
Prpf40a	chr2:53138475-53191187	OK	10.0342	8.93149
Pgap2	chr7:102210334-102238564	OK	6.12116	5.44846
Npas4	chr19:4984354-4989971	NOTEST	0.238249	0.212056
Dpf1	chr7:29304004-29317586	OK	1.72809	1.53808
Tmem126a	chr7:90450711-90457208	OK	15.2486	13.5719
Ermard	chr17:15041611-15064232	OK	3.63736	3.23732
Pltp	chr2:164830729-164857708	OK	21.4477	19.0876
Kxd1	chr8:70513395-70523180	OK	14.5584	12.9559
Atrip	chr9:109059746-109074124	OK	6.2441	5.55667
Mcl1	chr3:95658720-95663178	OK	37.0292	32.9515
Disc1	chr8:125054194-125261151	NOTEST	0.29103	0.258979
Xlr4b	chrX:73214364-73222453	NOTEST	0.187125	0.166509
Nox4	chr7:87246648-87398708	OK	0.786027	0.699347
Smu1	chr4:40720153-40757885	OK	20.1771	17.9494
Vsig10	chr5:117319265-117355006	OK	2.60623	2.31827
Trank1	chr9:111311738-111395775	NOTEST	0.455465	0.405106
Cd37	chr7:45233631-45239115	NOTEST	0.74987	0.666894
Ythdf1	chr2:180904376-180920936	OK	25.4593	22.6401
Lemd1	chr1:132191435-132257382	NOTEST	0.361793	0.321724
Apbb3	chr18:36671158-36683862	OK	34.9824	31.1028
Sec24c	chr14:20674320-20694850	OK	27.5598	24.5015
Mapk8ip2	chr15:89453910-89462447	OK	122.634	109.017
Atxn7l3	chr11:102284960-102296629	OK	67.221	59.7562
Gys1	chr7:45434838-45456617	OK	17.3194	15.3958
Mpg	chr11:32226504-32267707	OK	4.87831	4.33592
Gm21949	chr3:67892219-68626482	OK	2.48639	2.20986
Noc4l	chr5:110648418-110653382	OK	7.03535	6.25258
Chtf8	chr8:106883862-106893593	OK	19.924	17.7066
Zcchc2	chr1:105990405-106034079	OK	3.74628	3.32906
Gmppa	chr1:75435942-75443176	OK	11.2543	10.0005
Hspa4l	chr3:40745612-40790365	OK	60.7972	54.0202
3110045C21Rik	chr1:169969408-170088944	OK	1.00337	0.89151
Lamp2	chrX:38401356-38456460	OK	202.594	180.002
Shprh	chr10:11149429-11215273	OK	4.96515	4.41056
2210016F16Rik	chr13:58380045-58385225	OK	5.00942	4.44987
Mid2	chrX:140678027-140767715	OK	10.1316	8.99951
Ran	chr5:129020155-129024321	OK	65.0796	57.8014

Rdh14	chr12:10390779-10395562	OK	19.0537	16.922
Gorab	chr1:163384908-163403641	OK	3.89191	3.45631
Lgals8	chr13:12439401-12461738	OK	66.3197	58.8906
Megf8	chr7:25317163-25365917	OK	35.0785	31.1487
Nsmf	chr2:25054378-25062881	OK	24.686	21.9192
Pmpcb	chr5:21737159-21757152	OK	27.5832	24.4904
Zfp697	chr3:98382480-98431949	OK	0.844627	0.749906
Uevld	chr7:46923215-46958518	OK	6.24113	5.54117
AW046200	chr8:57523824-57663430	NOTEST	0.121908	0.108229
Lrprrc	chr17:84705246-84790786	OK	29.7375	26.4001
5430405H02Rik	chr2:156840006-156862945	OK	2.20639	1.95861
Vmp1	chr11:86583864-87555823	OK	30.0946	26.7118
Vps13d	chr4:144972621-145195005	OK	14.4485	12.8242
Srm	chr4:148591512-148594619	OK	26.8975	23.8719
Vps25	chr11:101253706-101259547	OK	73.0785	64.8458
2610301B20Rik	chr4:10874497-10899423	OK	10.9525	9.71848
Slc36a4	chr9:15709768-15738789	OK	14.0855	12.4984
Blnk	chr19:40928926-40994535	NOTEST	0.278571	0.247113
Zfp825	chr13:74480056-74493950	OK	5.68885	5.04642
Ddx20	chr3:105678461-105687571	OK	4.04397	3.58701
Tle3	chr9:61372365-61418497	OK	8.76896	7.7771
Dync1h1	chr12:110601394-110666944	OK	161.426	143.166
2700097O09Rik	chr12:55045660-55080110	OK	2.24481	1.99063
Mocs1	chr17:49428363-49455430	OK	4.26139	3.77869
Gabrg2	chr11:41910189-42000714	OK	34.32	30.4313
Sptan1	chr2:29965559-30031450	OK	271.648	240.866
Abt1	chr13:23418360-23423866	OK	2.53393	2.24672
Pdk2	chr11:95026257-95041371	OK	18.9846	16.8326
Rhobtb1	chr10:69208551-69291784	OK	1.24111	1.1004
Gm10190	chr17:80307406-80388689	NOTEST	0.110632	0.0980851
Fam98a	chr17:75537085-75551946	OK	35.6337	31.5923
Zc3h7b	chr15:81744847-81796269	OK	19.9722	17.7068
Pvt1	chr15:62037986-62250975	OK	3.34265	2.96335
Tecpr2	chr12:110889263-110972396	OK	13.0286	11.55
Pole3	chr4:62523800-62525014	OK	15.3929	13.6452
Zscan12	chr13:21362819-21372302	OK	1.29464	1.14762
Nfxl1	chr5:72513303-72559645	OK	1.8381	1.62931
Neo1	chr9:58874679-59036441	OK	7.5274	6.67213
Tspan15	chr10:62185395-62231218	OK	19.0778	16.9094
Dhx34	chr7:16197220-16222032	OK	2.81888	2.49845
Magoh	chr4:107879754-107887424	OK	36.2721	32.1477
Gins4	chr8:23226609-23237668	OK	10.549	9.34856
Coa5	chr1:37417084-37430103	OK	39.4267	34.9391
Acp2	chr2:91202911-91237066	OK	25.0566	22.2029
Bivm	chr1:44119967-44144771	OK	7.38223	6.54118
Arf4	chr14:26638196-26657258	OK	61.9863	54.9233
Snx30	chr4:59805649-59904740	OK	1.74282	1.54416
Erp44	chr4:48193330-48279589	OK	16.6492	14.7507
Dll1	chr17:15367353-15375823	NOTEST	0.526596	0.466515
Got2	chr8:95864136-95888365	OK	72.6868	64.3897
Srprb	chr9:103188032-103202065	OK	14.8416	13.1473
Hspb1	chr5:135887918-135889563	OK	88.8597	78.7145
Btla	chr16:45224336-45252895	NOTEST	0.164853	0.146031

Cuta	chr17:26937971-26939538	OK	51.4919	45.6042
Baalc	chr15:38933908-38952916	OK	4.50743	3.99093
P2rx4	chr5:122707556-122729042	OK	15.9805	14.1492
Mical3	chr6:120931545-121131022	OK	7.80848	6.91266
Dnajc15	chr14:77826216-77874917	OK	33.992	30.0873
Rab12	chr17:66494511-66519670	OK	12.5133	11.0755
Prph2	chr17:46910484-46924926	NOTEST	0.0212456	0.0188043
Nsf	chr11:103821782-103954056	OK	183.762	162.643
AI115009	chr3:152396002-152681432	NOTEST	0.334213	0.295772
Cacna1d	chr14:30008999-30527056	OK	1.37397	1.21581
Bag5	chr12:111709489-111713256	OK	21.0089	18.5902
Arfgap2	chr2:91265114-91277371	OK	12.711	11.2474
Larp6	chr9:60713120-60738801	OK	12.5985	11.1477
Gna15	chr10:81502313-81524225	NOTEST	0.104944	0.0928514
Pip4k2b	chr11:97715156-97744704	OK	35.6863	31.5723
Med31	chr11:72211723-72218450	OK	12.6288	11.1729
Slk	chr19:47580018-47645246	OK	20.8537	18.4488
Meis1	chr11:18880427-19018969	OK	2.1064	1.86343
Vwa9	chr9:64960831-64986981	OK	4.92414	4.35593
Tipin	chr9:64281606-64304792	OK	8.06991	7.13839
Nicn1	chr9:108290456-108296496	OK	60.0108	53.0816
Copb2	chr9:98563730-98588375	OK	51.0086	45.1185
0610031J06Rik	chr3:88325022-88328631	OK	27.9165	24.6908
Cntnap5c	chr17:57769569-58410342	OK	1.54502	1.36623
Alg13	chrX:144317965-144374448	OK	3.30588	2.92308
1110032A03Rik	chr9:50762827-50768152	OK	15.0227	13.2816
Ginm1	chr10:7767946-7780917	OK	10.6867	9.44794
5430417L22Rik	chr2:118745761-118748807	OK	3.91147	3.45805
Fam78b	chr1:167001416-167091302	OK	11.2685	9.96227
Apobr	chr7:126585007-126589092	NOTEST	0.333201	0.294533
Rtp3	chr9:110984942-110989713	NOTEST	0.0709345	0.062701
Tug1	chr11:3639784-3648814	OK	15.4469	13.6538
BC037032	chr15:4020110-4155344	NOTEST	0.26891	0.237666
Kcp	chr6:29482035-29507952	NOTEST	0.0857853	0.0758099
Mgat5b	chr11:116918862-116986944	OK	1.3402	1.18434
B3gat2	chr1:23761925-23922381	OK	1.2337	1.09013
Kdm3b	chr18:34777007-34839370	OK	7.08639	6.26113
Skor2	chr18:76856404-76900342	OK	4.265	3.76803
Ppp1cb	chr5:32458969-32493712	OK	78.6899	69.5175
Hibch	chr1:52845045-52920860	OK	17.7745	15.701
Zdhhc1	chr8:105472424-105496870	OK	11.6304	10.2715
Lrrn1	chr6:107529725-107570228	OK	115.479	101.986
Sf3a1	chr11:4160353-4182541	OK	16.5398	14.6072
Gm13212	chr4:145617145-145624394	NOTEST	0.129682	0.11451
Tspyl3	chr2:153222369-153225441	OK	6.82737	6.02824
Purb	chr11:6467598-6476076	OK	33.7295	29.7813
4833412C05Rik	chr7:67784537-67803496	NOTEST	0.394732	0.348526
Crtc3	chr7:80586631-80688877	OK	4.89344	4.32059
Cab39	chr1:85793446-85851577	OK	103.262	91.1733
Wbp1l	chr19:46599105-46657389	OK	10.0252	8.85045
Rrp8	chr7:105731729-105744338	OK	6.84523	6.04273
Calm1	chr12:100199540-100209806	OK	827.618	730.567
Wrb	chr16:96145418-96157852	OK	31.7484	28.0231

Pdcd6ip	chr9:113651743-113708259	OK	42.7664	37.7451
Psap	chr10:60277627-60302600	OK	785.058	692.856
Orc5	chr5:22486488-22550331	OK	15.705	13.8599
Pacrg	chr17:10403011-10840191	OK	7.34108	6.47858
Yif1b	chr7:29238322-29248467	OK	36.2399	31.9811
Cacna1a	chr8:84415363-84640249	OK	19.0221	16.7822
Nanos2	chr7:18987523-18988962	NOTEST	0.15728	0.138747
BC052040	chr2:115581715-115778768	OK	2.11927	1.86944
Gm4070,Gvin1	chr7:106156535-106215340	LOWDAT	0.146621	0.129329
2310001H17Rik	chr6:129232622-129238482	NOTEST	0.745708	0.65776
Galns	chr8:122578236-122611487	OK	1.34397	1.18542
Pi4kb	chr3:94974730-95015238	OK	12.2678	10.8191
Lsm3	chr6:91516034-91522620	OK	15.9149	14.0326
Fkbp1	chr17:34644882-34646327	OK	8.11539	7.15392
Slc25a11	chr11:70644026-70647039	OK	48.7523	42.9745
Slc25a32	chr15:39094190-39112716	OK	7.04387	6.20845
Acvr1	chr2:58446437-58566828	OK	9.14279	8.05757
Samd8	chr14:21750530-21798725	OK	15.9617	14.0649
Pms1	chr1:53189188-53296996	OK	1.90783	1.6811
Osgin2	chr4:15997120-16013877	OK	6.70757	5.91028
Uhmk1	chr1:170199255-170215393	OK	81.7946	72.0675
Arl2bp	chr8:94666599-94674457	OK	67.3786	59.3623
Cetn2	chrX:72913564-72918344	OK	30.0216	26.4494
Tlk1	chr2:70712407-70825480	OK	30.8473	27.1725
Rab39b	chrX:75572044-75578231	OK	28.2187	24.8563
Slc46a1	chr11:78465700-78471945	OK	3.805	3.35137
Srp54c	chr12:55230167-55263480	LOWDAT	1.98964	1.75235
Timm23	chr14:32180165-32201891	OK	3.502	3.08406
Gvin1	chr7:106156535-106215340	NOTEST	0.130288	0.114735
Pak3	chrX:143518590-143797796	OK	12.2726	10.8069
Sult4a1	chr15:84076096-84105754	OK	420.895	370.598
Apc	chr18:34207774-34322190	OK	31.8322	28.0275
Mast3	chr8:70778116-70792433	OK	5.61778	4.9457
Pcyox1	chr6:86386005-86397150	OK	53.5566	47.1474
Atxn7l1	chr12:33302514-33368277	OK	6.79774	5.9841
Gatad2a	chr8:69907068-69996384	OK	14.1362	12.4438
Pomp	chr5:147860627-147875778	OK	170.341	149.937
Gnpat	chr8:124863032-124890057	OK	18.3815	16.1765
Dcaf8	chr1:172148014-172196393	OK	38.8622	34.1986
Bmp2k	chr5:96997688-97111596	OK	1.64514	1.44767
Gm15663	chr10:105574550-105583870	OK	3.34477	2.94303
Uchl5	chr1:143777277-143807466	OK	24.3957	21.4631
Krt26	chr11:99328483-99337965	NOTEST	0.199391	0.17542
Atp7a	chrX:106027223-106128160	OK	4.51828	3.97497
Arl8b	chr6:108783058-108823723	OK	84.3582	74.1997
Cog8	chr8:107048708-107056737	OK	15.0873	13.2685
Atp5g3	chr2:73908449-73911294	OK	496.065	436.244
Micall1	chr15:79108982-79141251	OK	7.31251	6.43019
Dnajc19	chr3:34020078-34081354	OK	1.72748	1.51901
Rsg1	chr4:141213955-141220114	OK	1.72533	1.51709
Smco4	chr9:15505494-15545259	OK	3.02957	2.66347
Cnnm4	chr1:36471596-36508776	OK	6.01921	5.29159
Cacng7	chr7:3336584-3366948	OK	50.4469	44.3479

Dhx30	chr9:110084318-110117616	OK	29.2781	25.7368
BC017158	chr7:128265696-128298131	OK	8.27933	7.27786
Commd6	chr14:101633765-101640471	OK	21.3771	18.7857
Commd5	chr15:76899940-76901297	OK	12.8134	11.2601
Tie1	chr4:118471190-118489849	OK	6.3422	5.57321
Mrps21	chr3:95862651-95870619	OK	81.001	71.1789
Atp13a3	chr16:30312423-30388530	OK	13.54	11.8976
Kif2a	chr13:106960584-107022114	OK	36.5874	32.1433
Nrros	chr16:32142824-32165476	OK	0.868103	0.762615
Dnajc21	chr15:10446762-10470516	OK	12.4086	10.8982
Mbd5	chr2:48949507-49317069	OK	6.53928	5.74285
Fam134b	chr15:25843297-25973696	OK	60.1133	52.7894
Gpm6a	chr8:54779433-55060878	OK	25.9981	22.8294
Shank3	chr15:89499856-89560260	OK	3.82541	3.35844
2700049A03Rik	chr12:71136847-71243303	OK	2.02671	1.77917
Hoxc10	chr15:102966795-102971897	OK	3.6637	3.2161
Gm14308,OTTMUS	chr2:176470368-176486749	NOTEST	0.582422	0.511257
Nell2	chr15:95219439-95528252	OK	7.63826	6.70491
Tha1	chr11:117867948-117873526	OK	1.84821	1.62177
Zfp276	chr8:123254194-123318576	OK	4.35547	3.82146
Zfp518a	chr19:40894702-40917947	OK	2.36309	2.07334
Palld	chr8:61515020-61902690	OK	1.47962	1.29796
Tfip11	chr5:112326368-112343040	OK	17.4389	15.2957
Bcl11a	chr11:24078055-24173558	OK	1.67157	1.46613
Cbx4	chr11:119077570-119086237	OK	5.03251	4.4139
Pcmdt1	chr1:7088919-7173628	OK	19.2517	16.8847
Helz	chr11:107547959-107686943	OK	6.70183	5.87782
Commd2	chr3:57644348-57651684	OK	4.65101	4.07888
Apool	chrX:112311407-112372430	OK	5.99374	5.25566
Kpna4	chr3:69072220-69127092	OK	34.0747	29.878
Bap1	chr14:31251488-31259929	OK	39.8968	34.9808
Umps	chr16:33955011-33967003	OK	5.56963	4.88332
Atp5h	chr11:115415696-115419919	OK	25.5504	22.4018
Atp6ap2	chrX:12587758-12617051	OK	133.695	117.198
AI314180	chr4:58800030-58912725	OK	43.2091	37.8733
2310009A05Rik	chr9:73039717-73042775	OK	10.2929	9.0217
Dyrk1a	chr16:94570205-94695519	OK	14.9927	13.1396
Sgpp1	chr12:75714247-75735729	OK	35.9607	31.5138
Alkbh4	chr5:136138780-136141614	OK	3.17225	2.77977
Rab2b	chr14:52261758-52305124	OK	30.5097	26.7339
Klhl9	chr4:88718291-88722508	OK	47.0969	41.2617
Rph3a	chr5:120940499-121009518	OK	142.717	125.022
Spata33	chr8:123212857-123222045	NOTEST	1.04843	0.918394
Pdcd11	chr19:47090765-47131145	OK	4.3569	3.81638
Rapgef1	chr2:29619719-29740363	OK	17.2466	15.1062
Adck2	chr6:39573875-39588769	OK	6.63836	5.81369
Wasf1	chr10:40883533-40938569	OK	26.9916	23.6382
Arf3	chr15:98737625-98763118	OK	178.869	156.64
Dym	chr18:75018771-75286966	OK	65.5153	57.368
Zfp341	chr2:154613367-154646817	OK	1.88328	1.649
Stx11	chr10:12939982-12964259	OK	1.94758	1.70524
Immt	chr6:71831319-71875266	OK	79.9123	69.9582
Bckdha	chr7:25629851-25658761	OK	26.2793	23.0012

LOC100503676	chr8:84911852-84937353	NOTEST	0.0686773	0.0601058
Ccdc91	chr6:147475870-147632612	OK	26.2092	22.9364
Msn	chrX:96096044-96168553	OK	170.011	148.78
Anapc13	chr9:102626295-102634244	OK	52.6614	46.0836
Trpm7	chr2:126791557-126876261	OK	10.24	8.96015
Mgll	chr6:88724411-88828360	OK	31.9331	27.9392
Arcn1	chr9:44742143-44767808	OK	47.8761	41.8769
4930405A21Rik	chr2:156613696-156764363	OK	1.21666	1.064
Uqcr10	chr11:4701967-4704344	OK	169.407	148.135
0610010B08Rik,Gr	chr2:175185164-175338212	NOTEST	0.565393	0.494394
Gap43	chr16:42248560-42340651	OK	145.737	127.431
Tmed4	chr11:6270713-6274837	OK	45.2111	39.5321
Trpc4ap	chr2:155611242-155692384	OK	66.0996	57.7944
Mthfd1	chr12:76255231-76319820	OK	12.0086	10.4992
Mkl1	chr15:80977764-81190757	OK	8.92512	7.80197
37315	chr15:31455898-31531037	OK	66.6544	58.2639
Usp1	chr4:98923809-98935533	OK	3.40299	2.97427
Senp5	chr16:31959669-32003287	OK	23.6904	20.7052
Clint1	chr11:45851963-45910625	OK	25.0673	21.9055
Ccdc79	chr8:104446718-104624396	NOTEST	0.210698	0.184119
Usp13	chr3:32817625-32935257	OK	21.6168	18.8899
Vps45	chr3:95999831-96058455	OK	12.6926	11.0889
Nacc2	chr2:26055535-26122811	OK	111.923	97.7564
Smim15	chr13:108044473-108049146	OK	23.5945	20.6039
Erlec1	chr11:30929783-30954131	OK	14.0097	12.2339
Acyp2	chr11:30505991-30649396	OK	56.582	49.4095
Plekhh3	chr11:101162679-101171302	OK	6.6935	5.84486
Cib2	chr9:54545351-54560079	OK	19.7414	17.238
Sec16a	chr2:26409430-26445216	OK	9.36117	8.17279
Krtcap2	chr3:89246437-89249722	OK	60.9566	53.2111
Pcdhb22	chr18:36930284-37841872	OK	2.88813	2.52103
Phka1	chrX:102513974-102644246	OK	7.57303	6.60988
Ube2n	chr10:95515161-95545658	OK	49.7104	43.3853
Tuba1b	chr15:98931430-98934390	OK	346.703	302.574
Lipe	chr7:25376818-25566417	OK	2.20994	1.92852
Tubb4a	chr17:57080065-57087782	OK	323.86	282.608
Pars2	chr4:106651068-106655282	OK	2.00678	1.75068
Cers3	chr7:66743503-66823692	NOTEST	0.156388	0.136424
Ralgapa1	chr12:55602889-55821516	OK	38.8347	33.8763
AW209491	chr13:14630244-14638202	OK	11.5387	10.0648
Pecam1	chr11:106654217-106715281	OK	9.42147	8.21734
Brsk1	chr7:4690927-4725251	OK	62.6726	54.6594
Sptlc2	chr12:87307888-87388230	OK	20.1221	17.5444
Atp5j2	chr5:145183705-145191592	OK	278.565	242.858
Msh3	chr13:92211880-92389053	OK	5.316	4.6341
Mul1	chr4:138434671-138442265	OK	15.7448	13.7242
Eny2	chr15:44375226-44437685	OK	14.1253	12.3125
Ngly1	chr14:16238658-16311926	OK	23.0291	20.0735
Tmem128	chr5:38260374-38269618	OK	28.773	25.0776
Klhdc10	chr6:30401908-30455174	OK	21.6013	18.8248
Ndufa3	chr7:3617372-3620161	OK	216.585	188.689
1700001L05Rik	chr15:83353846-83367297	OK	12.0159	10.4675
Bsg	chr10:79697304-80369637	OK	287.318	250.287

Zbtb7b	chr3:89377645-89398779	OK	5.39434	4.69901
Pdzd8	chr19:59296083-59345780	OK	31.932	27.8128
St3gal4	chr9:35046578-35175987	OK	11.7526	10.2362
Pcsk2	chr2:143535475-143816282	OK	76.9709	67.0351
Nucks1	chr1:131910457-131936321	OK	30.9757	26.9763
Gdap1	chr1:17145372-17164270	OK	57.5861	50.1499
Mycbp	chr4:123905012-123912250	OK	14.1525	12.3225
Slc39a8	chr3:135825278-135888572	OK	2.43533	2.12019
Tmem222	chr4:133266044-133277790	OK	27.761	24.1679
Asb8	chr15:98134639-98165578	OK	27.4779	23.9183
Vimp	chr7:66079648-66089405	OK	27.023	23.5215
Slc35g1	chr19:38395979-38405607	OK	1.18285	1.02958
Gm5176	chr10:111500787-111501345	NOTEST	0.253004	0.220219
Hsd17b4	chr18:50128200-50196270	OK	30.2732	26.35
Snappc2	chr8:4253101-4256220	OK	13.6324	11.8635
Tpst2	chr5:112276706-112315356	OK	11.8284	10.293
Copz1	chr15:103272917-103299864	OK	45.9091	39.9488
H2-T22,H2-T9	chr17:36038408-36042702	OK	7.19851	6.26307
Ddt	chr10:75771232-75773374	OK	72.8638	63.393
Gpatch3	chr4:133574744-133584242	OK	2.58149	2.24593
Irgq	chr7:24530647-24538600	OK	41.4114	36.0272
Pcdhgc4	chr18:36930284-37841872	OK	2.79563	2.43204
Pnpla7	chr2:24976032-25054072	OK	1.54687	1.34564
Psmc12	chr11:107479527-107498036	OK	73.9357	64.3102
Jph3	chr8:121730558-121791083	OK	45.3416	39.4282
Rnf138	chr18:21001340-21028223	OK	2.96414	2.57707
Uqcrg	chr11:53428947-53430831	OK	222.832	193.687
Ccdc57	chr11:120826541-120932872	NOTEST	0.424328	0.368818
Gm15706	chr6:145250551-145251856	OK	1.84855	1.6066
Tbxas1	chr6:38918985-39084579	NOTEST	0.215236	0.18704
Rab3gap1	chr1:127868772-127943876	OK	19.4775	16.9232
Fam168b	chr1:34813217-34843050	OK	66.7858	58.0194
Smarcd3	chr5:24592621-24602002	OK	11.0142	9.56728
Lix1l	chr3:96601132-96629819	OK	12.0157	10.4362
Gm20257	chr1:58652640-58655831	NOTEST	0.309269	0.26861
Daglb	chr5:143464492-143504442	OK	8.06451	7.00408
Prkd2	chr7:16842901-16870461	OK	1.2921	1.12213
Cyb561d2	chr9:107539010-107541865	OK	11.9861	10.4068
Mdga2	chr12:66466058-67222549	OK	5.04087	4.37661
Aldh9a1	chr1:167349990-167368530	OK	22.585	19.6078
Thsd1	chr8:22227302-22261332	OK	1.54956	1.34502
Ash1l	chr3:88965811-89079375	OK	8.75872	7.60254
Slc35a2	chrX:7884243-7894492	OK	14.725	12.7784
8430429K09Rik	chr11:3202352-3479831	OK	2.30895	2.00347
Msantd4	chr9:4383536-4386869	OK	31.6244	27.4382
Tmem177	chr1:119907898-119913168	OK	4.58125	3.97456
Tmem202	chr9:59518684-59525501	OK	1.57972	1.37051
Pcyox1l	chr18:61696836-61707635	OK	39.3388	34.1276
Tbl2	chr5:135149710-135162662	OK	8.35985	7.25234
Nt5c2	chr19:46886830-47024346	OK	16.237	14.0846
Lnpep	chr17:17527722-17624489	OK	39.9787	34.6788
Tmem179	chr12:112500183-112511160	OK	44.8796	38.9288
Cops2	chr2:125830301-125859082	OK	65.5741	56.8766

Arhgef12	chr9:42963841-43105718	OK	33.0218	28.6419
4930451G09Rik	chr16:4964287-4978962	OK	1.67697	1.45439
Sap30l	chr11:57801636-57810615	OK	61.9584	53.7293
Slc15a2	chr16:36750163-36784962	OK	2.45041	2.12484
Gtpbp10	chr5:5537456-5559501	OK	1.58205	1.37177
Efna5	chr17:62602956-62881317	OK	11.597	10.0535
Ubxn11	chr4:134102582-134126780	NOTEST	0.539513	0.467617
Tmem209	chr6:30481232-30509706	OK	13.1841	11.4271
Mmab	chr5:114431033-114444027	OK	9.81991	8.51072
Fbxo41	chr6:85469575-85502994	OK	7.73926	6.70742
Cdc40	chr10:40831621-40883143	OK	6.74965	5.84962
9330162012Rik	chr13:24905599-24939049	NOTEST	0.639651	0.5543
Cbr4	chr8:61487733-61503500	OK	12.0439	10.4367
Tars2	chr3:95739973-95754977	OK	10.5852	9.17247
Mfsd8	chr3:40818171-40846854	OK	4.94	4.28032
Kpnb1	chr11:97159709-97187892	OK	53.8949	46.6965
Kif5c	chr2:49619313-49774778	OK	184.162	159.564
Pla2g12a	chr3:129878605-129895825	OK	11.8057	10.2263
Mlec	chr5:115142980-115158176	OK	58.947	51.0604
Prrx2	chr2:30845366-30881247	NOTEST	0.770692	0.667546
Grin2d	chr7:45832482-45866681	NOTEST	0.620436	0.537389
Nacc1	chr8:84670478-84687862	OK	29.614	25.6494
Pank4	chr4:154964132-154980938	OK	11.0721	9.58974
4933402D24Rik	chr1:63754908-63769267	NOTEST	0.310095	0.268534
Gimap1	chr6:48739046-48743795	OK	1.31145	1.13566
Mkl2	chr16:13256480-13417529	OK	6.48087	5.61174
Zbtb9	chr17:26973178-26976203	OK	5.56635	4.81944
Scaf8	chr17:3114971-3198859	OK	12.8372	11.1123
Eng	chr2:32646594-32694175	OK	7.37185	6.38123
Gstcd	chr3:132982550-133091740	OK	1.84208	1.59441
Pex11b	chr3:96635356-96645381	OK	20.0285	17.3347
Map4k2	chr19:6341159-6355619	OK	12.2604	10.6112
Spg7	chr8:123065507-123097751	OK	25.0928	21.7157
Lman2l	chr1:36423185-36445239	OK	21.4558	18.5657
Cyp4f17	chr17:32506461-32528894	NOTEST	0.867686	0.750789
Dhx9	chr1:153455757-153487660	OK	48.2583	41.7532
Spata24	chr18:35656688-35662186	OK	3.92452	3.39509
Rnf40	chr7:127588697-127603605	OK	15.0429	13.013
Klhl20	chr1:161088377-161131479	OK	20.504	17.7367
Idnk	chr13:58157648-58164693	OK	18.0614	15.6227
Clcn5	chrX:7158411-7319358	OK	10.0017	8.65034
Tapbp	chr17:33919477-33929290	OK	42.1463	36.4511
Tm9sf1	chr14:55635965-55643806	OK	18.8606	16.3116
Paqr4	chr17:23726335-23740330	OK	66.5293	57.536
Tcf25	chr8:123373710-123404174	OK	196.57	169.994
Csnk1a1	chr18:61555581-61588299	OK	119.859	103.65
Spry4	chr18:38586264-38601268	OK	10.2575	8.86752
Foxn3	chr12:99195093-99450074	OK	11.6466	10.068
Heatr5b	chr17:78752905-78835381	OK	16.7717	14.496
Ndufc1	chr3:51405478-51408955	OK	72.8344	62.944
Mdn1	chr4:32657118-32775217	OK	4.15883	3.59403
Mapk8ip3	chr17:24896499-24936977	OK	117.982	99.7284
Col18a1	chr10:77052178-77166530	OK	5.49448	4.7477

Thtpa	chr14:55094783-55106593	OK	9.26773	8.00779
Seh1l	chr18:67774875-67799943	OK	19.1979	16.5864
Phkb	chr8:85841001-86060642	OK	11.2899	9.75358
Tm4sf1	chr3:57287063-57301919	OK	9.81598	8.4794
Fam86	chr16:5233620-5255956	OK	2.80867	2.42603
Rap2b	chr3:61364506-61368703	OK	4.46594	3.85728
Ltn1	chr16:87376650-87432606	OK	16.6519	14.3822
Ier3ip1	chr18:76930026-76941614	OK	42.549	36.7488
Gm5086	chr13:97559999-97583994	NOTEST	0.0618285	0.0533931
Nudt19	chr7:35547184-35555928	OK	15.5805	13.4545
Zfp180	chr7:24081896-24107708	OK	14.8101	12.784
Serpinb9	chr13:33004540-33017955	OK	4.91383	4.24129
Dnaja3	chr16:4684069-4707693	OK	28.9166	24.9584
Ttc39d	chr17:80215913-80217936	NOTEST	0.109	0.0940552
Id1	chr2:152736250-152737410	OK	12.2919	10.6066
Desi2	chr1:178187416-178252597	OK	5.12527	4.42253
Pqlc2	chr4:139298004-139310700	OK	7.04483	6.07865
2810001G20Rik	chr11:64079483-64083259	OK	5.60845	4.83859
Mib1	chr18:10725624-10812217	OK	20.7721	17.9204
C130074G19Rik	chr1:184871925-184883036	OK	16.9739	14.6406
Rasgrp3	chr17:75435904-75529053	OK	1.22548	1.05686
Atp6v1b2	chr8:69037707-69113717	OK	294.434	253.913
Guca1b	chr17:47385392-47392967	NOTEST	0.423937	0.365588
Cmtr1	chr17:29660600-29717017	OK	27.9888	24.1362
Ints1	chr5:139751281-139775678	OK	12.954	11.1691
Dtx3l	chr16:35926514-35972621	OK	4.5873	3.95508
Xpo5	chr17:46202854-46242299	OK	14.3647	12.3839
Hspa13	chr16:75755190-75766818	OK	11.3013	9.74251
Fyttd1	chr16:32877783-32908963	OK	22.791	19.6447
Mrpl45	chr11:97315715-97329920	OK	13.0135	11.2167
Uqcc1	chr2:155846885-155930310	OK	29.1609	25.1345
Scrn3	chr2:73312651-73337807	OK	23.1739	19.9738
Ctnnd1	chr2:84600780-84650740	OK	31.3212	26.9959
Pex3	chr10:13523841-13563376	OK	13.2623	11.43
Sgms2	chr3:131318985-131344923	OK	10.8457	9.34697
Gnl1	chr17:35979954-35989462	OK	34.7148	29.9107
Pik3r4	chr9:105642994-105687655	OK	13.0135	11.2121
Ftsj1	chrX:8238667-8252406	OK	6.13501	5.28576
Cog6	chr3:52982122-53017223	OK	19.9363	17.1733
Cmc1	chr9:118040521-118150196	OK	12.4824	10.7518
Urgcp	chr11:5713416-5784710	OK	14.8521	12.7897
Bfar	chr16:13671857-13703612	OK	18.9416	16.3096
Thoc3	chr13:54458836-54468840	OK	16.1065	13.8682
Tmem248	chr5:130219743-130243765	OK	22.3089	19.2041
Cand1	chr10:119198811-119240055	OK	42.1341	36.2675
Bbs1	chr19:4886881-4906627	OK	3.59672	3.09565
D330023K18Rik	chr2:31151048-31152291	OK	1.98807	1.71044
Zfp217	chr2:170108642-170142675	OK	1.26432	1.0877
Fzd1	chr5:4753838-4758216	OK	7.25358	6.24029
Hadhb	chr5:30155252-30184593	OK	9.71813	8.35913
Ercc6	chr14:32513520-32580989	OK	2.09596	1.80276
Tbc1d7	chr13:43151741-43171501	OK	23.5745	20.2761
Myh7b	chr2:155611242-155692384	NOTEST	0.328295	0.282278

Ndufa4	chr6:11900372-11907446	OK	704.884	606.043
Ftsj2	chr5:140327673-140331898	OK	5.05877	4.34864
Pigk	chr3:152714099-152789013	OK	29.925	25.7234
Hacl1	chr14:31607225-31640965	OK	3.51234	3.01872
Gtf3c4	chr2:28822299-28840360	OK	6.8074	5.85038
Exoc6	chr19:37550417-37683249	OK	13.345	11.4684
Pdpx	chr15:78913918-78919517	OK	11.274	9.68859
Msh6	chr17:87975049-88065285	OK	5.54312	4.76343
Tsn	chr1:118298517-118311132	OK	35.3142	30.3436
Trex1	chr9:109057931-109059723	OK	8.8821	7.63183
Mrps27	chr13:99344785-99415561	OK	15.7123	13.5003
Msl3	chrX:168653098-168673902	OK	9.10182	7.81791
Tspan31	chr10:127067289-127070261	OK	63.275	54.3458
2410015M20Rik	chr17:56607451-56609771	OK	36.3037	31.178
Nop56	chr2:130274411-130284451	OK	24.1793	20.7644
Gnpda1	chr18:38327536-38338993	OK	6.02736	5.17574
Tab2	chr10:7905647-7956123	OK	17.2722	14.8293
Arl5a	chr2:52397950-52424874	OK	25.7231	22.0839
Fbxl4	chr4:22357542-22434091	OK	12.132	10.4143
Gm3893	chr4:41889794-42462993	NOTEST	0.0943591	0.0809725
Med7	chr11:46193848-46589232	OK	8.37316	7.18472
Rnf4	chr5:34336389-34353430	OK	25.4168	21.8078
Mbtps1	chr8:119508151-119558761	OK	24.0669	20.6488
Brcc3	chrX:75416627-75455701	OK	30.0589	25.787
Tgfb3	chr12:86056742-86079041	OK	9.01404	7.73249
Lims1	chr10:58323465-58424691	OK	30.076	25.7988
Tbp	chr17:15499887-15517427	OK	5.68519	4.87646
Rfwd2	chr1:159232325-159347580	OK	2.98301	2.55853
Tmem30a	chr9:79768940-79793430	OK	233.557	200.307
Btbd9	chr17:30215523-30576287	OK	9.90709	8.49624
Tmppe	chr9:114401077-114474379	OK	5.1469	4.41375
Pvr13	chr16:46394857-46496967	OK	16.0119	13.7309
Elovl7	chr13:108214403-108287107	OK	56.5891	48.5265
Usb1	chr8:95332283-95347513	OK	4.5372	3.89066
Dusp12	chr1:170874187-170885540	OK	6.91924	5.93308
Ctps	chr4:120539867-120570276	OK	18.4421	15.8129
Wdr70	chr15:7873054-8099209	OK	6.951	5.95979
Haus7	chrX:73437314-73459029	OK	5.72523	4.90814
Rap1b	chr10:117814596-117845974	OK	72.9134	62.507
Poll	chr19:45552275-45560543	OK	6.67845	5.72506
Lman2	chr13:55343832-55362783	OK	19.8963	17.0553
Ccdc96	chr5:36484587-36488171	NOTEST	0.68204	0.58463
Gna13	chr11:109354777-109401369	OK	21.0633	18.0542
Slc29a3	chr10:60712071-60752782	OK	7.64034	6.54783
8030462N17Rik	chr18:77633280-77714010	OK	6.25383	5.35942
Tecpr1	chr5:144195346-144223578	OK	20.257	17.359
Tpi1	chr6:124808940-124814296	OK	260.932	223.601
Kdelr1	chr7:45872839-45883726	OK	35.5099	30.4276
Cacna1g	chr11:94408390-94474198	NOTEST	0.339359	0.290763
Trim13	chr14:61598225-61682373	OK	6.99096	5.98941
Xrcc3	chr12:111758848-111813841	NOTEST	0.424619	0.363761
C330006A16Rik	chr2:26136806-26140506	OK	49.4397	42.3535
Med13	chr11:86265714-86357525	OK	7.23541	6.19835

Entpd5	chr12:84373875-84409029	OK	12.8857	11.0377
4930452B06Rik	chr14:8431171-8666290	OK	5.27162	4.51537
Gm10336	chr13:12182716-12186488	OK	6.87576	5.88924
Ahdc1	chr4:133011505-133078110	OK	4.60693	3.94585
Anapc1	chr2:128610082-128687395	OK	14.7028	12.5927
Rbm46	chr3:82836522-82876483	NOTEST	0.661815	0.566749
Sstr1	chr12:58211803-58216036	OK	1.35802	1.1629
Sptbn1	chr11:30099394-30219772	OK	291.887	249.931
Icam5	chr9:21032037-21039036	NOTEST	0.070204	0.0601118
Pcnx13	chr19:5664634-5688908	OK	8.04648	6.8896
Ctsa	chr2:164830729-164857708	OK	32.5231	27.8457
Enho	chr4:41569793-41640302	OK	18.4143	15.7643
Tbc1d30	chr10:121263819-121311189	OK	11.6188	9.94601
5930438M14Rik	chr13:101232126-101247551	NOTEST	0.117877	0.100893
AA415398	chr4:119530314-119538769	OK	1.17134	1.00246
Trappc11	chr8:47490127-47533470	OK	23.1159	19.7828
Zfat	chr15:68083737-68258856	OK	1.22833	1.05114
Slirp	chr12:87428077-87472299	OK	87.3141	74.7145
Ndufb10	chr17:24722066-24724388	OK	171.192	146.486
C630043F03Rik	chr4:72201243-72203930	OK	2.47646	2.11901
Spns1	chr7:126370059-126377934	OK	13.0727	11.1855
Rsad1	chr11:94539797-94549207	OK	3.68901	3.15495
Pigp	chr16:94358762-94469221	OK	26.4653	22.6333
Lipo1	chr19:33555280-33590311	OK	3.80751	3.25601
Cisd2	chr3:135406411-135423433	OK	18.6362	15.9366
Pank3	chr11:35769494-35791285	OK	27.9506	23.9006
Zc3h12b	chrX:95711677-95927970	OK	0.860543	0.735816
Mdm1	chr10:118141786-118168999	OK	0.976022	0.834539
Ube4a	chr9:44923126-44965600	OK	38.951	33.304
Grsf1	chr5:88659232-88676171	OK	70.9531	60.6495
6430573F11Rik	chr8:36489190-36513013	OK	3.74204	3.19783
Acaa1b	chr9:119148042-119157093	NOTEST	0.669541	0.572096
Bend5	chr4:110397697-111663024	OK	2.32726	1.98812
Cdh5	chr8:104101624-104144502	OK	9.61013	8.20916
Tmem261	chr4:75277353-75278286	OK	27.6299	23.6018
Rhot1	chr11:80209054-80267907	OK	27.3025	23.3213
Gdpgp1	chr7:80232892-80241420	OK	3.40632	2.90935
Eea1	chr10:95940662-96045518	OK	22.4404	19.1657
Tango2	chr16:18300824-18343932	OK	57.6984	49.2763
Stk3	chr15:34875498-35155806	OK	5.64795	4.82339
Aven	chr2:112492963-112631253	OK	15.1977	12.9783
Tmem18	chr12:30584442-30591219	OK	17.8014	15.2017
Pex10	chr4:155067029-155072406	OK	4.59224	3.9214
Ctdnep1	chr11:69968225-69990600	OK	26.0481	22.2429
Snx16	chr3:10417816-10440130	OK	18.7487	16.0067
Acadsb	chr7:131410600-131446211	OK	17.6363	15.0564
Rpp38	chr2:3328948-3332628	OK	3.34385	2.85406
Mthfd2	chr6:83305703-83317604	OK	16.6944	14.249
Homer1	chr13:93304494-93405129	OK	6.24418	5.32933
Acadl	chr1:66830838-66863309	OK	87.5895	74.7505
Pex7	chr10:19860089-19907674	OK	15.8794	13.5431
Recql5	chr11:115892594-115933492	OK	4.98837	4.25413
Cstf2t	chr19:30564486-31765033	OK	11.5711	9.86744

Gm14305	chr2:176708352-176721813	OK	2.33285	1.98919
Alg3	chr16:20605457-20610749	OK	10.4251	8.88921
Smurf1	chr5:144876494-144965830	OK	9.4791	8.08246
Gbas	chr5:129725074-129758325	OK	46.4299	39.5793
Ece1	chr4:137862236-137965229	OK	25.5668	21.7916
Tubg1	chr11:101120130-101126419	OK	18.0928	15.4212
Tagap	chr17:7925999-7934897	NOTEST	0.145011	0.123563
Aagab	chr9:63602654-63641889	OK	20.8542	17.7696
Gosr2	chr11:103676848-103697710	OK	28.9462	24.6626
D2hgdh	chr1:93825239-93852174	OK	3.44784	2.93751
Usp53	chr3:122933600-122984447	OK	2.97245	2.53178
Tns1	chr1:73910230-74124449	OK	58.638	49.9394
Tfb2m	chr1:179528055-179546267	OK	3.94157	3.35683
Wrap53	chr11:69561753-69579324	OK	3.49892	2.97958
Pgs1	chr11:117986856-118129219	OK	46.9531	39.9824
Ndufa13	chr8:69894181-69903518	OK	52.8673	45.0177
Vcl	chr14:20929432-21033673	OK	31.8704	27.1334
Cbx3	chr6:51470615-51483704	OK	7.10313	6.04729
Psd2	chr18:35964829-36014716	NOTEST	0.3393	0.288835
Kpna1	chr16:35983362-36036162	OK	37.1626	31.6345
Dtd2	chr12:51997506-52006501	OK	4.29779	3.65759
Rab11a	chr9:64715299-64737756	OK	140.703	119.741
Ntan1	chr16:13819276-13903145	OK	32.9104	28.007
Napb	chr2:148694656-148732420	OK	140.269	119.366
Zdhhc6	chr19:55298295-55316032	OK	11.883	10.1109
Ap2a1	chr7:44896078-44929490	OK	100.316	85.3529
E130308A19Rik	chr4:59626210-59754303	OK	1.73865	1.4792
Atp2b4	chr1:133702673-133753747	OK	18.4149	15.6661
Ndufa11	chr17:56717761-56724248	OK	21.6001	18.373
Pias3	chr3:96696374-96708560	OK	7.26938	6.18229
Ankrd17	chr5:90227165-90366185	OK	25.9364	22.0564
Fam19a3	chr3:104767404-104777547	OK	5.59169	4.75428
Fmnl2	chr2:52857867-53134202	OK	18.6054	15.8169
Adam22	chr5:8072351-8368081	OK	44.0321	37.4287
Dnajc24	chr2:105966707-106003549	OK	5.19504	4.4152
Tubgcp5	chr7:55794147-55831447	OK	10.3688	8.81222
Dhdh	chr7:45473562-45522603	OK	6.52745	5.5471
Wbscr27	chr5:134932372-134942637	OK	7.3419	6.23762
Ndufb8	chr19:44550253-44555415	OK	265.214	225.323
Rnf146	chr10:29313165-29362442	OK	14.871	12.6342
Ctsf	chr19:4855128-4860912	OK	26.1115	22.1826
Cdc42ep3	chr17:79334024-79355091	OK	6.23095	5.29289
Tmem63b	chr17:45660176-45686218	OK	66.7822	56.7277
Sec31a	chr5:100361648-100416234	OK	35.8889	30.4848
4933411K20Rik	chr8:46169555-46195590	OK	11.665	9.90733
Aste1	chr9:105395391-105405756	OK	1.94844	1.65475
Lrrc8a	chr2:30237768-30263790	OK	33.1871	28.1847
Gfm2	chr13:97137936-97198357	OK	9.44512	8.02138
Slc25a16	chr10:62920632-62946494	OK	15.7179	13.3475
Taco1	chr11:106066106-106073612	OK	13.0192	11.053
Gdap2	chr3:100162462-100206989	OK	14.3468	12.1794
Tmem241	chr18:11981302-12121537	OK	3.26225	2.76907
Ddx31	chr2:28840405-28905575	OK	4.31577	3.66324

Adam11	chr11:102761438-102780262	OK	64.5549	54.7899
Gm14326	chr2:177935992-177957288	OK	3.43557	2.9158
Fam120aos	chr13:48968111-48969905	OK	3.63045	3.08099
Traf6	chr2:101678439-101700974	OK	4.07568	3.45794
Bbs10	chr10:111298678-111301736	OK	2.498	2.11933
Hsdl1	chr8:119561977-119575200	OK	50.4003	42.759
Eml2	chr7:19181169-19206482	OK	91.2603	77.4206
Sfxn2	chr19:46573364-46596900	OK	1.06128	0.900183
Acox2	chr14:8225510-8259019	NOTEST	0.0396087	0.0335936
Tmem185b	chr1:119526153-119528983	OK	4.44253	3.76753
Trim37	chr11:86583864-87555823	OK	54.3457	46.0811
Tmem126b	chr7:90468828-90475995	OK	29.1753	24.7384
Nelfcd	chr2:174415803-174438992	OK	20.1559	17.0899
Mrps2	chr2:28468065-28471177	OK	12.5503	10.6387
Gatad1	chr5:3639960-3647936	OK	31.6224	26.8049
Pptc7	chr5:122284397-122324281	OK	18.4994	15.6797
Nmnat3	chr9:98296582-98411428	NOTEST	0.338904	0.287242
Mms19	chr19:41933471-41981136	OK	15.1848	12.8699
Pde4d	chr13:108654176-109955969	OK	13.1877	11.1759
Zbtb5	chr4:44991242-45012412	OK	2.5179	2.1338
Mpnd	chr17:56009200-56036637	OK	60.7227	51.457
Mstn	chr1:53061662-53068079	NOTEST	0.252704	0.214124
Herpud2	chr9:25108129-25151781	OK	11.0762	9.38412
Arl6ip1	chr7:118118889-118129625	OK	276.184	233.951
Txndc12	chr4:108834677-108862119	OK	14.445	12.2346
Rassf5	chr1:131176409-131245178	OK	39.6252	33.5615
Ubxn2a	chr12:4879031-4907520	OK	28.8421	24.4222
Rpp30	chr19:36083715-36104773	OK	12.7391	10.7859
Tmem175	chr5:108629809-108685446	OK	12.8369	10.8669
Abhd15	chr11:77515116-77520628	OK	1.19819	1.01413
Ralgapb	chr2:158409852-158499253	OK	30.5037	25.8172
Hps1	chr19:42755195-42779976	OK	2.05948	1.74304
Cdkal1	chr13:29325305-29855588	OK	3.92135	3.31859
Ubap1	chr4:41348995-41389766	OK	28.9715	24.5165
Gm12060	chr11:23558059-23558842	NOTEST	0.612736	0.518514
Kpna6	chr4:129643978-129672767	OK	22.4529	18.9979
Cad	chr5:30933142-31348845	OK	5.06976	4.2887
Ndufab1	chr7:122088043-122101848	OK	16.1393	13.6529
Usp28	chr9:48985384-49042517	OK	3.21116	2.71636
Syngn2	chr11:117809666-117814286	OK	7.18589	6.07861
Tbc1d23	chr16:57168863-57231466	OK	10.1318	8.57017
Rora	chr9:68653785-69388246	OK	2.63584	2.22921
A430005L14Rik	chr4:153957236-153961924	OK	6.20354	5.24617
Syngn1	chr15:80091333-80119501	OK	126.921	107.321
Dnajc5	chr2:181520484-181552880	OK	85.8372	72.5729
Prpsap1	chr11:116470815-116490346	OK	34.4778	29.149
Timm10b	chr7:105640539-105641845	OK	13.7931	11.6603
C330007P06Rik	chrX:36848543-36864246	OK	15.0339	12.7081
Zfp687	chr3:94974730-95015238	OK	6.15952	5.20643
Wars	chr12:108860029-108894174	OK	53.6272	45.3273
Mtif3	chr5:146948656-146963797	OK	2.98322	2.52123
Tmem110	chr14:30825593-30877210	OK	8.42063	7.11637
Slc25a35	chr11:68968130-68975185	OK	3.70099	3.12772

Vps26b	chr9:26999676-27030094	OK	20.955	17.7075
Galnt16	chr8:57774051-58911627	NOTEST	0.278512	0.23533
Nudt4	chr10:95547006-95564167	OK	82.4222	69.6184
Ppp3r1	chr11:17159297-17200380	OK	139.823	118.074
Slc12a6	chr2:112266313-112368027	OK	28.0142	23.6567
Fam3c	chr6:22306521-22356081	OK	30.5363	25.786
Fth1	chr19:9980599-9985111	OK	1488.94	1257.19
Dmrtb1	chr4:107676289-107684162	NOTEST	0.0323518	0.0273162
2410006H16Rik	chr11:62602876-62604806	OK	46.7214	39.4467
Spryd4	chr10:128194634-128211794	OK	7.76832	6.55837
Fbxo16	chr14:65266700-65321502	OK	3.61632	3.05292
Stim2	chr5:53998522-54121057	OK	10.4086	8.78622
Impdh2	chr9:108560500-108565566	NOTEST	0.194767	0.164386
Gm13483	chr2:50296809-50433967	NOTEST	0.665662	0.561827
Ly6e	chr15:74955050-74959905	OK	27.0568	22.834
Zfp472	chr17:32965830-32979211	OK	1.42667	1.20393
Xrcc5	chr1:72307420-72394953	OK	16.0637	13.5546
Ncs1	chr2:31245922-31295471	OK	52.2934	44.1158
Gm6377	chrX:109196755-109200445	NOTEST	0.109323	0.0922272
Gm15910	chr10:120781100-120898971	NOTEST	0.260074	0.219353
Mtrf1	chr14:79397771-79423650	OK	3.32781	2.80651
Mtmr12	chr15:12205093-12272240	OK	4.52499	3.81608
Exoc4	chr6:33249149-33972930	OK	34.5899	29.1697
Impdh1	chr6:29200439-29212271	OK	94.104	79.3489
Eral1	chr11:78073375-78080383	OK	11.9397	10.0675
Ube2v2	chr16:15550985-15594518	OK	8.25054	6.95602
Zfyve19	chr2:119172499-119217050	OK	11.3864	9.59923
Sufu	chr19:46396895-46488804	OK	2.93505	2.47411
Yipf1	chr4:107314362-107359823	OK	42.5282	35.8461
Znrd1as	chr17:36958591-36965623	OK	3.45753	2.91419
Ccdc90b	chr7:92561148-92582294	OK	8.13592	6.857
Rap1a	chr3:105727259-105801381	OK	12.8314	10.8122
Sec61a2	chr2:5870986-5895353	OK	26.9224	22.684
Stxbp4	chr11:90476492-90638108	OK	2.33769	1.96938
Adnp2	chr18:80127134-80151482	OK	5.2668	4.43675
Nudt9	chr5:104047010-104065367	OK	29.0406	24.4603
Ube2g1	chr11:72607260-72686481	OK	16.7097	14.0742
Ndufb9	chr15:58933809-58939489	OK	162.087	136.52
Kif26a	chr12:112146207-112181747	OK	1.08734	0.915603
Ttf2	chr3:100938859-100969663	OK	4.0453	3.40594
Tbck	chr3:132684143-132838506	OK	6.83839	5.75678
Kbtbd7	chr14:79426510-79431038	OK	7.47659	6.29393
Nars	chr18:64499646-64516557	OK	183.353	154.332
Zfp438	chr18:5210030-5334439	OK	1.38443	1.1653
Smndc1	chr19:53379213-53390573	OK	15.6951	13.2081
Lmbrd2	chr15:9111981-9197450	OK	22.2614	18.7312
Pcdhga2	chr18:36930284-37841872	OK	2.88587	2.42809
Sdpr	chr1:51218385-51333779	OK	5.7894	4.87049
Cdk2ap1	chr5:124345438-124354628	OK	11.4111	9.59986
Fundc1	chrX:17556568-17572297	OK	56.433	47.4649
Opa1	chr16:29579333-29654602	OK	46.7483	39.3077
Acr	chr15:89568325-89574585	NOTEST	0.228552	0.192157
Pcdhgb2	chr18:36930284-37841872	OK	2.86963	2.41256

Galc	chr12:98202299-98259337	OK	15.0146	12.6228
Atg2b	chr12:105613539-105685241	OK	7.87588	6.62116
Fanca	chr8:123254194-123318576	NOTEST	0.420585	0.35358
Apba2	chr7:64501705-64753876	OK	26.0316	21.8785
Traip	chr9:107950962-107972268	NOTEST	0.724495	0.608888
9230110C19Rik	chr9:8021671-8042823	OK	7.11667	5.98043
Zdhhc3	chr9:123072309-123113205	OK	16.1535	13.5739
Ganab	chr19:8898110-8916665	OK	44.3904	37.301
Slc33a1	chr3:63942323-63964733	OK	13.252	11.1342
Osbpl1a	chr18:12755311-12941841	OK	47.6461	40.0304
Cda	chr4:138338527-138367955	OK	52.0569	43.7347
Aif1	chr17:35170991-35176001	NOTEST	0.659652	0.554167
Paip2b	chr6:83806058-83831741	OK	41.7233	35.0475
Wdr8	chr4:154142371-154156818	OK	12.0704	10.1391
Rab11b	chr17:33742483-33760486	OK	17.7219	14.8859
Ech1	chr7:28825337-28832239	OK	47.5647	39.9491
Dennd4b	chr3:90266533-90280665	OK	6.07579	5.1019
Iah1	chr12:21316391-21373632	OK	19.6512	16.4995
Zfp608	chr18:54888044-54990180	OK	3.33106	2.79673
Sec16b	chr1:157506795-157568424	NOTEST	0.263634	0.221343
Zfp37	chr4:62189536-62208546	OK	3.38508	2.84204
Fam160b2	chr14:70583294-70599835	OK	9.07796	7.6209
Fbxo3	chr2:104027798-104063237	OK	47.8539	40.1728
Prpf8	chr11:75486776-75509447	OK	35.6146	29.8964
Gm12992	chr4:131873638-131920029	OK	0.848285	0.712007
Mcc	chr18:44425059-44812182	OK	3.3744	2.83228
Npm2	chr14:70647301-70653084	NOTEST	0.114828	0.0963754
Tigd2	chr6:59208869-59212033	OK	5.12845	4.30309
AI118078	chr9:55326948-55438344	OK	1.35395	1.13596
Fam98c	chr7:29134932-29156210	OK	11.1992	9.39338
Gm14436	chr2:175470024-175483322	OK	1.28988	1.08172
Rhob	chr12:8497758-8499985	OK	74.5475	62.5138
Ppfbp2	chr7:107595050-107758032	OK	2.18204	1.8297
Pdha1	chrX:159988432-160138336	OK	132.849	111.391
Nos2	chr11:78920858-78960124	NOTEST	0.0498199	0.0417668
Slc39a7	chr17:34028265-34031690	OK	50.8922	42.6557
Jagn1	chr6:113442516-113448229	OK	35.0538	29.3769
Bcl10	chr3:145924261-145934364	OK	10.3695	8.68995
Cldn25	chr16:58727909-58734247	OK	43.9452	36.827
Lrrc56	chr7:141194129-141214080	OK	1.76277	1.47712
D3Erttd254e	chr3:36151079-36170341	OK	4.67603	3.91763
Zfp811	chr17:32795675-32809931	OK	1.1547	0.96739
Slc37a4	chr9:44398175-44402965	OK	9.95102	8.33614
Parp9	chr16:35926514-35972621	OK	2.0012	1.67628
Atp5k	chr5:108433252-108434378	OK	367.298	307.663
Ripply3	chr16:94328421-94336935	NOTEST	0.232986	0.195156
Sppl3	chr5:115011523-115098790	OK	30.2264	25.3171
Dst	chr1:33908224-34308662	OK	130.984	109.697
Casd1	chr6:4601065-4643381	OK	16.1039	13.4855
Gpr182	chr10:127749601-127751798	NOTEST	0.345432	0.289251
Abca3	chr17:24352022-24414513	OK	45.9513	38.469
Cmtr2	chr8:110217959-110224489	OK	2.72788	2.28352
Pyurf	chr6:57684738-57692078	OK	3.73694	3.12815

Usp54	chr14:20499313-20618354	OK	3.20749	2.68492
Snx14	chr9:88376746-88438951	OK	17.3	14.4813
Taf13	chr3:108571698-108582068	OK	41.3273	34.5923
Fbxo21	chr5:117976769-118010191	OK	34.8726	29.1868
Cs	chr10:128337831-128362479	OK	121.377	101.582
Gtpbp3	chr8:71488102-71493400	OK	7.02187	5.87644
Psmc4	chr7:28041701-28050092	OK	93.6538	78.371
Ppfia4	chr1:134296782-134332928	OK	14.3467	12.0046
Myl12a	chr17:70993792-71002533	OK	16.2253	13.5761
Myo1b	chr1:51749757-51915978	OK	11.4827	9.60673
Tfeb	chr17:47737036-47792416	OK	4.02083	3.36379
Gmppb	chr9:108049289-108079375	OK	7.51121	6.2834
Kctd15	chr7:34639015-34652841	OK	11.1486	9.32612
Pex12	chr11:83291698-83298977	OK	2.812	2.35232
Arhgef7	chr8:11728104-11835217	OK	19.0828	15.9607
Mgat2	chr12:69184157-69186773	OK	20.5344	17.1739
Etfb	chr7:43444071-43457800	OK	81.4997	68.1527
Lmf1	chr17:25579173-25662826	OK	11.9385	9.98302
Zmpste24	chr4:121059237-121098243	OK	29.833	24.9447
Dfna5	chr6:50207402-50261769	OK	5.55096	4.64139
Ndfip2	chr14:105258672-105309298	OK	137.379	114.86
1700028E10Rik	chr5:151368674-151414083	NOTEST	0.142494	0.119113
Mrpl1	chr5:96210114-96266727	OK	5.75665	4.81201
Ank1	chr8:22974835-23150497	OK	70.6365	59.0421
Hspa9	chr18:34937414-34954351	OK	103.539	86.5433
Tox4	chr14:52261758-52305124	OK	15.0349	12.5666
Dhdds	chr4:133969056-134000864	OK	34.603	28.9215
Nkd2	chr13:73819327-73847631	OK	0.954074	0.797347
Cadm2	chr16:66655420-67620908	OK	4.55947	3.81038
Gm16596	chr12:108371152-108702306	NOTEST	0.138202	0.115494
Alms1	chr6:85587530-85702751	NOTEST	0.732735	0.612218
Atm	chr9:53437121-53536671	OK	4.54893	3.80045
Tbc1d14	chr5:36490603-36586226	OK	18.8905	15.7807
Cnbp	chr6:87842614-87851106	OK	109.577	91.5002
Hist1h1c	chr13:23738806-23739531	OK	40.2079	33.5728
Mat1a	chr14:41105032-41124428	NOTEST	0.0965845	0.0806427
Akap10	chr11:61871306-61930257	OK	9.92702	8.28842
Spg20	chr3:55112107-55137332	OK	22.567	18.8415
Dmxl2	chr9:54365157-54501626	OK	39.844	33.264
Pcsk4	chr10:79697304-80369637	NOTEST	0.165754	0.138371
Ago1	chr4:126435012-126468421	OK	6.00391	5.01196
Poc1b	chr10:99107170-99197988	OK	3.38174	2.82291
Tctn2	chr5:124598748-124627738	OK	3.96837	3.31212
Sp3os	chr2:72936431-72989249	OK	3.61422	3.01563
Hip1	chr5:135406518-135545122	OK	15.3981	12.8451
Abhd10	chr16:45729724-45742955	OK	21.9735	18.3299
Cdh26	chr2:178430514-178487366	NOTEST	0.159012	0.1326
Zmynd10	chr9:107547309-107551319	NOTEST	0.0477206	0.0397916
Amigo1	chr3:108186288-108192286	OK	51.2776	42.7568
Cyb5r3	chr15:83153500-83172208	OK	139.713	116.494
Sertad1	chr7:27486952-27490314	OK	8.81148	7.34597
Doc2b	chr11:75769089-75796057	NOTEST	0.538902	0.449271
Hmgcs1	chr13:119690350-119708260	OK	323.013	269.274

Zbtb37	chr1:161017755-161034259	OK	1.14019	0.950379
Xxylt1	chr16:30920553-31275697	OK	5.927	4.9402
Ubqln4	chr3:88553715-88569725	OK	22.292	18.5805
Zkscan16	chr4:58943627-58958355	NOTEST	0.583382	0.486247
Eri3	chr4:117550323-117674297	OK	67.059	55.8852
Cebpzoz	chr17:78916498-78937070	OK	12.8382	10.6971
Sh3gl3	chr7:82259907-82307420	OK	4.32156	3.60067
Pja2	chr17:64281005-64331883	OK	166.567	138.764
Egfl7	chr2:26581055-26592682	OK	26.8951	22.4043
Adam15	chr3:89339639-89350010	OK	39.5441	32.9395
Map4k4	chr1:39900912-40026310	OK	31.8134	26.4957
Rprd1a	chr18:24484961-24530204	OK	15.8282	13.182
Fundc2	chrX:75382398-75397158	OK	17.4319	14.5166
Nphp1	chr2:127740731-127788891	OK	3.45373	2.87586
Gba2	chr4:43562633-43587487	OK	11.3367	9.43963
2810408M09Rik	chr2:165490111-165493314	OK	5.89478	4.90825
Spire1	chr18:67488208-67552721	OK	16.1638	13.4539
Ndufa5	chr6:24518665-24527687	OK	113.283	94.2859
Gm14322	chr2:177759287-177773275	NOTEST	0.653875	0.544219
Dctd	chr8:48099091-48141667	OK	0.934989	0.77802
Fbxw5	chr2:25498649-25505470	OK	29.1256	24.2347
Cog2	chr8:124520766-124552007	OK	10.2784	8.55135
Mkrn2	chr6:115601937-115676635	OK	15.7965	13.1388
Sec11c	chr18:65800577-65817657	OK	56.142	46.6859
Atf7	chr15:102536643-102625421	OK	4.47094	3.7176
4933427G17Rik	chr7:120982508-121014787	NOTEST	0.164824	0.137033
Tmtc1	chr6:148047415-148444352	OK	47.0671	39.1275
Npy1r	chr8:66697421-66706798	OK	8.35338	6.94382
Sntg1	chr1:8359738-9299877	OK	1.14733	0.953386
Dip2b	chr15:100038663-100219473	OK	11.664	9.69194
Sil1	chr18:35266395-35498925	OK	21.7052	18.035
2900026A02Rik	chr5:113086322-113163313	OK	12.2383	10.1659
Ogdh	chr11:6291596-6359094	OK	72.1357	59.9177
Gprasp2	chrX:135839033-135844730	OK	22.3265	18.542
Tnni3	chr7:4518307-4522443	NOTEST	0.141879	0.117826
Sos1	chr17:80393751-80480453	OK	25.3923	21.0831
Aldh7a1	chr18:56525735-56587712	OK	21.5235	17.8698
Ext2	chr2:93695630-93822568	OK	17.8944	14.8567
Tnpo1	chr13:98842080-98926384	OK	11.7646	9.76623
Ppp3ca	chr3:136670769-136935779	OK	314.102	260.725
Comtd1	chr14:21831560-21848910	OK	5.35817	4.44754
Ndrg4	chr8:95703036-95715119	OK	1102.86	915.366
Amfr	chr8:93971587-94012640	OK	70.9461	58.8817
Cox7b	chrX:106015699-106022450	OK	86.2841	71.6048
Abi2	chr1:60409618-60481163	OK	21.9942	18.2518
Nbas	chr12:13269126-13583811	OK	15.3055	12.7008
Dbt	chr3:116513078-116549981	OK	8.15511	6.76724
Nuak1	chr10:84371318-84440471	OK	18.336	15.2151
Mtbp	chr15:55557407-55626423	NOTEST	0.728948	0.604859
Supt7l	chr5:31514568-31526762	OK	5.81963	4.82763
Mbnl1	chr3:60472829-60629748	OK	70.0452	58.0935
Itga7	chr10:128933812-128960988	OK	48.7406	40.4122
Ctla4	chr1:60909024-60915832	NOTEST	0.0323836	0.0268444

Svip	chr7:51997160-52006018	OK	40.5484	33.6123
8430419L09Rik	chr6:135197986-135236240	OK	43.7673	36.279
Ankrd40	chr11:94328000-94341847	OK	55.1968	45.752
Acvr1b	chr15:101174124-101212601	OK	17.7656	14.7255
Foxred1	chr9:35204220-35211055	OK	10.4779	8.68363
Fam122a	chr19:24294795-24555827	OK	6.24302	5.17258
Ghitm	chr14:37120444-37135322	OK	272.363	225.642
4933409K07Rik	chr4_JH584293_random:12055	NOTEST	0.335542	0.277976
Atp5d	chr10:79697304-80369637	OK	235.454	195.041
Sppl2b	chr10:80855274-80868708	OK	8.67431	7.18491
Zfp300	chrX:21079149-21089229	NOTEST	0.700452	0.579959
Tbc1d9b	chr11:50131359-50172785	OK	62.1258	51.4369
Card6	chr15:5097438-5108533	NOTEST	0.757002	0.626749
2410002F23Rik	chr7:44246721-44252319	OK	13.8457	11.4628
Srr	chr11:74898079-74925798	OK	14.9919	12.4111
Esam	chr9:37528088-37538319	OK	15.209	12.5888
Tmed9	chr13:55593134-55597694	OK	76.7586	63.5336
Cycs	chr6:50562562-50566474	OK	12.5952	10.4245
Rab33b	chr3:51483965-51496212	OK	13.3471	11.0465
Dclre1b	chr3:103193822-103854618	OK	1.59187	1.31743
Crot	chr5:8966047-8997146	OK	40.8175	33.7769
D430020J02Rik	chr12:116401946-116405161	NOTEST	0.272647	0.225616
Mrpl16	chr19:11770414-11774946	OK	20.6481	17.0852
Sec23a	chr12:58958383-59012017	OK	55.4528	45.8815
Irf1	chr11:53770013-53778374	OK	10.2183	8.45287
Rnft1	chr11:86415843-86544807	OK	1.70539	1.41065
Slc25a17	chr15:81318920-81360765	OK	28.1156	23.2563
Gtf3c3	chr1:54397580-54438971	OK	16.1928	13.3909
Tmem165	chr5:76183879-76469519	OK	21.1816	17.5162
Akap2	chr4:57845247-57896984	OK	21.7092	17.9521
Chd1l	chr3:97560747-97610190	OK	3.4213	2.82843
Myo18a	chr11:7777234-77865988	OK	42.8648	35.4347
Atp5a1	chr18:7773767-77782868	OK	420.55	347.648
Sema6d	chr2:124089968-124667789	OK	25.7513	21.2872
Haus3	chr5:34007178-34169526	OK	6.46471	5.34215
Nedd9	chr13:41309915-41487360	OK	5.83587	4.8222
Kbtbd4	chr2:90904785-90910560	OK	6.45143	5.3293
Tmem104	chr11:115187486-115247025	OK	12.1229	10.0141
Commd9	chr2:101886261-101901639	OK	25.2237	20.8359
Lyrm1	chr7:119895860-119916756	OK	9.77657	8.07527
Gm19276	chr15:10829050-10832713	NOTEST	0.240338	0.198493
Slc25a3	chr10:91116577-91123963	OK	286.127	236.308
Rer1	chr4:155074111-155086297	OK	44.0965	36.416
Rprd1b	chr2:158028496-158091797	OK	6.32636	5.22442
Tbc1d5	chr17:50733126-51613053	OK	10.5671	8.72584
Gns	chr10:121365089-121397245	OK	31.3839	25.9151
Mrps22	chr9:98588729-98601679	OK	15.9729	13.1879
Stard10	chr7:101321318-101346312	OK	57.8731	47.7779
Ccdc172	chr19:58512001-58553085	OK	4.66832	3.8538
Zfp609	chr9:65691582-65827564	OK	5.17901	4.27526
Zfp184	chr13:21945093-21960485	NOTEST	0.189536	0.15646
Cidea	chr18:67321208-67367794	OK	1.80156	1.48715
Mageh1	chrX:153036165-153037563	OK	14.2109	11.7303

Nomo1	chr7:46033695-46084212	OK	40.3009	33.256
Dnah7a	chr1:53397001-53706784	NOTEST	0.0438759	0.0362001
9430083A17Rik	chr13:51097737-51100727	NOTEST	0.531796	0.438661
Nckap1	chr2:80500511-80581182	OK	129.551	106.853
Ddx41	chr13:55530409-55536658	OK	5.27466	4.35042
2310014L17Rik	chr7:12927415-12931072	NOTEST	0.0978375	0.0806905
Itga2b	chr11:102453296-102469883	OK	0.868238	0.716047
9130023H24Rik	chr7:128234450-128245100	OK	1.46334	1.20677
Lipt2	chr7:100159276-100160931	OK	3.65056	3.01034
Creg1	chr1:165763779-165775304	OK	10.6191	8.75326
Ccnh	chr13:85189476-85213723	OK	14.9176	12.296
Zfp3	chr11:70764446-70772928	OK	3.00335	2.4755
Eif4g3	chr4:137993455-138207079	OK	43.7521	36.053
Mtdh	chr15:34082718-34142385	OK	20.6683	17.0291
Mief2	chr11:60728397-60732951	OK	6.86881	5.65916
Sema6c	chr3:95160419-95174050	OK	7.30828	6.02049
Stk38l	chr6:146724929-146778814	OK	9.60062	7.90863
Fank1	chr7:133709332-133881532	OK	0.85876	0.707397
Cyp20a1	chr1:60343371-60387387	OK	11.4271	9.4127
Zfyve20	chr6:92186711-92214811	OK	13.5166	11.1337
2310081J21Rik	chr13:50679169-50680224	NOTEST	0.203846	0.167896
Cox14	chr15:99725617-99728136	OK	70.5268	58.0888
Setd7	chr3:51515317-51567116	OK	45.355	37.3535
2610035D17Rik	chr11:113043905-113201838	OK	7.74257	6.37484
Ccbl1	chr2:30185130-30205699	OK	4.43376	3.65024
Usp4	chr9:108347830-108392529	OK	19.7611	16.266
Pigl	chr11:62458459-62513900	OK	2.64662	2.1785
Tmem101	chr11:102152546-102156407	OK	16.3153	13.4294
Cnpy3	chr17:46735712-46752212	OK	22.0416	18.1406
Mutyh	chr4:116807733-116819431	NOTEST	0.729502	0.600392
Mikl	chr8:111311799-111337903	OK	0.964091	0.793413
Nudt3	chr17:27579381-27623452	OK	137.665	113.286
Cpsf3	chr12:21286296-21315056	OK	16.0124	13.176
Tef	chr15:81802672-81826863	OK	30.1579	24.8108
Zfp148	chr16:33380774-33503903	OK	6.94866	5.71657
Deb1	chr9:121710388-121712921	OK	32.5945	26.8086
Gba	chr3:89202927-89208681	OK	23.6832	19.478
Ifi30	chr8:70762772-70766663	OK	7.36115	6.0527
Fan1	chr7:64346757-64374095	OK	2.585	2.12531
Igbp1	chrX:100494290-100516125	OK	17.9002	14.7153
Rhbdl1	chr17:25834464-25837127	OK	5.6706	4.66164
Dnah9	chr11:65831323-66168551	NOTEST	0.19103	0.157019
Ctdspl2	chr2:121953770-122015326	OK	2.33799	1.92171
Tvp23b	chr11:62879489-62895184	OK	14.4966	11.914
D4Erttd617e	chr4:118620798-118631915	NOTEST	0.237679	0.195278
Zfp60	chr7:27731408-27751689	OK	7.74248	6.36093
Naif1	chr2:32414486-32455476	NOTEST	0.684972	0.562739
Smim12	chr4:127243783-127247809	OK	55.7337	45.7853
Atrn	chr2:130906495-131030326	OK	21.9492	18.0307
Zkscan7	chr9:122888470-122896124	OK	1.16354	0.955695
Map3k15	chrX:159988432-160138336	NOTEST	0.202047	0.165947
Hmbox1	chr14:64822217-64949847	OK	44.1792	36.2838
Cd320	chr17:33843090-33849774	OK	5.63547	4.62813

Zranb3	chr1:127954178-128103047	OK	1.83732	1.50888
Pkn3	chr2:30078765-30093635	NOTEST	0.746095	0.612622
Ccl25	chr8:4325209-4360020	OK	1.72506	1.41639
Lims2	chr18:31931506-31958619	OK	5.43067	4.45846
Wdr7	chr18:63708694-63989759	OK	45.1588	37.065
1110008L16Rik	chr12:55280813-55492647	OK	3.30714	2.71393
Cpne7	chr8:123117373-123135185	NOTEST	0.11005	0.0903093
Myo10	chr15:25622549-25813671	OK	9.21895	7.56512
Cib1	chr7:80227155-80232805	OK	10.6202	8.71293
Bet1	chr6:4076903-4086927	OK	18.9311	15.5295
Tdrd7	chr4:45965334-46034765	OK	26.8871	22.0513
Pcdhb20	chr18:36930284-37841872	OK	2.84229	2.33101
Vps39	chr2:120316460-120353133	OK	22.8436	18.7343
Zfp85os	chr13:67729261-67756838	NOTEST	0.311402	0.25535
Alad	chr4:62505983-62520063	OK	4.92305	4.0364
Prmt10	chr8:77549396-77581338	OK	15.6287	12.8136
Nrg4	chr9:55208934-55283625	NOTEST	0.48115	0.394466
1110008F13Rik	chr2:156863121-156887078	OK	45.6849	37.4516
Amdhd2	chr17:24155832-24163733	OK	8.24553	6.75864
Slc9a8	chr2:167421720-167476998	OK	15.2406	12.4923
Klc3	chr7:19382038-19404104	NOTEST	0.512676	0.420052
Fam222b	chr11:78094672-78157339	OK	13.9238	11.4074
Trp53bp2	chr1:182409166-182462436	OK	4.90902	4.02153
Eml3	chr19:8929693-8941582	OK	7.62506	6.24504
Asb1	chr1:91540564-91559590	OK	21.5512	17.6478
Duox2	chr2:122280436-122298165	NOTEST	0.0305719	0.0250332
Mmgt1	chrX:56585511-56597919	OK	24.7904	20.2979
Mipep	chr14:60784565-60905480	OK	13.2276	10.8305
Flt1	chr5:147562195-147725988	OK	7.8133	6.39617
Jrk	chr15:74702411-74710374	OK	1.90724	1.5613
Atp10d	chr5:72203328-72298771	OK	0.801771	0.656196
Rpl27	chr11:101442244-101445596	OK	1.85173	1.51547
Mkks	chr2:136873780-137069778	OK	11.9199	9.75428
Vprbp	chr9:106821975-106880992	OK	7.10566	5.81364
Dsg1b	chr18:20376834-20409741	NOTEST	0.137926	0.112835
Tm9sf3	chr19:41210841-41264004	OK	60.4328	49.4372
Sirpa	chr2:129592838-129632228	OK	17.5551	14.3604
Tbrg4	chr11:6615597-6626067	OK	14.8373	12.1369
Galnt9	chr5:110544354-110621383	OK	13.7906	11.276
Naalad2	chr9:18323020-18385928	OK	1.02769	0.840236
Fam171b	chr2:83812727-83881358	OK	36.0356	29.4591
Epdr1	chr13:19591707-19619830	OK	171.71	140.361
Ppp1r10	chr17:35917195-35932283	OK	9.66719	7.90205
Gngt2	chr11:95824499-95845731	NOTEST	0.650911	0.532055
Atp6v0e2	chr6:48537568-48541800	OK	208.468	170.39
Elac1	chr18:73735037-73754479	OK	8.1287	6.64381
Tmem135	chr7:89139720-89338787	OK	23.6863	19.3588
Traf2	chr2:25517981-25546940	OK	4.42537	3.61669
Rgs12	chr5:34949447-35033593	OK	5.17797	4.23139
4632428C04Rik	chr16:30008666-30021430	OK	4.90281	4.00598
Zfp422	chr6:116624015-116628977	OK	7.14848	5.84025
Strn	chr17:78653963-78736560	OK	11.5457	9.43265
Are11	chr12:84918148-84970886	OK	25.8444	21.1139

Lcmt2	chr2:121137291-121156680	OK	2.76204	2.25613
Zxdb	chrX:94724568-94730191	OK	1.46897	1.19979
Gm3604	chr13:62367715-62383174	NOTEST	0.74462	0.608148
Spock2	chr10:60106256-60133913	OK	534.845	436.741
Slc25a36	chr9:97077010-97111041	OK	14.2189	11.6105
Fam134c	chr11:101096321-101119843	OK	18.9042	15.4355
H1fx	chr6:87980420-87981482	OK	14.8544	12.1284
Tmem208	chr8:105326363-105329057	OK	40.6327	33.1727
Zbtb8os	chr4:129336025-129347029	OK	2.74011	2.23689
Hif1an	chr19:44562853-44576274	OK	17.9425	14.646
Pla2g4f	chr2:120299956-120314165	NOTEST	0.0404061	0.0329822
Lym7	chr11:54839288-54860591	OK	3.87684	3.164
Fkbp4	chr6:128430106-128438631	OK	184.543	150.593
2310045N01Rik	chr8:70139712-70147260	OK	18.8421	15.3719
Ankrd55	chr13:112288450-112384002	OK	5.91103	4.82228
Gm6710	chr2:175869237-175988574	NOTEST	0.506937	0.413558
Cltc	chr11:86583864-87555823	OK	252.482	205.897
B630005N14Rik	chr6:13625674-13677966	OK	4.66075	3.8006
Kdelr2	chr5:143403819-143421904	OK	27.6193	22.5211
Epm2aip1	chr9:111271844-111279091	OK	40.4546	32.9867
Huwe1	chrX:151803281-151935417	OK	39.8433	32.4862
Polg2	chr11:106751225-106779537	OK	2.03507	1.65906
Birc6	chr17:74528294-74703356	OK	14.1346	11.5218
Pex13	chr11:23646478-23732876	OK	10.4787	8.5412
Ogfrl1	chr1:23366423-23383175	OK	47.1201	38.4063
Gppb1l1	chr4:116557726-116600266	OK	11.1486	9.08518
Wfikkn2	chr11:94235951-94242579	NOTEST	0.27149	0.221217
Adprhl1	chr8:13235661-13254162	OK	1.66846	1.35919
Prss23	chr7:89507784-89517586	OK	7.57789	6.17264
Cdip1	chr16:4726360-4789935	OK	30.4218	24.7798
Itch	chr2:155133480-155226855	OK	23.3445	19.011
Mrpl30	chr1:37890552-37898333	OK	39.4921	32.1598
Ccz1	chr5:143987908-144014853	OK	19.0603	15.5197
Pfn2	chr3:57841894-57847757	OK	275.848	224.572
4933417D19Rik	chr8:123232257-123254175	NOTEST	0.102508	0.083453
Gfpt1	chr6:87042845-87092207	OK	17.4359	14.1905
Tm2d2	chr8:25017210-25023260	OK	40.6765	33.1003
Xpo4	chr14:57582270-57664956	OK	3.47286	2.82569
Gpr137	chr19:6938069-6951905	OK	51.134	41.5974
Sucla2	chr14:73552785-73596142	OK	136.652	111.163
Mpc2	chr1:165461207-165481214	OK	60.7329	49.4016
3110002H16Rik	chr18:12168729-12236386	OK	19.5439	15.8966
Nek9	chr12:85299513-85339362	OK	31.8657	25.9177
Wnt5a	chr14:28505472-28525515	OK	7.36235	5.98801
Srxn1	chr2:152105523-152111376	OK	111.036	90.2993
Urb2	chr8:124023472-124048504	OK	4.68214	3.80556
E430018J23Rik	chr7:127390835-127393621	OK	2.07724	1.68822
Ndufb6	chr4:40270662-40279368	OK	155.596	126.421
Nol9	chr4:152039326-152061494	OK	4.52317	3.67491
Csf3r	chr4:126024658-126044975	NOTEST	0.214832	0.174542
Zfp592	chr7:80993683-81045162	OK	5.57487	4.52931
1700052K11Rik	chr11:105179020-105181433	OK	1.7504	1.42196
Uap1	chr1:170142002-170174946	OK	30.9238	25.1207

Nlgn2	chr11:69823122-69834849	OK	39.1689	31.8156
Pcdhb3	chr18:36930284-37841872	OK	1.13463	0.921405
Kdelc1	chr1:44106545-44118773	OK	2.77154	2.25066
Ino80c	chr18:24104760-24121819	OK	11.7158	9.51336
Ppp1cc	chr5:122158278-122175269	OK	6.50563	5.28233
Srpr	chr9:35211202-35267805	OK	26.8849	21.8287
9030617O03Rik	chr12:100779122-100872610	OK	4.07822	3.3111
Cnm2	chr19:46761608-46878580	OK	6.03917	4.9031
Nrxn3	chr12:88794503-90334933	OK	19.5735	15.8912
Poldip2	chr11:78512295-78522736	OK	27.6118	22.4166
Smap2	chr4:120968316-121017247	OK	52.8001	42.8652
Agrn	chr4:156165289-156197488	OK	10.1175	8.21129
Fndc7	chr3:108853677-108890008	NOTEST	0.0285383	0.0231565
Tmbim4	chr10:120208825-120224897	OK	76.2088	61.8364
Xrcc2	chr5:25689815-25705797	OK	3.0096	2.44202
5330434G04Rik	chrX:105372993-105391754	OK	4.60722	3.73827
Bre	chr5:31698049-32084739	OK	49.6393	40.2637
Ube2k	chr5:65537260-65598989	OK	22.1488	17.9616
Ppa1	chr10:61648620-61674165	OK	72.6459	58.8912
Eif5a2	chr3:28781310-28798846	OK	82.2001	66.6269
Itgb1bp1	chr12:21111755-21286237	OK	15.6615	12.6937
Arnt2	chr7:84246274-84410038	OK	13.8697	11.2414
Tmem9	chr1:136008218-136035030	OK	41.9382	33.9898
Sec22b	chr3:97901226-97922318	OK	42.7223	34.6242
Ndufb11	chrX:20615325-20650905	OK	49.1373	39.8168
Usp6nl	chr2:6322756-6443820	OK	12.3159	9.97921
Rps6ka5	chr12:100549777-100725028	OK	6.69057	5.42048
Tnfrsf10b	chr14:69767471-69784411	NOTEST	0.351181	0.284486
Trim3	chr7:105604462-105633571	OK	24.8441	20.124
Dusp1	chr17:26505590-26508472	OK	37.4403	30.3263
Zfand5	chr19:21272277-21286840	OK	37.4399	30.321
Gm13157	chr4:147753973-147809788	OK	1.69106	1.36949
Acta1	chr8:123891757-123894775	OK	1.06078	0.859004
Cdh23	chr10:60302749-60696490	NOTEST	0.0370038	0.0299651
Il17rc	chr6:113471454-113483163	OK	2.83682	2.29708
Tom1l2	chr11:60226713-60352905	OK	92.9298	75.2453
Llgl1	chr11:60699689-60727221	OK	7.28657	5.89966
Zfp770	chr2:114193460-114201432	OK	6.91139	5.59472
Psd3	chr8:67689081-67974574	OK	21.474	17.3797
Pomk	chr8:25980603-25994121	OK	12.1587	9.84014
Ephb6	chr6:41605481-41620507	OK	14.1345	11.4358
Tada2b	chr5:36465184-36484285	OK	12.9285	10.4598
Ptpn11	chr5:121130532-121191397	OK	39.0182	31.5583
Aldh1a1	chr19:20601981-20643462	OK	7.32922	5.92562
Tmem14a	chr1:21218574-21230167	OK	22.9076	18.5201
Draxin	chr4:148098436-148130698	NOTEST	0.518631	0.419211
Cpt2	chr4:107903981-107923589	OK	16.0047	12.9328
Lrrc51	chr7:101912988-101933857	OK	3.7319	3.01539
Rasd1	chr11:59948213-59964942	OK	4.91977	3.97446
Bmpr2	chr1:59764278-59878081	OK	45.6163	36.8512
Dpy19l4	chr4:11265078-11322131	OK	9.94369	8.03154
Dhfr	chr13:92211880-92389053	OK	1.37142	1.1077
P4hb	chr11:120560303-120572936	OK	73.3184	59.2173

Psme4	chr11:30771774-30880361	OK	28.1656	22.7467
Dad1	chr14:54235484-54253929	OK	152.745	123.34
Cfd	chr10:79697304-80369637	NOTEST	0.100168	0.0808826
Aldh16a1	chr7:45141839-45160064	OK	4.85463	3.91968
Stk33	chr7:109279215-109439053	OK	0.906637	0.732016
Cpeb3	chr19:37021290-37207471	OK	12.0373	9.71622
Ttc39a	chr4:109407099-109444745	OK	8.83622	7.13181
Ccdc136	chr6:29398925-29426995	OK	22.2523	17.9589
Tmco3	chr8:13255962-13322924	OK	13.6668	11.0292
Poc1a	chr9:106281060-106349891	OK	1.47208	1.18781
Vipas39	chr12:87238874-87266286	OK	23.324	18.8166
Mpv17	chr5:30933142-31348845	OK	24.1228	19.4592
Irgm1	chr11:48865248-48871346	OK	3.23472	2.60932
Klhl11	chr11:100462611-100472782	OK	15.0837	12.1673
Ubfd1	chr7:122067197-122082199	OK	32.9749	26.5959
Atp5e	chr2:174461074-174464101	OK	289.527	233.493
Thns12	chr6:71128165-71144380	OK	4.82939	3.8947
Ptdss1	chr13:66912097-67032405	OK	29.2746	23.6041
D3Ert751e	chr3:41742614-41758941	OK	5.11811	4.12651
Hmgn3	chr9:83109941-83146607	OK	17.7396	14.3001
Acadv1	chr11:70010182-70015428	OK	48.7325	39.2826
Mthfd1l	chr10:3973074-4167081	OK	10.3007	8.30217
Pou3f3	chr1:42697145-42700209	NOTEST	0.0378011	0.0304621
Fuk	chr8:110882455-110902488	OK	3.03433	2.44511
1700001G11Rik	chr14:66295328-66311424	NOTEST	0.407056	0.327957
Clptm1	chr7:19631579-19665030	OK	39.632	31.9284
Ndufa9	chr6:126821862-126849144	OK	115.228	92.8255
Lsm11	chr11:45928268-45944935	OK	5.11505	4.12016
Dlec1	chr9:119102477-119147694	NOTEST	0.343511	0.276686
Dzank1	chr2:144470556-144527398	OK	30.0723	24.2217
Pla2g3	chr11:3488226-3494166	OK	8.88042	7.15257
Tufm	chr7:126487354-126490731	OK	3.69013	2.97203
2010107E04Rik	chr12:111961375-111966977	OK	517.218	416.497
Alg14	chr3:121291816-121362011	OK	23.3788	18.826
Rp2h	chrX:20364480-20405653	OK	4.41973	3.5587
Mpc1	chr17:8283812-8327442	OK	4.0845	3.2886
Glb1	chr9:114401077-114474379	OK	16.9475	13.645
Lsamp	chr16:41533341-42146213	OK	16.3158	13.135
Dcaf11	chr14:55560028-55570065	OK	28.1624	22.6666
Aco1	chr4:40143264-40199009	OK	10.3891	8.36157
Pofut2	chr10:77259299-77269586	OK	11.4378	9.20559
D17H6S53E	chr17:35126401-35128855	OK	3.02391	2.43335
Mtr	chr13:12186539-12258113	OK	6.81928	5.4873
Med14	chrX:12675370-12761973	OK	18.0475	14.5213
Zfp119b	chr17:55938372-55945259	OK	0.921794	0.741653
Scarb2	chr5:92443872-92505608	OK	71.9737	57.9031
Thada	chr17:84190055-84466208	OK	2.2762	1.83097
Bmpr1a	chr14:34411067-34502546	OK	19.9985	16.0866
Tmem138	chr19:10570884-10577097	OK	3.84629	3.09332
Slc45a1	chr4:150629395-150652174	OK	31.2339	25.1095
Ndufb3	chr1:58586598-58595948	OK	214.378	172.28
Cox7a2	chr9:79755240-79759853	OK	204.426	164.281
Tubb3	chr8:123411563-123422010	OK	1312.99	1055.09

Cd83	chr13:43785111-43803133	OK	2.21045	1.77593
Scd4	chr19:44333325-44346743	NOTEST	0.383631	0.308192
Apeh	chr9:108085413-108094480	OK	19.7275	15.8477
MacroD2	chr2:140395429-142390050	OK	13.6042	10.9282
Pkd1	chr17:24549949-24632627	OK	8.14239	6.54065
Lpar6	chr14:73195501-73325791	OK	1.67546	1.34579
Glod4	chr11:76220394-76243699	OK	29.415	23.6261
Alg2	chr4:47469832-47474367	OK	74.2831	59.663
Akap13	chr7:75455533-75754609	OK	6.84987	5.5003
Dnajc22	chr15:99099483-99104707	NOTEST	0.588116	0.472218
Dse	chr10:34151392-34207551	OK	4.61232	3.70335
Pdxk	chr10:78436746-78464948	OK	10.5732	8.48938
Hsd3b7	chr7:127800608-127803802	OK	5.2028	4.17721
Nme5	chr18:34562640-34579106	OK	1.99117	1.5986
Tpmt	chr13:47023542-47043217	OK	3.55719	2.85575
Frmd8	chr19:5850973-5875208	OK	12.0715	9.69087
Tmem132a	chr19:10842543-10869779	OK	7.81657	6.27446
Cdh8	chr8:99011886-99416471	OK	5.98561	4.80419
Rnf150	chr8:82863355-83091271	OK	6.35408	5.09957
Trap1	chr16:4037144-4077810	OK	43.3051	34.7412
1810055G02Rik	chr19:3708332-3717881	OK	5.47786	4.39292
Smim8	chr4:34768671-34778337	OK	13.4057	10.7452
Plec	chr15:76170973-76231378	OK	69.1079	55.389
Vkorc1l1	chr5:129942108-129986692	OK	24.0316	19.2605
Bcs1l	chr1:74588360-74592443	OK	7.06259	5.65996
Slc4a8	chr15:100761746-100823971	OK	3.56666	2.85829
Dmxl1	chr18:49832996-49965473	OK	8.2782	6.63185
Taf4b	chr18:14783244-14900359	OK	3.34562	2.67965
Dyrk2	chr10:118859348-118868903	OK	4.26562	3.41639
Ogfod3	chr11:121177592-121229309	OK	9.61058	7.6936
Dhtkd1	chr2:5898059-5942792	NOTEST	0.442876	0.354501
Sspl2a	chr2:126890394-126933235	OK	9.77002	7.81995
Ublcp1	chr11:44454570-44470548	OK	26.4493	21.168
Pcdhgb6	chr18:36930284-37841872	OK	3.0996	2.48068
Copg1	chr6:87887939-87913594	OK	96.9019	77.525
Cog4	chr8:110847023-110882234	OK	38.6852	30.9475
Pcdhb18	chr18:36930284-37841872	OK	1.5556	1.24437
Ccrl2	chr9:111054834-111057270	NOTEST	0.718083	0.574387
Lzic	chr4:149485332-149496667	OK	8.02996	6.42286
Nkrf	chrX:36887541-36902899	OK	13.9657	11.1702
Cd19	chr7:126408447-126414870	NOTEST	0.283596	0.226825
Acat1	chr9:53580521-53610350	OK	29.7383	23.7812
Dhodh	chr8:109593247-109608673	OK	4.56704	3.65205
Btf3l4	chr4:108814294-108833584	OK	6.9586	5.56434
1700030C10Rik	chr12:20804391-20815779	OK	3.26945	2.61404
Lmf2	chr15:89351003-89355659	OK	9.83974	7.86607
Nudt22	chr19:6993018-6996037	OK	9.09661	7.27151
Col4a3	chr1:82586920-82722059	NOTEST	0.264023	0.211044
Nkx2-2os	chr2:147177545-147331681	NOTEST	0.0173088	0.013831
Slc9a9	chr9:94669891-95230452	OK	101.025	80.7185
Bcap31	chrX:73686182-73716175	OK	138.446	110.615
Stx6	chr1:155158702-155203517	OK	17.5944	14.0574
Mrpl39	chr16:84717579-84735302	OK	16.1527	12.9047

Ergic3	chr2:156008124-156018279	OK	56.1505	44.8541
Fam172a	chr13:77708689-78166240	OK	11.2037	8.94965
Ralb	chr1:119470304-119504782	OK	10.6173	8.4808
Ctsd	chr7:142375915-142387870	OK	513.414	410.054
Lman1	chr18:65980738-66002635	OK	14.8352	11.8466
Wdfy4	chr14:32959546-33185066	NOTEST	0.356984	0.285064
Camta2	chr11:70669462-70688105	OK	27.3928	21.8723
Cxx1b	chrX:53669176-53670408	OK	42.6038	34.01
Smad7	chr18:75367364-75395934	OK	2.2026	1.75826
2410004I01Rik	chr11:102958299-102964154	NOTEST	0.0914032	0.0729597
Rit2	chr18:30974313-31317128	OK	62.3441	49.7446
Mgea5	chr19:45750258-45783291	OK	49.0442	39.1288
Afap1l1	chr18:61730261-61786662	OK	3.6311	2.89652
Sel1l	chr12:91806042-91849157	OK	28.3569	22.62
Ndufs8	chr19:3908862-3912774	OK	90.4034	72.1087
Phpt1	chr2:25573430-25574871	OK	32.1577	25.6471
Usp21	chr1:171281952-171287961	OK	5.05061	4.02775
Cd52	chr4:134093537-134095073	OK	3.79094	3.0231
Nudt21	chr8:94019402-94037039	OK	2.88856	2.30349
Msra	chr14:64122620-64455903	OK	10.5414	8.40586
Tlhc1	chr8:119760586-119778416	OK	5.7776	4.60667
Jmy	chr13:93430096-93499808	OK	10.5121	8.38093
Bckdk	chr7:127904072-127909664	OK	10.2623	8.18097
Dscr3	chr16:94497723-94526629	OK	16.5745	13.2098
Lpcat4	chr2:112239840-112247111	OK	38.3705	30.5687
Btg1	chr10:96617000-96622811	OK	10.4794	8.34814
Pirb	chr7:3712504-3720382	NOTEST	0.402354	0.320438
Armc1	chr3:19132143-19163065	OK	34.6128	27.5654
Kdm6b	chr11:69398517-69413675	OK	4.87052	3.87851
Vegfa	chr17:46016992-46032377	OK	12.1893	9.70504
Timm22	chr11:76406924-76416313	OK	12.697	10.1092
1700027J07Rik	chr10:43746157-43765836	NOTEST	0.0802407	0.0638771
Tmem41a	chr16:21934326-21947552	OK	27.381	21.7969
Bri3bp	chr5:125441567-125460885	OK	8.26841	6.58181
Tanc2	chr11:105589985-105929303	OK	16.1816	12.8784
Gclm	chr3:122245556-122267215	OK	53.6984	42.7352
Anp32e	chr3:95929256-95947387	OK	33.9684	27.0304
Zfp334	chr2:165377435-165388259	OK	4.90328	3.90126
Zbtb2	chr10:4367073-4388108	OK	1.75709	1.39795
Rnf169	chr7:99920253-99980458	OK	2.96406	2.35821
Ppp2r1a	chr17:20945453-20965905	OK	259.783	206.668
H2-Q9	chr17:35439154-35443773	LOWDAT	6.32E-05	5.02E-05
Ppp5c	chr7:17004640-17027914	OK	43.7532	34.8015
Slc7a1	chr5:148327409-148399904	OK	29.7184	23.6359
Usp5	chr6:124815018-124829447	OK	113.725	90.4451
Sfxn4	chr19:60837276-60861430	OK	6.28186	4.99534
6820408C15Rik	chr2:152415586-152444330	NOTEST	0.357286	0.284106
Glud1	chr14:34310726-34345033	OK	79.5648	63.2612
Pde3b	chr7:114415253-114537937	OK	5.73431	4.55855
Pkdrej	chr15:85814675-85821733	NOTEST	0.390391	0.310203
Egln1	chr8:124908586-124949254	OK	16.8254	13.3687
Znf41-ps	chr4:145781542-145831978	OK	0.789963	0.627579
Cacna1e	chr1:154392518-154725920	OK	1.57584	1.25172

Champ1	chr8:13869640-13881639	OK	9.04047	7.181
St6gal1	chr16:23224739-23360350	OK	26.3743	20.9487
Serpinb7	chr1:107422688-107452689	NOTEST	0.0408012	0.0324046
5730409E04Rik	chr4:126609853-126614371	OK	61.4965	48.8402
Mdh2	chr5:135778648-135790386	OK	255.98	203.276
Nrip3	chr7:109758055-109781545	OK	57.4883	45.6484
Zfp202	chr9:40192315-40213604	OK	0.815802	0.647679
Cyp51	chr5:4080673-4104697	OK	41.1596	32.6766
0610009L18Rik	chr11:120348677-120351190	OK	2.40438	1.9082
Hlx	chr1:184727144-184732493	NOTEST	0.696294	0.552574
Supv3l1	chr10:62429377-62451353	OK	8.98105	7.12712
Tmc3	chr7:83584930-83623709	NOTEST	0.424967	0.337227
Scn7a	chr2:66673425-66784910	OK	110.745	87.8667
Pcdhb19	chr18:36930284-37841872	OK	1.30727	1.03714
Pi4ka	chr16:17280350-17430826	OK	45.8941	36.4101
Tub	chr7:109010879-109083324	OK	2.29664	1.82195
Sp6	chr11:97013568-97024738	NOTEST	0.719541	0.570797
Itgb2	chr10:77530347-77565674	NOTEST	0.812422	0.644437
Tek	chr4:94739288-94874976	OK	3.72348	2.95325
Yipf5	chr18:40204864-40219399	OK	18.458	14.6395
Phykpl	chr11:51584756-51606881	OK	1.3767	1.09172
Ikzf2	chr1:69531209-69685960	OK	0.864262	0.685336
Myo5a	chr9:75071205-75223687	OK	72.1936	57.245
Lym9	chr11:78826594-78843899	OK	10.9768	8.70362
C030034L19Rik	chr3:9403077-9413903	NOTEST	0.042057	0.0333433
Vcpip1	chr1:9723195-9771256	OK	21.8407	17.314
Mtor	chr4:148448581-148557685	OK	19.7392	15.6453
Higd1c	chr15:100353199-100384435	NOTEST	0.0370727	0.0293728
Dcp2	chr18:44380499-44424969	OK	17.7525	14.0653
Ighmbp2	chr19:3259075-3283010	OK	3.52567	2.7927
Cat	chr2:103453903-103485153	OK	76.8818	60.8732
Uqcrc2	chr7:120635188-120670343	OK	104.966	83.108
Rom1	chr19:8927381-8929356	OK	12.0578	9.54642
M6pr	chr6:122309009-122317677	OK	42.4739	33.6242
Cep83	chr10:94688789-94790336	OK	9.05425	7.16665
4930529C04Rik	chr3:91071661-91075192	NOTEST	0.0161016	0.0127425
Prdx6	chr1:161240111-161251166	OK	40.4598	32.0168
Gyk	chrX:85701936-85776819	OK	9.90841	7.84066
Pias2	chr18:77065207-77155708	OK	9.02678	7.14299
Acads	chr5:115110298-115119346	OK	8.24489	6.52382
Ube3b	chr5:114380606-114421166	OK	47.1841	37.3335
Axin1	chr17:26138685-26195811	OK	6.12789	4.84654
Gdpd1	chr11:86583864-87555823	OK	22.3829	17.7002
Mus81	chr19:5482839-5488336	OK	4.84664	3.83072
Fyn	chr10:39369798-39565374	OK	30.7234	24.279
Dynll2	chr11:87979524-87998298	OK	580.89	458.934
Cux1	chr5:136248134-136567490	OK	17.8037	14.0651
Ngf	chr3:102469918-102521013	NOTEST	0.340229	0.268758
1700019G17Rik	chr6:85899049-85904938	OK	1.35971	1.07404
Npm3-ps1	chr6:85076140-85077126	OK	2.01723	1.59256
Dbil5	chr11:76217612-76218665	NOTEST	0.333706	0.26345
Mnd1	chr3:84087933-84155786	NOTEST	0.847951	0.668875
Lrrfip1	chr1:90998726-91128944	OK	9.27167	7.31326

Chpf	chr1:75474568-75479471	OK	36.3753	28.6883
Polg	chr7:79392337-79466273	OK	10.4917	8.27388
Atad2	chr15:58094046-58135082	OK	3.80188	2.99799
H3f3b	chr11:116021960-116024504	OK	67.6332	53.3111
Usp32	chr11:84984487-85139955	OK	42.6688	33.6327
Sergef	chr7:46443158-46639807	OK	6.58897	5.19322
Tmprss6	chr15:78439666-78468634	NOTEST	0.101721	0.0801699
Trim65	chr11:116124707-116131128	NOTEST	0.771322	0.607895
Pola1	chrX:93304765-93632155	OK	2.03933	1.60693
Accsl	chr2:93855359-93869157	NOTEST	0.201503	0.158734
Fgl1	chr8:41191433-41215156	NOTEST	0.911348	0.717895
Tsen54	chr11:115814738-115823102	OK	4.82959	3.80383
Scrn2	chr11:97029951-97033960	OK	2.46467	1.94118
Rtn1	chr12:72211748-72409054	OK	444.979	350.451
Crkl	chr16:17451984-17487440	OK	16.5104	13.0024
Trim34a	chr7:104244456-104262236	OK	1.12362	0.884866
Sdr39u1	chr14:55897284-55900232	OK	36.2696	28.5608
Ssr2	chr3:88579670-88588413	OK	44.1465	34.7632
BC022687	chr12:112808974-112816245	OK	4.44493	3.50012
Trappc10	chr10:78186725-78244642	OK	28.648	22.5571
Rpgrip1l	chr8:91217029-91313222	OK	3.56036	2.80333
Chchd3	chr6:32792226-33060152	OK	39.154	30.8287
Stk40	chr4:126103956-126141029	OK	8.72334	6.86841
Chid1	chr7:141475235-141539857	OK	10.9884	8.65073
B3galnt1	chr3:69573918-69598960	OK	17.7923	14.0064
Uprt	chrX:104482781-104506262	OK	7.23587	5.6959
Atp5g1	chr11:96072792-96075694	OK	74.3984	58.563
Zfp955b	chr17:33289543-33304689	OK	5.30855	4.17865
Zmynd15	chr11:70454233-70466199	NOTEST	0.11316	0.0890686
Onecut2	chr18:64340363-64398488	OK	7.07353	5.5664
Dars	chr1:128363706-128417416	OK	38.7523	30.4946
Paox	chr7:140125684-140134334	OK	0.892155	0.701905
Ttc30b	chr2:75935849-75938462	OK	3.67768	2.89336
Adcy4	chr14:55769091-55784019	OK	1.12593	0.885671
Stk36	chr1:74601454-74636893	NOTEST	0.607186	0.47744
2700070H01Rik	chr14:63055072-63058149	OK	3.35323	2.63662
Acaa2	chr18:74779211-74806207	OK	45.2961	35.6157
Tspan12	chr6:21771394-21852515	OK	17.2949	13.5984
Syp	chrX:7638579-7653256	OK	335.35	263.67
Pigf	chr17:86963110-87025401	OK	8.54708	6.71985
Ly96	chr1:16688455-16709605	OK	3.23257	2.54149
Slc23a2	chr2:132052495-132145108	OK	17.2287	13.5451
Ube3c	chr5:29569241-29676077	OK	39.5726	31.1107
Loh12cr1	chr6:134639511-134711184	OK	17.3882	13.6691
Kcnv1	chr15:45106283-45114934	OK	12.3381	9.69829
Isca2	chr12:84773269-84775089	OK	34.5357	27.1458
9430015G10Rik	chr4:156109997-156127263	OK	2.88583	2.26798
AU022252	chr4:119225137-119232724	OK	12.2067	9.59315
Maml2	chr9:13619988-13709533	OK	2.83684	2.22926
Cnga4	chr7:105404567-105408738	NOTEST	0.0612069	0.048096
Inpp5d	chr1:87620311-87720508	OK	0.79222	0.622519
Chpf2	chr5:24586749-24592486	OK	31.8939	25.0613
Gata2	chr6:88198663-88207032	OK	1.10511	0.868331

Agpat5	chr8:18846278-18884413	OK	15.6726	12.3131
Lrrc8c	chr5:105519470-105608954	OK	21.3882	16.8023
Prdx5	chr19:6906818-6909645	OK	234.032	183.847
Rnf121	chr7:102019871-102065132	OK	10.9105	8.56671
Pcdhgc5	chr18:36930284-37841872	NOTEST	0.258346	0.20284
Rab3a	chr8:70754678-70760921	OK	313.316	245.963
Mrpl3	chr9:105053267-105077476	OK	29.5729	23.2156
Dpm1	chr2:168209047-168230379	OK	12.9613	10.175
Xpr1	chr1:155275656-155417444	OK	14.2454	11.183
Ap5s1	chr2:131127411-131604824	OK	10.8539	8.51993
Edem3	chr1:151755373-151822328	OK	12.0159	9.42927
Tmbim1	chr1:74285033-74353692	OK	24.3599	19.1123
Myoz2	chr3:123006205-123034987	NOTEST	0.28461	0.223268
Fbxo28	chr1:182313101-182341606	OK	18.3766	14.414
1700037C18Rik	chr16:3905797-3908689	OK	2.06223	1.61723
Aph1b	chr9:66775486-66795423	OK	8.85878	6.94682
Dusp15	chr2:152940994-152951582	OK	20.6969	16.2296
Alas1	chr9:106233454-106247954	OK	19.7102	15.4549
Mrpl18	chr17:12911354-12916091	OK	38.5215	30.2033
Arhgef10l	chr4:140514484-140665905	OK	27.3248	21.4242
Dhx40	chr11:86583864-87555823	OK	13.2876	10.4179
Mapre2	chr18:23752332-23893861	OK	135.679	106.35
Impad1	chr4:4764350-4793306	OK	25.8697	20.2742
Spg21	chr9:65460936-65488470	OK	12.8656	10.079
Cd93	chr2:148436650-148443535	OK	5.21129	4.08242
Mapk9	chr11:49846750-49886421	OK	63.1559	49.4725
Serf2	chr2:121449197-121456764	OK	33.087	25.9169
Uqcrrs1	chr13:30540311-30545316	OK	92.7937	72.6837
Mrpl22	chr11:58171653-58179581	OK	11.3632	8.89992
Uqcrc1	chr9:108936647-108949641	OK	162.79	127.501
3830408C21Rik	chr13:107022569-107033518	NOTEST	0.794888	0.622547
Scamp1	chr13:94201432-94285281	OK	95.3504	74.6576
Coasy	chr11:101082624-101086619	OK	17.0131	13.3197
Gpr149	chr3:62529962-62605140	OK	6.82965	5.347
Zfp879	chr11:50832030-50841552	NOTEST	0.409518	0.320511
Phospho2	chr2:69789736-69797168	OK	14.3331	11.2137
Aars	chr8:111033841-111055569	OK	64.7791	50.6756
Pigt	chr2:164497524-164508301	OK	16.4794	12.8873
Ndufs7	chr10:79697304-80369637	OK	84.8856	66.3592
Map3k4	chr17:12227620-12318660	OK	9.06381	7.0827
Chchd2	chr5:129881160-129887470	OK	88.342	69.0088
Zkscan1	chr5:138085083-138107822	OK	11.6261	9.08128
Eci2	chr13:34977747-34994144	OK	30.1046	23.5135
Gpr132	chr12:112850875-112860916	NOTEST	0.166089	0.129724
Kdm7a	chr6:39118472-39206773	OK	7.41673	5.7927
Lrrc55	chr2:85188070-85196699	OK	1.44511	1.12855
Dera	chr6:137754576-137837872	OK	3.13124	2.44491
Nrg3	chr14:38368950-39473088	OK	9.92929	7.75147
Zfp882	chr8:71908605-71918851	OK	1.11429	0.869852
B3galt4	chr17:33949911-33951488	OK	2.57538	2.01043
Tmem240	chr4:155734803-155740564	OK	2.10369	1.64202
Atp10a	chr7:58658201-58829426	OK	1.62976	1.27184
Chd6	chr2:160946977-161109056	OK	12.3579	9.64312

Speg	chr1:75375296-75432306	OK	6.4915	5.06411
Galnt15	chr14:32029102-32058326	OK	0.991761	0.773663
Polr2b	chr5:77310483-77408045	OK	25.4745	19.8713
Ranbp6	chr19:29808107-29812974	OK	20.5043	15.9933
Lyp1a1	chr1:186087731-186117310	OK	6.55645	5.1131
Wdr18	chr10:79697304-80369637	OK	16.2171	12.6435
D5Ert579e	chr5:36600485-36696021	OK	19.8648	15.4869
Lrrc61	chr6:48554798-48572670	OK	7.51674	5.85788
Hmgcl	chr4:135946452-135962617	OK	9.18474	7.15727
Mfsd12	chr10:81357569-81365820	OK	11.2329	8.75135
Jdp2	chr12:85599104-85639878	OK	5.75482	4.48328
Map3k13	chr16:21891968-21931877	OK	3.7147	2.89368
Ap1g1	chr8:109778639-109864208	OK	31.6017	24.6162
Themis	chr10:28668394-28882749	NOTEST	0.0419795	0.0326945
Fgd5	chr6:91987109-92076005	OK	1.78506	1.39024
Abcb7	chrX:104280564-104413846	OK	10.6673	8.30736
Kiss1r	chr10:79697304-80369637	OK	1.80051	1.40217
Fitm2	chr2:163468702-163473003	OK	22.7065	17.6802
Map2k4	chr11:65688243-65788297	OK	75.5965	58.849
Helz2	chr2:181227614-181242027	OK	1.0489	0.816463
Tm9sf2	chr14:122107081-122159603	OK	106.838	83.125
Zfp367	chr13:64133056-64153199	OK	9.14081	7.11058
Mtus2	chr5:147957319-148316065	OK	4.80609	3.73856
Dnajb12	chr10:59879590-59898016	OK	16.2607	12.6468
Cxcl16	chr11:70454233-70466199	OK	1.11418	0.866464
Ppp1r16b	chr2:158666732-158766334	OK	3.63419	2.82516
Dcbld2	chr16:58408534-58469745	OK	11.9658	9.29856
Pcdhb8	chr18:36930284-37841872	NOTEST	0.659293	0.512227
Lage3	chrX:74352161-74353618	OK	8.7401	6.78985
36038	chr1:93478992-93509732	OK	28.2732	21.9643
Zfp719	chr7:43579585-43593710	OK	3.22746	2.50724
Itgad	chr7:128173945-128206366	NOTEST	0.0133927	0.0104033
Pdss2	chr10:43221485-43464882	OK	6.3867	4.96095
Ubr3	chr2:69897245-70024013	OK	50.542	39.2568
Cxx1a	chrX:53642488-53643763	OK	52.6594	40.8935
E2f5	chr3:14578670-14611256	OK	4.77804	3.70997
Nsmce2	chr15:59374197-59601684	OK	10.0653	7.81273
Tmem229a	chr6:24951140-24956125	OK	25.262	19.6071
Cacng3	chr7:122671743-122769394	OK	1.56099	1.21135
Hhat	chr1:192512827-192771219	OK	1.64706	1.27799
Erg	chr16:95360203-95530365	OK	1.66159	1.28919
1700010I14Rik	chr17:8988332-9008319	NOTEST	0.629294	0.488166
Rangrf	chr11:68968130-68975185	NOTEST	0.520145	0.403485
Mast4	chr13:102732488-103334492	OK	2.92747	2.27052
Wscd1	chr11:71750702-71789646	NOTEST	0.769264	0.596536
Dhx8	chr11:101732955-101767357	OK	12.1904	9.45142
Zfp106	chr2:120506829-120563831	OK	19.8677	15.4026
Magee1	chrX:105120395-105123911	OK	96.1811	74.5579
AA414768	chrX:12936872-12938541	OK	3.7135	2.87826
Cox10	chr11:63962626-64079472	OK	8.46249	6.55875
Mettl8	chr2:70964561-71055606	OK	4.87324	3.77684
Gzfl	chr2:148681119-148692949	OK	7.94851	6.1601
Wdr54	chr6:83152709-83156379	OK	8.43005	6.53061

Csrnp2	chr15:100479569-100495239	OK	5.43282	4.20859
Adi1	chr12:28675206-28682174	OK	9.75417	7.556
Ldlrap1	chr4:134745411-134768004	OK	0.902186	0.698841
Lrrc63	chr14:75004109-75388146	NOTEST	0.0514148	0.0398245
Ppm1f	chr16:16896468-16927375	OK	20.1279	15.5899
Cox6b1	chr7:30616973-30626151	OK	544.792	421.922
Pstk	chr7:131371145-131387838	OK	9.64507	7.46924
Cbx5	chr15:103191545-103239816	OK	24.7216	19.1445
Atraid	chr5:30933142-31348845	OK	29.0708	22.5117
Pcyt1a	chr16:32430920-32475065	OK	25.0403	19.3888
Cpne4	chr9:104569787-105034544	OK	35.028	27.1177
Gpc5	chr14:115092214-116525192	OK	5.60108	4.33509
Lgals7	chr7:28864385-28866284	NOTEST	0.717261	0.555091
Paics	chr5:76913248-76967505	OK	58.5312	45.2922
Slc25a5	chrX:36795651-36798806	OK	109.286	84.5613
Sdhc	chr1:171129156-171150603	OK	88.9878	68.8438
Irf2bp2	chr8:126588295-126593436	OK	13.0503	10.0959
Apoo	chrX:94367109-94417092	OK	3.03079	2.34454
Tmem44	chr16:30511854-30550578	OK	0.802167	0.620423
Zfp383	chr7:29908516-29916813	OK	2.29379	1.77404
Cerkl	chr2:79255425-79428988	NOTEST	0.344659	0.266559
Fam83g	chr11:61672781-61720799	NOTEST	0.0233491	0.0180577
Alg6	chr4:99715629-99763460	OK	3.89857	3.0144
Pcdhb9	chr18:36930284-37841872	OK	4.90368	3.79154
Arf2	chr11:103966870-103985336	OK	8.51384	6.5825
Tspyl5	chr15:33683874-33687883	OK	7.62556	5.89447
Isy1	chr6:87818447-87838759	OK	10.26	7.93048
Srcin1	chr11:97509339-97575126	OK	7.58865	5.86511
Gm14440	chr2:175789356-175801038	OK	1.77052	1.36837
Gm16576	chr15:79742697-79757394	NOTEST	0.411252	0.317796
Klf9	chr19:23141225-23166911	OK	35.5902	27.5003
Sgpl1	chr10:61098641-61147665	OK	16.9873	13.1256
9430020K01Rik	chr18:4634928-4682869	OK	8.86211	6.84502
Zfp146	chr7:30161267-30169727	OK	10.7953	8.33744
Ppib	chr9:66060168-66069731	OK	111.015	85.7375
Slc25a12	chr2:71274294-71367554	OK	66.9047	51.6657
Adss	chr1:177763177-177796509	OK	49.4875	38.214
Arl4c	chr1:88698225-88702191	OK	17.7926	13.735
Nmt2	chr2:3284211-3328877	OK	21.0628	16.2593
Wdr33	chr18:31804056-31908987	OK	16.7694	12.9435
Exoc3	chr13:74169804-74208700	OK	35.1608	27.1388
Rtn3	chr19:7417624-7483291	OK	809.515	624.822
Yae1d1	chr13:17986639-17993351	OK	3.1926	2.46393
Golt1b	chr6:142387242-142403858	OK	22.1876	17.1216
Ywhag	chr5:135908378-135934641	OK	1051.02	810.788
Pign	chr1:105518421-105663676	OK	2.46018	1.8977
Plk5	chr10:79697304-80369637	NOTEST	0.659219	0.5085
Xlr3c	chrX:73254539-73265390	NOTEST	0.180072	0.138894
Ebi3	chr17:55952622-55967951	NOTEST	0.128653	0.0992244
Tacc2	chr7:130577483-130764784	OK	21.2084	16.3544
Plekha8	chr6:54595110-54645822	OK	3.02488	2.33188
Ppm1e	chr11:86583864-87555823	OK	22.5106	17.3453
Tmem147	chr7:30727700-30729534	OK	69.4218	53.4697

Ipo4	chr14:55625628-55635678	OK	29.0959	22.4086
Ptpn	chr1:75247040-75264208	OK	94.209	72.5457
Coq9	chr8:94838416-94854895	OK	14.379	11.0725
Rps15a-ps4	chr4:132219892-132220589	OK	5.10658	3.93216
Sele	chr1:164048233-164057677	NOTEST	0.10193	0.0784791
Mvb12b	chr2:33729955-33887946	OK	21.3416	16.4279
Lrch3	chr16:32914099-33056186	OK	8.4354	6.49162
A630001G21Rik	chr1:85717082-85736606	NOTEST	0.0978612	0.0753093
Fam105a	chr15:27655070-27681542	OK	2.37773	1.82954
4833439L19Rik	chr13:54503804-54565382	OK	51.115	39.3273
Vamp8	chr6:72385220-72390667	OK	14.9646	11.5125
Ergic1	chr17:26561511-26656933	OK	37.1994	28.6051
Nol6	chr4:41114426-41124339	OK	20.7394	15.9409
Aamdc	chr7:97550330-97579497	OK	24.8585	19.0992
Arl3	chr19:46531108-46573085	OK	80.5724	61.9031
Serinc4	chr2:121449197-121456764	NOTEST	0.0441565	0.0339251
Blmh	chr11:76945655-76987389	OK	31.4138	24.1312
Suclg1	chr6:73248504-73276907	OK	57.5444	44.2
Hgsnat	chr8:25944458-25976744	OK	52.8497	40.5869
Grk4	chr5:34660378-34755303	OK	1.11171	0.853573
Ap3m2	chr8:22787353-22805654	OK	11.6825	8.96767
Zc3hav1l	chr6:38287393-38299259	OK	1.00617	0.772304
Mmachc	chr4:116702433-116708385	OK	12.025	9.22901
Mastl	chr2:23116543-23156024	NOTEST	0.748652	0.574574
Elf4	chrX:48411048-48463132	NOTEST	0.383269	0.294147
Mgme1	chr2:144270903-144281227	OK	2.45531	1.88413
Desi1	chr15:81992522-82016140	OK	16.9773	13.027
Tbc1d24	chr17:24175430-24209387	OK	3.94874	3.02953
Fam184a	chr10:53633144-53750909	OK	3.70764	2.84341
Trim9	chr12:70244534-70669399	OK	13.529	10.3735
Stra13	chr11:120710940-120713767	OK	6.02995	4.62179
Rec8	chr14:55618165-55625395	NOTEST	0.40995	0.314209
Dars2	chr1:161040612-161070632	OK	7.51028	5.75612
Tenm4	chr7:96210636-96908554	OK	2.97891	2.28305
Gm5113	chr7:30169921-30180209	OK	5.65873	4.33655
Ift22	chr5:136908149-136913244	OK	24.8684	19.057
Tmprss13	chr9:45318265-45347580	NOTEST	0.0175982	0.0134854
Sdhd	chr9:50596339-50603849	OK	99.991	76.6222
Dnaic1	chr4:41569793-41640302	NOTEST	0.188185	0.144168
Dlst	chr12:85110832-85134091	OK	86.5555	66.3079
Moap1	chr12:102739829-102757810	OK	6.16263	4.72048
3110043O21Rik	chr4:35191281-35225880	OK	45.9011	35.1502
Ggh	chr4:20042051-20066111	OK	13.8949	10.6366
Pik3cb	chr9:99038401-99140211	OK	7.93185	6.07103
Gfy	chr7:45176348-45179597	NOTEST	0.0640149	0.0489962
Hdhd3	chr4:62499053-62502200	OK	3.57503	2.73478
Maneal	chr4:124850758-124862171	OK	35.8648	27.4305
Pcdha1	chr18:36930284-37841872	OK	1.07441	0.821723
Cyp4v3	chr8:45305801-45333196	OK	5.94027	4.54264
Szrd1	chr4:141112977-141139796	OK	14.1065	10.7873
Cdc42se2	chr11:54717414-54787703	OK	28.0848	21.4754
Sepn1	chr4:134537891-134552166	OK	8.67685	6.63383
Marveld1	chr19:42147388-42151703	OK	12.2604	9.37266

2700054A10Rik	chr17:13487020-13554094	NOTEST	0.509955	0.389843
Atp5o	chr16:91925222-91931630	OK	133.586	102.12
Ppp1r13b	chr12:111828457-111908055	OK	13.9051	10.6274
Sbf2	chr7:110308012-110614920	OK	8.45636	6.4628
Vcpkmt	chr12:69577627-69583028	OK	11.1806	8.54451
B9d2	chr7:25681157-25686558	OK	4.40022	3.3623
Il1r1	chr1:40225079-40316177	OK	2.65386	2.0275
Rps16	chr7:28350688-28352698	OK	1.85552	1.41733
38960	chr10:59141626-59221847	OK	5.73328	4.3787
Cfl2	chr12:54858818-54862877	OK	101.185	77.273
Fzd6	chr15:39006279-39038190	OK	2.02685	1.54784
Tmc5	chr7:118597296-118675085	NOTEST	0.753153	0.575019
Mpp7	chr18:7347961-7626863	OK	2.4555	1.87472
Wdr25	chr12:108894271-109028452	OK	4.85202	3.70392
Echs1	chr7:140105722-140116423	OK	34.2523	26.1473
Slc30a5	chr13:100802647-100833427	OK	17.5222	13.3756
Ppp1r15b	chr1:133131165-133139800	OK	17.3661	13.2555
Zkscan5	chr5:145204558-145221750	OK	3.87851	2.9601
H2afv	chr11:6427225-6444443	OK	8.62626	6.58155
Slc35f3	chr8:126298578-126395977	OK	6.3953	4.8793
G6pd2	chr5:61808842-61810477	NOTEST	0.184466	0.140701
Scpep1	chr11:88905927-88955442	OK	18.2113	13.887
Spats2	chr15:99126844-99212466	OK	14.8655	11.3341
Ndufs2	chr1:171234859-171247112	OK	120.302	91.7031
Paqr7	chr4:134496760-134510237	OK	24.9837	19.0432
Polr3a	chr14:24448693-24487046	OK	8.07098	6.15182
Smcr8	chr11:60777524-60788287	OK	6.77121	5.16065
Pap1	chr7:28607636-28631015	OK	0.961853	0.732949
Arhgap24	chr5:102481390-102897937	OK	12.756	9.71885
Pip5k1b	chr19:24294795-24555827	OK	4.46636	3.40284
Frat1	chr19:41829969-41832583	OK	2.39663	1.82587
Saa1	chr7:46740498-46742980	NOTEST	0.125106	0.0952823
Tmed10	chr12:85340613-85374717	OK	45.6211	34.7422
Sec1	chr7:45677685-45694556	NOTEST	0.261013	0.198728
Gata3	chr2:9857077-9878600	NOTEST	0.017423	0.013265
Shd	chr17:55970481-55976619	OK	6.75771	5.14368
Apbb1	chr7:105558464-105581653	OK	123.292	93.8445
5430416O09Rik	chr4:43730033-43734534	NOTEST	0.199933	0.152125
Eftud1	chr7:82648613-82777852	OK	3.87296	2.94673
Podxl	chr6:31519492-31563937	OK	8.57223	6.52134
Gpr37	chr6:25668522-25689980	OK	5.53229	4.2085
Bloc1s6	chr2:122738504-122749487	OK	8.22512	6.25662
Hoxc11	chr15:102954525-102956701	NOTEST	0.571413	0.43459
Crbn	chr6:106769137-106800087	OK	64.6495	49.1679
Ly6g6d	chr17:35071347-35074464	NOTEST	0.140369	0.106707
Slc50a1	chr3:89268245-89270570	OK	19.4243	14.7605
D130040H23Rik	chr8:69271079-69303375	NOTEST	0.844648	0.641792
Trmt10a	chr3:138143537-138159820	OK	4.98554	3.78797
Grb14	chr2:64912481-65022766	OK	22.3915	17.0117
Etohi1	chr2:178023283-178035859	OK	15.1577	11.5104
Ndufaf5	chr2:140170645-140205252	OK	12.1992	9.26021
Rbbp9	chr2:144542264-144550859	OK	6.31452	4.79313
Tirap	chr9:35184390-35200291	OK	2.73214	2.0736

Vcan	chr13:89655309-89742512	OK	1.09354	0.829951
Zfp955a	chr17:33239506-33255145	OK	2.30389	1.7483
Alkbh3	chr2:93980033-94010730	OK	20.2606	15.3731
Mrps35	chr6:147042769-147070902	OK	12.0789	9.16196
Zbed5	chr5:129895722-129903622	OK	1.53118	1.16126
Snx27	chr3:94497541-94582716	OK	25.2246	19.1207
Slc25a23	chr17:57043710-57059863	OK	15.4872	11.7345
Adck1	chr12:88360513-88461726	OK	9.45491	7.16274
Acox3	chr5:35581226-35613801	OK	17.9194	13.5733
Abca2	chr2:25428673-25448539	OK	40.6609	30.7937
Coq6	chr12:84361967-84373796	OK	8.48254	6.42284
Ccdc92	chr5:124834431-124862221	OK	157.621	119.321
Osgepl1	chr1:53313623-53326342	OK	6.79199	5.13963
Yaf2	chr15:93283832-93336935	OK	24.0633	18.2075
Kcnab2	chr4:152390739-152477549	OK	344.546	260.699
Kctd9	chr14:67716097-67742310	OK	39.7224	30.0473
Wwox	chr8:114439651-115352712	OK	8.1464	6.16179
Lhfpl2	chr13:94057795-94195409	OK	18.3835	13.9042
Vrk2	chr11:26387083-26593920	OK	1.02772	0.777003
Slc2a9	chr5:38349272-38502152	OK	1.24503	0.940734
Prdx3	chr19:60864065-60874538	OK	69.0412	52.1639
Zfp799	chr17:32817203-32830248	OK	3.91756	2.95894
Pilra	chr5:137787801-137836278	NOTEST	0.0597331	0.0451127
Snx5	chr2:144250123-144270902	OK	18.5964	14.0444
Stk24	chr14:121286340-121379230	OK	68.0405	51.373
Abcc8	chr7:46104522-46180033	OK	3.28135	2.4769
Snph	chr2:151590548-151632593	OK	29.3231	22.1338
Akap6	chr12:52699382-53151015	OK	68.7023	51.8365
Ntn3	chr17:24175430-24209387	OK	1.05591	0.796679
Dgkd	chr1:87853286-87944489	OK	8.20005	6.18639
Mpp5	chr12:78748946-78840713	OK	9.77636	7.37552
Sypl	chr12:32953944-32979502	OK	13.0001	9.80711
Pcif1	chr2:164879367-164891437	OK	6.01779	4.53948
Anxa3	chr5:96793384-96845968	OK	4.24509	3.2022
Raly1	chr3:13471654-14182287	OK	34.018	25.6586
Ptp4a2	chr4:129820478-129850003	OK	51.0713	38.5173
Arsj	chr3:126363851-126440374	NOTEST	0.371349	0.280056
Katnal2	chr18:76993199-77047296	NOTEST	0.284556	0.214598
Scrn1	chr6:54508815-54566382	OK	66.2211	49.9393
Btnl9	chr11:49168324-49187089	NOTEST	0.158047	0.119185
Mettl15	chr2:109092299-109278290	OK	2.26009	1.70319
Rhof	chr5:123118179-123132629	OK	12.5565	9.45912
Ttbk2	chr2:120732816-120850584	OK	36.8292	27.7386
Ackr4	chr9:104063702-104127646	NOTEST	0.109697	0.0826008
Rfk	chr19:17394042-17401349	OK	55.5049	41.7896
Tnfsf8	chr4:63832823-63861284	NOTEST	0.0238489	0.0179553
Necap2	chr4:141066511-141078345	OK	9.26264	6.97283
Lrguk	chr6:34029447-34134034	OK	1.11861	0.842052
Pdyn	chr2:129686548-129699938	NOTEST	0.124793	0.0939156
Tshr	chr12:91400992-91540509	NOTEST	0.607316	0.457022
Mthfd2l	chr5:90931195-91021370	OK	3.39812	2.55714
Dffa	chr4:149104141-149120653	OK	98.0513	73.7843
Fastkd5	chr2:130589995-130630038	OK	3.8824	2.92114

Ero1lb	chr13:12565882-12609528	OK	5.18539	3.90018
Enpp4	chr17:44096309-44105808	OK	13.7327	10.3272
Slc4a7	chr14:14703024-14799943	OK	2.11834	1.59256
Rcor1	chr12:111039797-111113386	OK	10.5627	7.94078
Kat6a	chr8:22859538-22943262	OK	5.03457	3.78446
Bmf	chr2:118528756-118549678	OK	1.73653	1.30509
Tmem54	chr4:129105529-129121925	OK	4.54921	3.41851
Nfkbia	chr12:55280813-55492647	OK	18.794	14.1225
Scamp5	chr9:57441326-57468024	OK	77.0217	57.8751
Slmap	chr14:26413174-26533740	OK	25.1009	18.8578
Pak7	chr2:136081087-136387967	NOTEST	0.68231	0.512555
Sntb1	chr15:55639153-55906949	OK	7.79264	5.8533
Gls2	chr10:128194634-128211794	OK	5.53707	4.1587
Tmem106c	chr15:97964228-97970286	OK	15.5994	11.7115
Pak2	chr16:32016289-32079342	OK	11.2995	8.48061
Hsd17b10	chrX:152001895-152004442	OK	38.1759	28.6517
Sgol2	chr1:57985339-58026277	OK	1.52687	1.14566
D630045J12Rik	chr6:38048482-38254009	OK	3.15531	2.36653
Csrp2	chr10:110920175-110939514	OK	16.5197	12.3896
Pacsin2	chr15:83375606-83464606	OK	38.2158	28.6605
Hibadh	chr6:52546229-52640300	OK	42.3094	31.7178
Hdlbp	chr1:93405939-93478808	OK	95.8121	71.826
Ssh2	chr11:77216424-77460219	OK	6.18423	4.63568
Fam174b	chr7:73740306-73776919	OK	9.31411	6.98109
Zhx1	chr15:58047002-58076508	OK	18.3568	13.7553
Gpr55	chr1:85939536-85961055	NOTEST	0.0635567	0.0476235
Rnf24	chr2:131127411-131604824	OK	9.08692	6.80835
Atp2c2	chr8:119700008-119757718	NOTEST	0.069988	0.0524281
Penk	chr4:4133535-4138445	OK	3.56188	2.66685
Fam126a	chr5:23787743-24161231	OK	5.91933	4.43185
Eefsec	chr6:88257333-88446539	OK	3.96621	2.96754
Lpin1	chr12:16535668-16589770	OK	35.4458	26.5134
Jmjd8	chr17:25829042-25833361	OK	12.3807	9.25873
Adamtsl3	chr7:82335693-82614448	OK	1.39983	1.04678
Tbc1d12	chr19:38836578-38919923	OK	4.42107	3.306
Slc25a47	chr12:108851128-108856815	NOTEST	0.583201	0.436021
9630033F20Rik	chr6:127085115-127109552	OK	21.702	16.2235
Clstn2	chr9:97444394-98033167	OK	16.0179	11.9706
Idh3b	chr2:130274411-130284451	OK	131.95	98.5982
Ablim1	chr19:57033263-57216032	OK	51.1559	38.2216
Sdr42e1	chr8:117661398-117671515	OK	1.63275	1.21991
Trio	chr15:27730648-28025848	OK	13.1277	9.80791
Isoc2a	chr7:4877052-4895716	OK	20.2982	15.1643
Peg13	chr15:72589619-73061204	OK	89.1977	66.631
C330013E15Rik	chr15:100614139-100615110	OK	1.19691	0.894019
Calhm2	chr19:47132231-47138294	OK	1.50681	1.12528
Ehd4	chr2:120089486-120154575	OK	23.5482	17.584
Vps11	chr9:44348104-44361670	OK	26.0268	19.4345
Mbtps2	chrX:157547821-157598715	OK	7.90823	5.9049
Ube2l3	chr16:17152014-17201492	OK	58.6407	43.7759
Kcnh8	chr17:52602708-52979194	OK	1.60125	1.19533
Ahcy1l	chr3:107663119-107696548	OK	74.5736	55.6669
Polr1a	chr6:71909052-71979360	OK	7.92946	5.91899

Rai2	chrX:161717035-161779494	OK	4.34289	3.24166
Ptger4	chr15:5233398-5244187	OK	3.86264	2.88304
Susd5	chr9:114057353-114098733	OK	1.08193	0.807518
Aldh5a1	chr13:24905599-24939049	OK	5.82598	4.34775
Pcdhga6	chr18:36930284-37841872	OK	3.3689	2.51405
Capn2	chr1:182467258-182517483	OK	132.039	98.5264
Ctbs	chr3:146450492-146499753	OK	2.41529	1.80218
Nedd1	chr10:92684744-92722418	OK	1.63144	1.21727
Camk2n2	chr16:20611600-20645915	OK	61.8464	46.1433
Sgms1	chr19:32122726-32388454	OK	12.9626	9.67071
Ppa2	chr3:133310115-133378069	OK	35.0169	26.1219
Zfp953	chr13:67339308-67360572	NOTEST	0.359896	0.268465
Aar2	chr2:156547575-156568972	OK	13.718	10.2329
Hs3st5	chr10:36506806-36834394	OK	10.8482	8.08915
Cluh	chr11:74649494-74670847	OK	30.3961	22.6625
Adipor2	chr6:119353149-119417483	OK	26.37	19.6598
Hoxb6	chr11:96299170-96301569	OK	4.95257	3.69213
Ap3s2	chr7:79875324-79920640	OK	43.4538	32.3892
Uqcrh	chr4:116066964-116075070	OK	293.461	218.695
Mapk10	chr5:102907947-103211334	OK	50.5465	37.668
Rhbdd2	chr5:135632653-135646376	OK	14.0776	10.489
Gamt	chr10:79697304-80369637	OK	38.1496	28.4174
Mgat3	chr15:80173720-80215519	OK	50.1439	37.3445
Ccny	chr18:9314043-9450150	OK	17.3168	12.8897
Cstf1	chr2:172371002-172381086	OK	11.3871	8.47494
Accs	chr2:93833466-93849943	OK	2.18896	1.62881
Tm2d3	chr7:65693416-65701913	OK	25.1757	18.7323
Gm10474	chrX:68667513-68678399	NOTEST	0.0206839	0.0153898
Sspn	chr6:145934146-145965225	OK	6.7865	5.0494
Tmem216	chr19:10550460-10556238	OK	3.49299	2.59853
Abcb8	chr5:24394155-24409947	OK	16.3377	12.1537
Dync2h1	chr9:6928502-7177046	OK	2.64651	1.96868
Malsu1	chr6:49073794-49084717	OK	14.5288	10.8065
Lysmd1	chr3:95134087-95142360	OK	2.26817	1.68694
Exog	chr9:119444922-119465518	OK	6.52248	4.8507
She	chr3:89831369-89858846	OK	1.38845	1.03245
Cetn4	chr3:37308626-37312446	OK	1.67566	1.24586
Prokr1	chr6:87578591-87590701	OK	10.9504	8.14148
Dnpep	chr1:75308564-75317637	OK	27.3876	20.3609
Fn3k	chr11:121434952-121450490	OK	8.4303	6.26661
Gria2	chr3:80684935-80802791	OK	6.6928	4.97369
Rmrp	chr4:43492784-43493059	OK	3.68336	2.73645
Ndufc2	chr7:97400002-97407800	OK	158.757	117.94
Pcyt1b	chrX:93654862-93749948	OK	25.2739	18.7746
Yif1a	chr19:5088537-5098418	OK	20.767	15.4263
Zfp629	chr7:127607034-127614433	OK	2.34201	1.73967
Dkk2	chr3:132085291-132180304	NOTEST	0.369859	0.274715
Snx19	chr9:30427328-30466726	OK	27.6181	20.5094
Lrrc73	chr17:46254164-46257316	OK	6.40422	4.75526
Obsl1	chr1:75485824-75506452	OK	2.23031	1.65583
A330049N07Rik	chr10:72973302-73086705	NOTEST	0.0294541	0.0218602
Ptcd2	chr13:99319648-99344678	OK	24.7547	18.3678
Abcd1	chrX:73716596-73738287	OK	3.26784	2.42461

Plcg2	chr8:117498290-117635142	OK	1.21299	0.899908
Htr2b	chr1:86064618-86139295	NOTEST	0.0470848	0.0349254
Samd5	chr10:9627258-9675208	OK	2.02471	1.50177
Gm13238	chr4:145837218-145837992	NOTEST	0.150471	0.111598
Dnajc27	chr12:4082573-4110612	OK	19.5456	14.4958
Smyd2	chr1:189880491-189922288	OK	41.5455	30.8108
C030039L03Rik	chr7:27674660-27706482	OK	1.94629	1.44337
Emc1	chr4:139352586-139378735	OK	27.6783	20.5217
Phactr2	chr10:13207716-13474396	OK	23.0537	17.0916
Tsc22d1	chr14:76415820-76507766	OK	209.358	155.171
Epha5	chr5:84054764-84417382	OK	3.00246	2.22523
Sema4c	chr1:36548639-36558381	OK	8.44605	6.25928
Pak1ip1	chr13:41001009-41013033	OK	51.1421	37.8794
E130112N10Rik	chr6:125224211-125239934	OK	0.999268	0.739984
Gbf1	chr19:46152557-46286510	OK	36.4265	26.9743
Prrt1	chr17:34629685-34632260	OK	2.89864	2.14605
Rps29	chr12:69157721-69159186	OK	4.61478	3.41647
Dld	chr12:31331561-31351471	OK	82.0675	60.7549
Ankrd9	chr12:110975352-110979021	OK	4.52351	3.34835
Fh1	chr1:175601377-175625635	OK	48.5065	35.9017
Abhd6	chr14:8002901-8056555	OK	13.3323	9.86533
Hivep1	chr13:42052020-42185026	OK	10.1609	7.51845
Hpcal4	chr4:123183503-123194699	NOTEST	0.435902	0.322512
Tmem200c	chr17:68837135-68843138	OK	3.41612	2.52718
Igfbp7	chr5:77310483-77408045	OK	54.9251	40.628
Ssc5d	chr7:4925843-4944797	OK	0.872958	0.645688
Rnf2	chr1:151469405-151500823	OK	5.6854	4.20503
Glg1	chr8:111157557-111259202	OK	76.3142	56.4426
Pfkfb1	chrX:150589920-150643878	NOTEST	0.716432	0.529785
Ndufa10	chr1:92439718-92473758	OK	139.144	102.846
Glis2	chr16:4594712-4615957	OK	4.79435	3.5436
A730017C20Rik	chr18:59062380-59076960	OK	16.7614	12.3873
Scd2	chr19:44293675-44306862	OK	547.949	404.92
Tfpi	chr2:84432859-84476775	OK	2.49503	1.84358
Xlr4c	chrX:73234075-73243130	NOTEST	0.0516442	0.0381593
Fto	chr8:91313524-91668433	OK	48.1802	35.596
Stau2	chr1:16228809-16519302	OK	35.4162	26.1595
Manea	chr4:26324505-26346652	OK	13.9485	10.2977
Ext1	chr15:53068260-53346183	OK	11.2261	8.28349
Dhx33	chr11:70984090-71004432	OK	7.82833	5.77545
Adamts4	chr1:171250421-171259922	NOTEST	0.307146	0.22658
Aebp2	chr6:140622662-140677418	OK	13.5873	10.0213
Ide	chr19:37268740-37330613	OK	20.3695	15.0217
B230118H07Rik	chr2:101560780-101632528	OK	8.99156	6.62951
Cdc42ep4	chr11:113726849-113751815	OK	15.661	11.5445
Ly6c2	chr15:75108160-75111949	NOTEST	0.756118	0.557329
Zfp366	chr13:99184822-99247032	OK	0.894366	0.659202
Uvrag	chr7:98886742-99141144	OK	17.24	12.7057
Fibcd1	chr2:31813289-31846005	NOTEST	0.219189	0.161524
Kbtbd3	chr9:4309742-4331732	OK	9.32338	6.86909
Gpsm1	chr2:26315532-26352110	OK	9.69519	7.14243
Rwdd4a	chr8:47533644-47552837	OK	9.8182	7.232
Hdhd2	chr18:76944114-76972171	OK	33.9393	24.9901

Sncb	chr13:54758859-54766440	OK	83.3667	61.3716
Dpm3	chr3:89266460-89267079	OK	18.6171	13.7035
Nck2	chr1:43445750-43570518	OK	2.30131	1.69387
Enc1	chr13:97241104-97253040	OK	4.01032	2.95174
Dnah10	chr5:124725084-124834308	NOTEST	0.0380584	0.0280123
Suox	chr10:128669886-128673918	OK	9.38854	6.90917
Pet100	chr8:3621550-3625545	OK	14.7517	10.8559
Med1	chr11:98152154-98193293	OK	10.7775	7.92651
Dennd6a	chr14:26573857-26634322	OK	12.96	9.52916
Tmem223	chr19:8770995-8772475	OK	36.5043	26.8391
Snap91	chr9:86765926-86880449	OK	92.9483	68.3295
Dynlt1b	chr17:6430111-6436295	NOTEST	0.873309	0.641992
Mad1l1	chr5:140008688-140321552	OK	10.6057	7.79639
4833422C13Rik	chr13:91461096-91786148	OK	1.11407	0.818696
Tmem143	chr7:45897068-45917413	OK	16.5062	12.1281
Insig1	chr5:28071411-28078662	OK	44.4193	32.6349
Usp29	chr7:6730582-6976662	NOTEST	0.599786	0.440537
Nutf2	chr8:105860633-105880401	OK	10.5295	7.73289
Fam167b	chr4:129576814-129578580	OK	2.15658	1.58339
Vps41	chr13:18717291-18866811	OK	89.1371	65.432
Grk1	chr8:13405080-13421949	NOTEST	0.0139536	0.0102427
Gm5617	chr9:48495342-48495975	OK	2.30926	1.6946
Pcdhb6	chr18:36930284-37841872	NOTEST	0.587868	0.431224
Liph	chr16:21953817-21995542	NOTEST	0.117812	0.0864019
Tnnc2	chr2:164777161-164779734	NOTEST	0.340077	0.249258
Herc3	chr6:58833699-58920396	OK	37.841	27.7343
Flt4	chr11:49609678-49652739	NOTEST	0.677333	0.496377
Usp51	chrX:153006468-153009459	NOTEST	0.234483	0.171829
Batf2	chr19:6164457-6172475	NOTEST	0.118663	0.0869479
Pcnx	chr12:81860029-82000924	OK	11.1899	8.19699
Sh3bp4	chr1:89070461-89153793	OK	8.61994	6.31325
Slc39a9	chr12:80644214-80683342	OK	13.9574	10.222
Atf6	chr1:170704456-170867771	OK	11.0565	8.09716
Tmed2	chr5:124540790-124550503	OK	19.1046	13.99
A730008H23Rik	chr1:88227019-88277579	OK	3.13777	2.29762
Srebf1	chr11:60105012-60220604	OK	19.2552	14.0943
Gphn	chr12:78226654-78684769	OK	19.5495	14.3077
Smim11	chr16:92301302-92313041	OK	15.7391	11.5184
Idh3a	chr9:54586510-54604662	OK	73.1214	53.4873
Dchs1	chr7:105752988-105787550	OK	0.895817	0.655228
Cipc	chr12:86947040-86965366	OK	24.5551	17.9544
Jazf1	chr6:52768067-53068624	OK	5.89164	4.30708
Tmem39a	chr16:38558697-38592162	OK	2.52819	1.84772
Ndufs1	chr1:63114470-63176822	OK	78.2737	57.1999
Txndc5	chr13:38500270-38528824	OK	40.1997	29.3636
Dusp10	chr1:184034460-184075636	OK	1.94326	1.41936
Tfam	chr10:71225476-71238044	OK	7.32976	5.35332
Ppp1r26	chr2:28447940-28455508	OK	1.80392	1.31709
Gprc5a	chr6:135065661-135084708	NOTEST	0.152612	0.111404
LOC100503496	chr11:109440077-109573329	NOTEST	0.558741	0.407861
Slc5a7	chr17:54273589-54299034	OK	0.973996	0.710909
Ggact	chr14:122890859-122913165	OK	22.002	16.058
Elovl4	chr9:83778691-83806305	OK	36.4265	26.584

Acsf3	chr8:122775504-122817881	OK	9.26137	6.75785
Fgf14	chr14:123978290-124677127	NOTEST	0.668182	0.487502
Gm694	chr4:141432671-141436105	NOTEST	0.696811	0.508298
Gm13139,Gm1325	chr4:146270384-146469440	OK	0.764284	0.557493
Gm8615	chr5:149119564-149182036	OK	1.12229	0.818623
Fgfbp3	chr19:36917549-36919599	NOTEST	0.751716	0.548315
Cmtm6	chr9:114731202-114749343	OK	15.6209	11.3932
Lamp1	chr8:13159134-13175338	OK	253.326	184.717
Arhgap32	chr9:32116135-32265511	OK	7.17258	5.22942
Ociad1	chr5:73292793-73314077	OK	213.106	155.36
Ctsz	chr2:174415803-174438992	OK	53.3966	38.9247
Slc35a4	chr18:36671158-36683862	OK	18.1337	13.2122
Nr1h4	chr10:89454233-89533622	NOTEST	0.0756635	0.0551251
Nedd4	chr9:72662346-72749848	OK	183.497	133.67
Zfp931	chr2:178066877-178078425	OK	1.31901	0.960728
Gm14124	chr2:150257516-150270300	NOTEST	0.0301163	0.0219325
Gfra4	chr2:131039631-131043088	OK	9.03214	6.57491
Ncoa1	chr12:4247361-4477182	OK	16.3484	11.9
Dvl2	chr11:70000625-70010109	OK	2.13782	1.55612
Ddx24	chr12:103407975-103425867	OK	68.0804	49.5549
Gypc	chr18:32528319-32560034	OK	6.11387	4.44844
Clcc1	chr3:108653912-108722299	OK	7.08361	5.15348
Lysmd2	chr9:75625731-75637773	OK	32.8644	23.9086
Zp3	chr5:135980104-135988624	NOTEST	0.399856	0.290859
Ncdn	chr4:126743749-126753429	OK	240.259	174.762
Acsl3	chr1:78657824-78707743	OK	22.8349	16.6094
Ltk	chr2:119751325-119760431	NOTEST	0.139453	0.101431
Trim2	chr3:84160438-84304775	OK	71.7658	52.1801
Zfp706	chr15:36997026-37007402	OK	33.6648	24.4756
Ubttd1	chr19:41981762-42034641	OK	14.6609	10.6587
Rad51c	chr11:86583864-87555823	OK	1.60914	1.16983
Gm12338	chr11:75588107-75628778	OK	197.37	143.458
Myeov2	chr1:92637144-92641985	OK	203.522	147.903
Kif1b	chr4:149176318-149307733	OK	235.821	171.342
Zfp119a	chr17:55864891-55878953	OK	1.74004	1.26417
Lrmp	chr6:145115635-145210970	NOTEST	0.366028	0.265922
Fgd3	chr13:49263109-49309208	NOTEST	0.470401	0.341741
Fbxw11	chr11:32642554-32746814	OK	68.007	49.4044
BC030307	chr10:86705810-86776843	NOTEST	0.408585	0.296575
Rmnd5a	chr6:71388633-71440637	OK	24.6276	17.8702
Hdac8	chrX:102284639-102505148	OK	5.48759	3.98173
Rbm4b	chr19:4756524-4765941	OK	2.7192	1.97288
Hist1h4k	chr13:21750144-21750553	NOTEST	0.263166	0.190926
Btd	chr14:31641056-31668197	OK	11.1313	8.07351
Dap	chr15:31224384-31274338	OK	10.5974	7.68431
Fam20c	chr5:138755080-138810063	OK	13.6221	9.87544
Tsc22d2	chr3:58415688-58466787	OK	5.50728	3.99221
Smg7	chr1:152836994-152902646	OK	16.3354	11.8413
Acvrl1	chr15:101128521-101145336	OK	3.87696	2.8101
Rims4	chr2:163863880-163918683	OK	1.91243	1.38616
Zfp503	chr14:21983961-21989601	OK	5.31634	3.85295
Kctd4	chr14:75896936-76010865	NOTEST	0.472375	0.342338
Ern2	chr7:122169892-122186216	NOTEST	0.219619	0.159116

Slc27a3	chr3:90385232-90389927	OK	3.08077	2.23173
Cdk14	chr5:4803384-5380251	OK	61.0159	44.2
Cmc2	chr8:116888684-116921436	OK	10.9188	7.90636
Ccdc81	chr7:89866147-89903629	NOTEST	0.0741312	0.0536773
Dnaja4	chr9:54699558-54716317	OK	33.0387	23.9167
Phc1	chr6:122317730-122340227	OK	2.27953	1.65005
Sptbn4	chr7:27356382-27446589	OK	14.1858	10.2629
Cdc25a	chr9:109875578-109893890	OK	3.72563	2.69495
Slfn2	chr11:83065111-83070678	OK	1.34981	0.976161
Gabrb3	chr7:57590517-57828801	OK	21.6861	15.6808
Lin52	chr12:84451507-84531533	OK	4.2428	3.06683
Itga10	chr3:96645583-96664519	NOTEST	0.331294	0.239439
Cep104	chr4:153975560-154007225	OK	12.3248	8.90575
Adamts14	chr10:61197111-61273438	NOTEST	0.254949	0.184176
Nabp1	chr1:51469487-51478399	OK	2.42251	1.74999
Dpp8	chr9:65032457-65082651	OK	63.2881	45.7121
Kdr	chr5:75933269-75978428	OK	4.35134	3.1414
Gbp9	chr5:105078393-105110292	OK	1.1994	0.865856
Dlk2	chr17:46297482-46328023	NOTEST	0.127801	0.0922573
Fam71e1	chr7:44496587-44501134	OK	1.66679	1.20314
Slc41a3	chr6:90604879-90646412	OK	11.6556	8.41243
Abcb9	chr5:124061856-124095798	OK	19.378	13.986
Psmb2	chr4:126677642-126709715	OK	123.722	89.2943
Fdxacb1	chr9:50768237-50772670	OK	2.32141	1.67529
Cbl	chr9:44149261-44234046	OK	11.8138	8.52329
Mest	chr6:30733505-30896794	OK	41.3768	29.8502
Rbpj	chr5:53555778-53657445	OK	4.48942	3.23874
Scp2	chr4:108043829-108118547	OK	22.058	15.9069
Xlr4a	chrX:73074344-73082507	NOTEST	0.0575662	0.0415094
Tob2	chr15:81848269-81858326	OK	6.52611	4.70495
Foxred2	chr15:77940521-77956722	OK	1.56117	1.12549
Grin1	chr2:25289910-25319187	OK	42.6687	30.76
Pcdhgb5	chr18:36930284-37841872	OK	1.77688	1.2809
Lhfpl4	chr6:113168086-113195384	OK	129.726	93.5089
Rfx5	chr3:94955014-94961561	OK	1.67187	1.20505
Ndufb2	chr6:39592582-39599471	OK	181.9	131.108
Ptchd1	chrX:155569735-155623327	OK	1.07808	0.776977
Tmed1	chr9:21424907-21510186	OK	4.90916	3.53679
Rnf103	chr6:71493893-71510881	OK	28.7258	20.6877
Myo1g	chr11:6506547-6520958	NOTEST	0.262518	0.188979
Zfp947	chr17:22144358-22165977	NOTEST	0.298589	0.21492
Amz2	chr11:109425945-109438148	OK	22.6281	16.2869
4921509O07Rik	chr13:113446287-113502844	NOTEST	0.0213618	0.0153744
Hspa12b	chr2:131127411-131604824	OK	2.36799	1.70422
Por	chr5:135689213-135735325	OK	20.4022	14.6815
Rdh9	chr10:127776404-127792697	NOTEST	0.184658	0.132861
Ssr1	chr13:37971400-37994190	OK	24.6389	17.7273
Tmem42	chr9:123021325-123023491	OK	11.9074	8.56582
Esrp1	chr4:11331932-11386783	NOTEST	0.0241599	0.017374
Dnajc10	chr2:80315465-80354055	OK	34.3165	24.6765
Atp2a3	chr11:72961168-72993043	OK	2.05815	1.47987
Dpy19l1	chr9:24411778-24503140	OK	9.17942	6.59991
Fam168a	chr7:100706701-100841630	OK	36.6913	26.3762

Man2b1	chr8:85083268-85098739	OK	10.2255	7.34851
Idh2	chr7:80094846-80115350	OK	9.71604	6.98161
Smpdl3a	chr10:57794543-57811830	OK	26.5518	19.0769
Nt5dc3	chr10:86779004-86838389	OK	20.95	15.0496
Lrpap1	chr5:35091505-35105697	OK	70.1992	50.4188
Necab3	chr2:154544404-154558853	OK	57.6898	41.4339
Esd	chr14:74732296-74750765	OK	17.5766	12.6205
Mrs2	chr13:24992294-25020317	OK	21.5163	15.4486
Grin3a	chr4:49661610-49845769	OK	5.17524	3.71452
Arhgap15	chr2:43748823-44387623	OK	4.68873	3.36518
Cyp4f41-ps	chr17:32950960-32965716	NOTEST	0.134244	0.0963312
Gmpr	chr13:45507468-45546381	OK	31.6586	22.7133
Mapk8ip1	chr2:92383675-92401263	OK	169.301	121.413
Gm1966	chr7:106595548-106644645	NOTEST	0.194296	0.139332
Stt3a	chr9:36732412-36767578	OK	34.9117	25.0352
Slc25a45	chr19:5878465-5885768	OK	2.05175	1.4713
Slc25a30	chr14:75761998-75787037	OK	15.8252	11.345
Srek1ip1	chr13:104817238-104838659	OK	5.08344	3.64429
Gpr146	chr5:139359738-139460534	OK	4.42288	3.16916
Ssfa2	chr2:79635424-79672964	OK	15.2636	10.9364
Hexim2	chr11:103133338-103139908	OK	2.09482	1.50042
Dnah8	chr17:30626935-30875264	NOTEST	0.139262	0.0997439
Zfp862-ps	chr6:48504338-48534832	OK	2.32895	1.66799
Rnd1	chr15:98669204-98677461	NOTEST	0.7874	0.563901
4930550C14Rik	chr9:53405285-53432803	NOTEST	0.466657	0.334184
Ccdc6	chr10:70097120-70193200	OK	16.8323	12.0535
Pbx3	chr2:34171456-34372045	OK	7.63214	5.46487
Abcd3	chr3:121758909-121815215	OK	34.7238	24.8615
Npc2	chr12:84754558-84773112	OK	35.8586	25.6635
Gk5	chr9:96119428-96182953	OK	1.084	0.775761
Pou2af1	chr9:51213689-51240079	NOTEST	0.230418	0.164894
Efcab6	chr15:83866711-84065349	NOTEST	0.245343	0.175569
Ndufs3	chr2:90894635-90904721	OK	17.3263	12.3958
Otof	chr5:30367065-30461932	NOTEST	0.0394196	0.0281944
Cdk19	chr10:40349307-40483818	OK	9.61179	6.87412
Ptpn3	chr4:57190840-57301837	OK	22.5557	16.1312
Ift27	chr15:78159462-78174108	OK	12.15	8.6893
Car9	chr4:43507025-43513725	NOTEST	0.1576	0.1127
Cited2	chr10:17723227-17725674	OK	8.12243	5.80804
Calcr1	chr2:84330626-84425266	OK	3.84375	2.7484
Peak1	chr9:56201128-56418050	OK	5.89963	4.21818
Ahcy	chr2:155059311-155074497	OK	5.15912	3.68809
Clasp1	chr1:118389057-118609462	OK	34.9844	25.0028
Mtmr6	chr14:60265204-60302371	OK	181.893	129.995
Ehhadh	chr16:21761284-21787834	OK	2.63523	1.88301
Atp5b	chr10:128083306-128090388	OK	776.134	554.565
Kcnh1	chr1:192190871-192510158	OK	12.722	9.08995
1810006J02Rik	chr1:98131466-98144655	NOTEST	0.246571	0.176107
Actrt3	chr3:30597072-30599870	NOTEST	0.125045	0.0892982
Tmtc2	chr10:105187663-105574479	OK	9.99235	7.13546
Gm15800	chr5:121220218-121368577	OK	29.3377	20.9478
Lif	chr11:4257567-4272514	NOTEST	0.0677688	0.0483797
Sh2b3	chr5:121817214-121836801	OK	3.1589	2.25509

Dstyk	chr1:132417452-132466959	OK	11.3349	8.08966
Etv1	chr12:38780257-38868215	OK	30.5369	21.7919
Serpinf1	chr11:75410028-75422623	OK	54.6016	38.9579
Nab1	chr1:52455848-52500448	OK	11.1268	7.93848
Pcdhb2	chr18:36930284-37841872	NOTEST	0.61087	0.435717
Prmt6	chr3:110246103-110250999	OK	9.01633	6.43073
CstI1	chr2:148750360-148755378	NOTEST	0.474463	0.338352
Slc38a2	chr15:96687391-96699698	OK	91.5966	65.3017
Cnn3	chr3:121426540-121458205	OK	119.111	84.891
Ift81	chr5:122550203-122614518	OK	5.57359	3.9718
Gm13582	chr2:60964375-60975151	NOTEST	0.22374	0.159386
Appbp2	chr11:85191309-85235120	OK	18.6593	13.2841
Emc7	chr2:112455024-112467436	OK	74.5103	53.0444
Unc45b	chr11:82911252-82964850	NOTEST	0.73912	0.525806
Ndufaf1	chr2:119655450-119662798	OK	20.9615	14.9094
Tmem81	chr1:132506229-132508639	OK	1.49199	1.06099
Cd99l2	chrX:71420059-71492849	OK	68.8336	48.9379
Yipf2	chr9:21546893-21595970	OK	10.8937	7.74157
Pycr1	chr11:120635711-120643670	NOTEST	0.405822	0.288355
Gm5878	chr6:85111415-85126094	NOTEST	0.014492	0.0102955
AV039307	chr2:120850655-120970715	NOTEST	0.872704	0.619861
Tmem176b	chr6:48833810-48841374	OK	88.7552	63.0362
Ptcd3	chr6:71880637-71908762	OK	17.3633	12.3318
Pin1	chr9:20652129-20666584	OK	17.226	12.2335
Zc3h12a	chr4:125118413-125127881	NOTEST	0.444505	0.315581
Pramef8	chr4:143412425-143421087	OK	4.97086	3.52877
Tll2	chr19:41083980-41206774	NOTEST	0.203822	0.144691
Trpm2	chr10:77907721-77969872	OK	6.03547	4.28372
Rilpl1	chr5:124493079-124531391	OK	8.09676	5.746
Klhdc9	chr1:171358448-171360798	OK	1.47433	1.04593
Dnajb9	chr12:44205896-44210068	OK	33.4387	23.7195
Gper1	chr5:139359738-139460534	OK	0.77613	0.550503
Efhb	chr17:53398888-53463321	NOTEST	0.0740418	0.052509
Lilra6	chr7:3731632-3915501	NOTEST	0.0154918	0.0109856
Mt3	chr8:94152606-94154148	OK	317.882	225.379
Mir703	chr5:98329303-98802019	OK	259.546	183.98
C2cd4d	chr3:94362443-94364567	NOTEST	0.359732	0.254949
D130017N08Rik	chr5:143758353-143764942	OK	5.30033	3.75644
Calm3	chr7:16915378-16924032	OK	537.061	380.624
Glcci1	chr6:8509599-8597549	OK	8.18013	5.79682
Slc2a8	chr2:32972988-32982056	OK	11.8591	8.40036
Sys1	chr2:164460970-164465510	OK	8.1614	5.78073
Usp43	chr11:67854522-67922153	NOTEST	0.0420922	0.0298056
AI506816	chr5:23692260-23712667	NOTEST	0.416739	0.295037
Ccdc121	chr1:181509632-181511451	NOTEST	0.0570231	0.0403686
B830017H08Rik	chr16:17833118-17835019	NOTEST	0.0562618	0.0398252
Prnp	chr2:131909927-131956131	OK	268.264	189.852
Sdha	chr13:74322254-74350240	OK	135.814	96.0929
Adat1	chr8:111966907-111992302	OK	3.29778	2.33322
Aldh6a1	chr12:84409067-84450950	OK	18.3309	12.9671
Tmem178b	chr6:40110252-40248353	OK	10.2043	7.21798
Pdia4	chr6:47796140-47813512	OK	30.2086	21.3658
Ttc7b	chr12:100276608-100520822	OK	26.9654	19.0681

Tgoln2	chr6:72608420-72617000	LOWDAT	3.51385	2.48357
Btbd3	chr2:138256583-138287422	OK	37.379	26.4082
Fads1	chr19:10182887-10196872	OK	58.6483	41.4211
Atp6v0a2	chr5:124629051-124724455	OK	16.825	11.8827
Xlr3a	chrX:73086292-73097095	NOTEST	0.779384	0.55037
Tarsl2	chr7:65644897-65692093	OK	13.7974	9.74284
Pkm	chr9:59656367-59679375	OK	387.279	273.435
Il22ra1	chr4:135728158-135755383	NOTEST	0.0411329	0.0290247
Plxna4	chr6:32144556-32588192	OK	17.5563	12.3846
Tti1	chr2:157981802-158009360	OK	7.56739	5.33752
Prss53	chr7:127877700-127890970	NOTEST	0.1267	0.0893503
Mall	chr2:127704389-127729897	NOTEST	0.556861	0.39269
2610507B11Rik	chr11:78261753-78290625	OK	52.9664	37.3482
Fahd2a	chr2:127436214-127444565	OK	8.51238	6.00127
Cd53	chr3:106758860-106790149	OK	0.920328	0.648713
Lrriq3	chr3:155093433-155194278	NOTEST	0.450684	0.317637
Cnksr2	chrX:157821572-158043110	OK	5.95116	4.19418
Ntsr1	chr2:180499975-180544979	NOTEST	0.266926	0.188063
Epha7	chr4:28813130-28967503	OK	1.39147	0.980179
6720416L17Rik	chr2:74748421-74762896	OK	2.57102	1.81099
Fv1	chr4:147868978-147870358	OK	3.64608	2.56782
Sez6	chr11:77930838-77979052	OK	11.0899	7.80982
Ropn1l	chr15:31441209-31453689	NOTEST	0.60227	0.424028
Trpm8	chr1:88306711-88388851	OK	10.3879	7.30955
Git1	chr11:77493411-77507774	OK	28.2066	19.8448
Decr1	chr4:15917239-15945507	OK	17.6117	12.3883
Gbp5	chr3:142496933-142522344	OK	1.50451	1.05814
Hus1	chr11:8993141-9011137	OK	3.88857	2.73406
Pdgfra	chr5:75152290-75198204	OK	2.33022	1.63827
Clec16a	chr16:10545338-10744878	OK	11.213	7.88297
Nap1l2	chrX:103184058-103186664	OK	69.0614	48.5467
Dok6	chr18:89301134-89769136	OK	6.837	4.8059
Sacm1l	chr9:123529881-123592598	OK	77.0732	54.1738
Abcb6	chr1:75171640-75180283	OK	10.19	7.16204
Nr5a2	chr1:136843583-136960448	NOTEST	0.594796	0.417998
Tnni1	chr1:135799420-135810989	NOTEST	0.631817	0.443963
Trps1	chr15:50654758-50890041	OK	1.08784	0.764363
Nrip2	chr6:128399765-128408935	OK	11.5447	8.10926
Pdgfrb	chr18:61045149-61085067	OK	7.40603	5.20186
Zfp111	chr7:24193214-24208149	OK	1.26561	0.888362
Slc30a4	chr2:122681232-122702663	OK	5.49336	3.85581
Ccdc28a	chr10:18213684-18234981	OK	33.897	23.7889
Gp5	chr16:30307684-30310781	NOTEST	0.26425	0.185301
Rgs20	chr1:4909575-5070285	OK	1.31526	0.922269
Map1a	chr2:121289601-121351013	OK	268.672	188.366
Tmem260	chr14:48446351-48515159	OK	6.3774	4.47072
Pcdhb16	chr18:36930284-37841872	OK	1.66064	1.164
Med27	chr2:29346809-29524790	OK	22.6894	15.9019
Mtmr4	chr11:87592216-87616296	OK	34.7532	24.3377
Trmu	chr15:85879326-85897393	OK	4.80179	3.36218
Pon1	chr6:5168089-5193946	NOTEST	0.0425067	0.029759
Pcdhga8	chr18:36930284-37841872	OK	2.14405	1.50102
Ptbp1	chr10:79697304-80369637	OK	7.94989	5.56468

Ms4a6b	chr19:11518558-11530403	NOTEST	0.509197	0.356169
Ccdc176	chr12:84409067-84450950	NOTEST	0.835505	0.584305
Tmem43	chr6:91473750-91488458	OK	16.8325	11.7716
6330418K02Rik	chr5:138259657-138272754	OK	1.63924	1.14569
Egf	chr3:129677574-129763882	NOTEST	0.323478	0.226077
Ascl2	chr7:142966821-142969264	NOTEST	0.088286	0.0616914
Man1a2	chr3:100562204-100685473	OK	30.7139	21.4603
Ispd	chr12:36381449-36689503	OK	9.98731	6.97808
Gm4371	chr15:96182799-96203470	NOTEST	0.613836	0.428793
Hadha	chr5:30103583-30154980	OK	52.6842	36.7935
Fermt2	chr14:45458791-45530065	OK	51.3794	35.8817
Dtna	chr18:23310019-23659719	OK	20.6163	14.3975
Aldh1b1	chr4:45799021-45804608	OK	2.30731	1.61121
Dnajc18	chr18:35671104-35703144	OK	25.1411	17.555
P2ry2	chr7:100996571-101011991	OK	6.72379	4.69388
Ctnna1	chr18:35118911-35254775	OK	62.2549	43.4584
Frpm3	chrX:140367493-140394520	OK	1.32805	0.92697
Mtmt2	chr9:13749180-13806481	OK	27.5695	19.2386
Wnt4	chr4:137277634-137299501	NOTEST	0.578283	0.403491
Rab3ip	chr10:116905783-116950380	OK	12.9405	9.02886
Ccdc30	chr4:119322892-119415521	OK	1.11612	0.778635
Cdc37l1	chr19:28990493-29017569	OK	23.4074	16.3292
Hcar2	chr5:123863569-123865516	NOTEST	0.112577	0.0785161
Sytl3	chr17:6673609-6738044	OK	11.0127	7.67817
Sephs2	chr7:127271878-127274059	OK	14.4423	10.0691
Susd2	chr10:75636618-75644008	OK	190.225	132.566
Glul	chr1:153899925-153909723	OK	184.154	128.328
Tbc1d2b	chr9:90202048-90270769	OK	4.65054	3.24051
Atr	chr9:95855417-95951644	OK	6.54209	4.55676
Sowahc	chr10:59221921-59226433	OK	5.98799	4.16918
Zmynd12	chr4:119422683-119453899	NOTEST	0.083188	0.057909
Il1rn	chr2:24336859-24351491	NOTEST	0.101724	0.0707966
2300009A05Rik	chr9:63394446-63399244	OK	4.22205	2.93826
Fcrla	chr1:170917593-170927583	NOTEST	0.165028	0.114834
Hoxd9	chr2:74697762-74700208	OK	6.73288	4.68468
Nceh1	chr3:27183003-27244911	OK	27.9406	19.4389
Nhlrc3	chr3:53451995-53463258	OK	2.09452	1.45714
Zscan29	chr2:121157426-121171149	OK	5.38252	3.74359
Fmnl3	chr15:99317222-99370466	OK	2.90227	2.01855
Fabp3	chr4:130308777-130315463	OK	5.43246	3.77652
Tubgcp2	chr7:139995954-140040605	OK	15.1377	10.5221
4930578C19Rik	chrX:18418426-18461274	NOTEST	0.743476	0.516758
Grm3	chr5:9485235-9725352	NOTEST	0.262505	0.182401
Dcbld1	chr10:52233618-52321377	OK	12.2888	8.53758
Tspan13	chr12:36014554-36042478	OK	82.4341	57.253
Carns1	chr19:4164323-4175479	OK	7.74094	5.37457
Clvs1	chr4:9269316-9669344	OK	12.3706	8.5862
Ggt1	chr10:75573592-75586182	NOTEST	0.28668	0.198977
Idh3g	chrX:73778962-73786897	OK	65.4726	45.4393
Spidr	chr16:15887285-16146851	OK	2.06912	1.43593
Grxcr2	chr18:41986200-41999049	OK	2.55177	1.77088
Prepl	chr17:85028346-85090274	OK	160.696	111.518
Slco1c1	chr6:141524385-141570177	OK	1.57789	1.0948

Lrba	chr3:86224689-86782694	OK	2.6104	1.81089
Qpctl	chr7:19140216-19149196	OK	6.63313	4.60118
Rnf13	chr3:57736065-57835233	OK	69.1345	47.9546
Magi2	chr5:19227045-20704792	OK	4.95016	3.43314
Tap1	chr17:34187555-34197225	OK	3.82294	2.6506
Tgm2	chr2:158116404-158146392	OK	6.1696	4.27727
BC030500	chr8:58911754-58914298	NOTEST	0.583262	0.404336
Rab8b	chr9:66843663-66919705	OK	13.0181	9.02294
Ak3	chr19:29020831-29048729	OK	31.9998	22.1793
Elovl1	chr4:118428092-118437343	OK	28.3939	19.6799
Pdpr	chr8:111094744-111145498	OK	9.3104	6.45118
Slain1	chr14:103650242-103704799	OK	2.14392	1.4852
Mgat4c	chr10:101681486-102391468	OK	1.81775	1.25921
Cyc1	chr15:76343522-76345934	OK	138.732	96.0945
Pnkd	chr1:74285033-74353692	OK	59.5857	41.2636
Sirt2	chr7:28766751-28788665	OK	79.2319	54.8598
Lrrc27	chr7:139103637-139242973	OK	3.74729	2.59443
Efcab2	chr1:178405880-178483249	OK	4.00379	2.77196
2810408A11Rik	chr11:69897357-69900986	NOTEST	0.318194	0.220279
Eme2	chr17:24892151-24895087	OK	9.92718	6.87117
BC037704	chr19:43675177-43677170	NOTEST	0.394801	0.27324
Rab19	chr6:39381427-39390379	NOTEST	0.0470989	0.032594
Dlat	chr9:50634632-50659780	OK	43.8391	30.3344
Tbx4	chr11:85890062-85916097	NOTEST	0.0190341	0.01317
Sat1	chrX:155213125-155216449	OK	42.5894	29.4634
Tmem30b	chr12:73543113-73546395	OK	0.846741	0.585465
Serp1	chr3:58521970-58557501	OK	24.5648	16.9842
Nrep	chr18:33437018-33464029	OK	17.8527	12.3433
Mblac1	chr5:138194313-138195621	OK	2.27657	1.574
Slco2b1	chr7:99657803-99711340	OK	1.8052	1.24798
Hmgn2	chr4:133964738-133967991	OK	7.68199	5.31024
Ptpre	chr7:135537823-135686294	OK	11.8362	8.18006
Gm7367	chr11:116434093-116439077	OK	1.73967	1.20136
St3gal2	chr8:110919864-110972497	OK	23.3668	16.135
Gstm1	chr3:108012249-108017973	OK	8.64769	5.97058
2900097C17Rik	chr2:156388062-156392979	OK	216.672	149.593
Atp1a3	chr7:24978168-25005937	OK	293.01	202.277
Zdhhc15	chrX:104536969-104671064	OK	8.83487	6.09895
Tlr4	chr4:66827810-66842796	OK	1.54879	1.06906
Prkcdbp	chr7:105480615-105482197	OK	20.0317	13.8268
Mks1	chr11:87853224-87863679	OK	1.26126	0.870427
Tmed7	chr18:46585927-46597535	OK	39.6771	27.3708
Mettl20	chr6:149141512-149151170	OK	1.19513	0.824428
Ubiad1	chr4:148434496-148444751	OK	2.01157	1.38702
Gipc2	chr3:152093840-152165900	OK	1.0041	0.69212
2310039H08Rik	chr17:46772634-46773407	OK	2.31752	1.59729
Sugct	chr13:16857474-17694765	OK	1.18751	0.817719
Zfp652	chr11:95749066-95764713	OK	3.1254	2.15182
Gm12429	chr4:42848070-42853888	NOTEST	0.0942644	0.0648978
Flnb	chr14:7817956-7951587	OK	10.7251	7.3815
Ttpa	chr4:20008427-20030785	NOTEST	0.0698762	0.048092
Rdh10	chr1:16105881-16132550	OK	3.75094	2.58099
Fhit	chr14:9550093-11162032	OK	5.87288	4.04018

Gucy1a2	chr9:3532348-3905787	OK	5.98262	4.11532
Hpse	chr5:100679485-100719683	OK	1.57936	1.08634
Syn2	chr6:115134901-115282626	OK	80.7326	55.5231
Dscam	chr16:96592078-97170735	OK	4.44226	3.05472
Tcap	chr11:98383810-98384953	NOTEST	0.118022	0.0811422
Snx18	chr13:113592178-113618564	OK	14.9721	10.29
Tmem59l	chr8:70483866-70487358	OK	111.521	76.6435
Zfp108	chr7:24254793-24262444	NOTEST	0.75114	0.515998
Cxx1c	chrX:53607921-53609134	OK	93.0441	63.9132
Ttc1	chr11:43730005-43747973	OK	57.6576	39.5968
Zyg11b	chr4:108227754-108301090	OK	32.6128	22.3792
Ttc3	chr16:94358762-94469221	OK	92.6197	63.5145
Plcb2	chr2:118707516-118728438	NOTEST	0.110107	0.075483
Tifab	chr13:56173702-56178885	OK	1.2906	0.884187
Lmbrd1	chr1:24678543-24766301	OK	37.9998	26.0272
Celf2	chr2:6539698-7396198	OK	11.987	8.20925
Tspyl4	chr10:34297420-34301320	OK	179.051	122.564
Cox4i1	chr8:120668289-120674209	OK	684.653	468.625
Slc27a5	chr7:12988345-12998192	NOTEST	0.0393242	0.0269137
Itsn1	chr16:91729370-91920579	OK	12.3569	8.4532
Itpripl1	chr2:127138768-127143457	OK	4.26915	2.91995
9030624G23Rik	chr12:24043201-24097269	NOTEST	0.809812	0.553795
Maml1	chr11:50255634-50292336	OK	2.01782	1.37985
Sgsm2	chr11:74849263-74897080	OK	9.71681	6.64108
Wnt3	chr11:103774174-103818021	NOTEST	0.274146	0.187337
Kcnc4	chr3:107438302-107458898	OK	33.5738	22.9424
Hp	chr8:109575127-109579172	NOTEST	0.520992	0.355979
Aim2	chr1:173420603-173466036	NOTEST	0.184651	0.126162
Pcdhga7	chr18:36930284-37841872	OK	4.21615	2.8796
Cnksr3	chr10:7119061-7212237	OK	1.23189	0.841046
Traf5	chr1:191997202-192092599	NOTEST	0.543941	0.371336
Pde8b	chr13:95024104-95250304	OK	5.42048	3.70014
Btg2	chr1:134074864-134079155	OK	22.0734	15.0649
Inpp1	chr7:101818312-101838226	OK	6.17904	4.2163
Arl16	chr11:120458128-120467600	OK	18.1966	12.4139
Mob1a	chr6:83326038-83340949	OK	11.1937	7.63602
Dolk	chr2:30284228-30286354	OK	20.5084	13.9815
Ppp4r4	chr12:103532564-103613832	OK	9.18531	6.26191
Skil	chr3:31095057-31122923	OK	3.45935	2.35821
Adat2	chr10:13523841-13563376	OK	2.68981	1.83362
Slc16a4	chr3:107291291-107312116	OK	2.84893	1.94197
Ptgr2	chr12:84285295-84315832	OK	16.463	11.2199
Aak1	chr6:86849516-87003227	OK	20.7214	14.1215
Dnase2a	chr8:84908623-84911461	OK	1.16839	0.796238
Pisd	chr5:32736313-32785626	OK	10.9821	7.484
A830018L16Rik	chr1:11414104-11975902	OK	20.0764	13.6792
Oxr1	chr15:41447481-41861047	OK	88.3703	60.209
Lrat	chr3:82876704-82943638	NOTEST	0.341678	0.232761
Hvcn1	chr5:122209728-122264460	NOTEST	0.219626	0.149585
Hdac3	chr18:37936970-37954988	OK	36.4644	24.8352
Etl4	chr2:20289912-20810535	OK	18.7246	12.7491
Dhrs4	chr14:55478757-55490340	OK	13.148	8.95125
Ush1g	chr11:115307162-115332303	OK	2.85582	1.94411

Atat1	chr17:35897597-35910068	OK	5.34623	3.63858
1700066B19Rik	chr18:35726988-35730869	NOTEST	0.0838638	0.0570675
Nek7	chr1:138484713-138619696	OK	100.536	68.4092
Itpr1	chr6:108213095-108551116	OK	2.43472	1.65534
Emb	chr13:117220572-117274415	OK	114.349	77.7107
Tmem141	chr2:25620065-25622005	OK	13.4485	9.13356
Adcy7	chr8:88272402-88329962	OK	2.86208	1.94207
Fam73b	chr2:30364232-30385519	OK	20.9865	14.238
Pigh	chr12:79029162-79103939	OK	6.07676	4.12102
Gad2	chr2:22622326-22693877	NOTEST	0.00593298	0.00402331
Aldh4a1	chr4:139622893-139649691	OK	9.99589	6.7778
Lmln	chr16:33062520-33125659	OK	6.30438	4.27432
Hmgn5	chrX:109004536-109013380	OK	1.45955	0.989137
Dnajb4	chr3:152183870-152210083	OK	28.1628	19.085
Ccdc126	chr6:49319352-49341581	OK	9.65084	6.53898
Nlrp3	chr11:59542685-59566956	NOTEST	0.136888	0.0927047
Nek8	chr11:78166105-78176666	OK	3.42843	2.32082
Siglec5	chr7:43351340-43359470	NOTEST	0.0383971	0.0259594
Marcks	chr10:37133242-37138926	OK	39.9127	26.9838
Morc4	chrX:139821634-139871654	OK	2.41859	1.63497
Lrrc48	chr11:60353379-60394333	OK	2.03778	1.37754
Elmod3	chr6:72565921-72598413	OK	3.72567	2.51804
Slc35f6	chr5:30647935-30659729	OK	17.3947	11.7529
Zkscan4	chr13:21478848-21485505	OK	1.01819	0.687811
Racgap1	chr15:99620495-99651656	OK	3.79806	2.56522
Pecr	chr1:72259172-72284314	OK	4.86726	3.28735
Rcbtb2	chr14:73142509-73184054	OK	10.5322	7.11229
Gm14420	chr2:177464741-177479194	OK	4.78402	3.23041
Twsg1	chr17:65923064-65951187	OK	12.8331	8.6628
BC048546	chr6:128539821-128581606	OK	7.64434	5.15991
Gpr174	chrX:107255877-107296769	NOTEST	0.22187	0.149755
Ppm1k	chr6:57506501-57535426	OK	4.67465	3.15335
Mocos	chr18:24653690-24701556	OK	2.6581	1.79182
Dock6	chr9:21800179-21852635	OK	2.39394	1.61366
Nhej1	chr1:74967345-75046639	OK	3.95102	2.66255
Fggy	chr4:95557506-95926939	OK	6.89183	4.64293
Cnpy2	chr10:128322458-128327187	OK	22.2934	15.0171
Tmem127	chr2:127247974-127260764	OK	40.1654	27.0553
Kcnh7	chr2:62702945-63184287	OK	13.5821	9.14499
Fadd	chr7:144578322-144582436	OK	1.21036	0.814785
Foxf2	chr13:31625815-31631406	NOTEST	0.45337	0.30518
Slc9a2	chr1:40681711-40768885	OK	0.909318	0.611956
Plvap	chr8:71497752-71511769	OK	7.88902	5.30882
Stk39	chr2:68210446-68471981	OK	93.4277	62.869
Tomm20	chr8:126930663-126945921	OK	41.7953	28.1187
Pde4dip	chr3:97689828-97888707	OK	43.7654	29.4373
Smad5	chr13:56703009-56742378	OK	6.24693	4.20071
Rilpl2	chr5:124463264-124478235	OK	5.21698	3.50686
Satb2	chr1:56793980-56971334	NOTEST	0.144426	0.0970682
Usp24	chr4:106316212-106441327	OK	6.23875	4.19254
Syne4	chr7:30314815-30319045	OK	3.77251	2.53295
Sesn3	chr9:14276300-14326134	OK	12.8192	8.60546
Chd3os	chr11:69340768-69342647	OK	3.92502	2.63439

Diras1	chr10:81019589-81025377	OK	97.2451	65.2627
Trpc7	chr13:56773107-56895588	NOTEST	0.669215	0.449095
Gjc2	chr11:59175563-59183213	NOTEST	0.269947	0.180971
1700020I14Rik	chr2:119594295-119600744	OK	38.972	26.1184
2200002D01Rik	chr7:29238322-29248467	OK	0.822427	0.55103
Sarm1	chr11:78472329-78497754	OK	14.9983	10.0469
Primpol	chr8:46552068-46617200	OK	2.44055	1.63472
Klhl32	chr4:24617272-24851086	OK	2.57709	1.72588
Aph1a	chr3:95893920-95904639	OK	4.70459	3.1506
Sh3tc1	chr5:35697179-35729276	NOTEST	0.41306	0.276517
Tab3	chrX:85574021-85634469	OK	9.44081	6.3198
Nhsl2	chrX:101849384-102092055	OK	0.775765	0.519282
Kdm8	chr7:125444619-125462268	OK	4.44179	2.97077
6330403A02Rik	chr1:180432372-180483504	OK	0.919204	0.614604
Ralgapa2	chr2:146241298-146512004	OK	6.00242	4.01106
Gnmt	chr17:46725663-46729165	NOTEST	0.446866	0.298595
Fyco1	chr9:123789499-123851899	OK	2.38371	1.59258
Mef2c	chr13:83504033-83667079	OK	7.08589	4.73346
Cyb561a3	chr19:10577156-10590041	OK	4.16923	2.78284
Zfp809	chr9:22055459-22389206	OK	5.2844	3.52653
Gpr111	chr17:42708936-42742179	NOTEST	0.0448617	0.029937
Pde3a	chr6:141249268-141499351	NOTEST	0.585963	0.391003
Abhd12	chr2:150832514-150904731	OK	141.321	94.2797
Stard5	chr7:83632016-83642328	OK	4.33865	2.89377
5730522E02Rik	chr11:25616845-26210576	NOTEST	0.251021	0.167422
Ak1	chr2:32621757-32635058	OK	73.1079	48.7398
Stxbp3a	chr3:108793179-108840502	OK	5.10722	3.40463
B2m	chr2:122120107-122186189	OK	192.558	128.337
Nit2	chr16:57156664-57167332	OK	6.97139	4.64573
Pik3r3	chr4:116221913-116303056	OK	16.5461	11.0231
Entpd7	chr19:43689688-43753000	OK	5.11133	3.40501
Tacc1	chr8:25154551-25201542	OK	20.1257	13.4051
Gm6213	chr8:39297979-39368268	NOTEST	0.678269	0.451672
Ankrd52	chr10:128377123-128394006	OK	51.9278	34.5769
Slc1a4	chr11:20302179-20332713	OK	26.7883	17.837
Arhgdib	chr6:136923708-136941717	OK	3.3816	2.2516
Tmem246	chr4:49584505-49597870	OK	34.445	22.931
Vhl	chr6:113624020-113631633	OK	8.422	5.60599
Hsd17b14	chr7:45554927-45567321	NOTEST	0.373938	0.248842
2210416O15Rik	chr11:88098057-88211507	NOTEST	0.0702005	0.0467056
Tnfsf10	chr3:27317076-27339665	OK	1.50453	1.00091
5830417I10Rik	chr3:88777056-88832487	OK	0.779577	0.518408
Amph	chr13:18948350-19150919	OK	76.6253	50.9397
Rsph4a	chr10:33905110-33916021	NOTEST	0.223155	0.148324
Pcca	chr14:122534327-122889944	OK	9.27045	6.16169
Ets2	chr16:95702406-95721049	OK	10.655	7.0794
Ltbp3	chr19:5740903-5771401	OK	18.6844	12.4131
Gng12	chr6:66896396-67021361	OK	9.77698	6.49491
9430037G07Rik	chr9:88595324-88599243	OK	1.94496	1.292
Tmem219	chr7:126886218-126898278	OK	12.2472	8.13506
Dnajc1	chr2:18055236-18392830	OK	4.37786	2.90738
Pcdhgb4	chr18:36930284-37841872	OK	1.64518	1.09255
Maml3	chr3:51687612-52105006	OK	1.44189	0.957496

Gm166	chr7:127573347-127588595	NOTEST	0.668157	0.443692
Klf4	chr4:55527136-55532475	OK	8.9856	5.96665
Dyx1c1	chr9:72958784-72973067	OK	0.822589	0.545865
Hist1h2bc	chr13:23684198-23692480	OK	60.1998	39.9442
Fam35a	chr14:34237034-34310503	OK	2.43608	1.61639
Coq7	chr7:118525061-118533313	OK	30.1207	19.9853
Tnfrsf1b	chr4:145212367-145246870	OK	0.989635	0.656389
Mcam	chr9:44134657-44142726	OK	78.077	51.7849
0610007P14Rik	chr12:85815454-85824545	OK	22.8406	15.1484
Sesn2	chr4:132492806-132510456	OK	1.76927	1.17301
Tacstd2	chr6:67534058-67535822	NOTEST	0.0220486	0.0146159
Hspa12a	chr19:58795750-58860984	OK	162.817	107.902
Cyb5rl	chr4:107070167-107084805	OK	1.69253	1.12113
Vmn1r85	chr7:13084288-13085215	NOTEST	0.427597	0.283238
Enpp6	chr8:46986924-47094895	NOTEST	0.365176	0.241876
Serpini1	chr3:75557532-75642523	OK	59.4663	39.3836
Asb17os	chr3:153844246-153853615	NOTEST	0.440054	0.291412
Znrf1	chr8:111536639-111626030	OK	10.8414	7.17898
Ndufv2	chr17:66078794-66101559	OK	91.3647	60.4757
Stap1	chr5:86071827-86103993	NOTEST	0.143998	0.0952778
Srcrb4d	chr5:135960222-135974476	OK	1.26447	0.836459
Prpf19	chr19:10895230-10909559	OK	31.7512	21.0033
Smim13	chr13:41249843-41276577	OK	53.6957	35.5028
Errfi1	chr4:150855090-150868880	OK	15.2377	10.0749
Gm13446	chr2:35549533-35730994	OK	1.96646	1.30015
Pttg1ip	chr10:77581766-77598732	OK	39.1539	25.8832
Utrn	chr10:12382187-12861735	OK	45.861	30.3118
Med9os	chr11:59946891-59948147	NOTEST	0.885383	0.58514
Cx3cl1	chr8:94772179-94782426	OK	3.30343	2.18206
B630019K06Rik	chrX:8892352-8894964	OK	17.0521	11.2598
Atp9b	chr18:80734140-80934058	OK	22.5713	14.9039
Grwd1	chr7:45825222-45830789	OK	7.85998	5.18957
Mia3	chr1:183326235-183369565	OK	27.8047	18.3554
Mknk1	chr4:115839197-115879256	OK	14.229	9.39198
Lsp1	chr7:142460811-142516009	OK	1.7581	1.16042
Myh14	chr7:44605802-44670843	OK	22.6266	14.927
Dennd5a	chr7:109893780-109960422	OK	31.4773	20.7651
Foxr2	chrX:153118787-153132861	NOTEST	0.0898075	0.0592281
Lphn1	chr8:83900097-83941954	OK	32.2575	21.2708
Rel	chr11:23741728-23770970	NOTEST	0.77774	0.512792
Vma21	chrX:71816079-71824706	OK	21.7937	14.368
Bcl6b	chr11:70224126-70229798	NOTEST	0.742729	0.489624
Sun2	chr15:79724067-79742536	OK	21.9395	14.4618
Fntb	chr12:76837466-76921412	OK	19.0711	12.5689
Klf6	chr13:5861488-5870393	OK	28.4809	18.7655
Ndufb5	chr3:32737062-32751559	OK	80.6226	53.1183
Pxmp4	chr2:154587043-154603673	OK	10.9999	7.2467
Slc25a25	chr2:32414486-32455476	OK	38.9412	25.6496
1700049G17Rik	chr7:27907391-27929430	OK	1.10686	0.728893
Camk2b	chr11:5969665-6065748	OK	20.2585	13.3374
Acot11	chr4:106733914-106799831	OK	3.62463	2.38576
Rock2	chr12:16894977-16988274	OK	13.5122	8.89384
Hadh	chr3:131233419-131272101	OK	27.3365	17.9873

Fau	chr19:6057887-6059524	OK	3.65091	2.40224
Kcnj3	chr2:55437155-55595525	OK	9.24897	6.08465
Tet1	chr10:62804569-62880014	OK	0.790194	0.519798
Kremen2	chr17:23741198-23745829	NOTEST	0.173069	0.113844
Stox2	chr8:47180047-47352348	OK	6.01264	3.95491
Plekhd1	chr12:80692600-80724216	OK	30.4667	20.0382
Fbxo47	chr11:97854306-97884154	NOTEST	0.593853	0.390482
Junb	chr8:84976908-84978748	OK	66.8822	43.9769
Olfir920	chr9:38752795-38756863	OK	1.32937	0.874051
Tm6sf1	chr7:81859000-81934459	OK	22.3593	14.6977
Slc16a1	chr3:104638663-104658462	OK	23.9102	15.716
H2afy3	chr15:62037986-62250975	NOTEST	0.210756	0.138513
Vps26a	chr10:62454842-62486805	OK	22.9627	15.0901
Cd63	chr10:128908918-128912818	OK	14.6256	9.60944
Pcdhgb7	chr18:36930284-37841872	OK	1.4601	0.959062
Oscp1	chr4:126058564-126089334	OK	9.18925	6.03461
Zfp951	chr5:104813167-104860068	NOTEST	0.502029	0.329656
Ptgir	chr7:16906489-16910905	OK	24.0398	15.7851
Slc25a33	chr4:149744035-149774267	OK	26.6901	17.5187
Elp3	chr14:65530445-65593112	OK	42.1544	27.6473
Nkiras1	chr14:18271141-18331844	OK	25.119	16.4707
Notum	chr11:120653788-120660837	NOTEST	0.231589	0.15181
Alpk2	chr18:64887755-65751537	NOTEST	0.0448192	0.0293743
Tbc1d4	chr14:101442359-101609191	OK	4.81611	3.1557
Gltpd1	chr4:155864722-155869440	OK	29.5401	19.3458
Gramd1b	chr9:40297906-40455764	OK	36.149	23.6728
Atp5l	chr9:44913247-44920742	OK	2.67666	1.75202
Slc22a21	chr11:53950823-53980027	NOTEST	0.469946	0.307601
Dusp6	chr10:99263230-99267489	OK	16.0694	10.518
Slc35e1	chr8:72477994-72492614	OK	16.5632	10.8411
Gm10432	chr12:100276608-100520822	NOTEST	0.410255	0.268429
Fhdc1	chr3:84442195-84480439	OK	4.95857	3.24172
Cacna2d3	chr14:28904942-29721864	OK	21.5163	14.0648
Samd15	chr12:87200542-87213538	NOTEST	0.515395	0.336728
Selp	chr1:164115263-164220274	NOTEST	0.282914	0.18478
Galr2	chr11:116280938-116283938	NOTEST	0.0191759	0.0125228
Ckap4	chr10:84526304-84533888	OK	15.6878	10.2433
Nde1	chr16:14163274-14192923	OK	7.37786	4.81533
Neurod4	chr10:130268151-130280240	NOTEST	0.0177146	0.0115608
VeZF1	chr11:88068278-88084729	OK	8.94114	5.83454
Ankrd33b	chr15:31291478-31367759	OK	2.2353	1.45861
Svil	chr18:5046588-5119293	OK	3.19899	2.08729
Cyb5d2	chr11:72777231-72795839	OK	14.2958	9.3277
Ric3	chr7:109010879-109083324	OK	25.6948	16.7616
Galnt1	chr18:24205343-24286816	OK	17.493	11.4103
Aco2	chr15:81872462-81926213	OK	97.7651	63.7674
Birc3	chr9:7848700-7873170	OK	1.32441	0.863812
Rfxank	chr8:70130805-70139197	OK	4.18963	2.73248
Slc43a2	chr11:75531693-75577572	OK	17.9158	11.6819
Adam10	chr9:70679000-70780229	OK	38.4709	25.0717
Slc10a4	chr5:73006903-73012955	NOTEST	0.168591	0.109844
Cdon	chr9:35452075-35507652	OK	1.70211	1.10858
Sik1	chr17:31844249-31855792	OK	3.46304	2.25536

Triobp	chr15:78947723-79011041	OK	4.79782	3.12441
Jade1	chr3:41555733-41616864	OK	3.54919	2.31114
Pcdhb14	chr18:36930284-37841872	OK	1.62221	1.05627
Tpgs2	chr18:24708622-25168877	OK	24.1828	15.7445
Cbfa2t2	chr2:154436483-154539356	OK	4.78789	3.11669
Syne2	chr12:75818317-76110928	OK	2.55649	1.66302
Msi2	chr11:88339381-88718267	OK	16.9945	11.0541
Shroom3	chr5:92683434-92965759	OK	5.13066	3.33686
Csf1	chr3:107741047-107760469	OK	4.79939	3.12084
Efnb2	chr8:8617438-8660773	OK	12.8403	8.33992
Mgst3	chr1:167372383-167393797	OK	116.609	75.7295
Tmem176a	chr6:48841482-48845364	OK	67.6069	43.904
Znrf3	chr11:5276328-5444847	OK	1.28149	0.831991
Gm14295	chr2:176798599-176808704	OK	4.80528	3.11971
Cartpt	chr13:99898482-99900683	OK	21.4776	13.9415
Pus3	chr9:35559465-35570069	OK	4.66754	3.02835
Rnf149	chr1:39551295-39577347	OK	13.4471	8.72289
Nek4	chr14:30951487-30987401	OK	4.82789	3.13067
Tmem25	chr9:44793778-44799216	OK	52.4986	34.0387
Fam53b	chr7:132712083-132813196	OK	7.14852	4.63477
Tdrd6	chr17:43615334-43630299	NOTEST	0.14281	0.0925838
Supt16	chr14:52110902-52197239	OK	20.9472	13.5736
Sec14l1	chr11:117115171-117159268	OK	25.2558	16.3651
Nrm	chr17:35861317-35865400	OK	2.41938	1.56701
Sh3kbp1	chrX:159627271-159975920	OK	7.30191	4.72829
Slc25a20	chr9:108662097-108684641	OK	15.7893	10.2223
Farp1	chr14:121035573-121283726	OK	5.91269	3.82475
Plscr1	chr9:92250193-92272561	OK	0.886966	0.573673
1110006O24Rik	chr5:115631048-115631816	NOTEST	0.495486	0.320452
Fndc4	chr5:30933142-31348845	OK	14.5223	9.38984
Tmem17	chr11:22512282-22519231	OK	4.85208	3.1367
Clstn1	chr4:149586467-149648899	OK	205.565	132.837
Sgpp2	chr1:78310345-78488897	OK	75.2303	48.6069
Plxna1	chr6:89316313-89362613	OK	10.3714	6.69875
Bfsp1	chr2:143826527-143863173	OK	1.06654	0.688843
Me1	chr9:86581362-86701253	OK	31.4796	20.3274
Scn4a	chr11:106318592-106349390	OK	1.67915	1.0842
Fam110a	chr2:151969395-151980219	OK	1.80163	1.16203
AI593442	chr9:52673031-52679780	OK	30.1856	19.4658
Lypd6	chr2:50066428-50193569	OK	2.75753	1.77767
Tnfrsf13c	chr15:82221743-82224336	NOTEST	0.214881	0.138441
Creb3l2	chr6:37331020-37442148	OK	5.12868	3.30326
Abca4	chr3:122044459-122180061	NOTEST	0.0529131	0.0340714
Fas	chr19:34290658-34327770	OK	1.55894	1.00373
E430016F16Rik	chr7:78581065-78718220	NOTEST	0.199397	0.128376
Clec14a	chr12:58264719-58269258	OK	2.02909	1.30617
Syt12	chr7:90302354-90410719	OK	48.0606	30.9326
Has3	chr8:106870241-106882902	OK	0.832025	0.535355
Zfyve21	chr12:111814169-111828388	OK	8.94175	5.75149
Timp4	chr6:115134901-115282626	NOTEST	0.376204	0.241944
Ascl3	chr7:109727464-109731732	NOTEST	0.176119	0.113257
Fam58b	chr11:78750505-78751729	OK	9.22222	5.92714
Slc12a2	chr18:57878677-57946821	OK	45.4556	29.2053

Kctd21	chr7:97332322-97350216	OK	4.27792	2.74835
Sh3pxd2a	chr19:47260173-47464411	OK	20.2646	13.0146
Sfxn5	chr6:85213050-85333422	OK	11.593	7.44398
Lpp	chr16:24392555-24992578	OK	2.07056	1.32946
Slc27a4	chr2:29802679-29817522	OK	47.4651	30.4739
F830016B08Rik	chr18:60293379-60303016	NOTEST	0.0931665	0.0597878
Shb	chr4:45423275-45530828	OK	0.88567	0.56823
Zfa-ps	chr10:52542319-52545739	NOTEST	0.110546	0.0708974
Xkr5	chr8:18932728-18950975	NOTEST	0.0513131	0.0328987
Eno2	chr6:124760054-124769509	OK	310.035	198.734
Cyp2u1	chr3:131290490-131303227	OK	5.00679	3.20913
Podxl2	chr6:88842557-88874044	OK	22.4889	14.4133
Phactr4	chr4:132355924-132422446	OK	2.90235	1.85925
Slc25a42	chr8:70184339-70212281	OK	4.53757	2.90617
Prr32	chrX:45090903-45092790	OK	0.951865	0.609356
Ankrd28	chr14:31700014-31830415	OK	5.95258	3.80952
Fnta	chr8:25998721-26015601	OK	63.4169	40.5642
Large	chr8:72814598-73352556	OK	39.8424	25.4809
Chl1	chr6:103510875-103733035	OK	18.7375	11.9756
6030408B16Rik	chr15:101293211-101297426	NOTEST	0.416466	0.265936
Iqcj	chr3:67892219-68626482	NOTEST	0.143983	0.091918
Capn3	chr2:120355308-120504919	NOTEST	0.106729	0.0681126
St18	chr1:6487230-6860940	NOTEST	0.0162974	0.0103982
Rasl2-9	chr7:5124941-5125950	NOTEST	0.22676	0.144598
Cldn9	chr17:23682583-23684026	OK	2.72102	1.73466
H6pd	chr4:149979473-150009023	OK	2.2985	1.46513
Selenbp1	chr3:94933082-94944758	NOTEST	0.765939	0.488225
Procr	chr2:155751216-155755478	OK	2.20556	1.40557
Eva1c	chr16:90830858-90904885	OK	7.07297	4.50647
Amer1	chrX:95420313-95444840	OK	7.46344	4.75313
B9d1	chr11:61505171-61512927	OK	4.84824	3.08591
Glyctk	chr9:106152859-106158138	OK	1.70178	1.08297
Etnk2	chr1:133363571-133380319	NOTEST	0.4686	0.298102
Ubt2	chr11:32455371-32518709	OK	15.1997	9.66815
Uhrf1bp1	chr17:27856506-27900040	OK	3.67698	2.33867
Zfp85	chr13:67729261-67756838	OK	1.02905	0.654346
Cntn6	chr6:104493043-104863405	OK	2.43882	1.5507
Cass4	chr2:172393793-172433757	NOTEST	0.079125	0.0502986
Slc12a9	chr5:137314557-137333582	OK	7.51979	4.77961
Krt222	chr11:99233097-99244067	OK	18.339	11.6541
Klf2	chr8:72319061-72321654	OK	13.3409	8.4774
Drd1a	chr13:54051182-54055658	NOTEST	0.0992538	0.0630456
Tmem255b	chr8:13435458-13461451	NOTEST	0.580012	0.368288
Slc44a1	chr4:53440412-53622478	OK	71.2694	45.2475
Got1	chr19:43499752-43524605	OK	120.935	76.7778
Tmbim6	chr15:99392946-99410049	OK	151.87	96.3716
Raet1c,Raet1e	chr10:22158608-22374139	NOTEST	0.131789	0.0836129
Syk	chr13:52583436-52648792	NOTEST	0.709739	0.450254
Opn4	chr14:34590617-34600142	NOTEST	0.282912	0.179444
Acss2	chr2:155518042-155562743	OK	37.9424	24.0612
Flrt1	chr19:7056767-7198062	OK	3.05657	1.93802
Ifitm1	chr7:140967428-140969827	OK	2.16911	1.37479
Enpp2	chr15:54838678-54920146	OK	7.59616	4.81336

Ccdc122	chr14:77036771-77112204	OK	3.50887	2.22234
Adam2	chr14:66027328-66077733	NOTEST	0.0293055	0.0185484
4930413G21Rik	chr7:122969057-122970459	NOTEST	0.0286099	0.0181077
Srgap2	chr1:131285250-131527361	OK	7.73484	4.89411
Sox7	chr14:63943705-63950732	NOTEST	0.691329	0.437423
Ifi44	chr3:151730922-151749959	OK	0.948988	0.600242
Pcdhga10	chr18:36930284-37841872	OK	2.23425	1.41309
Kcng1	chr2:168261697-168269331	OK	1.23824	0.783142
Fgf5	chr5:98254183-98277033	OK	0.974626	0.616411
Tecr	chr8:83571697-83594491	OK	329.347	208.213
Vkorc1	chr7:127893062-127895617	OK	32.3424	20.4388
Mettl21a	chr1:64606479-64617168	OK	7.01645	4.43401
Lancl1	chr1:67000516-67038872	OK	38.3511	24.2304
Abcg1	chr17:31057693-31117981	OK	17.8968	11.3032
Atp5c1	chr2:10056030-10080510	OK	150.965	95.3177
Slc12a1	chr2:125152599-125230001	NOTEST	0.0702116	0.0443162
Inca1	chr11:70688360-70700155	NOTEST	0.596483	0.37645
Tmem181b-ps	chr17:6439001-6450994	OK	3.12704	1.9733
Atp6v1g2	chr17:35236595-35238768	OK	78.4557	49.4754
Gm16675	chr8:46730969-46739515	NOTEST	0.170372	0.107418
Sntg2	chr12:30174556-30373375	NOTEST	0.187895	0.118447
Ndufa12	chr10:94199008-94220948	OK	23.8771	15.0495
Bhlhb9	chrX:135885850-135891081	OK	17.3999	10.9644
Fam195a	chr17:25863697-25868738	OK	3.18007	2.00264
Mtx3	chr13:92844786-92858230	OK	12.1656	7.66098
Abl2	chr1:156558786-156649619	OK	7.1971	4.53197
Grtp1	chr8:13176868-13200624	OK	1.39033	0.875297
Il1rapl1	chrX:86747241-88115623	OK	0.978861	0.616182
Six4	chr12:73100258-73113245	OK	12.0783	7.59412
Pcdhgb1	chr18:36930284-37841872	OK	2.34056	1.47152
Fam20b	chr1:156678570-156718910	OK	35.7371	22.4571
Ctgf	chr10:24595441-24598682	OK	8.67083	5.44751
Engase	chr11:118476959-118489198	OK	3.57058	2.2431
Xlr3b	chrX:73192178-73202930	OK	3.20402	2.01268
Mpi	chr9:57544267-57552752	OK	32.6716	20.5216
Gm12250	chr11:58183842-58190198	NOTEST	0.258448	0.162311
Gm16712	chr17:55952622-55967951	NOTEST	0.0699675	0.043941
Tgtp2	chr11:49037659-49135387	OK	0.850938	0.534053
Dip2a	chr10:76263048-76345291	OK	10.9985	6.90161
Casp7	chr19:56397128-56442343	OK	1.44521	0.906552
Itga5	chr15:103344285-103366748	OK	1.25518	0.787304
Gm7120	chr13:119487256-119610459	OK	6.58435	4.1295
Cxcl1	chr5:90891244-90893115	OK	1.86222	1.16771
Wisp3	chr10:39134022-39163794	NOTEST	0.102303	0.0641437
Atg9b	chr5:24364818-24392143	OK	0.880804	0.552085
Pdgfb	chr15:79995875-80014808	OK	4.50659	2.8228
Agap1	chr1:89454810-89895282	OK	11.4998	7.20264
Ccdc78	chr17:25786579-25792394	NOTEST	0.0718223	0.0449842
Zfp30	chr7:29784789-29794540	OK	1.7264	1.08106
Txndc16	chr14:45134447-45219394	OK	15.854	9.92351
Gm1653	chr3:149274736-149279980	NOTEST	0.43393	0.271582
Foxo4	chrX:101254527-101260873	OK	6.57925	4.11678
Syne3	chr12:104929932-105009809	OK	2.08671	1.30525

Sorl1	chr9:41968488-42124289	OK	57.6161	36.0249
4632428N05Rik	chr10:60302749-60696490	OK	1.30312	0.814197
Siae	chr9:37613846-37648318	OK	10.9902	6.8647
Habp4	chr13:64161865-64186537	OK	61.4006	38.3502
Gm17757,Gm1885	chr7:106156535-106215340	LOWDAT	0.00582669	0.00363915
Tubgcp4	chr2:121171167-121271407	OK	22.2198	13.874
Rgag1	chrX:143099593-143104335	OK	1.79328	1.11922
Pdhb	chr14:8165990-8172992	OK	73.899	46.1105
S100a13	chr3:90514434-90524581	OK	83.3079	51.97
Clic5	chr17:44188571-44280168	OK	2.18507	1.36264
Lcp1	chr14:75004109-75388146	OK	61.0843	38.0893
Trip10	chr17:57249450-57263697	OK	12.473	7.77463
Gm5141	chr13:62772199-62785808	NOTEST	0.704014	0.438801
Lrrn4cl	chr19:8850784-8853909	OK	1.48541	0.925596
Dsel	chr1:111858701-111864918	OK	7.22615	4.50265
Rgl3	chr9:21971526-21989453	OK	1.02596	0.639266
Asah1	chr8:41340642-41374697	OK	41.777	26.023
Ninj1	chr13:49187546-49196251	OK	19.7469	12.2986
Rnf208	chr2:25242928-25244261	OK	46.5738	28.995
Xk	chrX:9272783-9313245	OK	6.70342	4.17202
Chga	chr12:102554968-102565027	OK	106.543	66.2938
Tube1	chr10:39134022-39163794	OK	1.37322	0.854406
Slc26a10	chr10:127172425-127180645	NOTEST	0.210958	0.131227
Hyal3	chr9:107580169-107587359	OK	1.43722	0.89401
Rspo3	chr10:29453106-29535867	NOTEST	0.336744	0.209438
Dner	chr1:84369838-84696221	OK	58.4211	36.311
Xylb	chr9:119357380-119393797	OK	0.781048	0.485356
Tmem184a	chr5:139804951-139814283	NOTEST	0.0842051	0.0523214
Cdh18	chr15:23036462-23474418	OK	12.0425	7.48182
Nrg1	chr8:31818027-31918203	OK	34.8248	21.6349
Slc46a3	chr5:147878440-147894802	OK	1.66897	1.03624
Cadm3	chr1:173334253-173367695	OK	197.342	122.513
Zfp870	chr17:32879220-32891603	OK	1.55298	0.964087
Dnah1	chr14:31260374-31323896	NOTEST	0.0442144	0.0274474
Cox5a	chr9:57521231-57532426	OK	325.444	202.015
4921531C22Rik	chr2:179976852-179979013	OK	0.865207	0.53699
Lrrc24	chr15:76715275-76723845	OK	7.00572	4.34691
Gm12185	chr11:48904655-48927182	NOTEST	0.058771	0.0364524
Tlr2	chr3:83836271-83841608	NOTEST	0.455063	0.282232
Ccbl2	chr3:142701079-142744910	OK	3.49626	2.16795
Zfp398	chr6:47835660-47868257	OK	3.06709	1.90181
Osbp2	chr11:3703730-3863903	OK	6.32977	3.9247
Mboat1	chr13:30136489-30246694	OK	4.19507	2.60097
Gsg1l	chr7:125878418-126082411	OK	1.6347	1.01314
Enpp3	chr10:24773813-24836195	NOTEST	0.56069	0.347405
Rnf26	chr9:44110780-44113051	OK	15.9474	9.87585
Dok5	chr2:170731806-170879775	OK	5.38984	3.33751
Dnajc25	chr4:59003192-59023398	OK	1.78429	1.10472
Elk4	chr1:132007604-132025684	OK	4.57537	2.83204
Hsd17b7	chr1:169949536-169969205	OK	24.0389	14.8747
Art4	chr6:136848450-136857600	OK	2.03346	1.25796
Npr1	chr3:90450591-90465866	OK	1.60388	0.991315
Abcg4	chr9:44273189-44288244	OK	19.2357	11.8843

Lrrc1	chr9:77430822-77544852	OK	1.93975	1.19825
Ang	chr14:51091076-51106151	OK	1.2453	0.769198
Hapln3	chr7:79117026-79131018	OK	1.65113	1.01945
Pram1	chr17:33638055-33645706	NOTEST	0.137405	0.0848371
E2f6	chr12:16810964-16826752	OK	25.8778	15.9733
Fat4	chr3:38886939-39011983	OK	1.35499	0.836092
Prkaca	chr8:83972977-83996442	OK	168.203	103.766
Epb4.1l3	chr17:69156809-69289987	OK	255.603	157.643
Slc25a10	chr11:120491836-120501161	OK	7.3031	4.5037
Gm6537	chr7:28756173-28766524	NOTEST	0.70102	0.432273
Ldb3	chr14:34526698-34588681	OK	5.23159	3.22543
Hist1h3d	chr13:23575762-23576266	NOTEST	0.412702	0.254419
Ggcx	chr6:72414307-72431106	OK	5.16515	3.1829
Caps2	chr10:112165675-112216555	NOTEST	0.026042	0.016038
Sez6l2	chr7:126950534-126970606	OK	58.778	36.1963
Hist1h3f	chr13:23544051-23544954	NOTEST	0.0951495	0.0585932
Arhgap42	chr9:8994952-9260885	OK	4.14299	2.55097
Gm4980	chr7:99624066-99627103	OK	24.5778	15.1287
Cd200	chr16:45382134-45409053	OK	43.6974	26.8961
Gm7173	chrX:79482567-79517285	NOTEST	0.0769604	0.0473666
Fam49a	chr12:12262138-12392475	OK	4.02478	2.47622
Mog	chr17:37010739-37023398	NOTEST	0.0469943	0.0289068
Npy	chr6:49822728-49829505	NOTEST	0.316341	0.194525
Cabp1	chr5:115168690-115186121	OK	127.522	78.4129
Smpd1	chr7:105554359-105558389	OK	43.019	26.4507
Flna	chrX:74223460-74246534	OK	16.7307	10.2864
Rgag4	chrX:101849384-102092055	OK	2.43687	1.49806
Card9	chr2:26352311-26359547	NOTEST	0.271837	0.167105
Zc2hc1c	chr12:85288590-85299358	NOTEST	0.302624	0.185913
Nradd	chr9:110621134-110624393	OK	1.42811	0.877296
Ccdc85c	chr12:108206344-108275417	OK	2.94842	1.81104
Wfikkn1	chr17:25877627-25880858	NOTEST	0.291114	0.178779
Pgm5	chr19:24674007-24861842	OK	0.773506	0.474926
Bak1	chr17:27018034-27036378	OK	6.86878	4.21565
Tbx3	chr5:119670861-119684724	OK	7.61028	4.67042
Fam101b	chr11:76019194-76027782	OK	7.94659	4.87682
Smim24	chr10:81393063-81395079	NOTEST	0.241793	0.148323
Ihh	chr1:74945317-74951651	NOTEST	0.0396856	0.0243306
Phf11d	chr14:59347406-59365490	NOTEST	0.533876	0.3273
Napepld	chr5:21662902-21701345	OK	2.97883	1.82576
Lym5	chr6:145211133-145216542	OK	20.8659	12.7887
Muc1	chr3:89229055-89233381	NOTEST	0.139293	0.0853554
Pard6b	chr2:168081003-168101203	OK	2.12	1.29901
Iglon5	chr7:43472906-43490023	OK	13.3418	8.17354
Mmgt2	chr11:62648663-62666359	OK	3.87859	2.37556
Lyve1	chr7:110850606-110862953	OK	2.20297	1.34807
4930528A17Rik	chr4:21846326-21876475	NOTEST	0.371881	0.227493
Gm20753	chr1:106152624-106171524	NOTEST	0.107934	0.066018
Sorbs1	chr19:40292039-40513812	OK	58.1062	35.54
Ptpn4	chr1:119658092-119837071	OK	2.36712	1.44718
Dpf3	chr12:83213750-83487736	OK	3.46624	2.11808
Klhl6	chr16:19946491-19983049	NOTEST	0.792914	0.484376
Sh3d19	chr3:86084433-86130521	OK	9.43115	5.76029

Sptbn2	chr19:4711222-4752352	OK	30.0605	18.359
5730480H06Rik	chr5:48389502-49285659	NOTEST	0.264716	0.161598
Klhl33	chr14:50891388-50893255	OK	2.55992	1.56255
Prkrir	chr7:98703362-98718061	OK	14.7396	8.99514
Napsa	chr7:44572444-44586846	NOTEST	0.403192	0.245932
Fes	chr7:80377757-80387946	OK	0.838665	0.511122
Shroom4	chrX:6400144-6633717	OK	1.06622	0.649699
Pip4k2a	chr2:18842255-18998121	OK	37.8318	23.0483
Cbfb	chr8:105170673-105217988	OK	125.799	76.6224
Bambi	chr18:3507956-3516404	OK	2.78276	1.69487
Entpd6	chr2:150749080-150771674	OK	11.6602	7.10156
Tc2n	chr12:101645445-101718523	NOTEST	0.471727	0.287282
Rapgef2	chr3:79062528-79145875	OK	9.24585	5.63009
Dusp16	chr6:134715467-134792628	OK	4.09703	2.49413
Atp1a1	chr3:101576218-101604707	OK	1087.2	661.802
Epb4.1l1	chr2:156420908-156543214	OK	42.155	25.6242
Ppp2r5a	chr1:191325964-191397041	OK	4.15978	2.52837
Klhl40	chr9:121777606-121783819	NOTEST	0.291317	0.176988
Gm2115	chr7:84528953-84578339	OK	26.0376	15.8175
4931406P16Rik	chr7:34236713-34285609	OK	7.54893	4.58514
Hrsp12	chr15:34484021-34495246	OK	32.3336	19.6369
Prlr	chr15:10177237-10349180	OK	0.88371	0.536528
Itm2b	chr14:73362231-73385271	OK	451.969	274.34
Tmem123	chr9:7764076-7794332	OK	8.12963	4.93359
Gtdc1	chr2:44564411-44861622	OK	8.96559	5.44
Kbtbd12	chr6:88547721-88627448	NOTEST	0.311984	0.189295
Kcnt2	chr1:140246256-140656402	OK	3.03262	1.83976
St3gal5	chr6:72097607-72154570	OK	24.3513	14.7637
Alg9	chr9:50775224-50843639	OK	6.00503	3.64045
Mid1	chrX:169685198-169990797	NOTEST	0.764447	0.463401
Ss18	chr18:14625628-14682914	OK	4.94417	2.99701
Ripk1	chr13:34002873-34035170	OK	1.80715	1.09542
Dsp	chr13:38151293-38198577	NOTEST	0.0503071	0.0304924
Cth	chr3:157894247-157925063	NOTEST	0.2563	0.155341
Fbxo7	chr10:86021928-86048328	OK	17.5642	10.6414
Cdkl5	chrX:160768012-160994681	OK	1.45188	0.879135
Dscaml1	chr9:45416625-45753713	NOTEST	0.434226	0.262925
Lgalsl	chr11:20823354-20831108	OK	14.9075	9.02621
Cyp2c44	chr19:44005021-44029247	NOTEST	0.0408156	0.0247056
Efhd2	chr4:141858141-141874920	OK	19.4762	11.7867
Fblim1	chr4:141576061-141606052	NOTEST	0.749901	0.453267
A730056A06Rik	chr7:73310379-73419899	NOTEST	0.283987	0.171605
Eid1	chr2:125627446-125724148	OK	37.715	22.7892
Tsc22d4	chr5:137745968-137768453	OK	23.3848	14.1259
Fkbp14	chr6:54577604-54593128	OK	9.9556	6.01105
Art5	chr7:102096878-102100229	NOTEST	0.160868	0.0970709
Ttc16	chr2:32757025-32775633	NOTEST	0.103271	0.062298
Fbxl7	chr15:26540458-26895564	OK	1.34038	0.808481
Gm13298	chr4_GL456350_random:14407	NOTEST	0.189058	0.114012
Rgs2	chr1:143999337-144004149	OK	6.10268	3.68023
Tspan3	chr9:56135883-56161070	OK	188.015	113.339
Igf2r	chr17:12682405-12868143	OK	8.23682	4.9649
Zfp473	chr7:44731481-44748617	NOTEST	0.223363	0.134352

Cdk2	chr10:128697938-128705051	OK	1.39416	0.8384
Gfm1	chr3:67430114-67475068	OK	34.3056	20.6186
Vwa8	chr14:78849177-79202310	OK	15.2364	9.15432
Mapkbp1	chr2:119972698-120027403	OK	2.49575	1.4991
Arhgef5	chr6:43265643-43289320	NOTEST	0.550309	0.330539
Mir8112	chr6:71271670-71271801	NOTEST	11.7759	7.07252
Vmn1r181	chr7:23983960-23985048	NOTEST	0.203899	0.122398
Ppargc1b	chr18:61298135-61400431	OK	1.99899	1.19919
Srgn	chr10:62494427-62507755	OK	14.8104	8.88452
Phb	chr11:95666956-95680773	OK	16.2794	9.75431
Cdc26	chr4:62394588-62408623	OK	17.6594	10.5806
Bcas1	chr2:170346990-170427845	OK	11.0806	6.63673
Ptgr1	chr4:58965589-58987078	OK	5.85155	3.50473
Il20rb	chr9:100457718-100486473	NOTEST	0.219457	0.131406
Slitrk5	chr14:111675114-111683135	OK	9.40817	5.63184
Slnf5	chr11:82911252-82964850	OK	3.91073	2.34054
Atp8b4	chr2:126320972-126491553	NOTEST	0.0993148	0.059431
Gm18853	chr7:106156535-106215340	NOTEST	0.00270563	0.00161797
Itga11	chr9:62677854-62783979	OK	1.34075	0.801752
Kcnq2	chr2:181075578-181135225	OK	24.9988	14.9445
Net1	chr13:3882017-3918220	OK	8.17102	4.88365
Unc93b1	chr19:3935185-3949340	OK	4.15282	2.48003
Cdh24	chr14:54631991-54641364	OK	0.833831	0.497937
Pigx	chr16:32084415-32099727	OK	7.38508	4.4101
Kctd12b	chrX:153685153-153696280	OK	1.24751	0.744813
Oasl1	chr5:114923239-114937911	OK	1.07112	0.63949
Agt	chr8:124556586-124569707	OK	4.02663	2.40063
Fxyd5	chr7:31032722-31042331	OK	10.7294	6.39515
Tmx2	chr2:84671310-84715164	OK	82.0674	48.9136
Rnft2	chr5:118190735-118245025	OK	10.6657	6.34802
Auh	chr13:52835109-52929677	OK	62.2905	37.0661
Vamp3	chr4:151047304-151057953	OK	16.1245	9.59193
Ccdc125	chr13:100669480-100730942	NOTEST	0.129575	0.0770602
Nxpe3	chr16:55839952-55895279	OK	12.4913	7.42637
Col6a4	chr9:105990317-106096691	NOTEST	0.0330663	0.0196517
Cdc42ep2	chr19:5917555-5924816	OK	19.2858	11.4586
H60b	chr10:22158608-22374139	NOTEST	0.460024	0.273196
Gsdmd	chr15:75862338-75867404	OK	1.09738	0.651535
Aldh1l2	chr10:83487446-83534140	OK	1.01015	0.5995
Galk1	chr11:115974724-116012719	OK	5.84342	3.46745
Gid4	chr11:60417144-60445277	OK	12.5474	7.44505
Mgrn1	chr16:4886099-4941020	OK	18.4536	10.9463
Ntrk1	chr3:87778243-87795162	OK	146.787	87.0517
A630033H2ORik	chrX:107148926-107173661	NOTEST	0.115755	0.0686232
Foxo6	chr4:120267077-120287261	OK	1.57701	0.934881
Hhip	chr8:79965850-80058008	NOTEST	0.359245	0.212947
Slc6a6	chr6:91684066-91759063	OK	7.65895	4.53823
Dact2	chr17:14195229-14203831	OK	1.42197	0.842195
Rcbtb1	chr14:59201227-59237265	OK	23.8342	14.0994
Rab11fip4	chr11:79591211-79694012	OK	24.1487	14.2842
Kat2b	chr17:53566970-53672721	OK	9.92688	5.87114
Prdx4	chrX:155323919-155338454	OK	28.1236	16.6331
Lrrc20	chr10:61475832-61582228	OK	11.9572	7.0714

Mfsd2a	chr4:122946850-122961188	OK	18.5486	10.9672
A630007B06Rik	chr19:56790962-56813683	OK	13.1814	7.7913
Pbx4	chr8:69832703-69872292	OK	2.08364	1.23129
Cnst	chr1:179546528-179627473	OK	56.9871	33.674
Myof	chr19:37899035-38043577	OK	1.21363	0.717102
4930425010Rik	chr3:138711534-138726984	NOTEST	0.0556791	0.0328606
Prps2	chrX:167346332-167382699	OK	10.5887	6.24918
Tcf4	chr18:69344491-69687967	OK	7.52204	4.43862
Kctd14	chr7:97451333-97459557	NOTEST	0.646555	0.3815
Ptges3l	chr11:101418813-101435665	NOTEST	0.314078	0.185286
Smad6	chr9:63953075-64022059	OK	1.02416	0.603985
Zbp1	chr2:173206611-173218922	NOTEST	0.605196	0.356848
Ppif	chr14:25694169-25701282	OK	13.5474	7.98546
Cd79a	chr7:24897510-24902197	NOTEST	0.577315	0.340246
Ufsp1	chr5:137294668-137295664	OK	8.24736	4.86008
Fgfr3	chr5:33721723-33737068	NOTEST	0.506458	0.298168
Crtap	chr9:114368323-114390712	OK	8.13491	4.78603
Agtr2	chrX:21484623-21488833	NOTEST	0.203579	0.119718
Cyba	chr8:122424770-122432940	OK	4.8382	2.8442
Otop3	chr11:115334733-115346926	NOTEST	0.147762	0.0868163
4930570G19Rik	chr3:156546752-156561746	NOTEST	0.429377	0.252244
Lrrk1	chr7:66258746-66388341	OK	1.81779	1.06739
Hsd12	chr4:59581562-59618694	OK	41.6312	24.444
2310010J17Rik	chr7:90124835-90129936	OK	1.03063	0.604978
Rftn1	chr17:49993306-50190497	NOTEST	0.691445	0.405679
Gpr125	chr5:49959950-50058996	OK	10.3094	6.0478
0610043K17Rik	chr4:101346523-101399185	NOTEST	0.176352	0.103428
Arhgap44	chr11:64979034-65162961	OK	37.2689	21.8575
Anp32a	chr9:62341342-62378805	OK	26.8296	15.731
Arhgap25	chr6:87458544-87533259	OK	1.54062	0.902852
1500009C09Rik	chr15:82252396-82260753	NOTEST	0.212319	0.124419
Ms4a4c	chr19:11407660-11427246	NOTEST	0.0438353	0.0256674
Sptb	chr12:76580487-76710547	OK	18.7372	10.9672
Gprin3	chr6:59352460-59426290	NOTEST	0.614014	0.359359
Ndc1	chr4:107367783-107414338	OK	9.29572	5.44035
Tcam1	chr11:106276671-106288143	NOTEST	0.241935	0.141559
Lepre1	chr4:119232914-119248977	OK	3.0119	1.7621
Tmem64	chr4:15265819-15286753	OK	16.6794	9.75631
Mfsd7c	chr12:85746538-85813585	OK	1.30506	0.763051
Nsun4	chr4:116031769-116053876	OK	7.53558	4.40541
Pcdhb15	chr18:36930284-37841872	OK	1.00201	0.58543
9130008F23Rik	chr17:40875481-40880558	NOTEST	0.281208	0.164292
Nxt2	chrX:142226769-142239700	OK	16.0641	9.38502
Rho	chr6:115931926-115938830	OK	0.969397	0.566092
Myo15	chr11:60469338-60528368	NOTEST	0.311764	0.182049
Ttyh2	chr11:114344525-114757886	OK	5.57206	3.25361
Atp2a2	chr5:122453512-122502225	OK	120.303	70.233
Plcd1	chr9:119071527-119093496	OK	4.43446	2.58797
Phldb1	chr9:44686307-44735198	OK	10.6933	6.23837
Rapgef4	chr2:71981214-72257474	OK	50.5687	29.5007
Endog	chr2:30171523-30178459	OK	9.71398	5.66607
Ttc21b	chr2:66184326-66256617	OK	3.91734	2.28445
Inf2	chr12:112588783-112615557	OK	14.5271	8.47031

Rprml	chr11:103649508-103650580	NOTEST	0.0383797	0.0223672
Chrm3	chr13:9876612-10360803	OK	1.04432	0.60859
Fut10	chr8:31187330-31261924	OK	2.6276	1.53113
Fut8	chr12:77238103-77475996	OK	28.7673	16.7629
Dnah7b	chr1:46066737-46373550	NOTEST	0.376811	0.219516
C1qtnf9	chr14:60768133-60780869	NOTEST	0.529276	0.308283
Tango6	chr8:106683067-106851439	OK	2.15604	1.25571
Arhgef2	chr3:88616206-88648052	OK	4.18902	2.43951
Klhl36	chr8:119862304-119876989	OK	1.85002	1.07719
A430035B10Rik	chr6:8507058-8509161	OK	0.901089	0.524533
Lrrd1	chr5:3845172-3866596	NOTEST	0.0136211	0.00792785
Rhbd2	chr11:116598165-116627019	OK	2.4551	1.42833
Rap1gap	chr4:137664725-137729861	OK	34.8279	20.2535
Zbtb12	chr17:34894558-34896844	OK	1.2053	0.70086
Vamp5	chr6:72368048-72380468	OK	2.87296	1.67022
Ghsr	chr3:27371350-27378010	NOTEST	0.042517	0.0247171
Sp1	chr15:102406315-102436404	OK	5.90861	3.43487
Nr3c1	chr18:39410544-39487245	OK	12.1163	7.04338
Arhgap5	chr12:52516076-52567851	OK	14.6771	8.52884
Ube2cbp	chr9:86307233-86464916	NOTEST	0.666094	0.38704
Dlg1	chr16:31663442-31873356	OK	6.56169	3.81057
Kcnp3	chr2:127456497-127522094	OK	85.5713	49.6871
Hist1h4i	chr13:22040959-22041362	OK	1.84839	1.07297
Slc8b1	chr5:120511191-120534024	OK	4.71667	2.73705
Etv6	chr6:134035706-134270147	OK	5.58357	3.23961
Spsb4	chr9:96943481-97018355	OK	5.25271	3.04721
Mpp3	chr11:101999652-102026955	OK	1.78284	1.03425
Ephx1	chr1:180989555-181017495	OK	66.9222	38.8092
Zfp219	chr14:51984832-52020733	OK	10.7308	6.22287
Endou	chr15:97711018-97731405	NOTEST	0.238139	0.138079
Mamstr	chr7:45639976-45645768	NOTEST	0.708295	0.410268
Als2cr12	chr1:58658119-58695989	NOTEST	0.525126	0.30414
Mirlet7bhg	chr15:85703772-85707524	NOTEST	0.323519	0.187262
Mgat5	chr1:127204985-127482972	OK	9.21118	5.32755
Diap2	chrX:129749741-130465833	OK	4.16941	2.41141
Mbp	chr18:82475122-82585637	OK	593.438	343.218
Rmdn2	chr17:79614899-79682152	OK	8.13346	4.69736
Pyhin1	chr1:173630858-173647928	NOTEST	0.193375	0.111681
Fam210a	chr18:68260184-68300333	OK	6.29907	3.63618
Gm10033	chr8:69371024-69395544	OK	3.93236	2.265
Klhl25	chr7:75848337-75874130	OK	4.57344	2.63157
Cd59b	chr2:104071009-104084957	NOTEST	0.38321	0.220462
Micall2	chr5:139706692-139736333	OK	2.87261	1.65245
Cd38	chr5:43868826-43912374	OK	2.19819	1.26429
Serpine1	chr5:137061505-137072272	NOTEST	0.655405	0.376843
Dagla	chr19:10245264-10304877	OK	6.91777	3.97607
Depdc5	chr5:32863720-32994233	OK	17.2622	9.91511
Fzd3	chr14:65192440-65262463	OK	7.08949	4.07173
Prob1	chr18:35650350-35655199	NOTEST	0.755238	0.433752
Sccpdh	chr1:179668230-179687184	OK	47.5252	27.279
Rbm24	chr13:46418299-46431099	NOTEST	0.141951	0.0814395
9530068E07Rik	chr11:52396427-52408723	OK	79.2449	45.4378
Pnlip	chr19:58670364-58681788	OK	1.64273	0.941331

Hist1h2af	chr13:23533910-23534378	NOTEST	0.139625	0.0799904
Vmn2r57	chr7:41399731-41448641	NOTEST	0.0583886	0.0334443
Agpat2	chr2:26593056-26604417	OK	2.18231	1.24848
Trim30d	chr7:104470013-104507849	NOTEST	0.354873	0.20301
Neat1	chr19:5842301-5845478	OK	26.3253	15.0584
Cflar	chr1:58711507-58759203	OK	8.27585	4.73366
Mdh1	chr11:21556691-21571934	OK	321.438	183.767
Cdh2	chr18:16588876-16809049	OK	22.6199	12.9288
Gpt2	chr8:85492616-85527558	OK	26.2042	14.975
Scamp2	chr9:57560943-57588798	OK	9.95445	5.68866
Prodh	chr16:18071725-18089190	OK	1.49457	0.853965
Syne1	chr10:5020195-5194707	OK	3.24228	1.85249
Phyh	chr2:4918995-4938743	OK	48.1998	27.5324
Bmp3	chr5:98854438-98880960	NOTEST	0.369292	0.21064
Mrap2	chr9:87144305-87184045	OK	4.00614	2.28491
Shh	chr5:28456839-28719209	OK	10.9404	6.23915
Sntb2	chr8:106935749-107014192	OK	4.92385	2.80745
Zfp934	chr13:62516796-62558599	OK	1.23878	0.706246
Sh3bp1	chr15:78899785-78912052	NOTEST	0.476671	0.271657
Smim19	chr8:22462613-22569616	OK	15.2035	8.66286
Shank1	chr7:44310263-44358353	OK	2.89959	1.65191
0610040J01Rik	chr5:63812494-63899619	OK	3.32022	1.89146
E130008D07Rik	chr17:43146040-43158291	NOTEST	0.572881	0.326336
Fam186b	chr15:99271017-99287180	NOTEST	0.273909	0.156027
Them6	chr15:74721233-74724373	OK	151.154	86.0645
Efcab14	chr4:115738072-115777327	OK	14.0038	7.97253
Tmem245	chr4:56876012-56947429	OK	7.72542	4.39698
Cdr2l	chr11:115381915-115396132	OK	40.4617	23.0282
Ggt6	chr11:72435525-72438404	NOTEST	0.0423658	0.0241049
1700018L02Rik	chr19:29020831-29048729	NOTEST	0.196658	0.111865
Slnf4	chr11:83175185-83190216	NOTEST	0.161495	0.0917933
Sstr4	chr2:148395376-148396764	OK	1.51309	0.859453
Cfhr2	chr1:139810291-139858699	NOTEST	0.192153	0.109129
Tubb1	chr2:174450594-174458380	NOTEST	0.124514	0.0706836
Esrp2	chr8:106131182-106138722	NOTEST	0.0629423	0.0357132
Plekhh1	chr12:79029162-79103939	OK	5.90942	3.35297
Lima1	chr15:99778467-99875456	OK	5.60807	3.1818
Fxyd4	chr6:117933558-117937335	NOTEST	0.0930142	0.0527562
Sphkap	chr1:83255780-83408200	OK	9.18719	5.20773
Tenm3	chr8:48225664-48674690	OK	10.087	5.71656
Tlcd2	chr11:75468049-75470899	OK	0.869968	0.492732
Ttc30a1	chr2:75979105-75981967	OK	1.22763	0.695268
Zcwpw1	chr5:137787801-137836278	OK	4.21418	2.38538
Ttc28	chr5:110879802-111289779	OK	2.85052	1.61329
Arhgap35	chr7:16494472-16614993	OK	49.5237	28.0281
Ptprs	chr17:56412425-56476480	OK	86.8029	49.1145
Zfp423	chr8:87661809-87959595	OK	6.0219	3.40552
D630045M09Rik	chr13:73344664-73347384	NOTEST	0.0292227	0.0165197
Ccnb1ip1	chr14:50789248-50795728	NOTEST	0.0246898	0.0139518
Myo6	chr9:80165033-80311729	OK	4.85531	2.74068
Scnn1b	chr7:121865037-121918728	NOTEST	0.0129133	0.00728905
Foxc1	chr13:31806645-31810635	OK	1.21499	0.685556
Tsx	chrX:103414466-103424583	NOTEST	0.0561002	0.0316484

Matk	chr10:81252934-81262981	OK	1.29379	0.729751
Efr3a	chr15:65787040-65873812	OK	27.406	15.4579
Il15ra	chr2:11705292-11733985	OK	2.51823	1.4203
Abhd2	chr7:79273265-79361601	OK	53.6986	30.2841
Slc19a2	chr1:164249045-164265385	OK	9.14569	5.15714
Sacs	chr14:61138456-61258490	OK	7.59747	4.28367
Nfkbiz	chr16:55811376-55838641	OK	3.33983	1.88292
Sipa1l3	chr7:29320377-29505460	OK	2.67309	1.50691
Fam69b	chr2:26628456-26636497	OK	30.9107	17.4236
Qsox1	chr1:155778154-155812899	OK	23.6847	13.3431
Irak4	chr15:94543659-94568316	OK	1.17982	0.664553
Arntl	chr7:113207464-113314126	OK	0.8227	0.463352
Kcns3	chr12:11090201-11150842	OK	23.3065	13.1257
Synpo	chr18:60593989-60624305	OK	11.3266	6.37661
Myrf	chr19:10208270-10240748	OK	1.05078	0.591419
Uxt	chrX:20951664-20987349	NOTEST	0.6076	0.341969
Cyfip1	chr7:55842070-55962493	OK	20.1487	11.3352
Cldn10	chr14:118787870-118874525	NOTEST	0.327325	0.183946
1110008P14Rik	chr2:32379100-32381915	OK	170.361	95.7207
Ccdc184	chr15:98167805-98170134	OK	8.86138	4.97842
Mpp6	chr6:50110240-50198598	OK	7.39065	4.15047
Traf3	chr12:111166369-111267155	OK	9.81435	5.50877
Tmem26	chr10:68723745-68782654	NOTEST	0.147707	0.0828767
Cplx1	chr5:108518553-108550027	OK	533.362	299.185
Kcnk4	chr19:6925689-6934515	OK	5.19385	2.91195
Aph1c	chr9:66814993-66834706	OK	1.27076	0.712148
Ifnlr1	chr4:135686456-135708180	NOTEST	0.294613	0.165002
Bcl9	chr3:97203661-97227364	OK	4.64941	2.60083
Ahcyl2	chr6:29768442-29912310	OK	31.6014	17.6745
Ehd3	chr17:73804840-73832093	OK	81.9319	45.8059
Lrrc72	chr12:36208344-36253398	NOTEST	0.0755189	0.04221
Slc22a17	chr14:54906726-54913132	OK	76.319	42.6558
Duoxa1	chr2:122303548-122313730	NOTEST	0.328376	0.18347
Fancc	chr13:62964892-63431745	OK	4.445	2.48312
Arhgdig	chr17:26199182-26201350	OK	84.2727	47.0452
Hmcn1	chr1:150562501-150993435	OK	0.787963	0.439678
Rapsn	chr2:91035626-91045729	OK	1.96097	1.09408
Fam228a	chr12:4593007-4738383	NOTEST	0.106461	0.0593882
Elovl5	chr9:77917364-77984519	OK	122.516	68.3282
Gpr137c	chr14:45219716-45280976	OK	9.53005	5.31066
Pnmal1	chr7:16959794-16962320	OK	4.4747	2.49221
Bcar3	chr3:122419779-122530182	OK	7.88578	4.39193
Maged2	chrX:150806420-150814339	OK	29.8403	16.6176
Actn3	chr19:4861215-4877909	NOTEST	0.581753	0.323641
Pdzk1	chr3:96829825-96870926	NOTEST	0.0331081	0.0184165
Itm2c	chr1:85894509-85908698	OK	180.56	100.408
Rpgrip1	chr14:52110902-52197239	NOTEST	0.123612	0.0687163
Dmpk	chr7:19083848-19093820	OK	3.17166	1.76313
Olr1	chr6:129485246-129507165	NOTEST	0.0563192	0.0312969
BC055111	chr4:106590908-106617238	NOTEST	0.121336	0.0673973
Hey1	chr3:8663358-8667038	OK	13.761	7.63872
Gm13293	chr2:11338365-11398500	NOTEST	0.277579	0.154078
Dact3	chr7:16875316-16887301	OK	12.3512	6.85561

Ezr	chr17:6738130-6782780	OK	19.0796	10.5882
Chml	chr1:175662420-175692632	OK	8.37109	4.64512
Bcl11b	chr12:107910402-108003414	OK	2.85788	1.58491
Ivd	chr2:118861999-118881357	OK	12.1922	6.76126
H2-Q4	chr17:35379616-35384674	OK	6.10836	3.38525
Pnoc	chr14:65400672-65425472	NOTEST	0.134384	0.0743658
Hunk	chr16:90386396-90499553	OK	3.39394	1.87709
Tacr2	chr10:62252437-62265990	NOTEST	0.134662	0.0744687
Raver1-fdx1l	chr9:21067513-21092008	NOTEST	0.530681	0.293276
1110046J04Rik	chr13:33917917-34002794	OK	12.4647	6.88564
Il23a	chr10:128296139-128298084	NOTEST	0.118078	0.0652158
Tmem53	chr4:117251950-117268588	OK	10.358	5.71627
Skida1	chr2:18044086-18048449	OK	2.52813	1.39448
Dock10	chr1:80501067-80758553	OK	5.97374	3.29425
Edil3	chr13:88821471-89323225	OK	110.021	60.6635
Nphp4	chr4:152478141-152563184	OK	1.53465	0.846017
Cst3	chr2:148871731-148875468	OK	413.606	227.914
4833424O15Rik	chr3:117575460-117689506	OK	1.64005	0.903535
Gm711	chr2:26934068-26953496	NOTEST	0.110686	0.060952
Amigo2	chr15:97244073-97385691	OK	21.8272	12.0172
Afap1	chr5:35893318-36003922	OK	4.06615	2.23816
Dpp4	chr2:62330072-62412231	NOTEST	0.514392	0.283087
Plbd2	chr5:120476546-120503623	OK	69.4885	38.2412
Nfic	chr10:81396190-81427173	OK	77.4962	42.6293
Grb10	chr11:11930498-12037420	OK	10.8128	5.94393
Ankmy1	chr1:92870128-92902906	NOTEST	0.143853	0.0790634
Arhgef9	chrX:95048934-95166539	OK	14.8642	8.16937
Jsrp1	chr10:80808495-80813498	NOTEST	0.404915	0.222524
Pik3r6	chr11:68503018-68552698	NOTEST	0.54654	0.300301
Ctdsp2	chr10:126978716-126999975	OK	17.113	9.39949
Gemin4	chr11:76210570-76217572	OK	2.63352	1.4464
Efcc1	chr6:87730868-87755911	OK	1.58105	0.868274
Lgmn	chr12:102394097-102439697	OK	188.024	103.17
Lingo3	chr10:80832800-80844039	OK	1.79824	0.986549
Enpp5	chr17:44078845-44086561	OK	71.2358	39.0576
E530011L22Rik	chr9:121719180-121759943	OK	1.14318	0.626076
9330102E08Rik	chr6:128169699-128183803	OK	5.78629	3.16707
Grem1	chr2:113748674-113758648	NOTEST	0.0829536	0.045403
Oc90	chr15:65876052-65912287	NOTEST	0.0873939	0.0478215
Frmd7	chrX:50892644-50942710	OK	1.52925	0.836686
Il17f	chr1:20777145-20784270	NOTEST	0.0341975	0.0187008
Cnn2	chr10:79697304-80369637	OK	6.54487	3.57861
Rxrg	chr1:167598361-167639623	OK	5.54938	3.03327
Apcdd1	chr18:62922326-62953195	OK	5.39474	2.94826
Gm15408	chr5:149006961-149012776	NOTEST	0.131556	0.071896
Calu	chr6:29348105-29380513	OK	54.2177	29.6218
Phf21b	chr15:84785375-84856129	NOTEST	0.479608	0.262008
2410012M07Rik	chr9:98864766-98866580	NOTEST	0.0206778	0.0112927
Cebpe	chr14:54710362-54712174	NOTEST	0.234583	0.128053
Amt	chr9:108296921-108301597	OK	2.09799	1.14515
Dusp14	chr11:84048044-84068357	OK	3.45473	1.88562
Chgb	chr2:132781277-132795072	OK	51.5181	28.1173
Tbx19	chr1:165137852-165160773	NOTEST	0.0135404	0.00738957

Mpl	chr4:118442414-118457513	NOTEST	0.0266528	0.0145455
Gcsh	chr8:116981827-116993449	OK	53.1941	29.0117
Fam102a	chr2:32535358-32569750	OK	26.5366	14.471
2810049E08Rik	chr13:83891207-83928710	NOTEST	0.176883	0.0964056
Pmp22	chr11:62951192-63386069	OK	875.285	476.72
Cnga3	chr1:37218277-37263384	NOTEST	0.0849939	0.0462689
Tmem132d	chr5:127783490-128433077	NOTEST	0.769699	0.41887
Focad	chr4:88094629-88411011	OK	6.14994	3.34627
Ptprb	chr10:116301373-116389538	OK	4.56605	2.48336
Slc24a2	chr4:86983125-87230540	OK	63.3139	34.4208
Chic1	chrX:103356475-103396118	OK	2.81505	1.53031
Glipr1	chr10:111972694-111997264	NOTEST	0.143143	0.0777917
Wwp1	chr4:19608299-19709004	OK	12.2852	6.67441
Ttc30a2	chr2:75976171-75978179	NOTEST	0.212216	0.115283
Gpr83	chr9:14860253-14869499	OK	1.40791	0.764635
F11r	chr1:171437560-171464593	OK	4.21769	2.28974
Susd4	chr1:182764905-182895654	OK	37.9244	20.5801
Farp2	chr1:93512103-93635727	OK	5.84425	3.16787
Synj1	chr16:90936096-91044379	OK	51.9966	28.1823
Galnt2	chr8:124231393-124345723	OK	10.3342	5.59986
Prdm11	chr2:92974905-93046144	NOTEST	0.298944	0.161948
Dbpht2	chr12:74297473-74300468	OK	3.33474	1.8064
Six5	chr7:19094543-19098345	OK	1.24553	0.674653
Mctp1	chr13:76384960-77031810	OK	13.3755	7.24454
Jun	chr4:95049035-95052222	OK	118.207	64.0068
Cnksr1	chr4:134228041-134238399	NOTEST	0.0326175	0.0176448
Nynrin	chr14:55854114-55874736	OK	2.29563	1.2417
Sdc3	chr4:130792536-130826318	OK	64.1488	34.694
Tm7sf3	chr6:146602275-146634592	OK	22.0922	11.9474
Fam131c	chr4:141368191-141384174	OK	1.26785	0.685634
Slc30a1	chr1:191894071-191913247	OK	6.8155	3.68552
Cd14	chr18:36725066-36726654	OK	1.42143	0.76826
Irs2	chr8:10986963-11054541	OK	10.3221	5.57399
Lzts2	chr19:45015175-45045772	OK	9.42414	5.08573
E130012A19Rik	chr11:97627386-97629716	NOTEST	0.49247	0.265689
Acot2	chr12:83987860-83993875	OK	2.80065	1.51095
Tor1aip1	chr1:156004598-156068859	OK	8.1805	4.41029
Ackr1	chr1:173331885-173333503	OK	114.735	61.8528
A830052D11Rik	chr18:32359056-32435740	NOTEST	0.67789	0.365423
Snap25	chr2:136713449-136782428	OK	744.637	401.372
Lefty1	chr1:180935038-180938401	NOTEST	0.270439	0.145751
Smad9	chr3:54755581-54801269	OK	17.909	9.65131
Ptpn13	chr5:103425191-103598361	OK	7.20173	3.88003
Slc39a12	chr2:14388397-14494977	NOTEST	0.0342841	0.0184703
AV051173	chr4:116684964-116700000	NOTEST	0.243038	0.130879
Paqr8	chr1:20890621-20938756	OK	22.2662	11.989
Abcg8	chr17:84658233-84700333	NOTEST	0.0934003	0.0502868
D8Ert82e	chr8:36094827-36147787	OK	1.81893	0.979273
Rxfp3	chr15:11033716-11037968	NOTEST	0.16416	0.0883686
Vstm2a	chr11:16257723-16284551	OK	11.385	6.12494
Gpr17	chr18:31931506-31958619	NOTEST	0.00729239	0.00392239
Paqr9	chr9:95559816-95562121	OK	30.5211	16.4079
Mreg	chr1:72159232-72212307	OK	3.0102	1.61771

Ano4	chr10:88948993-89257790	OK	14.9185	8.01579
Pcdhb10	chr18:36930284-37841872	OK	1.80327	0.968675
Gpr64	chrX:160390689-160498076	OK	16.4661	8.84449
Shf	chr2:122348891-122368918	OK	14.3839	7.72607
Cd84	chr1:171839696-171890718	NOTEST	0.257978	0.138479
Dennd4c	chr4:86748554-86850602	OK	2.10708	1.13105
Caly	chr7:140069879-140082548	OK	8.6109	4.62119
Cd40	chr2:165055635-165071654	NOTEST	0.204256	0.109593
Camkk1	chr11:73019007-73042065	OK	12.8457	6.89116
Nanog	chr6:122707488-122714633	NOTEST	0.124553	0.0667725
Aga	chr8:53511701-53523422	OK	12.4625	6.6807
Heatr5a	chr12:51875872-51971321	OK	15.5287	8.31561
Slc26a7	chr4:14505196-14621778	OK	0.868067	0.464733
Spatc1l	chr10:76562271-76570200	NOTEST	0.0322513	0.0172647
Gria4	chr9:4417892-4796234	OK	29.0596	15.5532
Kcnk2	chr1:189207929-189402273	OK	6.61575	3.53945
St8sia1	chr6:142814230-142964452	OK	18.9406	10.1307
Gbp3	chr3:142560051-142573212	OK	4.23989	2.2677
Wdfy2	chr14:62837689-62956886	OK	13.5815	7.26086
Tas1r1	chr4:152027913-152038490	NOTEST	0.18387	0.0982962
Cbln4	chr2:172036335-172043466	NOTEST	0.380179	0.203155
Xkr8	chr4:132724903-132732546	OK	2.01538	1.0767
Prtg	chr9:72807273-72917307	NOTEST	0.0802769	0.0428871
Pdk3	chrX:93764615-93832095	OK	27.5094	14.6859
Cdrt4	chr11:62951192-63386069	NOTEST	0.205272	0.109578
Sirpb1b	chr3:15495753-15575065	NOTEST	0.0282423	0.015074
L3mbtl4	chr17:68273796-68780086	OK	1.45982	0.778998
Zdhhc22	chr12:86983380-86988676	OK	10.2419	5.46437
Galnt6	chr15:100689914-100729376	OK	0.883603	0.470669
Zfp41	chr15:75616683-75625300	OK	1.56	0.830519
Lss	chr10:76531626-76562226	OK	13.2072	7.02835
Fgd4	chr16:16421977-16560196	OK	3.48315	1.8526
Zfp651	chr9:121760032-121771742	OK	9.34925	4.9723
Vps37b	chr5:124004640-124032260	OK	4.67992	2.48897
Olf1r18	chr9:20313891-20336094	NOTEST	0.0360035	0.019135
Mfsd7a	chr5:108441053-108448891	OK	1.01244	0.538052
Trhr	chr15:44196134-44235912	NOTEST	0.0921216	0.0489081
Cxxc5	chr18:35829817-35861688	OK	15.0501	7.98991
Fkbp7	chr2:76663033-76673098	OK	6.20035	3.29075
Pak6	chr2:118663576-118698020	NOTEST	0.0626704	0.0332589
Nhlh2	chr3:102010144-102015492	OK	0.940022	0.498442
Scgn	chr13:23953456-23991214	OK	1.31318	0.696208
Lrrc23	chr6:124769862-124779718	NOTEST	0.193994	0.102849
Prss32	chr17:23853771-23859776	NOTEST	0.171336	0.0907279
Meox1	chr11:101877509-101894354	NOTEST	0.477004	0.252554
Gpihbp1	chr15:75596657-75598213	OK	1.9781	1.04727
Ier5	chr1:155096366-155099636	OK	2.07185	1.0967
Eddm3b	chr14:51116552-51117791	NOTEST	0.0332414	0.0175938
Bend6	chr1:33852051-33907621	OK	56.9043	30.1094
Lmtk2	chr5:144100435-144188204	OK	8.53348	4.51441
Irf8	chr8:120736375-120756692	NOTEST	0.622277	0.329185
Cers6	chr2:68861556-69111290	OK	3.73984	1.9781
Zfp704	chr3:9427009-9610085	OK	2.09286	1.10671

Gadd45b	chr10:80930090-80932204	OK	9.23552	4.88345
Nkd1	chr8:88521343-88594887	OK	2.28544	1.20828
Gm3317	chr14:5163641-5170292	NOTEST	0.0223497	0.0118152
Irgc1	chr7:24431925-24445682	NOTEST	0.0211402	0.0111743
9930111J21Rik1	chr11:48945351-48979398	NOTEST	0.230172	0.121661
Tmem254a,Tmem2	chr14:26202666-26207041	NOTEST	0.599959	0.317074
Slc44a3	chr3:121459527-121532344	NOTEST	0.185073	0.0977444
Haghl	chr17:25773775-25785586	OK	56.8316	30.0128
Pdghd	chr9:6168611-6377519	OK	1.35957	0.717838
Rdm1	chr11:101627948-101636081	OK	4.88847	2.58068
Sash3	chrX:48146526-48161563	NOTEST	0.60648	0.320081
C8g	chr2:25498649-25505470	OK	1.00931	0.532654
Ttc39b	chr4:83220300-83324189	OK	12.6052	6.65157
Kcnk10	chr12:98433993-98577940	OK	3.3404	1.76252
Cstad	chr2:30595043-30608945	NOTEST	0.752191	0.396811
Slc29a4	chr5:142702100-142722490	OK	21.1664	11.1627
Gm5544	chr3:97930172-97967018	NOTEST	0.251865	0.132824
Ppt1	chr4:122836226-122859175	OK	34.5838	18.2331
Dpy19l3	chr7:35685499-35754454	OK	1.60756	0.847228
Nyx	chrX:13467671-13489313	NOTEST	0.172048	0.0906568
Xpnp2	chrX:48108724-48136981	NOTEST	0.255305	0.134509
Cyp2e1	chr7:140763831-140774977	NOTEST	0.477278	0.251454
Fbxo32	chr15:58175878-58214892	OK	2.7693	1.4589
1700007L15Rik	chr16:33379853-33380736	NOTEST	0.556635	0.293155
H2-DMa	chr17:34122831-34139101	OK	6.23419	3.28031
Gm6644	chr6:34303929-34317489	LOWDAT	1.01954	0.536367
Rgl1	chr1:152517529-152625111	OK	22.3681	11.7663
St8sia4	chr1:95587681-95667594	OK	2.912	1.53101
1700063D05Rik	chr9:41206154-41217627	NOTEST	0.0726336	0.0381829
Slc25a29	chr12:108825877-108835876	OK	5.94745	3.12521
Camk2g	chr14:20734872-20794088	OK	127.027	66.7463
Npc1	chr18:12168729-12236386	OK	16.4243	8.6294
Slc26a2	chr18:61196853-61211596	OK	1.69457	0.890049
Wfdc6a	chr2:164579518-164585447	NOTEST	0.115752	0.0607897
Gm1604b	chr17:8038509-8101228	NOTEST	0.255056	0.133947
Iqgap1	chr7:80711582-80803331	OK	10.0614	5.28366
Shroom1	chr11:53457204-53467766	NOTEST	0.361308	0.189681
L3mbtl3	chr10:26275451-26375185	OK	1.9808	1.03921
Epha10	chr4:124881784-124917800	OK	1.06752	0.559946
Pank1	chr19:34806935-34879455	OK	3.64282	1.91009
Tal2	chr4:53779704-53786885	NOTEST	0.198844	0.104209
Gpr153	chr4:152274361-152285337	OK	21.3428	11.1727
Fbxo31	chr8:121549442-121578806	OK	61.5806	32.2298
Pigz	chr16:31933850-31946046	OK	15.0259	7.85891
Hipk2	chr6:38697839-38876190	OK	3.22725	1.68793
Ppm1m	chr9:106194952-106199233	OK	3.66948	1.91867
1810011O10Rik	chr8:24437615-24438946	OK	9.19387	4.80675
Mtss1l	chr8:110721483-110741400	OK	18.9029	9.8827
Mfsd3	chr15:76701541-76710559	OK	4.75944	2.48781
Tsc22d3	chrX:140539528-140600522	OK	132.738	69.3709
Slc7a15	chr12:8528482-8599066	NOTEST	0.569028	0.29737
Arhgef17	chr7:100869745-100932161	OK	18.6709	9.74366
Fam26e	chr10:34037596-34109815	OK	4.50829	2.3526

Kctd1	chr18:14968684-15151446	OK	7.46294	3.89244
2810055G20Rik	chr16:77329327-77558428	NOTEST	0.153567	0.0800749
Lmo1	chr7:109138571-109170308	OK	9.31748	4.85653
Nnmt	chr9:48591889-48605077	NOTEST	0.276341	0.144026
Dclk1	chr3:55242525-55539068	OK	48.4825	25.2572
Ilvbl	chr10:78574499-78584502	OK	14.6343	7.62261
Ckb	chr12:111669354-111672338	OK	344.38	179.287
Ggct	chr6:54985094-54992867	OK	7.93236	4.12915
Six6	chr12:72939944-72944899	NOTEST	0.0185948	0.00967594
Serpinb6b	chr13:32965512-32979037	OK	1.03548	0.538755
Slc1a2	chr2:102658682-102790784	NOTEST	0.69671	0.362482
Lamc2	chr1:153122755-153186447	NOTEST	0.585929	0.304578
Pxdn	chr12:29938035-30017658	OK	7.20376	3.74416
Fuca1	chr4:135920725-135940300	OK	15.8614	8.2363
Lfng	chr5:140607340-140615545	OK	2.94209	1.5274
Gm766	chr6:142785780-142804466	NOTEST	0.0827422	0.042946
Zfp711	chrX:112600525-112635062	OK	0.886938	0.460103
Kansl1l	chr1:66700892-66817595	OK	3.3707	1.74799
Ndufaf2	chr13:108052588-108158625	OK	42.405	21.9887
Slc18a1	chr8:69037707-69113717	OK	1.26865	0.656628
Rnf215	chr11:4135159-4160293	OK	14.1334	7.31497
Dcstamp	chr15:39745929-39760938	NOTEST	0.101162	0.052305
1810007D17Rik	chr19:58606328-58629753	NOTEST	0.781608	0.404083
Pygb	chr2:150786795-150831748	OK	331.909	171.42
Gpr63	chr4:24973418-25009233	OK	1.12994	0.58341
Pcdhac2	chr18:36930284-37841872	OK	44.557	23.0055
Tmem150a	chr6:72355482-72362381	OK	1.98518	1.02446
Gm16432	chr1:177991434-178048291	NOTEST	0.248918	0.128449
Mmp15	chr8:95352336-95374293	OK	46.7876	24.1396
Gm6277	chr18:11821087-11945627	OK	0.94835	0.488939
Pcdhb7	chr18:36930284-37841872	OK	1.37506	0.708875
Prrt3	chr6:113493638-113501931	OK	16.4018	8.45517
Adam32	chr8:24836142-24948804	NOTEST	0.202606	0.104381
Per1	chr11:69098955-69109957	OK	8.33332	4.29207
Gpr18	chr14:121878605-122021035	NOTEST	0.0319844	0.0164597
Ier2	chr8:84661330-84662852	OK	24.7225	12.7226
Lgals1	chr15:78926724-78930465	OK	173.94	89.4927
Tfap2d	chr1:19103021-19166332	NOTEST	0.02292	0.0117844
Pcolce2	chr9:95637627-95695551	OK	20.6551	10.6191
Oxa1l	chr14:54360840-54417702	OK	15.1702	7.79896
Lrp6	chr6:134446477-134566913	OK	9.23492	4.74724
Guca1a	chr17:47394557-47400584	NOTEST	0.0530817	0.0272844
Ctnnd2	chr15:30172592-31029343	OK	21.1986	10.877
Kcnh4	chr11:100740377-100759778	NOTEST	0.0197664	0.0101414
Rex2	chr4:147021849-147060799	NOTEST	0.00932579	0.00478435
Fam69a	chr5:107900527-107987077	OK	4.63609	2.37736
Prkg2	chr5:98929772-99037079	OK	3.86257	1.97923
Cds1	chr5:101765129-101823852	OK	28.9997	14.8583
Map6d1	chr16:20233308-20241358	OK	1.39476	0.714153
Grin3b	chr10:79697304-80369637	NOTEST	0.0809714	0.0414588
Oxtr	chr6:112473683-112489808	NOTEST	0.47804	0.244674
Nfatc1	chr18:80606204-80713071	OK	1.50117	0.767806
4930515G01Rik	chr5:114773732-114774983	NOTEST	0.381104	0.194851

Slc16a9	chr10:70245275-70285951	OK	4.9077	2.50814
Zhx2	chr15:57694666-57839832	OK	3.46251	1.76924
Rpph1	chr14:50807446-50807771	OK	3.63895	1.85927
Laptm5	chr4:130913333-130936148	OK	2.95711	1.51025
3010001F23Rik	chrX:152368571-152416702	OK	0.974795	0.497839
Nmnat1	chr4:149468786-149485142	OK	5.62547	2.87247
Tmem254b	chr14:26202666-26207041	LOWDAT	7.84776	4.00661
Slc26a5	chr5:21809000-21865604	NOTEST	0.1008	0.0514593
Mylk4	chr13:32700826-32781779	NOTEST	0.0685035	0.0349629
Ndr3	chr2:156927341-156992111	OK	61.122	31.1575
Tenc1	chr15:102102987-102116401	OK	6.80555	3.46767
Plxnb2	chr15:89155545-89180788	OK	7.08937	3.61166
Oit3	chr10:59422959-59441779	NOTEST	0.0924907	0.0470985
Cntnap5a	chr1:115685136-116580674	OK	4.16028	2.11804
Atpaf1	chr4:115784813-115812314	OK	6.55136	3.335
Rgs22	chr15:36009476-36140400	NOTEST	0.0281224	0.0143153
Lrrc49	chr9:60587234-60688134	OK	84.8574	43.1855
C530008M17Rik	chr5:76840598-76873554	OK	14.0471	7.14613
Naip2	chr13:100144062-100202122	NOTEST	0.184589	0.0938999
Fbxl21	chr13:56522507-56537786	OK	2.76008	1.40314
Eya1	chr1:14168957-14310199	NOTEST	0.137684	0.0699591
Actn2	chr13:12269426-12340732	NOTEST	0.221834	0.112685
Timp2	chr11:118301060-118355411	OK	368.712	187.25
Cenpm	chr15:82233775-82244747	OK	1.43694	0.729307
Gm6981	chr9:52002060-52088738	OK	2.01743	1.02391
Kit	chr5:75574986-75656721	OK	23.8542	12.1066
Hipk4	chr7:27523260-27531174	NOTEST	0.227702	0.115526
Gpr3	chr4:133209339-133212536	OK	2.15405	1.09286
Ces1a	chr8:93020214-93048192	NOTEST	0.0217003	0.0109914
Ado	chr10:67544510-67548955	OK	10.8193	5.4738
Echdc2	chr4:108165436-108179308	OK	1.51578	0.76619
Nrgn	chr9:37544492-37552745	OK	0.9608	0.485649
Il21r	chr7:125603428-125633570	NOTEST	0.17266	0.0872286
Rnf157	chr11:116336344-116413032	OK	118.216	59.7213
Smim4	chr14:31124504-31128930	OK	11.8872	6.00473
Arl5b	chr2:15055361-15079191	OK	6.57365	3.31669
Adgb	chr10:10335702-10472314	NOTEST	0.654435	0.330105
Selm	chr11:3514701-3517351	OK	88.1792	44.4575
Phldb2	chr16:45746230-45844378	OK	2.85451	1.43854
Ccdc102a	chr8:94902868-94918098	OK	2.98231	1.50224
Ankdd1b	chr13:96416133-96471160	NOTEST	0.809806	0.407849
Myrip	chr9:120304072-120474834	OK	2.4143	1.21515
C1qtnf7	chr5:43515568-43616586	OK	3.81157	1.91798
Ssmem1	chr6:30509848-30520253	NOTEST	0.117398	0.0590601
Adcy2	chr13:68620042-68999541	OK	11.7739	5.9228
Agpat3	chr10:78271562-78351700	OK	48.7026	24.4961
Hes1	chr16:30065356-30067796	OK	6.37874	3.20511
Sema7a	chr9:57940134-57962865	OK	43.3853	21.7957
Phlda1	chr10:111506285-111508649	OK	11.7005	5.87795
Glb1l	chr1:75192159-75210778	OK	1.73198	0.869809
Slc11a1	chr1:74375202-74386051	NOTEST	0.513676	0.257964
Masp1	chr16:23451784-23520590	OK	2.10985	1.0595
Stxbp3b	chr19:9557605-9559248	OK	3.10244	1.55779

Ugt1a6b	chr1:88055410-88220002	NOTEST	0.599624	0.301037
Kcnj2	chr11:111066163-111076825	OK	1.60602	0.806217
4930568G15Rik	chr1:165066616-165091930	NOTEST	0.0457539	0.0229645
Psat1	chr19:15905122-15925059	OK	32.4496	16.2831
Bckdhb	chr9:83948780-84124240	OK	15.851	7.9522
Zfp191	chr18:24012266-24020771	OK	16.377	8.21567
Tcf12	chr9:71844251-72111819	OK	9.35937	4.6949
Mical2	chr7:112225835-112355194	OK	8.48064	4.25317
Adcy9	chr16:4284885-4420498	OK	11.9706	5.99053
Palm3	chr8:84021473-84042575	OK	28.1291	14.0748
BC035044	chr6:128848043-128898167	NOTEST	0.136112	0.068092
Pld1	chr3:27938679-28133362	OK	2.72421	1.36116
Rasal2	chr1:157135182-157420236	OK	11.599	5.79522
Aldh2	chr5:121567686-121593824	OK	66.1298	33.0229
4930590J08Rik	chr6:91904232-91950725	NOTEST	0.0113996	0.00568972
Tert	chr13:73627000-73649041	NOTEST	0.0990252	0.0493926
Tjp2	chr19:24094501-24225026	OK	5.10703	2.54718
4932418E24Rik	chr2:26271646-26294557	NOTEST	0.0123754	0.00616992
Zfp286	chr11:62778386-62789417	OK	1.71015	0.852608
Dnm3os	chr1:161987301-162478034	NOTEST	0.00471103	0.00234863
Tgfb2	chr1:186623185-186705992	OK	3.26363	1.62489
Mab21l2	chr3:86224689-86782694	OK	7.09614	3.53258
Fyb	chr15:6579846-6665608	NOTEST	0.459319	0.228407
Zswim2	chr2:83915078-83941226	NOTEST	0.0640645	0.0318417
Hcn1	chr13:117602319-117981028	OK	23.6555	11.7425
Casc1	chr6:145115635-145210970	NOTEST	0.209701	0.103944
Ggt5	chr10:75589380-75616968	OK	1.38932	0.688294
Prr15l	chr11:96929323-96935647	NOTEST	0.413808	0.204859
Gpr22	chr12:31654868-31950535	OK	2.6859	1.32963
Reep3	chr10:67005074-67096988	OK	10.6478	5.26767
Klhl41	chr2:69670119-69684239	NOTEST	0.147706	0.0730628
Gcnt4	chr13:96924688-96950914	NOTEST	0.79248	0.391876
Chst7	chrX:20059569-20097520	NOTEST	0.31112	0.153833
Abra	chr15:41865292-41869720	NOTEST	0.0564528	0.0278917
Gm6938	chrX:21312209-21334727	NOTEST	0.825066	0.407612
Hlf	chr11:90336534-90390917	OK	2.72783	1.34725
Nthl1	chr17:24632681-24638838	OK	2.15153	1.06241
Tmem198b	chr10:128790909-128804370	OK	3.97419	1.96154
Fam126b	chr1:58522805-58586333	OK	16.4941	8.14049
Sord	chr2:122234838-122265337	OK	16.0903	7.94071
Naip1	chr13:100407769-100452864	OK	0.899991	0.443893
Gdf11	chr10:128884545-128891718	OK	11.0703	5.4599
Kif27	chr13:58287515-58354862	NOTEST	0.138686	0.0683606
Ccr10	chr11:101172997-101175443	NOTEST	0.818688	0.403398
Krt23	chr11:99477972-99493110	NOTEST	0.0553916	0.0272535
Nckap5	chr1:125913635-126830632	NOTEST	0.198436	0.0976306
Figl2	chr15:101050191-101054399	OK	1.82006	0.895161
Scx	chr15:76380512-76477269	OK	5.99756	2.94977
Cd80	chr16:38458932-38486932	NOTEST	0.163471	0.0803885
Vegfc	chr8:54077531-54186454	NOTEST	0.831025	0.407958
Ccdc155	chr7:45183675-45204892	NOTEST	0.307669	0.150964
Styk1	chr6:131299143-131313827	NOTEST	0.0279789	0.0137282
Vav1	chr17:57279099-57329236	NOTEST	0.209515	0.102725

Hsd11b1	chr1:193221640-193264045	NOTEST	0.401561	0.196832
Lama5	chr2:180176372-180225859	OK	1.61045	0.788946
Ces2e	chr8:104926259-104934672	NOTEST	0.348919	0.170798
Luzp1	chr4:136469760-136549318	OK	22.9614	11.2342
Ctbp2	chr7:132987010-133123483	OK	4.45705	2.17959
Nudt7	chr8:114133573-114152312	OK	16.1364	7.8814
Rnaset2b	chr17:8128590-8147832	OK	5.2354	2.55628
Rab11fip5	chr6:85334961-85374634	OK	44.1667	21.5502
Atp2b2	chr6:113745667-114042080	OK	41.2503	20.1219
Rab40b	chr11:121356120-121388251	OK	1.70202	0.829244
Fzd4	chr7:89404365-89410110	OK	3.7421	1.82302
Cecr6	chr6:120488938-120493807	NOTEST	0.067455	0.0328331
4930523C07Rik	chr1:160044379-160078586	NOTEST	0.725356	0.353014
Ar	chrX:98149749-98317147	OK	4.84678	2.35785
Acss1	chr2:150618110-150668932	OK	2.98293	1.45065
Dlc1	chr8:36567738-36952442	OK	13.9867	6.79585
Itpka	chr2:119742336-119751253	NOTEST	0.158309	0.076862
AA536875	chr14:123168502-123176176	NOTEST	0.0221518	0.0107548
Gm1141	chrX:71932437-71940871	NOTEST	0.0385133	0.0186959
Atp2b3	chrX:73503085-73573270	OK	21.0347	10.2092
5830416P10Rik	chr19:53441211-53464796	NOTEST	0.0688499	0.0334095
Plod1	chr4:147909752-147936776	OK	11.7884	5.7197
Lamb2	chr9:108479861-108490530	OK	9.51887	4.61646
Fam171a1	chr2:3118387-3227809	OK	20.8079	10.0873
Inhba	chr13:16014474-16027211	NOTEST	0.414345	0.20084
Bcl2l12	chr7:44986899-44997579	OK	1.45419	0.704748
Myo7a	chr7:98051053-98119493	OK	3.8692	1.87452
Bmp6	chr13:38345715-38499728	OK	1.28493	0.622084
Bambi-ps1	chr2:122466582-122467797	NOTEST	0.302452	0.14642
Slc2a13	chr15:91267690-91573261	OK	2.64464	1.27951
Parp14	chr16:35832877-35871382	OK	3.05105	1.47596
Atp8a2	chr14:59647740-60086834	OK	67.7877	32.7494
1700096K18Rik	chr5:25530017-25531466	OK	1.08007	0.521776
D630032N06Rik	chr11:85235165-85238304	NOTEST	0.281331	0.135862
Gabre	chrX:72257431-72274721	NOTEST	0.0749139	0.0361665
Ifitm3	chr7:141009589-141010744	OK	50.5241	24.3859
Npnt	chr3:132881744-132950291	OK	0.951896	0.459351
Hist1h2bh	chr13:23542922-23543444	NOTEST	0.382572	0.184609
Ifngr1	chr10:19591957-19610225	OK	16.0809	7.75901
Peli2	chr14:48120868-48260883	OK	9.09826	4.38897
Kcnk3	chr5:30573986-30625270	OK	6.80124	3.2793
Irf4	chr13:30749257-30766927	NOTEST	0.135234	0.0651749
Pde4b	chr4:102254741-102607262	OK	6.73167	3.24255
2810403D21Rik	chrX:108834477-108886896	NOTEST	0.667457	0.321488
Lrrc32	chr7:98494221-98501830	OK	1.4091	0.678458
1700112E06Rik	chr14:22019711-23094571	OK	2.58525	1.2446
Cep85l	chr10:53278080-53379851	OK	4.28932	2.06369
Begain	chr12:109032181-109068217	OK	2.96248	1.42524
Eps8	chr6:137477244-137649285	OK	1.96644	0.945921
Snn	chr16:11066297-11134532	OK	47.9723	23.0761
Pacs1	chr19:5133684-5273119	OK	9.13783	4.3951
Vwf	chr6:125552947-125686679	OK	7.63825	3.67308
Slc15a3	chr19:10842543-10869779	NOTEST	0.228341	0.10974

Inpp5j	chr11:3494271-3504821	OK	19.1604	9.20597
Bmpr1b	chr3:141837135-142169228	OK	1.49324	0.717317
Hs3st6	chr17:24753002-24758684	OK	1.56562	0.751268
Fmo2	chr1:162875046-162898712	OK	4.33327	2.07751
Gyg	chr3:20122083-20155116	OK	94.5626	45.331
39325	chr5:93093456-93174958	OK	16.7801	8.04127
Slc30a8	chr15:52295552-52335733	NOTEST	0.219705	0.105262
Egr4	chr6:85511121-85513542	NOTEST	0.123208	0.0589267
Rem2	chr14:54476099-54480434	OK	10.7027	5.11437
Cd180	chr13:102693557-102706631	NOTEST	0.445	0.212572
Rnd3	chr2:51130438-51149111	OK	9.61164	4.59127
Manba	chr3:135485610-135571403	OK	2.95734	1.41111
Bach1	chr16:87698953-87733346	OK	5.14557	2.44816
Neto1	chr18:86394951-86501897	OK	3.54697	1.68753
Itfg3	chr17:26212691-26244242	OK	19.8154	9.42624
Slc39a14	chr14:70303466-70351424	OK	6.43985	3.0627
Tnfrsf21	chr17:43016554-43089188	OK	107.557	51.1507
Wfs1	chr5:36966103-36988982	OK	28.4161	13.5051
Ly6d	chr15:74762055-74763567	NOTEST	0.912429	0.433284
Myliip	chr13:45389741-45411940	OK	4.26616	2.02332
Rapgef5	chr12:117516478-117756978	OK	11.0949	5.26012
Gas2	chr7:51879144-51994458	OK	7.49744	3.54963
Apbb2	chr5:66298724-66618817	OK	21.9977	10.4003
3110070M22Rik	chr13:119487256-119610459	NOTEST	0.420138	0.198603
Slc12a8	chr16:33518328-33664135	NOTEST	0.232415	0.109822
G630025P09Rik	chr11:69803594-69806038	NOTEST	0.229583	0.108476
Gdf6	chr4:9844371-9862345	NOTEST	0.0115513	0.00545518
Zfp652os	chr11:95700105-95712754	OK	2.57394	1.2149
Adcy8	chr15:64699034-64922296	OK	3.25042	1.53348
Plxna2	chr1:194619828-194816868	OK	21.5376	10.1588
Ncan	chr8:70093084-70120844	OK	3.29796	1.55536
Ppm1h	chr10:122678761-122945793	OK	29.6762	13.9937
Aldh3a1	chr11:61208741-61218416	NOTEST	0.231536	0.109161
Hebp2	chr10:18540122-18546076	OK	29.7194	14.006
Rab30	chr7:92741713-92837117	OK	9.25727	4.36239
Unc5c	chr3:141465563-141834922	OK	3.0689	1.44576
Dsg1a	chr18:20310872-20343353	NOTEST	0.0345673	0.0162801
Comp	chr8:70373547-70382066	OK	6.39873	3.01342
Rpl3l	chr17:24727828-24736149	NOTEST	0.110018	0.0518032
Rxfp2	chr5:150018674-150082186	NOTEST	0.0311896	0.0146692
Cryz	chr3:154576519-154623182	OK	3.69307	1.73686
B230208H11Rik	chr10:12916645-12923127	NOTEST	0.213266	0.100297
Grpr	chrX:163513903-163549647	NOTEST	0.36158	0.16986
Bcl9l	chr9:44499135-44510412	OK	4.00613	1.88083
Opcml	chr9:27791268-28925048	OK	23.5295	11.0465
Kif1c	chr11:70700547-70731970	OK	7.19399	3.37544
Zyx	chr6:42349827-42380558	OK	31.3461	14.7074
Dennd5b	chr6:148988068-149101680	OK	4.88425	2.28987
Rgs9	chr11:109225354-109298181	OK	2.74358	1.28485
Spdya	chr17:71552060-71598761	NOTEST	0.283513	0.132729
Kifc3	chr8:95081200-95142540	OK	8.78105	4.11033
Fndc1	chr17:7738567-7804974	OK	1.88294	0.880934
Plcb4	chr2:135741829-136013068	OK	12.9215	6.04479

Foxj1	chr11:116330703-116335354	OK	9.39115	4.39158
Nfkb1	chr3:135584654-135691547	OK	7.86843	3.67912
A330009N23Rik	chr15:101221190-101232756	NOTEST	0.739816	0.34579
Cnih3	chr1:181352627-181460641	OK	2.04386	0.955163
Ptrf	chr11:100956735-100970617	OK	27.973	13.0721
6430548M08Rik	chr8:120114151-120165307	OK	53.167	24.8385
Psmc3ip	chr11:101087289-101095435	OK	1.0239	0.478283
AA986860	chr1:130731975-130744622	OK	1.98308	0.926226
Tmem38b	chr4:53826044-53862018	OK	3.59047	1.67622
Gm4461	chr17:33215260-33216351	NOTEST	0.137796	0.0643295
Spry1	chr3:37639949-37644599	OK	1.65206	0.771225
Col6a5	chr9:105856069-105960643	NOTEST	0.27816	0.129801
Dlg3	chrX:100767721-100818410	OK	2.73294	1.2751
Gm16062	chr11:59810079-59839767	OK	1.77172	0.826625
Npb	chr11:120608476-120609100	NOTEST	0.456184	0.212788
1810062O18Rik	chr14:20499313-20618354	NOTEST	0.471979	0.220141
2610316D01Rik	chr3:45280438-45378260	OK	2.22962	1.0382
Il11ra1	chr4:41760442-41774176	OK	6.17228	2.87143
Csdc2	chr15:81936758-81950941	OK	34.772	16.1715
Agl	chr3:116739998-116808166	OK	25.1387	11.6845
Tjp1	chr7:65296164-65371244	OK	12.7833	5.94156
Rab26	chr17:24529053-24533747	NOTEST	0.377589	0.175411
D430036J16Rik	chr9:81631391-81645156	OK	1.51128	0.70182
Tax1bp3	chr11:73177082-73182046	OK	4.08288	1.89568
Slc6a12	chr6:121346696-121365773	NOTEST	0.104525	0.0485204
Cadps2	chr6:23262773-23839421	OK	12.6614	5.87663
Csmd2	chr4:127988043-128567656	OK	2.46209	1.14054
Tmprss2	chr16:97564681-97611195	NOTEST	0.0166943	0.00772311
Gm16740	chr3:95181765-95236424	NOTEST	0.294719	0.136341
Vgll4	chr6:114862091-114921752	OK	11.1172	5.14184
1700086L19Rik	chr12:74284275-74295950	OK	8.62843	3.98937
C77370	chrX:104077434-104201117	NOTEST	0.570601	0.263796
Shisa4	chr1:135371455-135375063	OK	47.1132	21.7808
Dennd1a	chr2:37776248-38287384	OK	4.58072	2.11701
4930513N10Rik	chr8:95719450-95821728	NOTEST	0.292427	0.135063
Gprc5c	chr11:114851531-114872617	OK	15.9249	7.35424
Mmp11	chr10:75923223-75932463	OK	1.09928	0.507606
Slc35b2	chr17:45564151-45567669	OK	13.9649	6.44717
Plekhd1os	chr12:80686374-80692466	NOTEST	0.483866	0.223373
Tpbp	chr9:85842379-85847055	NOTEST	0.481509	0.222285
Hmgn1	chr16:96121587-96127725	OK	23.3538	10.7806
Nptn	chr9:58582239-58741559	OK	226.019	104.322
Wtip	chr7:34109549-34133268	OK	3.52014	1.624
Arhgap30	chr1:171388959-171410239	NOTEST	0.395346	0.182138
Rtp1	chr16:23429132-23433960	NOTEST	0.0426302	0.0196329
Nln	chr13:104023438-104109614	OK	3.83862	1.76716
1700008J07Rik	chr7:127510437-127512869	NOTEST	0.567615	0.261267
Crtac1	chr19:42283036-42431783	OK	15.4585	7.11016
Spink10	chr18:62548910-62741387	OK	1.9253	0.885094
Oprd1	chr4:132110725-132144486	OK	4.83553	2.22282
Cdk17	chr10:93160875-93241342	OK	11.7422	5.39181
Bend7	chr2:4717830-4802146	OK	1.27216	0.584116
Abo	chr2:26842502-26864995	NOTEST	0.1332	0.0611442

Zfp365	chr10:67886104-67912662	OK	27.0487	12.4159
Stx17	chr4:48124918-48186506	OK	4.44223	2.03872
R3hcc1	chr14:69697303-69707580	OK	13.3636	6.13156
Casc4	chr2:121866969-121936207	OK	24.4771	11.2218
Hcn2	chr10:79697304-80369637	OK	56.2079	25.7498
Zfp456	chr13:67363583-67375763	NOTEST	0.190403	0.0872151
Nyap2	chr1:81077316-81271651	OK	1.826	0.83595
Slc4a4	chr5:88887259-89239656	OK	22.3113	10.213
Casr	chr16:36493695-36562134	NOTEST	0.726919	0.332513
Pck1	chr2:173153072-173159253	NOTEST	0.105825	0.0483826
Cd276	chr9:58524299-58540940	OK	2.20904	1.00934
Kcnn4	chr7:24370262-24385212	OK	7.90658	3.61177
Cys1	chr12:24665837-24681795	OK	1.48655	0.679012
Fuom	chr7:140097814-140102441	OK	2.51471	1.1486
Slc16a13	chr11:70216791-70220994	OK	1.16674	0.532165
Rps6ka1	chr4:133847290-133887797	OK	5.09872	2.32523
Asb13	chr13:3634031-3651779	OK	28.4598	12.9675
Myl6b	chr10:128494156-128498685	OK	9.81871	4.47341
B3gnt9	chr8:105225187-105255153	OK	0.934343	0.425653
Col5a3	chr9:20770049-20815034	OK	15.2275	6.93316
Nefl	chr14:68083883-68087737	OK	2464.02	1121.4
Cyp2f2	chr7:27119954-27133660	NOTEST	0.10626	0.0482692
Has1	chr17:17843325-17855188	NOTEST	0.217912	0.0989225
Nlrp4f	chr13:65177110-65205716	NOTEST	0.117054	0.0530403
Kitl	chr10:100015823-100100412	OK	23.8046	10.7671
Map1b	chr13:99421463-99516602	OK	752.194	340.085
Spred1	chr2:117121070-117182277	OK	21.1438	9.54993
Bzrap1	chr11:87760540-87785928	OK	2.96488	1.33859
Simc1	chr13:54503804-54565382	OK	1.54184	0.695783
Oprl1	chr2:181715015-181720985	OK	8.79847	3.96903
Ablim2	chr5:35757879-35884979	OK	13.1203	5.91776
Leprel2	chr6:124841094-124857687	OK	2.98217	1.34481
Adck3	chr1:179961088-180196020	OK	7.32722	3.30407
Ccdc37	chr6:90403735-90428480	OK	3.75328	1.69215
D830031N03Rik	chr4:123349632-123684360	OK	1.9583	0.882411
Fgfr11	chr5:108694228-108706950	OK	1.95175	0.878642
6330409D20Rik	chr2:32721054-32755007	OK	3.13933	1.41307
Otud7b	chr3:96080595-96161129	OK	12.9196	5.81468
Pilrb1	chr5:137852146-137858049	NOTEST	0.061915	0.0278565
Trim66	chr7:109449000-109508134	OK	0.920344	0.41351
Zfp493	chr13:67779692-67789080	NOTEST	0.51196	0.229993
Dnaaf3	chr7:4522956-4532442	NOTEST	0.603453	0.271074
Reck	chr4:43875529-43944806	OK	3.10622	1.39531
Rwdd2a	chr9:86571987-86574899	OK	4.19345	1.88324
Slc1a5	chr7:16781345-16798274	OK	13.2701	5.95676
Ryk	chr9:102834919-102908307	OK	7.60275	3.41213
Nfib	chr4:82290172-82505779	OK	10.7334	4.81675
Rnf165	chr18:77456109-77565136	OK	1.29519	0.580987
Hsd17b11	chr5:103989764-104021796	OK	62.2216	27.8939
Rara	chr11:98937695-98974942	OK	2.25803	1.01202
Echdc3	chr2:6188464-6321611	NOTEST	0.145942	0.0653646
Klhl4	chrX:114474332-114561129	NOTEST	0.704263	0.315203
Clybl	chr14:122181693-122451146	OK	18.9167	8.45687

Dnmt3b	chr2:153649448-153687730	NOTEST	0.151173	0.0674808
Zak	chr2:72285636-72442610	OK	8.6358	3.85058
Dmkn	chr7:30763755-30781066	NOTEST	0.135902	0.0605944
Ddah2	chr17:35059034-35062099	OK	16.5143	7.35969
Aldh1a3	chr7:66390892-66427477	OK	1.01282	0.451308
Alpk3	chr7:81057599-81105612	NOTEST	0.0315986	0.0140663
Limd1	chr9:123478700-123521552	OK	5.81346	2.58579
Tbx18	chr9:87702799-87731260	NOTEST	0.160646	0.0714502
Adcy3	chr12:4133396-4240123	OK	7.76877	3.45525
Map10	chr8:125669817-125673365	OK	0.879692	0.391151
F5	chr1:164115263-164220274	NOTEST	0.15287	0.0679711
Hhipl2	chr1:183418502-183437053	NOTEST	0.316301	0.14063
Catip	chr1:74362107-74369321	NOTEST	0.197151	0.0876359
Serpib6c	chr13:33879815-33905708	NOTEST	0.420064	0.186718
4833419F23Rik	chr18:4353546-4368945	NOTEST	0.204133	0.0907331
Gm8898	chr2:176521003-176533821	NOTEST	0.281265	0.124967
Cyp1b1	chr17:79706952-79715041	OK	6.99411	3.10691
Muc15	chr2:110655200-110950244	NOTEST	0.0761635	0.0338185
Cc2d2a	chr5:43662378-43740970	OK	2.75383	1.22185
Soga1	chr2:157010441-157079265	OK	5.06129	2.24445
Aplnr	chr2:85136359-85139923	OK	1.60359	0.711033
Oat	chr7:132557474-132576398	OK	52.5569	23.2978
Fbxo27	chr7:28692848-28699337	OK	3.51377	1.55608
Cables1	chr18:11821087-11945627	OK	2.28416	1.01132
Myom1	chr17:71019556-71126856	NOTEST	0.601711	0.266411
Ybx2	chr11:69935898-69941599	NOTEST	0.320027	0.14167
Tubb6	chr18:67390730-67402749	OK	3.79037	1.67723
Cd96	chr16:46035656-46120248	OK	0.875812	0.38731
Pkd1l3	chr8:109614516-109693294	NOTEST	0.0776152	0.0343218
Extl2	chr3:116007448-116029016	OK	37.6849	16.6537
Dexi	chr16:10530206-10543054	OK	32.5904	14.3993
Tnfrsf8	chr4:145268975-145315147	NOTEST	0.0376349	0.0166231
Pcdh19	chrX:133582860-133688993	OK	1.27419	0.562756
Nhsl1	chr10:18407674-18533891	OK	2.39766	1.05752
Trabd2b	chr4:114406723-114615098	NOTEST	0.598553	0.263894
Fgf1	chr18:38838672-38971274	OK	223.184	98.2757
Fam213b	chr4:154896429-154899043	OK	47.9384	21.0977
Atp1b1	chr1:164307674-164458355	OK	730.843	321.556
Secisbp2l	chr2:125736985-125782870	OK	49.5331	21.7868
Asah2	chr19:31984650-32103140	OK	10.2727	4.51344
1700009P17Rik	chr1:171121660-171126967	OK	1.19087	0.523099
Ifi204	chr1:173747293-173766919	NOTEST	0.34394	0.151054
Dgat2	chr7:99153662-99182713	OK	7.94136	3.48702
Lin7b	chr7:45339125-45370564	OK	18.0444	7.91307
Toporsos	chr4:40259605-40270221	OK	6.85363	3.00439
Resp18	chr1:75272201-75278380	OK	105.52	46.2174
Rab13	chr3:90220816-90225963	OK	4.00949	1.75596
Krt1	chr15:101845425-101850786	NOTEST	0.469528	0.205629
Col16a1	chr4:130047839-130099277	OK	5.88578	2.57723
Gm6787	chrX:8097086-8106701	NOTEST	0.0832531	0.0364509
Cables2	chr2:180258538-180273465	OK	11.0985	4.85462
Gm14403	chr2:177498225-177512311	OK	1.82438	0.797756
Sh3rf1	chr8:61224170-61396072	OK	3.24142	1.41659

2310065F04Rik	chr11:67112460-67120080	NOTEST	0.12023	0.0525054
Ppard	chr17:28232753-28301469	OK	4.88331	2.13129
Gm19705	chr1:136683395-136690805	OK	2.40827	1.05078
Arhgef37	chr18:61493793-61536536	OK	1.66115	0.724391
4933412E12Rik	chr10:116950561-116963279	OK	0.892747	0.389265
2610037D02Rik	chr15:96182799-96203470	NOTEST	0.44169	0.192526
Fbxo2	chr4:148160667-148166417	OK	204.747	89.2248
Zfp114	chr7:24175044-24182318	NOTEST	0.225564	0.0982787
Scarb1	chr5:125277086-125341094	OK	11.3725	4.95366
Tmprss9	chr10:80879815-80900969	NOTEST	0.498021	0.216922
Adam21	chr12:81558583-81568474	NOTEST	0.216711	0.0943578
Ly9	chr1:171588612-171607410	NOTEST	0.559223	0.243245
Aox3	chr1:58113135-58200452	NOTEST	0.124317	0.054042
Mansc1	chr6:134609206-134632488	OK	5.38926	2.34268
BC021767	chr3:94660588-94667152	NOTEST	0.139799	0.0607548
Fbll1	chr11:35797379-35798884	OK	3.31943	1.442
Megf6	chr4:154170712-154275721	NOTEST	0.371036	0.161123
Mpp2	chr11:102057016-102088515	OK	7.66258	3.3273
Nrsn2	chr2:152345668-152376566	OK	5.17561	2.24538
Aldoc	chr11:78324197-78326760	OK	92.7866	40.2529
Tmem121	chr12:113185902-113189522	OK	3.25731	1.41264
Tlr6	chr5:64953094-64960034	NOTEST	0.166841	0.0723268
4930556M19Rik	chr15:10714835-10790123	NOTEST	0.511721	0.221808
Zfp773	chr7:7130677-7136755	NOTEST	0.17658	0.0765091
Socs3	chr11:117966086-117969366	OK	36.5794	15.8162
Slc38a1	chr15:96571417-96642913	OK	15.4975	6.69967
2610100L16Rik	chr3:17789920-17800071	NOTEST	0.325462	0.140676
BC033916	chr17:33905134-33906675	NOTEST	0.144327	0.0623559
Plcb1	chr2:134786163-135475258	OK	8.63125	3.72633
Prickle1	chr15:93499113-93595891	OK	2.52812	1.09028
Gm6498	chr14:48120868-48260883	NOTEST	0.0361079	0.0155657
Plxdc1	chr11:97923236-97986446	OK	2.16412	0.932622
Bmp4	chr14:46379523-46390599	OK	0.872484	0.375822
1810062G17Rik	chr3:36475936-36482299	NOTEST	0.729082	0.313866
Grm5	chr7:87584167-88135063	NOTEST	0.311132	0.133837
Tigd4	chr3:84593573-84597032	NOTEST	0.0819021	0.0351817
Sqrdl	chr2:122765358-122809551	OK	3.52168	1.51198
Eli2	chr13:75707483-75772358	OK	11.3074	4.85331
Gsto2	chr19:47865544-47886305	NOTEST	0.698543	0.29971
Sost	chr11:101962457-101967015	NOTEST	0.0455025	0.0195212
Ntn5	chr7:45677685-45694556	OK	1.62515	0.697036
Nav2	chr7:48959072-49610088	OK	2.05533	0.880985
Higd1b	chr11:102836295-102838039	NOTEST	0.663298	0.284038
Cobll1	chr2:65088338-65238626	OK	4.16761	1.78416
Npffr2	chr5:89527428-89583740	NOTEST	0.133337	0.0569585
6030498E09Rik	chrX:38772779-38962688	NOTEST	0.232325	0.0991628
Dock5	chr14:67751927-67933572	OK	13.8497	5.90966
Rbm20	chr19:53677305-53867080	NOTEST	0.34237	0.146009
Ms4a4d	chr19:11536848-11558466	NOTEST	0.135458	0.0577631
Zfhx2os	chr14:55061658-55092048	NOTEST	0.241245	0.102852
Slc4a10	chr2:62046514-62326743	OK	2.06749	0.881393
Ltb4r1	chr14:55765961-55768492	NOTEST	0.143754	0.0612772
Lmo4	chr3:144188529-144205255	OK	22.557	9.60908

Dcun1d4	chr5:73481054-73560794	OK	19.5436	8.32429
Pycard	chr7:127991372-127993867	NOTEST	0.310056	0.131957
LOC100861978	chr4_JH584293_random:7077-2	NOTEST	0.383008	0.162925
Stk32c	chr7:139103637-139242973	OK	23.0583	9.8032
Pcgf5	chr19:36379066-36456204	OK	2.15629	0.916391
Gbp11	chr5:105323025-105346472	NOTEST	0.153519	0.065234
Slc6a17	chr3:107467547-107518018	OK	57.9275	24.5995
Spsb1	chr4:149896283-149955006	OK	12.1764	5.16616
Zfp467	chr6:48427691-48445825	OK	4.76792	2.01922
Nr3c2	chr8:76902507-77243639	OK	5.54409	2.34776
Marcksl1	chr4:129513580-129515981	OK	11.1254	4.70922
Btbd11	chr10:85386813-85660292	OK	5.72653	2.42337
Mdk	chr2:91922188-91932297	OK	7.55847	3.19784
Prox2	chr12:85086813-85106431	NOTEST	0.5691	0.24075
Crispld1	chr1:17727416-17766207	OK	3.01222	1.27348
Slco3a1	chr7:74275417-74554780	OK	18.7021	7.89807
Ngfr	chr11:95568820-95587698	OK	254.907	107.554
Cd1d1	chr3:86995835-86999340	OK	2.04562	0.862985
Sik2	chr9:50856923-51009073	OK	1.91271	0.806881
Cdh13	chr8:118283754-119323448	OK	4.00808	1.69026
Gstt1	chr10:75783812-75798584	OK	11.9991	5.05486
Ttc23	chr7:67647409-67726576	OK	2.18912	0.921863
Abcg2	chr6:58596671-58692451	OK	39.9816	16.8365
Tnni2	chr7:142442467-142444405	NOTEST	0.429006	0.180612
Slc9a1	chr4:133369771-133423698	OK	17.4539	7.3448
Gli1	chr10:127321963-127341579	NOTEST	0.7522	0.316282
Cnr1	chr4:33924631-33948831	OK	12.0143	5.04595
Eda2r	chrX:97333840-97377209	NOTEST	0.217053	0.0910379
Tlcd1	chr11:78178148-78180819	OK	7.00038	2.93449
Pik3cg	chr12:32173396-32208649	NOTEST	0.246285	0.1032
4930539E08Rik	chr17:28896394-28915324	NOTEST	0.0544524	0.0228127
4930579F01Rik	chr3:138164134-138186713	NOTEST	0.0622984	0.0260944
Gnai1	chr5:18265134-18360413	OK	59.7728	25.0302
Stc2	chr11:31359440-31370061	NOTEST	0.0546568	0.0228846
Hoxb7	chr11:96286645-96290163	OK	6.16815	2.58246
Fam83e	chr7:45721219-45729492	NOTEST	0.0202335	0.00846932
Adamts13	chr2:26973415-27009625	NOTEST	0.0202048	0.00845491
Cndp1	chr18:84610508-84650095	NOTEST	0.103956	0.0434897
Maob	chrX:16709280-16817366	OK	1.59088	0.66534
Nos1ap	chr1:170317495-170589849	OK	3.24548	1.35431
1700007B14Rik	chr8:75448693-75984507	NOTEST	0.142823	0.0594989
Angptl2	chr2:33133418-33371494	OK	8.0046	3.33435
Ephb2	chr4:136653609-136836011	OK	1.47959	0.61625
Map7d2	chrX:159414577-159498947	OK	189.067	78.678
Mettl9	chr7:121034444-121076835	OK	12.8391	5.3408
Gm10789	chr16:90142236-90146827	NOTEST	0.0752216	0.0312521
Nf1	chr11:79339891-79581609	OK	21.407	8.8908
Evi2b	chr11:79339891-79581609	NOTEST	0.207259	0.0860537
Rbp2	chr9:98490536-98509771	OK	3.48717	1.44735
Pde4a	chr9:21165713-21226281	OK	2.34539	0.973043
2410131K14Rik	chr5:118245226-118263114	OK	7.50736	3.11353
Edaradd	chr13:12471208-12520450	NOTEST	0.045761	0.0189704
Kcnrg	chr14:61598225-61682373	NOTEST	0.224482	0.0930433

Bfsp2	chr9:103423577-103480328	NOTEST	0.264469	0.109522
Gem	chr4:11704446-11714993	OK	1.46647	0.606581
Fbxo44	chr4:148152798-148160094	OK	38.0899	15.7522
Adamtsl4	chr3:95676203-95687858	OK	2.47141	1.02195
Greb1l	chr18:10325178-10562941	OK	1.41416	0.584216
Pkdcc	chr17:83215282-83225069	OK	3.92672	1.62219
Nr4a2	chr2:57107225-57124003	OK	4.39484	1.81495
Trp53i11	chr2:93187583-93201757	OK	2.24739	0.927168
Plat	chr8:22757743-22782848	OK	7.65492	3.15578
Kcnq5	chr1:21398402-21961942	OK	6.93256	2.85743
2310005G13Rik	chr16:57036966-57071346	NOTEST	0.0706717	0.0291216
Gm20063	chr12:61499659-61521820	NOTEST	0.590651	0.243382
E330009J07Rik	chr6:40407497-40436133	OK	2.2031	0.906407
Prickle2	chr6:92370891-92706184	OK	9.82021	4.03931
Tgif1	chr17:70844204-70853532	OK	1.86188	0.765835
Abi3bp	chr16:56477845-56690135	OK	2.84211	1.16791
Pros1	chr16:62854333-62929340	OK	6.38568	2.62319
Gm4890	chr8:79295077-79307774	NOTEST	0.152761	0.062738
Slc20a2	chr8:22462613-22569616	OK	7.21514	2.96192
Cyp27a1	chr1:74713573-74737890	OK	0.886839	0.364058
Fam189a1	chr7:64756095-65156528	OK	1.51837	0.622241
Htr3b	chr9:48935007-48964990	OK	11.7577	4.81663
Nkain2	chr10:31689318-32889915	OK	12.7566	5.22559
Ermp1	chr19:29609882-29648420	OK	48.227	19.7498
Mtfp1	chr11:4091480-4095431	OK	10.1266	4.1458
Mpzl1	chr1:165592180-165634541	OK	14.4805	5.92511
Cfh	chr1:140085854-140183411	OK	9.70794	3.96591
Slc35d2	chr13:64096309-64129330	OK	1.74969	0.714007
Gabra4	chr5:71569733-71658308	NOTEST	0.397022	0.162005
Golim4	chr3:75876182-75956949	OK	17.9355	7.31659
Aifm2	chr10:61715262-61783864	OK	2.12272	0.865855
Pou4f3	chr18:42394596-42396093	OK	8.7204	3.55514
Susd1	chr4:59314682-59438633	OK	1.19925	0.488882
Henmt1	chr3:108940083-108960776	NOTEST	0.119147	0.0485596
Elmo1	chr13:20090506-20608356	OK	26.8146	10.9256
Acsl6	chr11:54303823-54361539	OK	48.3725	19.7084
Lurap1	chr4:116136727-116144616	OK	6.01706	2.44896
Rel2	chr18:37955558-37969731	OK	71.0642	28.9049
Nod1	chr6:54923941-54972612	OK	4.40517	1.79139
Tiam1	chr16:89787110-89974699	OK	2.53203	1.0272
Espnl	chr1:91322074-91348303	NOTEST	0.0853837	0.0346363
6430710C18Rik	chr2:72745845-72813717	NOTEST	0.0387795	0.0157226
Laptm4b	chr15:34238025-34284295	OK	59.0952	23.9561
Ttc34	chr4:154856199-154867127	NOTEST	0.281831	0.114199
Ceacam1	chr7:25376818-25566417	OK	2.01814	0.817547
Sifn8	chr11:83002157-83020810	NOTEST	0.332353	0.134635
Gm2a	chr11:55097984-55113028	OK	10.9721	4.44262
Gbp2	chr3:142620662-142638008	OK	4.56311	1.84721
Gas6	chr8:13465373-13494535	OK	78.763	31.8719
C1qtnf2	chr11:43474305-43491525	OK	2.40452	0.972596
1700047M11Rik	chr1:182300833-182303289	NOTEST	0.330407	0.133644
Lrrk2	chr15:91673223-91816124	OK	10.8543	4.38769
Mx1	chr16:97447034-97462906	NOTEST	0.251186	0.101532

Gm12504	chr4:44121892-44124123	NOTEST	0.0887121	0.0358573
Cttnbp2nl	chr3:105001914-105053146	OK	12.5393	5.06693
Yes1	chr5:32611170-32687066	OK	5.56137	2.24703
Kazn	chr4:142102389-142239401	OK	15.8538	6.40483
AW549542	chr5:119570128-119580358	NOTEST	0.639077	0.257864
Cpt1a	chr19:3323300-3385733	OK	54.1929	21.8541
Mum1l1	chrX:139210043-139238335	OK	0.766845	0.308988
Pik3c2b	chr1:133046011-133108688	OK	1.55275	0.625613
Fndc3b	chr3:27416161-27710439	OK	5.1013	2.05428
Tmc7	chr7:118535843-118584686	OK	6.78059	2.73036
Tdrd5	chr1:156255295-156303606	NOTEST	0.0912291	0.0367264
Itga6	chr2:71786938-71858427	OK	20.0813	8.08349
36769	chr11:87578388-87590539	OK	28.005	11.2672
Slc24a3	chr2:145242610-145641939	OK	11.8614	4.76739
Zic2	chr14:122475383-122480328	OK	0.996757	0.400484
Scd3	chr19:44203287-44244016	NOTEST	0.32161	0.129192
Pyroxd2	chr19:42725857-42752775	NOTEST	0.255704	0.102692
Lipk	chr19:34008253-34047903	OK	0.843618	0.338637
Ephb4	chr5:137350108-137374522	OK	3.23139	1.29651
Cd27	chr6:125224211-125239934	NOTEST	0.0789149	0.0316502
Plekhh2	chr17:84511894-84622142	NOTEST	0.782953	0.313916
Foxs1	chr2:152931897-152933208	NOTEST	0.432153	0.172936
Slc29a2	chr19:5024005-5031972	OK	3.62131	1.44857
Mtap	chr4:89137369-89181090	OK	11.6586	4.65551
Hrk	chr5:118169763-118189478	NOTEST	0.143658	0.0573392
A230009B12Rik	chr17:10403011-10840191	NOTEST	0.115297	0.046018
Pkp1	chr1:135871394-135919024	NOTEST	0.0594595	0.0237183
Robo3	chr9:37416044-37433175	NOTEST	0.022762	0.00906671
Zdbf2	chr1:63182570-63314575	NOTEST	0.446501	0.177682
Ggnbp1	chr17:27018034-27036378	OK	0.777758	0.309483
Fbxo15	chr18:84935024-84981392	NOTEST	0.0992928	0.0394854
Ppap2a	chr13:112800776-112927380	OK	54.0447	21.4821
Stk10	chr11:32533265-32624595	OK	2.50371	0.995126
Gm11762	chr11:119548629-119569046	NOTEST	0.831884	0.330422
Htr1b	chr9:81631391-81645156	OK	6.60054	2.62054
Srd5a2	chr17:74017705-74047916	OK	2.67789	1.062
Tcirg1	chr19:3896049-3907133	OK	3.85464	1.52737
Hoxd1	chr2:74762979-74765142	OK	16.6988	6.61489
Plekhg1	chr10:3740376-3967302	OK	6.82457	2.70296
Ccdc69	chr11:55049737-55078131	NOTEST	0.211078	0.0835233
Ccl3	chr11:83647842-83649378	NOTEST	0.333981	0.132091
Aatk	chr11:120007315-120047145	OK	60.6649	23.9899
Adamts18	chr8:113698136-113848839	NOTEST	0.117941	0.0466287
Ccdc24	chr4:117835257-117872470	NOTEST	0.0936707	0.0370312
Tgfa	chr6:86195250-86275449	OK	4.23818	1.67489
Calcoco2	chr11:96098915-96111962	NOTEST	0.0541149	0.0213833
Epha4	chr1:77367184-77515088	OK	1.94869	0.769856
Dtx4	chr19:12466335-12501996	OK	5.4597	2.15665
Smpd3	chr8:106252547-106337988	OK	12.1851	4.81322
Csrnp1	chr9:119971165-119984658	OK	5.14864	2.03128
Cilp2	chr8:69880365-69887392	NOTEST	0.163973	0.0646876
Gpr123	chr7:139834173-139878088	OK	1.77156	0.698736
4931406C07Rik	chr9:15283336-15357788	OK	10.8699	4.28656

Ifitm10	chr7:142326109-142372259	OK	1.40258	0.552639
Dact1	chr12:71309883-71320107	OK	3.5317	1.39121
Magix	chrX:7673165-7681251	OK	0.940253	0.370323
Phyhip	chr14:70457516-70468824	OK	2.98881	1.1765
Gal3st3	chr19:5298330-5308739	OK	1.70913	0.671613
Ckmt1	chr2:121358640-121380940	OK	213.358	83.8295
Txnip	chr3:96555767-96566801	OK	37.6929	14.8018
Sall2	chr14:52311176-52328670	OK	8.74472	3.42676
4931408D14Rik	chr19:37258425-37264095	NOTEST	0.16241	0.0636106
Slc25a34	chr4:141618824-141623834	NOTEST	0.246822	0.0966414
Gm9899	chr5:30573986-30625270	NOTEST	0.588972	0.230542
Cers1	chr8:70315774-70353273	LOWDAT	14.4819	5.6679
Cd226	chr18:89197426-89270327	NOTEST	0.0744473	0.029106
Nos1	chr5:117867118-117953813	OK	2.4925	0.97374
Gm14169	chr2:156609197-156613422	NOTEST	0.260286	0.10167
Ripply2	chr9:87015536-87019916	NOTEST	0.701557	0.273895
Hykk	chr9:54917289-54949924	OK	1.34699	0.525717
Ikbip	chr10:91083038-91102613	OK	10.3041	4.01849
9330117012Rik	chr18:54611743-54639870	NOTEST	0.122428	0.0476821
Trim12a	chr7:104299896-104324838	OK	1.37067	0.5336
Tbx3os2	chr5:119685087-119691218	OK	3.71424	1.44594
P2rx5	chr11:73160529-73172687	OK	6.04563	2.35216
Gm14379	chrX:7375924-7378042	NOTEST	0.181214	0.0704491
Pcdh17	chr14:84443562-84537060	OK	7.00822	2.72374
Zfp36	chr7:28376783-28379228	OK	58.0225	22.5454
Psph	chr5:129765557-129787253	OK	9.1155	3.5406
Msi1	chr5:115429684-115454202	OK	3.99671	1.55217
Msln	chr17:25748612-25754327	NOTEST	0.596286	0.231516
Tcf23	chr5:30933142-31348845	NOTEST	0.0129355	0.0050201
Rassf10	chr7:112953961-112957458	OK	1.13021	0.438428
Ctns	chr11:73183132-73199019	OK	11.6342	4.51044
Cttnbp2	chr6:18366476-18514825	OK	2.76259	1.0703
Hspa1l	chr17:34972702-34979228	NOTEST	0.16142	0.0624798
Wscd2	chr5:113550419-113589725	OK	1.46231	0.566001
Glr3	chr3:80843598-80913660	OK	76.1778	29.4547
Plin1	chr7:79721163-79732776	NOTEST	0.030481	0.0117746
Gipc3	chr10:81337761-81343266	NOTEST	0.553864	0.213931
Fam13a	chr6:58933535-59024502	OK	7.30391	2.8205
Ccnd2	chr6:127125708-127212419	OK	3.40109	1.3129
Airn	chr17:12682405-12868143	OK	3.29328	1.27076
Ptprd	chr4:75941236-78211895	OK	5.41246	2.08741
Crim1	chr17:78200247-78418152	OK	6.92804	2.67145
Klrg2	chr6:38626659-38637239	OK	1.55126	0.597917
Slc4a2	chr5:24425231-24440947	OK	24.6259	9.48744
Gdnf	chr15:7811010-7837575	NOTEST	0.0965937	0.0372132
Jam2	chr16:84774122-84826375	OK	16.866	6.49747
Adamts1	chr16:85793827-85803115	OK	5.9316	2.28407
Exd1	chr2:119519403-119547627	NOTEST	0.619571	0.238516
Ksr1	chr11:79014800-79146354	OK	5.23715	2.01611
Rest	chr5:77265493-77283697	OK	1.86859	0.718315
4921508D12Rik	chr2:132424740-132452499	NOTEST	0.0580004	0.0222909
Pwwp2b	chr7:139248481-139267253	OK	5.20483	1.99934
Kcna10	chr3:107183142-107195721	NOTEST	0.118882	0.0456495

Csad	chr15:102176997-102189043	OK	6.66299	2.55594
Magee2	chrX:104854951-104857267	OK	2.91156	1.11671
Cit	chr5:115845655-116006341	OK	2.52211	0.967165
Cntnap2	chr6:45060060-47301371	OK	53.0097	20.3186
Igfn1	chr1:135953577-136006342	NOTEST	0.0170099	0.00651791
Atp11a	chr8:12757015-12868728	OK	105.764	40.517
Rapgef3	chr15:97744769-97767666	OK	1.87126	0.715954
Hc	chr2:34983330-35061441	NOTEST	0.247928	0.0948544
Atp8b1	chr18:64528978-64661000	NOTEST	0.456586	0.174619
Rnd2	chr11:101468337-101471306	OK	31.1892	11.9276
Gpr1	chr1:63182570-63314575	NOTEST	0.443166	0.169423
Zfp536	chr7:37479108-37769752	OK	3.30428	1.2628
Cdkn2c	chr4:109660875-109665372	OK	2.91469	1.11357
Il1rap	chr16:26581704-26755502	OK	3.20212	1.2233
Fam184b	chr5:45529704-45645469	OK	1.76865	0.675601
Il12rb1	chr8:70808448-70821423	NOTEST	0.0605552	0.0231307
Lrp1	chr10:127538157-127621148	OK	13.0741	4.99233
Cd81	chr7:143021783-143067930	OK	105.319	40.1968
Slc44a5	chr3:153973435-154271720	NOTEST	0.0996514	0.0380336
Zfp599	chr9:22055459-22389206	NOTEST	0.245188	0.0935634
Chchd10	chr10:75935572-75940672	OK	79.5787	30.335
Ccdc157	chr11:4135159-4160293	OK	7.93645	3.02455
Megf9	chr4:70431926-70534928	OK	40.8033	15.5433
Cryba4	chr5:112246532-112252502	NOTEST	0.413314	0.157408
Celsr2	chr3:108390847-108415494	OK	9.02004	3.43379
Dmbx1	chr4:115915118-115939926	NOTEST	0.0600304	0.0228489
Fzd9	chr5:135248937-135251047	NOTEST	0.330178	0.125673
Tdrd1	chr19:56826208-56870012	NOTEST	0.0256258	0.00975105
Tmem71	chr15:66526211-66561046	NOTEST	0.289556	0.110174
Kcnd2	chr6:21216108-21729805	OK	1.00037	0.380627
Dlx4	chr11:95140446-95159047	NOTEST	0.0887639	0.0337518
Nmbr	chr10:14760288-14770556	NOTEST	0.148407	0.0563932
Tmem56	chr3:121202009-121263316	OK	34.9266	13.2718
C2cd4c	chr10:79606853-79614025	OK	2.14081	0.812901
Sox13	chr1:133382299-133424212	OK	3.21712	1.22109
Cdkl4	chr17:80523549-80563834	OK	1.25423	0.475276
Ache	chr5:137288253-137294466	OK	62.0343	23.4999
Ctso	chr3:81932615-81956725	OK	5.43632	2.0592
Sulf1	chr1:12692429-12860372	OK	10.002	3.7886
C130030K03Rik	chr10:49093680-49095843	NOTEST	0.736827	0.279095
Iqub	chr6:24444864-24515067	NOTEST	0.109051	0.0412504
Myh3	chr11:67078299-67102291	NOTEST	0.069746	0.02638
9030025P20Rik	chr17:14964188-15022449	NOTEST	0.347973	0.131563
Fam65c	chr2:167980785-168010593	NOTEST	0.767948	0.290261
Sema4g	chr19:44989343-45003395	OK	3.1535	1.19179
5031414D18Rik	chr14:75004109-75388146	NOTEST	0.178677	0.0675188
Igsf6	chr7:121034444-121076835	NOTEST	0.268553	0.101477
BC064078	chr6:128993019-129006649	OK	1.17244	0.442561
Elf3	chr1:135253573-135258472	NOTEST	0.12917	0.0487448
Abcb1b	chr5:8798146-8866314	NOTEST	0.665642	0.251129
Itgae	chr11:73090594-73147449	NOTEST	0.117656	0.044366
Mtmr10	chr7:64287669-64340806	OK	4.26284	1.60731
Espn	chr4:152120875-152152207	NOTEST	0.502488	0.18944

Vat1l	chr8:114205639-114374070	OK	115.437	43.5114
Gm4951	chr18:60212076-60247820	NOTEST	0.430726	0.162249
Scnn1a	chr6:125321339-125344942	NOTEST	0.211739	0.0797103
Soat1	chr1:156428107-156474328	OK	8.62368	3.24481
B930018H19Rik	chr8:34589419-34640316	NOTEST	0.346912	0.130474
Sphk1	chr11:116531910-116536675	OK	3.12588	1.17501
Adamts2	chr11:50602084-50807573	OK	4.08387	1.53487
Hgf	chr5:16553494-16619439	OK	4.1966	1.57637
Vash2	chr1:190947645-190979296	OK	1.38312	0.519481
Entpd1	chr19:40659793-40741602	OK	6.35125	2.38472
B130024G19Rik	chr7:70351949-70411146	NOTEST	0.51266	0.192484
Rimk1a	chr4:119465284-119492598	OK	56.1137	21.0567
E230025N22Rik	chr18:36684922-36695925	NOTEST	0.106949	0.0401225
Btbd17	chr11:114790668-114795892	NOTEST	0.0506426	0.0189905
Ntrk3	chr7:78192113-78577838	OK	29.22	10.957
Akr1c19	chr13:4233739-4248359	NOTEST	0.152087	0.0570144
Dpyd	chr3:118562177-119432918	OK	4.6563	1.74479
2010300C02Rik	chr1:37611675-37719811	OK	1.09705	0.411066
Fam57b	chr7:126816884-126830219	OK	111.33	41.7024
Myo1f	chr17:33555706-33607764	NOTEST	0.28517	0.106776
Dydc2	chr14:41049208-41069074	OK	2.03304	0.760731
Fam20a	chr11:109672925-109722256	OK	3.92008	1.46536
Sec24d	chr3:123267495-123365636	OK	5.9026	2.20543
Cfb	chr17:34856373-34862514	NOTEST	0.638896	0.238679
Nkx6-2	chr7:139389108-139582797	NOTEST	0.463218	0.172879
Gm16023	chr4:155601415-155624755	NOTEST	0.0763958	0.0284758
6030419C18Rik	chr9:58488602-58499742	OK	67.4093	25.1221
Fosb	chr7:19302695-19310045	OK	38.4316	14.3224
Psemb11	chr14:54625309-54629556	NOTEST	0.0259656	0.00967655
Cd164	chr10:41519499-41531042	OK	145.748	54.3047
Cd79b	chr11:106311340-106314529	OK	0.966679	0.360036
Tmie	chr9:110866045-110880083	NOTEST	0.641278	0.238618
B3galt1	chr2:68104671-68122882	OK	14.8136	5.51171
Cldn14	chr16:93919030-94008837	NOTEST	0.43011	0.160002
Srl	chr16:4480227-4523053	OK	2.49268	0.927194
Lpin3	chr2:160880669-160906000	NOTEST	0.157198	0.0584461
Lrig1	chr6:94500313-94700145	OK	4.96306	1.845
Cyp26a1	chr19:37697807-37701536	NOTEST	0.0332619	0.0123642
Gm2762	chr13:53393688-53455630	NOTEST	0.0822541	0.0305746
G730013B05Rik	chr16:50526244-50559459	NOTEST	0.045119	0.0167681
Sdc2	chr15:32920722-33034721	OK	12.5715	4.67019
Chd7	chr4:8690405-8868449	OK	0.907774	0.337219
Itgam	chr7:128062639-128118491	NOTEST	0.693028	0.257421
Adssl1	chr12:112620046-112641355	OK	1.22163	0.453686
Ly6h	chr15:75564744-75567182	OK	33.713	12.5092
Nab2	chr10:127642985-127666703	OK	4.95069	1.83661
Iqcd	chr5:120589022-120607113	NOTEST	0.204289	0.0756505
AW011738	chr4:156203283-156206028	OK	1.5497	0.573866
Hydin	chr8:110266976-110610253	NOTEST	0.0566283	0.0209611
Faah	chr4:115996655-116017902	OK	7.21931	2.67178
Cilp	chr9:65265179-65280605	OK	1.43947	0.532296
Clec1b	chr6:129397296-129405413	NOTEST	0.13762	0.0508213
Gm2897	chr14:3049284-3076838	NOTEST	0.0907319	0.0334994

Col6a2	chr10:76595755-76623404	OK	9.60968	3.54669
Scrt1	chr15:76516202-76522129	OK	30.2916	11.1636
Gm5535	chr2:144173149-144189290	NOTEST	0.076631	0.0282342
Esrra	chr19:6909697-6921808	OK	25.207	9.28727
A930017M01Rik	chr15:44881393-44884743	OK	1.02202	0.376267
Clvs2	chr10:33512333-33624600	OK	5.01973	1.84539
Ppp1r3a	chr6:14713821-14755274	NOTEST	0.188637	0.0692401
Map2k6	chr11:110399121-110513637	OK	4.82506	1.77102
Ifitm2	chr7:140954838-140955961	OK	28.6905	10.5216
Cebpd	chr16:15887285-16146851	OK	6.82274	2.50178
Swap70	chr7:110221702-110283506	OK	4.79387	1.75768
Tgfb1	chr7:25687001-25704996	OK	2.37831	0.871353
Dixdc1	chr9:50662752-50727984	OK	2.20378	0.807096
Tmem140	chr6:34863145-34878065	OK	2.03059	0.74304
Ppp1r3c	chr19:36731730-36736604	OK	0.882275	0.322752
Doc2a	chr7:126847552-126861463	NOTEST	0.0738737	0.0270197
Tgfb1	chr4:47353304-47414924	OK	6.26922	2.29209
Rbp7	chr4:149449701-149454968	OK	1.33616	0.488205
Casp4	chr9:5308859-5336791	NOTEST	0.731171	0.267155
Ppp1r14a	chr7:29289319-29293390	OK	1.72031	0.628528
Cnp	chr11:100574938-100581739	OK	94.8766	34.6607
C920025E04Rik	chr17:36109029-36111676	NOTEST	0.147232	0.0537838
Krt28	chr11:99365006-99374903	NOTEST	0.413678	0.151012
Mdfi	chr17:47815327-47834691	NOTEST	0.256951	0.0937873
Fam163b	chr2:27110378-27142477	OK	1.40155	0.511464
Myl2	chr5:122100979-122106854	NOTEST	0.491215	0.179253
Uckl1os	chr2:181569152-181592461	NOTEST	0.450647	0.164308
Lingo2	chr4:35706647-36951744	OK	5.6638	2.0646
Gja4	chr4:127311419-127314039	OK	2.23904	0.815737
Lacc1	chr14:77024200-77036617	OK	2.56969	0.936081
Zfp618	chr4:62965573-63134030	NOTEST	0.525243	0.191282
Vasn	chr16:4626883-4679720	OK	3.53033	1.28515
Erbp2ip	chr13:103818785-103920586	OK	7.24944	2.63632
Cntnap3	chr13:64737590-64903888	OK	2.51425	0.913857
Agap2	chr10:127078906-127093169	OK	6.54103	2.37693
Htr1d	chr4:136423523-136444401	OK	18.5369	6.73259
Mesp2	chr7:79810726-79813431	NOTEST	0.0867406	0.0314854
1810024B03Rik	chr2:127186354-127208280	NOTEST	0.10092	0.0366263
Tagln3	chr16:45711229-45724531	OK	230.343	83.5932
Sgcx	chr8:37522553-38661508	OK	2.23835	0.812159
Prr5l	chr2:101714284-101838980	NOTEST	0.251079	0.0910406
Tspan9	chr6:127961399-128143578	OK	4.86722	1.7644
Wwc2	chr8:47827605-47990551	OK	5.31608	1.92591
Klf12	chr14:99870639-100149796	OK	2.11081	0.764212
Cdc14a	chr3:116272552-116424032	OK	1.68551	0.610184
Zfp804b	chr5:6769029-7344378	NOTEST	0.265235	0.0960116
Mapkapk2	chr1:131053703-131097543	OK	14.2798	5.16772
Tnfaip8l2	chr3:95134087-95142360	NOTEST	0.306093	0.110642
Stpg2	chr3:139205892-139710299	NOTEST	0.041362	0.0149496
Nat8l	chr5:33995983-34005916	OK	105.018	37.9505
Gm11710	chr11:115031446-115037690	NOTEST	0.0831349	0.0300423
Mos	chr4:3870657-3872105	NOTEST	0.040493	0.0146272
Stbd1	chr5:92603050-92606579	OK	50.1852	18.1272

Abcd2	chr15:91145870-91191807	OK	8.68106	3.13521
Itga8	chr2:12106659-12312315	NOTEST	0.443633	0.160182
BC147527	chr13:120300391-120308841	NOTEST	0.034666	0.0125166
Cbs	chr17:31612622-31637205	NOTEST	0.0802213	0.0289461
Olf1033	chr2:86020639-86044808	NOTEST	0.111027	0.0400199
Arid5b	chr10:68095592-68278726	OK	4.14694	1.49465
Syt4	chrX:133936384-133981812	NOTEST	0.23305	0.0839436
4930507D05Rik	chr10:62429377-62451353	NOTEST	0.168987	0.0608647
Nkain3	chr4:20118873-20778668	OK	0.77157	0.277799
Tmem211	chr5:113226908-113239263	NOTEST	0.107767	0.0387959
S1pr3	chr13:51408617-51422797	OK	50.9584	18.3313
Nrk	chrX:138914429-139009090	NOTEST	0.023662	0.00850721
Tceal6	chrX:135208685-135210687	OK	9.04678	3.25228
Dach1	chr14:97786845-98169765	OK	3.66613	1.31736
Mxra7	chr11:116803399-116828046	OK	16.5252	5.93019
Fads2	chr19:10064163-10101503	OK	74.7192	26.8055
Bche	chr3:73635808-73708415	OK	4.78584	1.71333
4933427I22Rik	chr4:139926110-139943519	NOTEST	0.0949328	0.0339779
Serpinb1b	chr13:33084102-33094380	OK	8.6381	3.09122
Xrra1	chr7:99859217-99917824	NOTEST	0.239692	0.0857081
Lrrc75a	chr11:62604883-62648523	OK	2.4301	0.868875
Dnah5	chr15:28203765-28472045	NOTEST	0.027665	0.00988589
Npas3	chr12:53248676-54072175	NOTEST	0.727271	0.259873
Stab1	chr14:31134852-31168641	OK	2.28706	0.816894
Glis3	chr19:28262447-28720027	NOTEST	0.177483	0.0633638
Abhd1	chr5:30933142-31348845	NOTEST	0.493827	0.176201
Bhlhe40	chr6:108577035-108666925	OK	12.3953	4.41993
Pcx	chr19:4510471-4621752	OK	17.8705	6.37091
A730085K08Rik	chr9:122382021-122398801	NOTEST	0.14223	0.0506802
Chrna1	chr2:73563280-73580338	NOTEST	0.23879	0.0850867
Id3	chr4:136143821-136145392	OK	71.5407	25.4703
Nptx1	chr11:119538718-119547820	OK	62.0886	22.0872
Wnk2	chr13:49036301-49148328	OK	5.0459	1.79009
C2cd2	chr16:97855208-97922633	OK	9.48226	3.3614
Ppbp	chr5:90768517-90770060	NOTEST	0.469617	0.16643
Nt5dc2	chr14:31134852-31168641	OK	2.84416	1.00783
Adam12	chr7:133883198-134225097	NOTEST	0.261601	0.0926621
Acy3	chr19:3986660-3990005	OK	1.18359	0.419198
Sh3tc2	chr18:61953074-62015719	OK	2.37311	0.840366
Itgax	chr7:128129567-128150657	NOTEST	0.121767	0.0431056
Slc24a5	chr2:125068126-125123660	NOTEST	0.221398	0.0783368
Slc6a8	chrX:73673132-73682500	OK	15.5398	5.49319
1700123I01Rik	chr19:6184409-6224219	NOTEST	0.0365317	0.0129088
Gm3383	chr14:5790560-5807939	NOTEST	0.0354933	0.0125417
Klhl38	chr15:58314572-58324169	NOTEST	0.700866	0.24759
Igsf5	chr16:96361756-96422121	NOTEST	0.0790177	0.0279033
4930599N23Rik	chr6:39118472-39206773	NOTEST	0.157584	0.0556425
Wdr93	chr7:79743162-79785950	NOTEST	0.0247329	0.0087312
Mxi1	chr19:53310505-53375810	OK	10.1103	3.56674
Rimbp2	chr5:128760400-128953362	OK	5.77428	2.03486
Col9a3	chr2:180598221-180642691	NOTEST	0.664658	0.23412
Adcy1	chr11:7063488-7178505	OK	10.097	3.55615
Col6a6	chr9:105689416-105828085	NOTEST	0.135355	0.0476631

3110039I08Rik	chr9:41376560-41432079	NOTEST	0.104612	0.0368204
Snai1	chr2:167538226-167542811	NOTEST	0.499129	0.175525
Rhbdf1	chr11:32209584-32222293	OK	6.98968	2.45757
Mavs	chr2:131127411-131604824	OK	3.04227	1.06917
Snx20	chr8:88626827-88636128	NOTEST	0.195395	0.0685943
Slitrk4	chrX:64269443-64276996	OK	9.45339	3.31734
Ctxn2	chr2:125136691-125147841	NOTEST	0.724784	0.254155
Casp6	chr3:129901424-129914102	OK	2.92932	1.02672
6330416G13Rik	chr4:63560359-63586353	OK	3.2741	1.14741
Cplx2	chr13:54371348-54383917	OK	91.5765	32.083
Arhgap29	chr3:121953325-122016153	OK	5.07345	1.77595
Stc1	chr14:69029288-69041401	NOTEST	0.431422	0.150895
Car3	chr3:14863537-14872373	OK	1.13678	0.397449
Gm15441	chr3:96555767-96566801	NOTEST	0.0708294	0.0247598
Slc13a5	chr11:72241993-72266604	NOTEST	0.229632	0.0802464
Foxp2	chr6:14901348-15441977	OK	0.769817	0.268837
Cyp2j8	chr4:96444587-96507386	NOTEST	0.0944702	0.0329885
9230112J17Rik	chr9:60523966-60545882	NOTEST	0.708283	0.247307
Dusp18	chr11:3895239-3901296	OK	3.33664	1.16477
Odf1	chr15:38219202-38226735	NOTEST	0.061791	0.0215555
1810034E14Rik	chr13:64192544-64274988	NOTEST	0.137596	0.0479853
Rab3b	chr4:108879069-108972077	OK	3.55639	1.23952
Efcab12	chr6:115810728-115838412	OK	0.894439	0.311667
Kcna2	chr3:107101566-107115005	OK	69.7651	24.3011
2310069B03Rik	chr6:82877865-82881853	NOTEST	0.0402446	0.014016
Serhl	chr15:83100204-83122801	OK	6.29104	2.18976
Hcls1	chr16:36934982-36963214	OK	0.947911	0.329845
Kdm4d	chr9:14462580-14500482	OK	1.14174	0.396847
Gria3	chrX:41401300-41678601	OK	5.90801	2.05337
Pou6f2	chr13:18124959-18382039	NOTEST	0.525046	0.182448
Fcrlb	chr1:170907272-170912941	NOTEST	0.289025	0.100355
Tnfsf12	chr11:69682576-69696098	OK	9.13249	3.17063
Slc6a13	chr6:121300295-121337718	OK	0.881448	0.305929
Trim16	chr11:62820252-62842948	OK	7.65988	2.65816
Sema3f	chr9:107681501-107710475	OK	12.2461	4.24658
Igsf10	chr3:59006977-59344256	NOTEST	0.657742	0.228082
St5	chr7:109523910-109617147	OK	6.23564	2.16089
Cish	chr9:107296688-107301961	OK	7.53431	2.61018
BC051628	chr2:181220015-181222851	NOTEST	0.0446907	0.015463
Zfp385a	chr15:103313894-103340086	OK	18.6448	6.44735
Dclk2	chr3:86786149-86920884	OK	17.4125	6.0082
Prokr2	chr2:132370328-132385447	OK	3.4486	1.18969
Mab21i3	chr3:101813075-101836223	NOTEST	0.154195	0.0531782
Tcea3	chr4:136247956-136274899	NOTEST	0.598555	0.20637
Ptgs1	chr2:36230425-36252271	OK	1.13174	0.389956
Tead4	chr6:128227142-128300813	NOTEST	0.49905	0.17184
Kcnk6	chr7:29221927-29232522	NOTEST	0.333319	0.114658
Adamtsl1	chr4:86053914-86428382	OK	0.868025	0.298342
Dsg1c	chr18:20247339-20283923	NOTEST	0.0239358	0.00822571
Calr3	chr8:72424182-72443778	OK	3.4243	1.17562
Ptpn21	chr12:98676740-98737405	OK	4.22075	1.4452
A830019L24Rik	chr3:143243054-143257996	NOTEST	0.0733743	0.02512
Ccdc177	chr12:80755446-80760715	NOTEST	0.683113	0.233524

Hoxc5	chr15:103014007-103017429	NOTEST	0.436118	0.149075
Prss41	chr17:23836784-23844156	NOTEST	0.0626003	0.0213908
Cpa3	chr3:20215615-20242181	OK	1.02006	0.348308
Slc5a8	chr10:88885991-88929515	NOTEST	0.0310977	0.010618
Scn1b	chr7:31116523-31126945	OK	193.692	66.127
Pip5kl1	chr2:32575818-32583779	OK	3.10668	1.05981
Pkd2	chr5:104459456-104505819	OK	6.21872	2.12099
Per3	chr4:151003654-151044665	OK	2.6061	0.888841
Mob3b	chr4:34949073-35157484	OK	6.38812	2.17823
Mitf	chr6:97807057-98021358	OK	1.33453	0.454975
C5ar2	chr7:16234584-16244154	NOTEST	0.0660471	0.0225165
S100a1	chr3:90511033-90514330	OK	27.8945	9.50313
Riiad1	chr3:94464984-94473591	NOTEST	0.126869	0.0432111
Rab711	chr1:131867276-131872889	OK	2.64015	0.898767
Fgfr2	chr7:130162450-130266808	NOTEST	0.481417	0.163836
Insl6	chr19:29321353-29325318	OK	1.51558	0.515557
Gm13710	chr2:84500747-84506873	NOTEST	0.0857594	0.0291722
Wipi1	chr11:109573520-109611389	OK	11.3462	3.85929
Gdpd2	chrX:100729846-100738899	OK	1.48788	0.505205
9530036011Rik	chr5:28456839-28719209	NOTEST	0.32069	0.10887
Slc41a1	chr1:131828011-131848864	OK	7.79671	2.64652
Tgfr2	chr9:116087694-116175363	OK	10.3232	3.50313
Spata9	chr13:75967738-75998968	NOTEST	0.0633193	0.0214689
Gm5468	chr15:25414191-25452418	NOTEST	0.0200027	0.00678149
Agbl1	chr7:76229886-77124698	NOTEST	0.18889	0.0640069
Cacna1f	chrX:7607102-7635196	NOTEST	0.00912532	0.00309048
Slc5a5	chr8:70882888-70892757	OK	7.22275	2.4456
Cyb5r2	chr7:107595050-107758032	NOTEST	0.224033	0.0758408
Rilp	chr11:75510093-75513166	OK	1.42229	0.481306
Trip6	chr5:137309898-137314241	OK	3.41163	1.15396
Tchh	chr3:93442329-93449077	NOTEST	0.113706	0.0384603
Efna4	chr3:89333392-89338028	NOTEST	0.19364	0.065493
Glrx	chr13:75839885-75850151	OK	18.6786	6.31517
Apln	chrX:48025145-48034852	NOTEST	0.802967	0.270417
Them5	chr3:94342098-94347352	OK	2.72346	0.916642
Ctnna1	chr4:56810934-56865211	OK	18.6752	6.28447
Cntfr	chr4:41657497-41697091	OK	40.8066	13.7286
Cxcl11	chr5:92331840-92414627	NOTEST	0.45499	0.153027
Rimklb	chr6:122453608-122486305	OK	3.21804	1.08206
Clic6	chr16:92498146-92541241	NOTEST	0.219084	0.073646
Kif21b	chr1:136131400-136178014	OK	2.25168	0.756008
Map2	chr1:66175328-66442583	OK	29.2416	9.80663
Eno4	chr19:58943424-58971421	NOTEST	0.277098	0.0929236
Sult5a1	chr8:123142846-123158280	NOTEST	0.28413	0.0952729
Satb1	chr17:51736186-51833290	OK	10.4825	3.51308
Fam81a	chr9:70089309-70141557	OK	12.1227	4.06269
4430402I18Rik	chr19:28923063-28966801	NOTEST	0.5793	0.194129
Ung	chr5:114130434-114139321	OK	1.02438	0.343187
Gpx7	chr4:108400216-108406713	OK	4.3312	1.44871
Nsun7	chr5:66260124-66298016	NOTEST	0.241701	0.0808163
Ptchd2	chr4:148236856-148287965	OK	6.06519	2.02698
Pmaip1	chr18:66458603-66465558	NOTEST	0.822119	0.274747
Sh3gl2	chr4:85205455-85389379	OK	60.5803	20.2411

Efhd1	chr1:87264363-87310791	OK	10.5939	3.53432
Spock1	chr13:57421194-57908332	OK	100.11	33.3959
Rimbp3	chr16:17208134-17213982	NOTEST	0.0364214	0.0121492
AF251705	chr11:114996768-115001880	NOTEST	0.277775	0.0926243
Anxa8	chr14:34051129-34102754	NOTEST	0.273336	0.0910902
Phospho1	chr11:95824499-95845731	OK	26.4106	8.79936
Sft2d2	chr1:165174340-165194433	OK	9.31092	3.10164
Akr1b8	chr6:34354163-34368454	OK	2.4074	0.801817
Hoxc8	chr15:102990538-102994254	OK	2.3387	0.77891
Ddit4	chr10:59949674-59951770	OK	61.7588	20.5583
Syndig1l	chr12:84677277-84698807	OK	7.08531	2.35805
Adarb2	chr13:8202865-8768762	NOTEST	0.219846	0.0731572
Camkv	chr9:107935919-107949691	NOTEST	0.646255	0.215027
Fermt1	chr2:132904178-132946036	NOTEST	0.0108044	0.00359264
Xirp2	chr2:67446001-67526606	NOTEST	0.00928357	0.00308509
Bcl2l11	chr2:128126037-128162547	OK	1.59144	0.527846
Stx1b	chr7:127806843-127824531	OK	64.7792	21.4625
B230209E15Rik	chr7:61529409-61615327	NOTEST	0.152526	0.0504588
Arl5c	chr11:97989579-97996173	NOTEST	0.368187	0.1218
Gjc1	chr11:102799477-102819686	OK	2.53393	0.837687
Ndp	chrX:16885521-16911764	OK	9.56626	3.16237
Hrasls	chr16:29209694-29230530	OK	3.64567	1.2051
Serpine3	chr14:62663666-62830126	NOTEST	0.340894	0.112683
Col11a2	chr17:34039436-34066242	NOTEST	0.667864	0.22073
Nlrp10	chr7:108921852-108930158	NOTEST	0.0854005	0.0281997
Tmprss7	chr16:45656316-45693658	OK	1.44221	0.476191
Ahr	chr12:35497978-35534989	OK	4.53881	1.49671
Lepr	chr4:101717406-101815354	OK	1.82478	0.600869
Gabrg3	chr7:56724241-57386871	NOTEST	0.348611	0.11473
Mapkapk3	chr9:107254926-107289877	OK	0.931421	0.306446
Edar	chr10:58600787-58675696	NOTEST	0.0647312	0.0212934
Plod2	chr9:92538800-92608427	OK	3.86564	1.2709
Strbp	chr2:37569867-37647285	OK	8.92605	2.9326
Hpgd	chr8:56294551-56321046	OK	1.37779	0.452456
Kcnp1	chr11:33629340-33993193	OK	17.4521	5.72824
B930041F14Rik	chr4:155694341-155696483	OK	15.1733	4.97769
Elfn2	chr15:78670006-78718113	OK	1.13852	0.37348
Kcnh2	chr5:24319588-24351604	OK	33.348	10.9381
Zfp804a	chr2:82053657-82259878	OK	7.15236	2.34298
Cd101	chr3:100993528-101029495	NOTEST	0.0563443	0.0184488
Tor3a	chr1:156653616-156674339	OK	2.50029	0.817637
Frem1	chr4:82897919-83052167	OK	0.800165	0.261626
Tmem132b	chr5:125532417-125792583	OK	1.7445	0.570276
Zfp964	chr8:69654555-69664453	OK	0.983626	0.321012
Cox6a2	chr7:128173945-128206366	NOTEST	0.275627	0.0899431
Abhd3	chr18:10644410-10706696	OK	15.5885	5.08519
Amn	chr12:111271110-111276426	NOTEST	0.0376425	0.0122793
Epas1	chr17:86753863-86833410	OK	48.9765	15.9707
Mafb	chr2:160363676-160367065	OK	1.28661	0.419494
Rxra	chr2:27677200-27763319	OK	7.63767	2.48884
Cpq	chr15:33083128-33653436	OK	14.2881	4.65382
Rnf17	chr14:56402696-56525031	NOTEST	0.293604	0.0955947
Cyp2j6	chr4:96516137-96553651	OK	22.0422	7.1634

Fzd7	chr1:59482146-59486955	OK	4.47468	1.45379
Nrp2	chr1:62703316-62818692	OK	15.6997	5.10068
1700028J19Rik	chr7:44229929-44236122	NOTEST	0.311163	0.100996
Rcn1	chr2:105385947-105399319	OK	16.5798	5.38031
Sec14l2	chr11:4097039-4118729	OK	9.00618	2.92173
Eva1b	chr4:126148002-126149874	OK	2.40625	0.779941
Vcam1	chr3:116110019-116129688	OK	2.85617	0.924991
Gpc2	chr5:138273659-138279937	NOTEST	0.287963	0.0932063
Slc22a8	chr19:8591253-8611835	NOTEST	0.355941	0.115183
2310022B05Rik	chr8:124635755-124663369	OK	24.661	7.97955
Ror1	chr4:100095790-100442545	NOTEST	0.40734	0.131429
Slitrk3	chr3:73048124-73056943	OK	22.912	7.39193
Pole2	chr12:69201778-69228190	NOTEST	0.519229	0.167502
Tnn	chr1:160085031-160153575	NOTEST	0.0686682	0.0221236
Cldn15	chr5:136967868-136975845	NOTEST	0.301835	0.0971887
Clrn2	chr5:45453750-45464149	OK	3.11605	1.00276
S100a14	chr3:90526848-90528835	NOTEST	0.0971077	0.0312406
Ciita	chr16:10480071-10527564	NOTEST	0.140929	0.0453374
38776	chr11:105360797-105456735	NOTEST	0.0755032	0.0242879
Prrg3	chrX:71963020-71972728	OK	9.49706	3.05496
Cyp3a13	chr5:137892932-137921619	NOTEST	0.188733	0.0607006
Parva	chr7:112427705-112591688	OK	61.7935	19.8662
Zfp36l1	chr12:80107759-80113013	OK	13.2581	4.25874
Tesc	chr5:118027823-118061870	OK	46.8229	15.0287
Xylt1	chr7:117380978-117667630	NOTEST	0.586731	0.18825
Tmem37	chr1:120067376-120073780	NOTEST	0.554317	0.177828
Lhx6	chr2:36081952-36105408	NOTEST	0.312065	0.100074
St3gal3	chr4:117932152-118134946	OK	11.7656	3.77258
AU022754	chr15:85535436-85593708	NOTEST	0.0204354	0.00655115
Retnlg	chr16:48872607-48874498	OK	4.37548	1.40208
2310069G16Rik	chr15:44671855-44805829	OK	4.43029	1.41844
Pitpnm3	chr11:72047527-72135889	OK	1.2112	0.387786
Prdm5	chr6:65778961-65936377	OK	0.966323	0.309291
Cdh4	chr2:179442477-179899375	OK	3.87778	1.23994
Ryr3	chr2:112631381-113030331	OK	0.892796	0.285351
Nxf2	chrX:134944525-134964754	NOTEST	0.057814	0.0184596
Ky	chr9:102506137-102546239	NOTEST	0.2585	0.0825192
D7Ert443e	chr7:134266261-134376828	OK	2.07759	0.661876
Nr1d2	chr14:18204055-18239106	OK	18.4947	5.89195
Endod1	chr9:14353989-14381242	OK	186.025	59.1903
Thsd4	chr9:59966930-60511035	OK	1.55589	0.494664
Cnm1	chr19:43440435-43497213	OK	9.20314	2.92519
Tdrd9	chr12:111971558-112068854	NOTEST	0.02674	0.00849775
Stox1	chr10:62659421-62726099	NOTEST	0.269209	0.0855119
Adam17	chr12:21316391-21373632	OK	8.34927	2.65196
Rab20	chr8:11453976-11478499	OK	1.47064	0.46705
4931409K22Rik	chr5:24543433-24555469	NOTEST	0.0278198	0.00882788
Abhd4	chr14:54254128-54269169	OK	66.4998	21.0835
Dppa2	chr16:48310273-48319513	NOTEST	0.2783	0.0881168
Slc22a23	chr13:34179157-34345182	OK	12.6591	4.00598
Psma8	chr18:14706150-14762299	NOTEST	0.198803	0.0628209
Gm4013	chr18:42274379-42275197	NOTEST	0.838713	0.264887
Galnt4	chr10:99107170-99197988	OK	1.22519	0.386171

1190002N15Rik	chr9:94517863-94538081	OK	19.8782	6.26193
Tead1	chr7:112679319-112906805	OK	5.66077	1.78061
Etv4	chr11:101769741-101785310	OK	1.23146	0.387277
Fbxo40	chr16:36966072-36979136	OK	1.01419	0.318771
4930525G20Rik	chr13:67796593-67830985	NOTEST	0.0900057	0.0282777
Qpct	chr17:79051905-79090243	OK	2.66798	0.837775
Siglecg	chr7:43408279-43418349	NOTEST	0.142095	0.0445231
Mt2	chr8:94172617-94173567	OK	76.9997	24.1133
Smim1	chr4:154011802-154026044	OK	1.73524	0.543331
Col11a1	chr3:114030539-114220326	OK	3.58033	1.12025
B230206H07Rik	chr7:141339001-141365110	OK	3.09965	0.969423
Sort1	chr3:108284063-108361519	OK	16.5974	5.18997
Dleu7	chr14:62276228-62292979	NOTEST	0.778561	0.243299
Arhgef19	chr4:141242883-141257562	OK	3.93943	1.23051
Lhpp	chr7:132610642-132706419	OK	4.082	1.27472
Chn2	chr6:54039931-54430221	OK	15.8871	4.958
Arsk	chr13:76060421-76098660	OK	2.57108	0.802363
Cxcr2	chr1:74153993-74161246	NOTEST	0.0996006	0.0310586
Cyp2d26	chr15:82790106-82794245	NOTEST	0.0483354	0.0150717
Srd5a1	chr13:69573448-69611463	OK	7.49961	2.3374
Fam212a	chr9:107984223-107985916	OK	3.99066	1.24364
Pard3b	chr1:61638823-62642284	OK	1.14165	0.355547
Fscn1	chr5:142960354-142973189	OK	15.0379	4.68152
Clcn2	chr16:20695056-20716636	OK	4.46083	1.38817
Robo1	chr16:72663148-73046100	OK	4.13297	1.28519
Sgce	chr6:4674349-4747204	OK	15.1228	4.69474
Zpbp2	chr11:98551096-98558665	NOTEST	0.0479687	0.0148648
Nuak2	chr1:132316124-132333488	NOTEST	0.386835	0.119838
Lmcd1	chr6:112273757-112330423	OK	2.92669	0.906558
Usp27x	chrX:7372590-7375830	OK	0.873736	0.270644
Fam65b	chr13:24582188-24733806	OK	1.23321	0.38171
Cysltr1	chrX:106576508-106710557	NOTEST	0.165252	0.0510982
Nup62-il4i1	chr7:44812255-44849079	NOTEST	0.395218	0.122049
Opn3	chr1:175662420-175692632	OK	5.81988	1.79446
Dab2	chr15:6299788-6440709	OK	3.03523	0.93452
Sall4	chr2:168748331-168767201	NOTEST	0.0997042	0.030684
Fam101a	chr5:125003474-125012547	OK	2.50729	0.771378
Myl1	chr1:66924295-66945056	NOTEST	0.194379	0.0597078
Sema6a	chr18:47245253-47368868	OK	4.31093	1.32402
Pde6b	chr5:108388372-108431742	NOTEST	0.175148	0.0537537
B230319C09Rik	chr6:83441754-83448322	NOTEST	0.376027	0.115255
Itm2a	chrX:107397194-107403360	OK	41.8335	12.8126
Spata18	chr5:73651379-73679484	NOTEST	0.170738	0.0522842
Ear3	chr14:44102653-44103531	LOWDAT	0.258624	0.0791291
Gng8	chr7:16891785-16895435	OK	9.25247	2.8291
C1qtnf1	chr11:118428456-118454995	OK	22.6804	6.9306
Tcf24	chr1:9960162-9967485	NOTEST	0.206896	0.0631702
Sema6b	chr17:56123084-56140343	OK	2.55819	0.780807
6430571L13Rik	chr9:107340639-107349683	OK	5.64271	1.71922
Camk1d	chr2:5293456-5714762	OK	16.9505	5.16418
Gm53	chr11:96251659-96264484	OK	1.41883	0.432057
Fhl2	chr1:43123070-43196761	OK	1.49756	0.455779
4930539J05Rik	chr3:135436220-135438665	NOTEST	0.236329	0.0719007

Smad3	chr9:63646766-63757994	OK	1.29494	0.393904
Iqck	chr7:118842217-118995211	NOTEST	0.423062	0.128483
Arpp21	chr9:112065090-112348925	OK	7.2922	2.2136
Gm13306	chr4_JH584293_random:7077-2	NOTEST	0.139589	0.0423054
Garem	chr18:21127341-21300139	OK	4.63854	1.40526
Grasp	chr15:101221190-101232756	OK	3.62441	1.09716
Morn5	chr2:36049472-36079709	NOTEST	0.635384	0.192259
AB124611	chr9:21526176-21545331	OK	0.845024	0.255362
Sdk1	chr5:141241533-142213791	OK	3.53444	1.06758
Vmn2r87	chr10:130471820-130497379	NOTEST	0.21682	0.0654824
Prr15	chr6:54039931-54430221	OK	1.02053	0.308101
Nav3	chr10:109683438-110000219	OK	1.7448	0.526542
Grik2	chr10:49099462-49788754	OK	3.66269	1.10529
Bcl2	chr1:106538177-106714290	OK	12.0971	3.64418
Ptch1	chr13:63511532-63565520	OK	7.75943	2.33709
Ankrd66	chr17:43534173-43543639	NOTEST	0.60221	0.181134
3425401B19Rik	chr14:32659118-32685272	OK	1.22917	0.369528
Il15	chr8:82331623-82402586	NOTEST	0.583305	0.17533
Cacng5	chr11:107874604-107915055	OK	9.00442	2.70511
Olfml3	chr3:103193822-103854618	OK	17.6392	5.2957
Ltbr	chr6:125306570-125313870	OK	7.581	2.27541
9430076C15Rik	chr6:53287294-53397216	NOTEST	0.0808338	0.0242499
Fhad1	chr4:141890622-142011651	NOTEST	0.145505	0.0435131
Ntm	chr9:28995963-29963129	OK	6.23039	1.86285
Wls	chr3:159839694-159935175	OK	25.1833	7.52547
Cd300lb	chr11:114922780-114934386	NOTEST	0.0908684	0.0271463
Pak1	chr7:97842938-97912381	OK	44.4698	13.2773
Cux2	chr5:121860215-122047825	OK	3.57506	1.06721
Elovl2	chr13:41182381-41220403	OK	4.42185	1.31909
Tbc1d10a	chr11:4186832-4215505	OK	12.5814	3.75128
Arsg	chr11:109440077-109573329	OK	3.31776	0.989193
Pctp	chr11:89983416-90002894	OK	18.0005	5.3615
Gpc3	chrX:52272426-52619047	OK	15.4852	4.60658
Pla1a	chr16:38396116-38433145	NOTEST	0.318227	0.094639
Asap3	chr4:136206364-136246573	OK	2.37712	0.706439
Mycl	chr4:122996098-123002480	NOTEST	0.445478	0.13237
Slc2a5	chr4:150119343-150144168	NOTEST	0.394699	0.117084
Tmem220	chr11:67025153-67035312	NOTEST	0.659803	0.195518
Ramp2	chr11:101246333-101248250	OK	17.9183	5.30928
Gm16532	chr7:6415174-6431086	OK	3.39185	1.00192
Fam155a	chr8:9206009-9771023	OK	9.68929	2.86198
Snx24	chr18:53245661-53390825	OK	3.88028	1.14511
Gm17769	chr10:77418375-77420939	NOTEST	0.235752	0.0694778
Clec1a	chr6:129426683-129452000	OK	1.10273	0.324946
Dusp23	chr1:172630768-172632974	OK	3.09353	0.911043
Asic1	chr15:99670717-99701130	OK	31.4513	9.23602
Tmem200b	chr4:131921770-131923140	OK	1.13867	0.334373
G530011O06Rik	chrX:169685198-169990797	NOTEST	0.135799	0.0398143
Slc39a1	chr3:90248191-90253612	OK	14.351	4.20698
Cd68	chr11:69664212-69666170	OK	1.3104	0.383835
Tnfrsf1a	chr6:125349722-125362483	OK	13.2894	3.88691
Itpr2	chr6:146108298-146502223	NOTEST	0.691879	0.20225
2310040G24Rik	chr6:86483375-86488227	OK	1.9153	0.559587

Hnmt	chr2:24002912-24049379	OK	8.03238	2.34519
Peg10	chr6:4747305-4760516	OK	4.88197	1.42223
Tns3	chr11:8431651-8664535	OK	17.3398	5.04336
Cped1	chr6:21985909-22255606	OK	1.55001	0.450663
Gm6568	chrX:157540803-157541750	NOTEST	0.105187	0.0305794
Nek6	chr2:38511696-38587490	OK	7.63141	2.21761
B430319G15Rik	chr9:92538800-92608427	NOTEST	0.293181	0.085174
Ccr1	chr9:123962125-123968692	NOTEST	0.23108	0.0671157
Ecm1	chr3:95734147-95739569	OK	5.34965	1.55312
Klhdc7a	chr4:139962172-139968026	NOTEST	0.0221494	0.00642291
Lgr6	chr1:134986352-135105276	NOTEST	0.248627	0.0720683
Ace	chr11:105965606-105989964	OK	2.09463	0.606747
Cacnb2	chr2:14604305-14987908	OK	1.39285	0.403425
Fgf7	chr2:125859108-126152004	OK	1.84083	0.531474
Zfp36l2	chr17:84183927-84187947	OK	10.0283	2.89361
Clca2	chr3:144796558-144819494	NOTEST	0.0547201	0.0157861
Rin3	chr12:102283073-102390854	OK	1.70608	0.491663
Pcdh10	chr3:45378397-45439309	OK	16.9015	4.86973
Mmp23	chr4:155650654-155653384	OK	1.43899	0.414515
S100a3	chr3:90600214-90602702	NOTEST	0.396879	0.114322
Lrrc25	chr8:70616843-70620850	NOTEST	0.443698	0.127777
Gabra5	chr7:57387271-57510009	OK	3.4077	0.980823
Il16	chr7:83643062-83735490	OK	4.09407	1.17801
Tas1r3	chr4:155847411-155863353	NOTEST	0.060158	0.0173094
D630023F18Rik	chr1:65105284-65123214	OK	0.765607	0.219851
Tpm2	chr4:43513725-43523554	OK	4.21839	1.21078
Fam84b	chr15:60818995-60831400	OK	0.917166	0.263018
C030006K11Rik	chr15:76715275-76723845	OK	6.16515	1.7665
Dapl1	chr2:59484652-59505020	OK	1.58746	0.454784
Vwa7	chr17:35016578-35028016	OK	34.4356	9.85386
9630001P10Rik	chr5:45529704-45645469	NOTEST	0.365075	0.104413
Pcp4l1	chr1:171173263-171196268	OK	189.449	54.1665
Ankrd29	chr18:12252356-12305720	OK	16.5674	4.73012
2810454H06Rik	chr6:134897960-134900785	NOTEST	0.0874842	0.0249233
Slc25a2	chr18:36930284-37841872	NOTEST	0.368853	0.105037
Loxl2	chr14:69609475-69695834	OK	0.859452	0.244613
Hepacam2	chr6:3457088-3494498	NOTEST	0.189246	0.0536533
Fzd10	chr5:128601105-128604093	NOTEST	0.254887	0.0722252
Zfp607	chr7:27860584-27880825	NOTEST	0.303862	0.0860962
Il17re	chr6:113458483-113470751	NOTEST	0.312798	0.0886246
Tpcn1	chr5:120534156-120588613	OK	22.6167	6.40217
Fabp4	chr3:10204342-10208576	OK	4.44452	1.25741
Ccr5	chr9:124121542-124127183	NOTEST	0.387922	0.109737
Tnfrsf11b	chr15:54250618-54278484	NOTEST	0.438305	0.123971
Pde1a	chr2:79834452-80129412	OK	2.12789	0.601753
Kcnab3	chr11:69326257-69333041	OK	1.24643	0.352134
Ncf1	chr5:134220052-134229625	OK	1.21549	0.34307
Pou2f3	chr9:43123938-43205755	NOTEST	0.0698083	0.0196946
Lama1	chr17:67697264-67822645	NOTEST	0.527174	0.14866
Mn1	chr5:111418165-111457025	NOTEST	0.272129	0.0766676
Serpib1a	chr13:32842091-32851185	OK	36.3579	10.2389
Igf2bp2	chr16:22059008-22163299	OK	0.822292	0.23113
Tcf15	chr2:152143608-152149096	NOTEST	0.17857	0.0501882

Rab42	chr4:132302193-132303356	NOTEST	0.367695	0.103307
Shc3	chr13:51431041-51567084	OK	3.14003	0.882212
Bicc1	chr10:70925095-71159634	OK	2.08817	0.585787
Greb1	chr12:16670614-16800886	OK	2.52742	0.708634
Nckap1l	chr15:103453824-103498800	NOTEST	0.60094	0.168414
Dhh	chr15:98893026-98898540	OK	27.9354	7.82425
Prkd3	chr17:78949404-79020816	OK	3.05571	0.855341
Rnf152	chr1:105276916-105356710	NOTEST	0.551486	0.154352
Rreb1	chr13:37826037-37952005	OK	1.0548	0.29513
Cd164l2	chr4:133220808-133224554	OK	1.84823	0.516992
Snta1	chr2:154376313-154408084	OK	9.5487	2.67081
Fgf18	chr11:33116977-33147400	OK	8.89955	2.48733
Pcdh11x	chrX:120290326-120910618	OK	0.85607	0.239218
AI427809	chr4:53261355-53270232	OK	0.826553	0.230822
Tlr12	chr4:128615445-128618619	NOTEST	0.0656801	0.0183412
Nsg1	chr5:38039229-38159467	OK	58.9809	16.4636
Heph	chrX:96455435-96574484	NOTEST	0.331847	0.0925896
A2m	chr6:121636172-121679238	OK	3.72577	1.0389
Edn2	chr4:120161423-120167360	NOTEST	0.268386	0.0747899
Slc7a11	chr3:50364935-50443613	NOTEST	0.258113	0.0719121
Slc25a15	chr8:22375549-22398621	OK	4.57014	1.27307
Cdhr2	chr13:54701462-54736662	NOTEST	0.0358011	0.00997192
Ypel2	chr11:86583864-87555823	OK	5.82415	1.6215
Gm11744	chr11:116657107-116668389	NOTEST	1.00288	0.278961
Col2a1	chr15:97975601-98004724	NOTEST	0.354986	0.0987034
Mgmt	chr7:136894610-137128188	OK	3.43165	0.953222
Slco2a1	chr9:103008488-103087849	OK	2.88058	0.800053
Gpr88	chr3:116249653-116253484	NOTEST	0.0966901	0.026849
Acox1	chr2:127854627-128123892	NOTEST	0.0246348	0.00683518
Csrp1	chr1:135729196-135752229	OK	69.4418	19.2635
BC100451	chr11:118301060-118355411	NOTEST	0.20864	0.0578616
Gpr62	chr9:106453837-106465940	NOTEST	0.231439	0.0641819
Nefm	chr14:68119544-68131371	OK	1526.75	423.19
Hopx	chr5:77086985-77115123	OK	146.112	40.489
Ctdsp1	chr1:74391608-74397285	OK	9.97583	2.76338
Tyro3	chr2:119797739-119818103	OK	14.9379	4.13663
Zbtb8b	chr4:129425764-129440818	NOTEST	0.266585	0.0738081
Ngef	chr1:87476828-87573870	OK	3.48494	0.962345
Sorbs3	chr14:70180467-70207671	OK	12.6557	3.49379
Amot	chrX:145446423-145487639	OK	2.92432	0.80707
Bai1	chr15:74516195-74589464	OK	8.98018	2.47432
Agpat9	chr5:100846228-100899102	OK	1.76337	0.485774
Lphn2	chr3:148815585-148954635	OK	6.64403	1.82821
Tbxa2r	chr10:81328702-81335174	OK	1.8432	0.506954
Tnfsf12Tnfsf13	chr11:69682576-69696098	OK	2.11704	0.58216
Myh10	chr11:68691914-68816624	OK	39.81	10.9343
Enah	chr1:181896385-182019980	OK	31.6686	8.68309
Lrrc14b	chr13:74350316-74365783	NOTEST	0.408173	0.111875
Plekhg5	chr4:152086862-152115404	OK	5.12584	1.40349
Itrip	chr19:47894595-47919299	OK	0.998109	0.272332
Slc8a3	chr12:81197914-81333180	OK	6.45292	1.76048
Entpd4	chr14:69555400-69584992	NOTEST	0.144008	0.0392745
Ebf2	chr14:67233291-67430952	OK	1.0386	0.28315

Filip1l	chr16:57301999-57606867	OK	1.49912	0.4085
Sorcs3	chr19:48206024-48805505	OK	4.74733	1.29297
C6	chr15:4727209-4804045	NOTEST	0.0272076	0.00740981
Zkscan17	chr11:59485520-59511067	OK	2.34243	0.637244
Cdh6	chr15:13034199-13173639	OK	4.23384	1.14953
Ntn4	chr10:93641048-93745972	OK	1.99245	0.540724
Pappa	chr4:65124173-65357509	OK	1.72055	0.466546
Gucy2e	chr11:69218116-69237022	NOTEST	0.0388847	0.0105436
Tril	chr6:53815467-53820825	OK	2.63353	0.713113
Impa2	chr18:67289222-67318841	OK	5.18496	1.4039
Lao1	chr4:118961966-118968910	NOTEST	0.089142	0.0241266
Lpl	chr8:68880554-68906932	OK	2.60145	0.702769
Srpk3	chrX:73774421-73778924	NOTEST	0.627449	0.169433
Mgp	chr6:136872434-136875805	OK	56.1066	15.1364
Slc14a2	chr18:78146143-78596950	NOTEST	0.0785829	0.0211929
Chrn4	chr9:55028155-55048544	OK	4.87883	1.31558
Cntnap1	chr11:101176116-101190720	OK	52.6172	14.1763
Dok7	chr5:35057083-35087831	OK	2.01137	0.54143
Clstn3	chr6:124430755-124464784	OK	32.4001	8.71812
Tead2	chr7:45215752-45233619	OK	1.51303	0.406897
Nrarp	chr2:25180757-25183332	OK	12.7331	3.42075
Ccdc60	chr5:116125580-116288985	NOTEST	0.485053	0.130306
2900079G21Rik	chr9:112065090-112348925	OK	4.57521	1.22702
Pdlim3	chr8:45885484-45919546	NOTEST	0.468318	0.12558
Colq	chr14:31523083-31577383	OK	2.16829	0.581134
Gbp6	chr5:105270701-105293699	NOTEST	0.542249	0.145231
Arhgef3	chr14:27143992-27403911	OK	10.427	2.79184
Pik3ap1	chr19:41274217-41385070	NOTEST	0.376888	0.100898
Anxa4	chr6:86736839-86793584	OK	10.8054	2.89267
C1ql2	chr1:120340581-120343174	NOTEST	0.0405956	0.0108635
Prrg1	chrX:78449609-78583897	OK	4.3237	1.15702
Ndnf	chr6:65671610-65706930	OK	3.38642	0.906201
Anxa9	chr3:95282934-95307176	NOTEST	0.32051	0.0857334
Pcsk1	chr13:75089986-75132498	OK	30.7619	8.22708
Slc22a6	chr19:8617995-8628299	NOTEST	0.0639928	0.0171086
Ogdhl	chr14:32322018-32347820	OK	14.345	3.83162
Plekha2	chr8:25039143-25101811	OK	8.07817	2.15742
Iqgap2	chr13:95627176-95891922	OK	2.51558	0.671599
Sema4a	chr3:88435961-88461182	OK	2.52521	0.674142
Amotl2	chr9:102717803-102733417	OK	6.86292	1.82937
Arhgef10	chr8:14911662-15001085	OK	11.166	2.97605
Tex15	chr8:33570543-33585585	NOTEST	0.08625	0.0229736
Kctd12	chr14:102976580-102982637	OK	5.7537	1.52623
Fos	chr12:85473900-85477270	OK	191.273	50.7324
Prima1	chr12:103196907-103242146	OK	7.77854	2.06296
Trem1	chr17:48232738-48246924	NOTEST	0.21096	0.0559147
Nfatc2	chr2:168476409-168601657	NOTEST	0.596226	0.157997
Hsh2d	chr8:72189667-72200958	NOTEST	0.0673153	0.0178361
Whrn	chr4:63414909-63495991	OK	7.89266	2.08958
Slc22a22	chr15:57243770-57477625	NOTEST	0.0317303	0.00839561
Vipr1	chr9:121642715-121672954	NOTEST	0.0438227	0.0115885
Brinp1	chr4:68761371-68954397	OK	10.9991	2.90759
Ldlrad3	chr2:101950200-102186460	OK	5.39257	1.42451

Tst	chr15:78399555-78405859	OK	5.06021	1.33651
Tlr1	chr5:64924679-64933558	NOTEST	0.133502	0.0352447
Bai3	chr1:25067475-25829707	OK	6.62058	1.74704
Ido2	chr8:24531891-24576333	NOTEST	0.267066	0.070463
Hist1h4h	chr13:23531043-23531478	OK	2.87069	0.757208
Pde6a	chr18:61220498-61289718	NOTEST	0.109221	0.028796
Irx3	chr8:91798510-91801654	OK	0.8824	0.232642
Kcns1	chr2:164163618-164171113	OK	34.1256	8.99663
S100a8	chr3:90669070-90670034	OK	39.4618	10.4023
4631405J19Rik	chr2:92974905-93046144	NOTEST	0.0718913	0.0189322
Insc	chr7:114745765-114850380	OK	6.10612	1.6062
Sag	chr1:87803679-87845157	NOTEST	0.217431	0.0571862
Efemp2	chr19:5474689-5481854	OK	7.48938	1.96899
Cdkn1c	chr7:143458338-143461050	OK	1.83832	0.483019
Cma1	chr14:55941450-55944661	NOTEST	0.656477	0.17241
Cacng8	chr7:3394116-3415605	OK	1.03587	0.272039
Padi4	chr4:140745507-140774203	NOTEST	0.185038	0.0485684
Adra2c	chr5:35278565-35281763	OK	7.28412	1.91107
Fam46a	chr9:85320438-85327150	OK	1.11811	0.29335
Asb9	chrX:164497902-164539752	NOTEST	0.080203	0.0210238
Tnfrsf12a	chr17:23660522-23677449	OK	9.18984	2.40858
Aifm3	chr16:17489676-17507485	OK	8.1168	2.12729
Klhl30	chr1:91351072-91362404	NOTEST	0.111129	0.0291154
Cyr61	chr3:145646970-145649985	OK	28.9348	7.57396
Enpep	chr3:129269176-129332749	OK	1.88335	0.492279
Rnf130	chr11:50025330-50125719	OK	35.5496	9.29208
Rorc	chr3:94372825-94398239	OK	1.25828	0.328728
Gm6524	chr8:11692981-11694514	NOTEST	0.0524137	0.0136885
Atp2a1	chr7:126428766-126463073	NOTEST	0.174227	0.045496
Dennd1c	chr17:57066054-57078510	NOTEST	0.102364	0.0267105
Vmn2r85	chr10:130418260-130429612	NOTEST	0.0296524	0.00773313
Gm4841	chr18:60268300-60273267	NOTEST	0.0528857	0.0137899
Gdpd4	chr7:97919957-98049663	NOTEST	0.0244744	0.00638054
Kcnj9	chr1:172321032-172329263	NOTEST	0.623483	0.162522
Sorbs2os	chr8:45507787-45827906	NOTEST	0.0307138	0.00800279
Ptn	chr6:36715662-36811361	OK	58.8375	15.3287
Elf1	chr5:139907942-139974724	OK	13.2786	3.45912
Aard	chr15:52040106-52045722	OK	3.95929	1.03132
Scarf2	chr16:17797281-17808287	OK	1.05412	0.274432
Nrcam	chr12:44328884-44601846	OK	20.6487	5.35426
Trhde	chr10:114398820-114801370	OK	1.56675	0.406182
Ltbp4	chr7:27305140-27337612	OK	9.97981	2.58437
5830444B04Rik	chr4:155400968-155443110	NOTEST	0.457699	0.118474
Pvrl4	chr1:171370172-171388287	OK	9.71545	2.51441
Ctsh	chr9:90054266-90076095	OK	4.18449	1.08242
Mfge8	chr7:79133767-79149060	OK	8.88372	2.29791
Plin4	chr17:56079656-56109802	NOTEST	0.210423	0.0543907
Col4a2	chr8:11312828-11449287	OK	16.5672	4.27547
Calml4	chr9:62838786-62875917	OK	11.9283	3.07677
Ano5	chr7:51511028-51598707	NOTEST	0.182677	0.0470554
Gm19461	chr1:133246096-133303435	OK	4.74301	1.22086
Slc27a1	chr8:71568926-71586708	OK	24.9366	6.41419
Gpr143	chrX:152781920-152808646	NOTEST	0.0488943	0.0125687

Klhl23	chr2:69822369-69836651	OK	1.85952	0.47775
Atoh8	chr6:72206176-72235577	NOTEST	0.495126	0.127179
Vil1	chr1:74409383-74588028	NOTEST	0.024308	0.00623356
Frmpd4	chrX:167471305-168577233	OK	8.94312	2.29317
Il6ra	chr3:89869323-89913162	OK	0.953508	0.244438
Palld1	chr10:61319656-61383523	OK	4.83466	1.23856
Slc12a4	chr8:105943589-105966115	OK	8.20358	2.10118
Glb1l2	chr9:26763043-26806417	OK	4.0927	1.047
Asrgl1	chr19:9111718-9135566	OK	21.2845	5.43817
Tfcp2l1	chr1:118627944-118685168	NOTEST	0.124079	0.0316736
Cntn4	chr6:105677744-106699305	OK	5.95131	1.51905
9230116L04Rik	chr12:79029162-79103939	NOTEST	0.108288	0.0276344
Itga9	chr9:118606708-118901003	OK	1.8467	0.471102
Spib	chr7:44525994-44532071	NOTEST	0.379562	0.096659
Thbs1	chr2:118111921-118127133	OK	3.84115	0.977304
Loxl4	chr19:42592278-42612806	OK	1.60977	0.409503
Ttc36	chr9:44799399-44802951	NOTEST	0.12833	0.0326383
Pcdh8	chr14:79766771-79771312	OK	2.07183	0.526896
Leprel4	chr11:100408749-100414819	OK	4.29372	1.0915
Duxbl3	chr14:25983004-25990166	NOTEST	0.08042	0.0204368
Tph1	chr7:46644640-46672537	NOTEST	0.114135	0.0290005
Col13a1	chr10:61838497-61979108	NOTEST	0.539935	0.13718
Layn	chr9:51056779-51077094	OK	0.978692	0.248524
Ltbp1	chr17:75005528-75392967	OK	1.15277	0.292689
Itga1	chr13:114958080-115101964	OK	2.01908	0.511481
Egr1	chr18:34861206-34864956	OK	78.8381	19.9715
Gm5820	chr18:38838672-38971274	NOTEST	0.168589	0.0426995
Ptk2b	chr14:66153256-66281052	OK	10.8918	2.75609
Dzip1l	chr9:99629594-99669256	NOTEST	0.746077	0.188708
1700017B05Rik	chr9:57252321-57262599	OK	1.01228	0.255851
Plch1	chr3:63696233-63850991	NOTEST	0.39872	0.100593
Phlda3	chr1:135766084-135769134	OK	21.5701	5.43806
Cps1	chr1:67123026-67231267	NOTEST	0.0403229	0.0101599
Gstm6	chr3:107938847-107943749	OK	2.52689	0.636475
Mfap3l	chr8:60632859-60676731	OK	21.4545	5.40374
Tpo	chr12:30054660-30132609	NOTEST	0.0758291	0.0190531
Ehd2	chr7:15948986-15967535	OK	19.0004	4.77005
Pbx1	chr1:168119363-168432169	OK	11.5731	2.90488
Zeb2	chr2:44983511-45114084	OK	12.8427	3.22343
Figf	chr2:63971507-64098038	OK	2.14423	0.538002
Dpysl4	chr7:139086000-139101791	OK	6.52482	1.63442
Arhgap10	chr8:77250365-77518578	OK	2.55727	0.64033
D930028M14Rik	chr7:25152456-25156630	OK	31.5562	7.89256
Gm684	chr9:51270257-51278554	NOTEST	0.301829	0.0753184
D1Pas1	chr1:186967415-186970627	NOTEST	0.0725928	0.0181092
Pi16	chr17:29318881-29328902	OK	5.60092	1.39668
Fam19a5	chr15:87544298-87759364	OK	19.4303	4.84334
Cdsn	chr17:35552127-35557180	NOTEST	0.100391	0.0250204
Slc2a12	chr10:22645010-22731447	NOTEST	0.24517	0.0610639
Lpar4	chrX:106920624-106933899	NOTEST	0.731964	0.182253
Vamp1	chr6:125215580-125222306	OK	294.394	73.1802
Chrm2	chr6:36333137-36524774	OK	5.13508	1.27531
Iqch	chr9:63421619-63602448	NOTEST	0.0290311	0.00720277

Arhgef4	chr1:34801721-34812754	OK	33.2762	8.25592
Tnfsf9	chr17:57092022-57107757	NOTEST	0.174543	0.0433029
Adra2a	chr19:54045181-54048982	OK	2.85221	0.707192
Hs3st4	chr7:123983180-124398989	OK	2.83	0.700755
Arhgef40	chr14:51984832-52020733	OK	10.9518	2.709
Rasgrf1	chr9:89909774-90026979	OK	3.60867	0.891838
Tgfbr3	chr5:107106569-107289595	OK	15.8089	3.90405
Arhgef6	chrX:57231484-57338729	OK	9.2474	2.28345
Cygb	chr11:116645594-116654313	OK	24.0753	5.9422
Adtrp	chr13:41763147-41847616	NOTEST	0.495858	0.122359
Asic3	chr5:24413450-24417834	OK	55.5911	13.7055
Zic5	chr14:122459159-122465658	NOTEST	0.0810765	0.0199731
Lipi	chr16:75540513-75586061	NOTEST	0.0392983	0.00967726
B3gat1	chr9:26751561-26761338	OK	1.32278	0.325651
Epha2	chr4:141301220-141329384	OK	1.25831	0.309414
Prkcb	chr7:122289124-122634401	OK	17.6231	4.33283
Epb4.1l2	chr10:25359797-25523518	OK	28.3289	6.96479
Met	chr6:17463956-17573980	NOTEST	0.752983	0.185031
Grm8	chr6:27275120-28134369	OK	9.36516	2.30104
Tex40	chr19:6922425-6925380	OK	5.96139	1.46459
Ajap1	chr4:153373220-153482830	NOTEST	0.0568757	0.0139502
Emilin1	chr5:30913785-30921273	OK	1.05908	0.259726
Ndrg2	chr14:51905270-51913488	OK	82.4777	20.2232
Emilin3	chr2:160906437-160912339	NOTEST	0.0976558	0.0239026
Phf19	chr2:34893754-34913976	NOTEST	0.230128	0.0562997
Cntn1	chr15:92051164-92341967	OK	133.551	32.5727
Ccdc65	chr15:98708226-98723333	OK	1.54746	0.376376
Stxbp5l	chr16:37107309-37384958	OK	6.71742	1.63294
Kndc1	chr7:139894695-139941540	OK	3.98169	0.967615
Traf1	chr2:34943257-34961772	NOTEST	0.789065	0.191722
Copz2	chr11:96849875-96861202	OK	6.33057	1.53671
Il34	chr8:110741828-110805924	OK	13.4723	3.26259
Dlgap2	chr8:14095874-14847686	NOTEST	0.3294	0.0797293
Nr1d1	chr11:98767931-98775377	OK	13.1252	3.1715
L3hypdh	chr12:72073427-72085313	NOTEST	0.852746	0.205909
Lrtm2	chr6:119236525-119352407	NOTEST	0.290885	0.0701948
Rhobtb3	chr13:75869536-75943824	OK	12.1141	2.92217
Vdr	chr15:97854426-97908296	NOTEST	0.207993	0.0500868
Gm7854	chr5:43151685-43289724	NOTEST	0.21572	0.0519196
Sla	chr15:66670769-66850720	NOTEST	0.439717	0.105731
Ikzf4	chr10:128632414-128645993	NOTEST	0.167963	0.0403767
Hspb6	chr7:30553301-30555439	OK	8.55716	2.05686
Tuba4a	chr1:75210828-75219253	OK	179.361	43.1094
Tlr5	chr1:182954787-182976044	OK	1.50935	0.362619
Asb2	chr12:103321141-103356001	OK	1.34389	0.322594
Spin4	chrX:95022506-95026682	NOTEST	0.312583	0.0749948
Syt15	chrX:9885620-9998864	NOTEST	0.0357136	0.00856447
Slc16a14	chr1:84906704-84935083	OK	1.27668	0.305832
Phyhipl	chr10:70440667-70599291	OK	44.8915	10.736
5930430L01Rik	chr5:148990055-148995215	NOTEST	0.41562	0.0993441
Itih5	chr2:10153542-10256529	OK	20.6955	4.92855
S100a4	chr3:90603769-90606045	OK	35.8161	8.52247
Slc16a6	chr11:109440077-109573329	OK	6.19415	1.4735

Shroom2	chrX:152609508-152769486	OK	7.06751	1.6791
P2rx1	chr11:72999144-73015197	NOTEST	0.0771528	0.0183241
Cspg5	chr9:110243782-110262576	OK	2.76725	0.656556
Lamb1	chr12:31265293-31329639	OK	28.5008	6.75975
Plch2	chr4:154983114-155010984	OK	0.878891	0.208433
Chst1	chr2:92599706-92615252	OK	3.91574	0.928149
Ccl6	chr11:83582060-83623693	OK	1.26575	0.299766
Mep1a	chr17:43474328-43502773	NOTEST	0.0676704	0.0160185
Col25a1	chr3:130180844-130599883	OK	2.16886	0.513354
Col19a1	chr1:24257682-24587437	OK	0.886915	0.209812
Adam23	chr1:63445903-63596515	OK	117.114	27.7044
Jam3	chr9:27097383-27155421	OK	30.5318	7.22031
Ecsr	chr18:35713088-35721491	OK	5.80319	1.36988
Gja1	chr10:56377299-56390419	OK	19.1208	4.50863
Shmt1	chr11:60788896-60811265	NOTEST	0.145856	0.0342831
Raver2	chr4:101069037-101265282	OK	1.39296	0.327277
Rab31	chr17:65651725-65772752	OK	13.1244	3.08167
Hrct1	chr4:43727197-43728110	NOTEST	0.21939	0.0514705
Hbegf	chr18:36504926-36515805	OK	5.92081	1.38657
Styx11	chr5:135747219-135778385	NOTEST	0.139948	0.0327332
Pde9a	chr17:31386233-31476309	NOTEST	0.694861	0.162373
Gng11	chr6:4003986-4008446	OK	9.10329	2.12484
Apobec2	chr17:48419230-48432728	NOTEST	0.443514	0.103427
Sez6l	chr5:112419150-112577198	OK	3.55	0.827231
Btnl6	chr17:34507934-34517352	NOTEST	0.450477	0.104912
Rasd2	chr8:75213943-75224113	OK	4.11835	0.958579
Syt3	chr7:44384125-44400030	OK	18.671	4.34501
Naprt1	chr15:75890963-75894481	OK	1.32391	0.307858
Ucp3	chr7:100472990-100486432	NOTEST	0.284385	0.0661018
Kank4	chr4:98754891-98817537	OK	30.1532	7.00402
Tnfrsf22	chr7:143636724-143649638	OK	0.937721	0.217703
Cthrc1	chr15:39076931-39087119	OK	6.18176	1.43252
Lama4	chr10:38965514-39110188	OK	13.0669	3.02725
Setbp1	chr18:78750377-79109391	OK	1.30437	0.301951
Cpxm1	chr2:130390774-130397629	OK	4.87184	1.12764
Mdga1	chr17:29827957-29887882	OK	6.92624	1.60106
Bace2	chr16:97356727-97439012	OK	5.10275	1.17761
Sspo	chr6:48448228-48501250	NOTEST	0.0973208	0.0224463
Nfam1	chr15:82996735-83033397	NOTEST	0.399955	0.0922356
Tcn2	chr11:3917077-3932078	OK	17.4188	4.01677
Creb3l4	chr3:90237499-90243512	NOTEST	0.175557	0.0404545
S100a9	chr3:90692629-90695721	OK	28.9284	6.66451
Retsat	chr6:72598627-72607488	OK	3.43704	0.791459
Lhfpl1	chrX:145290358-145348894	OK	20.1078	4.62982
Ddit4l	chr3:137623671-137628332	NOTEST	0.746623	0.171846
Slc1a1	chr19:28835165-28913960	OK	2.52289	0.580441
Mal	chr2:127633225-127656695	OK	70.8689	16.299
Abi3	chr11:95824499-95845731	NOTEST	0.368164	0.0845168
Abhd11os	chr5:135009151-135013157	OK	1.37119	0.314762
F2r	chr13:95601788-95618433	OK	10.0867	2.31431
Lrrtm4	chr6:80018876-80810143	OK	1.39732	0.320527
Cyp2s1	chr7:25802475-25816530	OK	1.47461	0.338191
Kcnq3	chr15:65994914-66286224	OK	5.03976	1.15566

Ptprq	chr10:107517359-107720027	NOTEST	0.183359	0.0420353
Gm6249	chr7:136667954-136710604	NOTEST	0.0882858	0.0201869
Rassf4	chr6:116633007-116673836	OK	17.2808	3.94627
Prg2	chr2:84980460-84983632	OK	1.19169	0.272057
D430041D05Rik	chr2:104143074-104410334	OK	3.604	0.822667
Xkrx	chrX:134149044-134161928	NOTEST	0.158065	0.0360759
Nova1	chr12:46694516-46818775	OK	1.12948	0.25767
Cntnap5b	chr1:99772764-100485942	OK	1.71747	0.391724
Tspan6	chrX:133891069-133898429	OK	6.16762	1.40517
Scn8a	chr15:100870644-101045938	OK	36.3577	8.27855
Ppp2r3a	chr9:101104988-101251832	OK	4.8287	1.09947
Adh1	chr3:138277644-138290691	OK	1.31011	0.297698
Dusp4	chr8:34807609-34819894	OK	2.96115	0.672792
Tyrobp	chr7:30413787-30417579	OK	4.32743	0.982974
Cyp4f18	chr8:71988481-72009626	NOTEST	0.238555	0.0541548
Prtn3	chr10:79697304-80369637	NOTEST	0.602551	0.136711
Gatsl3	chr11:4218250-4222409	OK	2.71103	0.612653
Tbx15	chr3:99253759-99354260	NOTEST	0.616421	0.1393
Sapcd2	chr2:25372034-25378213	NOTEST	0.112392	0.0253735
Tesk2	chr4:116720954-116807559	OK	3.4214	0.770836
Sult1a1	chr7:126672869-126676357	OK	8.35574	1.88139
Sash1	chr10:8722218-8886070	OK	8.57433	1.9301
5930412G12Rik	chr5:128579129-128600687	NOTEST	0.270532	0.0608688
Nrtn	chr17:56751324-56757530	NOTEST	0.914771	0.205794
Fap	chr2:62500935-62574021	OK	0.962799	0.216569
Hck	chr2:153108467-153151441	NOTEST	0.423493	0.094976
Clmp	chr9:40685963-40784046	OK	18.2657	4.09623
Gramd3	chr18:56432131-56503792	OK	1.11781	0.250582
Gpr141	chr13:19749681-19824257	NOTEST	0.15794	0.035368
Skor1	chr9:63138163-63148961	NOTEST	0.0955346	0.0213891
Ephx3	chr17:32183769-32189463	NOTEST	0.300343	0.0672417
Mertk	chr2:128698996-128802188	OK	3.98807	0.892289
Cyp1a1	chr9:57687927-57703824	NOTEST	0.105958	0.0236742
Shpk	chr11:73199481-73224506	OK	7.39158	1.64957
Sall1	chr8:89027242-89044162	NOTEST	0.0173663	0.00387279
Gm5860	chr4:82065379-82102807	NOTEST	0.116703	0.026019
Klra21	chr6:129972081-130386874	NOTEST	0.000207869	4.62E-05
Myh4	chr11:67237811-67260447	NOTEST	0.1315	0.029236
Clic4	chr4:135213969-135272760	OK	34.2337	7.60614
Gpr171	chr3:59006977-59344256	NOTEST	0.0890167	0.0197636
Arap2	chr5:62602445-62766177	OK	9.42169	2.08957
Apobec1	chr6:122577791-122602444	OK	1.82366	0.404181
Ptpn14	chr1:189728267-189876693	OK	2.80783	0.621153
Capg	chr6:72544390-72562983	OK	19.8828	4.39084
Ankrd33	chr15:101115754-101120024	NOTEST	0.213601	0.0471058
Lrrc4c	chr2:96318168-97631664	OK	11.5447	2.54119
Fhod1	chr8:105329159-105347970	NOTEST	0.79291	0.174521
Scn4b	chr9:45139041-45154061	OK	144.293	31.7115
Chst9	chr18:15452174-15718046	OK	1.23407	0.271167
AI464131	chr4:41495600-41503075	OK	8.40502	1.84435
Pcp4	chr16:96467605-96525793	OK	419.103	91.9509
Plxnb1	chr9:109095435-109119915	OK	4.01821	0.881493
Plet1	chr9:50488798-50505639	NOTEST	0.126623	0.0277767

Iqsec1	chr6:90659597-90810123	OK	33.9261	7.43489
Clu	chr14:65968482-65981545	OK	251.457	55.0709
Nr1h3	chr2:91184060-91195116	OK	1.72301	0.377305
Gm3086	chr12:69746847-69987002	NOTEST	0.441206	0.0964977
Gm11837	chr4:14930640-15149131	OK	1.42025	0.310364
Spaca1	chr4:34024871-34050067	NOTEST	0.102648	0.0223396
Reep6	chr10:79697304-80369637	OK	1.1234	0.244476
Vangl1	chr3:102155899-102204693	OK	2.33675	0.508316
Phlpp1	chr1:106171868-106394245	OK	6.60745	1.43626
Twist2	chr1:91801476-91848027	NOTEST	0.0756388	0.0164299
Sgk2	chr2:162987480-163014139	NOTEST	0.0805972	0.017497
35489	chr8:65618039-66471637	NOTEST	0.575842	0.124959
Slc27a6	chr18:58556239-58612869	NOTEST	0.202017	0.0437811
1700023E05Rik	chr5:77004054-77061522	NOTEST	0.0594244	0.0128674
AI197445	chr13:107469821-107479188	NOTEST	0.202855	0.0438822
Zcchc5	chrX:106837081-106840643	NOTEST	0.0734372	0.0158788
Rgma	chr7:73310379-73419899	OK	5.0141	1.08349
Bmp1	chr14:70474554-70520260	OK	4.7784	1.03235
Pon3	chr6:5220851-5256233	OK	1.13127	0.243999
Grem2	chr1:174833784-174921819	OK	1.47119	0.317258
Cdh15	chr8:122848373-122867397	OK	4.25402	0.915757
Tgm4	chr9:123034740-123067558	OK	1.03067	0.221726
Hapln2	chr3:88021749-88027511	NOTEST	0.103629	0.0222904
Wif1	chr10:121034003-121100642	NOTEST	0.127436	0.0274104
Tenm2	chr11:36006655-36944241	OK	4.27471	0.919225
Prdm16	chr4:154316124-154636873	OK	2.18934	0.470713
C1rl	chr6:124493112-124510643	NOTEST	0.196335	0.0421624
Mchr1	chr15:81235498-81238964	OK	1.36398	0.292875
Ifitm6	chr7:141015811-141016892	NOTEST	0.622247	0.133571
Syce1	chr7:140777228-140787854	NOTEST	0.067399	0.0144638
Gm3985	chr8:32888504-32950026	NOTEST	0.039401	0.00845131
Tmem47	chrX:81070643-81097875	OK	52.8972	11.3417
Gja5	chr3:97032401-97053634	NOTEST	0.121839	0.0261173
Mt1	chr8:94179088-94180327	OK	128.34	27.4935
Rcn3	chr7:45082913-45092213	OK	14.1017	3.01871
Sorcs1	chr19:50143300-50678646	OK	11.2034	2.39639
Scube3	chr17:28142525-28171345	NOTEST	0.200655	0.0428962
Heg1	chr16:33684465-33768195	OK	7.07451	1.51188
Col4a4	chr1:82450722-82586849	NOTEST	0.388258	0.0829218
2310030G06Rik	chr9:50739690-50746521	OK	1.01324	0.216307
Mmp8	chr9:7558428-7568486	NOTEST	0.652237	0.139151
Gal3st1	chr11:3983635-3999328	OK	9.11073	1.94251
Tnfaip8l1	chr17:56162490-56173955	OK	1.34831	0.287366
Qprt	chr7:127107769-127122029	OK	1.92992	0.411268
1700012D01Rik	chr10:127667122-127668851	NOTEST	0.391561	0.0833642
Ramp3	chr11:6650147-6677475	OK	1.74773	0.372014
Chrna7	chr7:63098691-63212526	OK	34.4394	7.32868
Igfals	chr17:24878769-24882008	NOTEST	0.19271	0.0409357
Shisa7	chr7:4825551-4844696	OK	1.30072	0.276287
Mmp9	chr2:164948218-164955849	NOTEST	0.678942	0.144161
Ust	chr10:8204752-8518825	OK	22.1575	4.70093
Tnxb	chr17:34670534-34719815	OK	3.11951	0.661595
E330011O21Rik	chr16:78250862-78255454	NOTEST	0.137114	0.0290349

Atp6ap1l	chr13:90883448-90905355	OK	4.43748	0.938798
Lrp5	chr19:3584824-3686564	OK	3.47242	0.734585
Aoc3	chr11:101330605-101339430	OK	1.36377	0.288415
Klhl14	chr18:21550376-21656107	NOTEST	0.0225095	0.00475923
Nr4a3	chr4:48051247-48083352	NOTEST	0.219872	0.0464395
Negr1	chr3:156561793-157316464	OK	8.87115	1.8731
Tnnt3	chr7:142460811-142516009	NOTEST	0.523941	0.110556
Rassf6	chr5:90603075-90640487	OK	1.31403	0.277257
Tctex1d1	chr4:102760134-103011965	OK	1.10398	0.232699
Foxd2os	chr4:114909288-114921118	NOTEST	0.154807	0.0325987
Itpripl2	chr7:118485111-118491975	OK	4.99057	1.04909
BC049352	chr9:45172725-45249985	OK	0.868771	0.182337
Rrad	chr8:104628065-104631321	NOTEST	0.377472	0.0791828
Arl11	chr14:61309752-61311936	NOTEST	0.153616	0.0322196
Esr1	chr10:4612045-5003761	OK	3.95623	0.829595
Kank2	chr9:21766772-21798546	OK	4.9814	1.04326
4930447K03Rik	chr13:34084154-34113272	NOTEST	0.130973	0.0274225
Dbp	chr7:45705246-45718002	OK	17.1149	3.57876
Sgk1	chr10:21882183-21999902	OK	24.1679	5.05052
Slc2a10	chr2:165503896-165519917	NOTEST	0.398407	0.0831924
Igsf21	chr4:140026851-140246811	OK	13.4824	2.81361
Suclg2	chr6:95473008-95718846	OK	2.07922	0.433759
1700008O03Rik	chr7:44360044-44375030	NOTEST	0.54082	0.11273
Wnk3	chrX:151198077-151341879	OK	1.6299	0.339483
1110017D15Rik	chr4:41505008-41517333	NOTEST	0.649168	0.135189
6330410L21Rik	chr3:129677574-129763882	NOTEST	0.0537413	0.0111863
Nfix	chr8:84701456-84800338	OK	5.1714	1.07596
Kank1	chr19:25237201-25434496	OK	6.58474	1.37
AI848285	chr15:82206951-82212815	NOTEST	0.250557	0.0521085
Gm10658	chr9:56994967-57071966	NOTEST	0.11208	0.0233043
St8sia2	chr7:73939119-74013682	NOTEST	0.361564	0.0751461
Coch	chr12:51593340-51605773	NOTEST	0.396825	0.0824052
Lrfn2	chr17:48932581-49097590	OK	4.35346	0.90399
Plekhg2	chr7:28359603-28372662	OK	4.15593	0.862766
2210039B01Rik	chr12:73548482-73551986	NOTEST	0.124833	0.0259019
Tmem181c-ps	chr17:6610102-6620925	OK	1.77975	0.369025
Htr3a	chr9:48899212-48911099	OK	70.9188	14.6301
Gm9866	chr12:27140795-27160516	OK	4.18936	0.862335
Rhoj	chr12:75308312-75401455	OK	5.24169	1.07774
Aoah	chr13:20794112-21024254	NOTEST	0.186732	0.0383567
Mybph	chr1:134193447-134235457	NOTEST	0.0546959	0.0111881
Cyp26c1	chr19:37685679-37693307	NOTEST	0.0657352	0.0134448
Athl1	chr7:140941580-140947658	OK	2.13019	0.435613
Hfe	chr13:23703840-23710811	OK	3.53069	0.721839
Unc80	chr1:66468446-66699148	OK	19.8359	4.05141
Pcdha8	chr18:36930284-37841872	NOTEST	0.195985	0.0400264
Olfm2	chr9:20667985-20728214	OK	6.72234	1.37158
Vsx1	chr2:150680701-150689137	NOTEST	0.0264534	0.00539672
Grid2ip	chr5:143357337-143391798	OK	1.95074	0.397538
Lrp4	chr2:91457530-91513901	OK	2.3599	0.480693
Adamts6	chr13:104287872-104494763	NOTEST	0.276554	0.0563214
Ptch2	chr4:117096355-117114831	NOTEST	0.225582	0.0459131
Npy5r	chr8:66679964-66688094	NOTEST	0.337365	0.0685914

Mylk	chr16:34784949-35002434	OK	2.46145	0.499887
F630028O10Rik	chrX:96239925-96243642	NOTEST	0.0875092	0.0177467
Acss3	chr10:106936163-107123664	NOTEST	0.730751	0.147859
Gsta4	chr9:78191965-78209349	OK	16.0367	3.24334
Slco5a1	chr1:12866549-12991135	OK	8.62223	1.74367
Ninj2	chr6:120093379-120200338	NOTEST	0.146404	0.0295526
Ldhb	chr6:142490248-142507943	OK	130.996	26.4035
Fgr	chr4:132974094-133001882	NOTEST	0.143121	0.0287778
Dnah2	chr11:69420808-69549108	NOTEST	0.135388	0.0272103
Kcne4	chr1:78816948-78820025	OK	1.90745	0.383316
Amhr2	chr15:102445366-102454639	NOTEST	0.525725	0.105648
Grp	chr18:65873478-65886596	NOTEST	0.155525	0.0312353
Plscr2	chr9:92275601-92297752	OK	5.28177	1.0595
Scn1a	chr2:66270781-66440837	OK	28.2254	5.6526
Chrm1	chr19:8664004-8683602	NOTEST	0.450797	0.0902721
Tmigd1	chr11:76904544-76916586	NOTEST	0.558372	0.111814
Lgr4	chr2:109917646-110014257	OK	20.1066	4.02562
Rbp1	chr9:98422960-98446550	OK	3.33355	0.667219
Gpr158	chr2:21367566-21830542	OK	40.6674	8.13834
Chrna3	chr9:55011342-55026559	OK	9.20085	1.84125
Cadm4	chr7:24482022-24504533	OK	70.3086	14.0618
Emp1	chr6:135362930-135383173	OK	6.46847	1.29207
Pxn	chr5:115506675-115555987	OK	12.3559	2.46504
Chpt1	chr10:88459586-88503970	OK	12.9387	2.57725
Gsap	chr5:21186266-21291701	OK	2.86524	0.570227
Il18	chr9:50565367-50581837	OK	3.13902	0.624334
Ccdc170	chr10:4509871-4561111	NOTEST	0.281694	0.056001
Col26a1	chr5:136741763-136883107	OK	2.30723	0.458186
Hoxb9	chr11:96271329-96276593	OK	4.00658	0.795543
Fam198b	chr3:79885929-79946278	OK	9.73123	1.92898
Dcc	chr18:71253631-72351069	NOTEST	0.255821	0.0506179
Glra3	chr8:55940824-56125352	NOTEST	0.0726562	0.0143267
Mboat2	chr12:24831598-24960299	OK	22.7847	4.49233
Dennd2a	chr6:39462377-39557834	OK	4.40751	0.868543
Flt3	chr5:147330741-147400489	OK	8.79299	1.73178
Dpep1	chr8:123186234-123201813	NOTEST	0.760773	0.149821
Nfasc	chr1:132564689-132741797	OK	36.9147	7.26481
Fam115c	chr6:42623042-42645041	OK	2.1663	0.425781
Hs3st1	chr5:39613934-39644631	OK	8.11326	1.59272
Il17rb	chr14:29996167-30008896	NOTEST	0.701209	0.137627
Fxyd7	chr7:31042514-31051454	OK	231.684	45.2761
Cyp7b1	chr3:18071949-18243338	OK	3.73685	0.728872
Grm1	chr10:10686058-11082331	NOTEST	0.0501363	0.00976496
Kcnj15	chr16:95257557-95300258	NOTEST	0.153356	0.0298449
D330050G23Rik	chr2:116900151-116912791	OK	0.784557	0.152429
Pla2g4e	chr2:120166411-120245335	NOTEST	0.602141	0.116964
Abca12	chr1:71243089-71414910	NOTEST	0.0902223	0.0175135
Relt	chr7:100845847-100863413	OK	8.56521	1.66179
Rapgef11	chr11:98836784-98853005	NOTEST	0.541182	0.104968
Ntf3	chr6:126101411-126166744	NOTEST	0.602961	0.116822
Cdc42ep1	chr15:78842646-78855529	OK	7.0332	1.36037
Tmco4	chr4:138972904-139059171	OK	1.75742	0.337895
Alox5ap	chr5:149265057-149288047	OK	2.05909	0.395708

Tmem163	chr1:127490341-127678021	OK	17.5376	3.37005
Pygm	chr19:6384428-6398459	NOTEST	0.789066	0.151437
Pgr	chr9:8899832-8968611	OK	1.72309	0.330448
Olfm3	chr3:114863252-115125764	OK	1.549	0.296801
Rcsd1	chr1:165648944-165708094	OK	6.5528	1.25387
Lrrc8e	chr8:4226826-4237470	NOTEST	0.151858	0.0290514
Clec4d	chr6:123262106-123275268	NOTEST	0.0901094	0.0172118
Cbln2	chr18:86713047-86718283	OK	20.4512	3.90535
Eln	chr5:134702595-134747254	OK	7.15667	1.36641
Akr1c13	chr13:4191186-4205603	NOTEST	0.430097	0.0820114
Syt13	chr2:92915100-92956051	OK	1.34343	0.25557
Perm1	chr4:156215926-156221307	NOTEST	0.620066	0.117891
Meox2	chr12:37108545-37179528	OK	1.15115	0.218352
Fgf11	chr11:69796067-69801716	OK	6.27778	1.19037
Ciart	chr3:95871521-95891930	OK	2.00513	0.380134
Cpxm2	chr7:132042809-132154741	OK	2.0229	0.381765
Rad21l	chr2:151645403-151668533	NOTEST	0.14949	0.0281663
Wnt5b	chr6:119432530-119544347	NOTEST	0.651838	0.122621
Smoc1	chr12:81026807-81186414	OK	4.36098	0.819292
Sowahb	chr5:93041122-93045022	NOTEST	0.573182	0.107681
Kazald1	chr19:45076138-45079289	OK	5.16113	0.969525
Fzd8	chr18:9212855-9216201	OK	3.87034	0.726799
Ociad2	chr5:73322198-73338639	OK	3.00614	0.564106
Anxa1	chr19:20373433-20390671	OK	5.86754	1.10015
Gabrb2	chr11:42419756-42632591	OK	5.35282	1.0025
Acot4	chr12:84038378-84044723	NOTEST	0.343966	0.0643502
Ppap2b	chr4:105157346-105232767	OK	35.0753	6.55448
Lbp	chr2:158306492-158332852	OK	5.45301	1.01787
Cacna2d4	chr6:119236525-119352407	NOTEST	0.0348338	0.00648146
Kcnc3	chr7:44590885-44604751	OK	32.2655	5.99438
Fgfr1	chr8:25518758-25575718	OK	58.6167	10.8813
Cpne6	chr14:55510447-55517431	OK	176.898	32.8155
Fam178b	chr1:36562695-36683183	OK	27.914	5.17682
Akr1b10	chr6:34384246-34396949	OK	3.15946	0.58537
Pik3r5	chr11:68432124-68497846	OK	0.902504	0.167192
Capn6	chrX:143802236-143827412	OK	0.821202	0.151982
Cox4i2	chr2:152754172-152831728	OK	1.06765	0.197388
Ppargc1a	chr5:51454248-51553921	OK	5.94364	1.09743
Batf	chr12:85686719-85709087	NOTEST	0.141262	0.0260683
Plbd1	chr6:136612070-136661893	OK	0.91435	0.168638
Rab34	chr11:78188426-78192193	OK	7.62756	1.40459
Fn1	chr1:71585472-71653234	OK	9.59686	1.76716
Adra1b	chr11:43774604-43901237	NOTEST	0.736553	0.135563
Pcdh9	chr14:93013699-93890669	OK	22.4547	4.13015
Gatm	chr2:122594472-122611277	OK	101.873	18.6685
C130060K24Rik	chr6:65381293-65458150	NOTEST	0.751241	0.137462
Gpr124	chr8:27085840-27123436	OK	4.3787	0.801014
Samd4	chr14:46882964-47105817	OK	2.72749	0.498406
Lynx1	chr15:74747855-74752979	OK	157.363	28.7309
Mcf2	chrX:60055955-60179089	OK	1.63544	0.298412
Tlr3	chr8:45395664-45410539	OK	2.29908	0.418941
Kcnc1	chr7:46396467-46438704	OK	21.3975	3.89842
Ankrd35	chr3:96670130-96691034	OK	3.29198	0.599192

Zfp750	chr11:121451948-121673151	NOTEST	0.245938	0.0447436
9430041J12Rik	chr7:4074124-4136926	NOTEST	0.394432	0.0716956
Chst2	chr9:95400925-95407270	OK	12.5514	2.28038
Sec14I5	chr16:5147108-5183934	OK	1.50689	0.273368
Lamc3	chr2:31887280-31946535	OK	1.6197	0.293551
Lcp2	chr11:34047200-34092280	OK	1.11982	0.202886
2410018L13Rik	chr12:22953996-23010243	OK	1.09859	0.199018
Inpp4b	chr8:81715199-82122561	NOTEST	0.285725	0.0516794
Fam181b	chr7:93079878-93081721	OK	8.09885	1.4638
Fads6	chr11:115283365-115297546	OK	11.3872	2.05714
Efna3	chr3:89314950-89322879	OK	1.75984	0.317814
BC026585	chr1:157458581-157488733	OK	2.27773	0.410968
Ddc	chr11:11814100-11898144	NOTEST	0.678675	0.122453
Il5ra	chr6:106710378-106749037	NOTEST	0.0902013	0.0162628
Rfx8	chr1:39665300-39720989	NOTEST	0.261404	0.0471289
Dcaf12l2	chrX:44365456-44368337	NOTEST	0.0376672	0.00678403
Slc22a3	chr17:12419973-12507704	NOTEST	0.542956	0.0976881
Nr2f2	chr7:70351949-70411146	OK	12.2439	2.20149
Creb5	chr6:53573373-53695832	OK	1.33715	0.240276
Mfap2	chr4:141010423-141015984	OK	1.33656	0.240096
Wfdc6b	chr2:164613699-164618213	NOTEST	0.178622	0.0320626
Ptprj	chr2:90429755-90580647	OK	3.23047	0.579648
Gm5607	chr8:12385770-12436732	NOTEST	0.0224323	0.00402384
Asb18	chr1:89952677-90014577	NOTEST	0.100832	0.0180777
Trib1	chr15:59648653-59657099	OK	4.06921	0.729153
Klhl13	chrX:23219270-23365082	OK	11.152	1.99697
Wfdc1	chr8:119666364-119688020	OK	2.61248	0.467725
Fbn1	chr2:125300593-125506438	OK	4.693	0.839319
Syndig1	chr2:149830782-150004392	OK	3.65527	0.651889
Prex2	chr1:10993464-11303682	OK	5.36132	0.95525
Pard3	chr8:127064055-127612286	OK	5.50679	0.980545
Clec11a	chr7:44303765-44306959	OK	0.998314	0.177485
Gstk1	chr6:42245934-42250441	OK	7.84202	1.39367
Gfpt2	chr11:49794154-49838620	OK	0.859664	0.152748
AA467197	chr2:122637886-122641076	NOTEST	0.236887	0.0420114
Vwc2l	chr1:70725714-70885397	OK	3.66059	0.648615
Lrrc17	chr5:21483846-21645605	OK	1.03864	0.183803
Alox15	chr11:70344146-70352031	NOTEST	0.099967	0.0176722
Hpd1	chr4:116819906-116821508	OK	1.45786	0.257668
Fam69c	chr18:84720241-84740436	NOTEST	0.0528166	0.00932391
Epb4.1l4b	chr4:57061725-57143156	OK	7.25299	1.27878
4930502E18Rik	chrX:53724830-53738222	OK	1.30586	0.230226
Sulf2	chr2:166073898-166155683	OK	19.6662	3.46445
Glyat	chr19:12633307-12651737	NOTEST	0.867955	0.152796
Vit	chr17:78508062-78627409	OK	3.63922	0.640144
Fhod3	chr18:24708622-25168877	OK	4.37547	0.768342
Fam83f	chr15:80671846-80700425	OK	1.39601	0.245026
G0s2	chr1:193272159-193273188	OK	9.52087	1.67021
Gsn	chr2:35256358-35307902	OK	116.688	20.4571
Parp3	chr9:106470352-106476651	OK	5.87475	1.02965
Fam196a	chr7:134670686-135173647	NOTEST	0.39435	0.0690989
Astn2	chr4:65380802-66404483	OK	12.683	2.22068
Lctl	chr9:64117146-64172931	OK	1.36919	0.239643

Cd33	chr7:43527455-43533171	NOTEST	0.363205	0.0635481
Corin	chr5:72300024-72504540	NOTEST	0.09397	0.0164371
B3galt5	chr16:96235800-96319858	OK	8.93456	1.56191
2010107G12Rik	chr6:34945294-34977999	NOTEST	0.0532891	0.00929999
Cgnl1	chr9:71626508-71771602	OK	26.7935	4.65777
Ptgis	chr2:167203195-167240537	OK	2.51951	0.437644
Fstl5	chr3:76074560-76710005	OK	12.9749	2.25151
Gucy1a3	chr3:82092426-82145877	OK	1.75121	0.303875
Nr4a1	chr15:101266845-101274794	OK	41.0628	7.11489
Fkbp11	chr15:98724367-98728198	NOTEST	0.68988	0.119533
Lct	chr1:128284763-128328318	NOTEST	0.774527	0.134142
Smtnl1	chr2:84811175-84822652	NOTEST	0.0674394	0.0116782
Pacsin3	chr2:91256164-91264680	OK	5.56057	0.962771
Gal3st4	chr5:138259657-138272754	NOTEST	0.0808397	0.0139719
Col4a1	chr8:11198422-11312826	OK	29.4197	5.08217
Gm1715	chr9:52679862-52798772	NOTEST	0.154518	0.0266281
Thrsp	chr7:97412956-97417510	OK	13.3788	2.30316
Cxcr4	chr1:128588198-128592299	OK	14.2569	2.45109
4930505A04Rik	chr11:30426005-30471829	NOTEST	0.29485	0.0506085
Dock1	chr7:134670686-135173647	OK	4.74467	0.814108
C1qtnf3	chr15:10952331-10980162	NOTEST	0.186119	0.0319029
Wisp1	chr15:66891392-66923199	OK	1.7375	0.297767
Kcng4	chr8:119623853-119635680	OK	5.17658	0.887003
Ces4a	chr8:105131799-105150109	NOTEST	0.0475959	0.00815029
Glb1l3	chr9:26817952-26860823	NOTEST	0.0469218	0.00803471
Kbtbd13	chr9:65388683-65391652	NOTEST	0.0460326	0.0078764
Gprc5b	chr7:118842217-118995211	OK	30.3309	5.17323
Tomt	chr7:101899807-101911903	NOTEST	0.199218	0.0339653
Lhfp	chr3:53041546-53261679	OK	22.9137	3.90496
Plekha7	chr7:116124117-116189841	OK	2.70538	0.460698
CK137956	chr4:127927591-127970841	OK	0.997387	0.169837
Mc4r	chr18:66857704-66860487	NOTEST	0.549644	0.0935597
Pygo1	chr9:72925649-72946015	OK	2.12042	0.360667
Kcnk1	chr8:125995101-126030688	OK	43.7343	7.42451
Smpd2	chr10:41487171-41490340	OK	5.52525	0.936956
Rbpjl	chr2:164389392-164415448	NOTEST	0.0475789	0.00806688
Caskin2	chr11:115799351-115813592	OK	9.45282	1.60161
Sema3g	chr14:31217872-31229511	OK	11.1768	1.88807
Ddn	chr15:98803781-98807925	OK	5.69686	0.961112
Pld6	chr11:59783892-59787657	NOTEST	0.221365	0.0373282
Sox5	chr6:143828424-144209568	OK	0.792971	0.133365
Igdcc4	chr9:65101485-65137947	OK	3.10854	0.522671
Dhrs3	chr4:144892826-144927645	OK	5.89778	0.991389
Slmo1	chr18:67464848-67480581	OK	3.75096	0.630507
Dio2	chr12:90724551-90738438	NOTEST	0.318093	0.0534608
S100a16	chr3:90541222-90543151	OK	35.2284	5.91706
Renbp	chrX:73922120-73930850	OK	1.62865	0.273481
Asb15	chr6:24528143-24573164	NOTEST	0.0601104	0.0100883
Cp	chr3:19957053-20035310	OK	14.3095	2.40115
Ccr2	chr9:124102182-124109140	OK	1.00814	0.168874
Gpx8	chr13:113035378-113091135	OK	15.4392	2.58409
Asb5	chr8:54550330-54587836	NOTEST	0.188691	0.0315815
Stk32b	chr5:37446824-37717153	NOTEST	0.0671059	0.011221

Ttc18	chr14:20394189-20452225	NOTEST	0.459122	0.0765063
Sipa1l2	chr8:125418062-125492710	OK	6.54748	1.0909
Fhl3	chr4:124700698-124708611	OK	2.33016	0.386119
Sik3	chr9:46012819-46224194	OK	4.95651	0.82123
Nfkb2	chr19:46304736-46327156	OK	2.3182	0.382746
Gng7	chr10:80948623-81014925	OK	5.5715	0.918
Pth1r	chr9:110722084-110747145	OK	12.5398	2.06236
Lrrc7	chr3:158082894-158562221	NOTEST	0.296366	0.0486909
Pon2	chr6:5264623-5298373	OK	18.5683	3.04864
Lamc1	chr1:153218921-153332786	OK	18.01	2.9482
Gm10941	chr10:77257772-77259223	NOTEST	0.545916	0.0893175
Mdh1b	chr1:63698826-63730318	NOTEST	0.620817	0.101488
Cdh3	chr8:106510851-106556911	OK	1.03562	0.169296
Mael	chr1:166201384-166238744	NOTEST	0.171821	0.0280713
Htra1	chr7:130936202-130985658	OK	73.7341	12.0408
Pcdhac1	chr18:36930284-37841872	OK	19.8747	3.2426
Csmd3	chr15:47580637-48791989	NOTEST	0.430231	0.0701608
Ednra	chr8:77663028-77724452	OK	2.98788	0.484983
Chp2	chr7:122219495-122222539	OK	32.192	5.22032
Caln1	chr5:130369457-130840645	OK	4.8418	0.785143
Sema5b	chr16:35541361-35664258	OK	1.80224	0.292109
Mmp28	chr11:83441875-83462961	OK	3.02106	0.489598
Slc43a3	chr2:84936645-84958509	OK	19.8969	3.21972
Tox	chr4:6687385-6990723	OK	1.89335	0.30626
Mir143hg	chr18:61639652-61665538	NOTEST	0.116374	0.0188093
Tmem196	chr12:119945961-120018706	OK	3.41982	0.549797
Dag1	chr9:108204860-108263958	OK	61.8579	9.94435
Rsph9	chr17:46129276-46144198	OK	6.75744	1.08564
4933424G06Rik	chr1:36714537-36757960	NOTEST	0.153441	0.0246456
Btnl5-ps	chr17:34487405-34497429	NOTEST	0.101864	0.0163595
Alox5	chr6:116410070-116461178	NOTEST	0.245564	0.0393537
Atp10b	chr11:43149876-43262286	NOTEST	0.209794	0.0335999
Cd86	chr16:36603868-36666077	NOTEST	0.232815	0.0372868
Angpt1	chr15:42424666-42676977	OK	1.43968	0.230401
Tnfsf13	chr11:69682576-69696098	OK	1.76117	0.281737
Bmp7	chr2:172868011-172940321	OK	2.01634	0.322144
Sepp1	chr15:3270766-3280508	OK	179.046	28.5544
Il1f9	chr2:24186475-24193567	NOTEST	0.0847008	0.0135057
Lonrf3	chrX:36328408-36366856	NOTEST	0.423942	0.067544
Rhod	chr19:4425456-4477143	NOTEST	0.582671	0.0925404
1810014B01Rik	chr10:86685526-86689954	NOTEST	0.729696	0.115766
Rbms2	chr10:128129469-128180297	OK	4.63083	0.734032
Foxo1	chr3:52268336-52350109	OK	6.60329	1.04655
Baiap2l1	chr5:144244436-144361005	OK	13.8361	2.19214
Epn3	chr11:94489598-94499974	OK	18.2142	2.88252
D630003M21Rik	chr2:158182532-158229224	OK	1.79903	0.284695
Slc25a13	chr6:6041217-6217173	OK	1.46299	0.231256
Syt1l	chr4:133253089-133263087	NOTEST	0.071719	0.0113346
Myadml2	chr11:120646030-120648337	OK	3.32932	0.525706
38595	chr11:117199660-117362325	OK	23.0594	3.64082
Crybb1	chr5:112255820-112269582	OK	3.17542	0.501223
Zfp395	chr14:65358675-65398930	OK	2.08511	0.328877
Asgr1	chr11:70054123-70057895	NOTEST	0.290383	0.045769

Sec1414	chr11:4031781-4048009	NOTEST	0.0453435	0.00713731
Fbxw10	chr11:62847122-62877462	NOTEST	0.188482	0.0296247
6530402F18Rik	chr2:29194820-29252993	OK	6.46804	1.01626
Cuzd1	chr7:131308553-131322292	NOTEST	0.0605656	0.00951369
Pxdc1	chr13:34627840-34652681	OK	4.75736	0.747281
2810468N07Rik	chr17:25570810-25575043	OK	3.59622	0.564849
Gas2l3	chr10:89408822-89443967	OK	7.86012	1.23414
Pcdh18	chr3:49743295-49757316	OK	2.67415	0.419775
Fam160a1	chr3:85660062-85746209	NOTEST	0.271375	0.0425313
Epha3	chr16:63545217-63864157	NOTEST	0.564331	0.0884377
Zbtb16	chr9:48654296-48835945	OK	2.2518	0.352825
Snai2	chr16:14705858-14709382	NOTEST	0.427905	0.06696
Trappc3l	chr10:34037596-34109815	OK	51.4782	8.05384
Opn1mw	chrX:74127465-74150755	NOTEST	0.122482	0.0191356
Lingo4	chr3:94399218-94404501	OK	3.09527	0.482977
Nfatc4	chr14:55824794-55833943	NOTEST	0.373004	0.0580939
Gm5643	chrX:142297504-142299237	OK	4.91697	0.765784
Plac9b	chr14:26167317-26182351	NOTEST	0.462538	0.0718247
Vim	chr2:13574310-13582826	OK	312.036	48.3967
Atp6v0a4	chr6:38048482-38254009	NOTEST	0.354133	0.054917
Ncam2	chr16:81200696-81624287	OK	10.6048	1.64412
Syt12	chr19:4425456-4477143	OK	6.1837	0.957147
Gc	chr5:89417510-89457898	NOTEST	0.175237	0.0270289
Cmtm3	chr8:104340593-104347672	OK	4.96563	0.765517
Rell1	chr5:63908897-63968897	OK	7.78305	1.19794
Lrrn2	chr1:132880354-132940005	OK	10.1737	1.56312
Mrc1	chr2:14229413-14332023	OK	2.10412	0.323252
Osgin1	chr8:119437161-119446256	OK	0.926444	0.142092
Tmem229b	chr12:78961794-79007277	OK	70.3215	10.7757
Fcer1g	chr1:171229571-171234349	OK	2.09895	0.321285
Me3	chr7:89632817-89854359	OK	1.75763	0.268656
Gm13749	chr1:63964726-63968999	NOTEST	0.461733	0.0704701
Pxylp1	chr9:96823342-96889474	OK	1.213	0.185067
4933425L06Rik	chr13:105082121-105121782	NOTEST	0.0730084	0.0111373
Mlip	chr9:77102083-77347870	OK	11.6836	1.77668
Rgcc	chr14:79288749-79301635	OK	34.1231	5.18032
Etnppl	chr3:130617447-130635750	NOTEST	0.0525121	0.00797199
Dmgdh	chr13:93674435-93752823	NOTEST	0.129376	0.0196322
Wee1	chr7:110122058-110143299	OK	4.50619	0.682869
Rhbdl3	chr11:80300911-80355986	OK	6.35879	0.963506
E030011005Rik	chr9:96685422-96752831	OK	1.38344	0.209585
Dlg2	chr7:91090785-92449246	OK	15.8526	2.40128
Macc1	chr12:119443409-119466932	NOTEST	0.033235	0.00502572
Adamtsl5	chr10:79697304-80369637	OK	3.39329	0.511472
Clmn	chr12:104763113-104865076	OK	1.89899	0.28524
Yipf7	chr5:69516669-69542647	NOTEST	0.119514	0.017942
Irs1	chr1:82233104-82291439	OK	2.23399	0.335214
Tmem98	chr11:80810414-80822033	OK	4.19086	0.628522
Add3	chr19:53140442-53247326	OK	19.041	2.85555
Myo5c	chr9:75232013-75305450	NOTEST	0.0185393	0.00277922
Drp2	chrX:134404779-134456573	OK	36.09	5.40295
Smr2	chr5:88086555-88109053	OK	9.52474	1.42168
Wwtr1	chr3:57455643-57575910	OK	8.61247	1.28484

Casq1	chr1:172209893-172219895	NOTEST	0.666734	0.09932
Fat1	chr8:44950207-45052257	OK	6.67431	0.993606
Tlr13	chrX:106143274-106160493	NOTEST	0.24902	0.0370462
Ppic	chr18:53406340-53418007	OK	4.98387	0.741333
Mas1	chr17:12682405-12868143	NOTEST	0.122256	0.0181835
Sp9	chr2:73271925-73275771	NOTEST	0.0468469	0.00696115
Cdc42bpg	chr19:6306456-6325652	OK	1.08301	0.160824
Kank4os	chr4:98754891-98817537	NOTEST	0.201956	0.0298913
Iffo2	chr4:139530547-139620382	OK	3.72046	0.549987
Klhl34	chrX:157818434-157821060	NOTEST	0.105388	0.0155649
Aqp3	chr4:41092723-41098183	NOTEST	0.158106	0.0233263
Arc	chr15:74669080-74672570	OK	3.34442	0.493166
Nfia	chr4:97567874-98118876	OK	15.63	2.29993
Fam212b	chr3:105704598-105720842	OK	8.14496	1.1957
Gm11413	chr4:83378316-83390668	NOTEST	0.229498	0.0336153
Hyal1	chr9:107576951-107580133	OK	1.04927	0.153599
F9	chrX:59999463-60030758	OK	1.59264	0.233056
Sucnr1	chr3:60081868-60087566	NOTEST	0.217202	0.0317652
Cbln3	chr14:55878919-55884256	NOTEST	0.109888	0.016064
Slc5a9	chr4:111875376-111902796	NOTEST	0.0298966	0.00436717
Fgf10	chr13:118714698-118792573	NOTEST	0.0284709	0.00415499
Pla2g4a	chr1:149829621-149961284	OK	0.892383	0.130213
Proca1	chr11:78193391-78205763	NOTEST	0.591365	0.0862109
Ppp1r9a	chr6:4903319-5165661	OK	8.44914	1.23132
Hoxb8	chr11:96281904-96285325	OK	5.38421	0.784156
Runx3	chr4:135120644-135177990	OK	3.53286	0.514397
Fam19a1	chr6:96113153-96657198	OK	10.6261	1.54535
Sipa1l1	chr12:82170015-82451784	OK	7.33265	1.06506
Clec4a1	chr6:122921847-122934619	NOTEST	0.632208	0.0917507
Cxcl14	chr13:56288642-56296551	NOTEST	0.340922	0.0494368
Mpzl2	chr9:45042343-45054043	NOTEST	0.698815	0.101252
Susd3	chr13:49230830-49248706	NOTEST	0.451834	0.0654463
Pla2g16	chr19:7557458-7588545	OK	19.8942	2.88128
Glt8d2	chr10:82629837-82690650	OK	1.34364	0.194524
Hic1	chr11:75164564-75170255	OK	0.898914	0.130121
Thy1	chr9:44043383-44048579	OK	508.722	73.6375
Dbi	chr1:120113279-120121096	OK	279.419	40.2192
B430212C06Rik	chr18:67321208-67367794	NOTEST	0.174074	0.0250212
Edn3	chr2:174760757-174784042	NOTEST	0.595502	0.0854602
Nipal1	chr5:72647795-72671078	NOTEST	0.639386	0.0916866
S100b	chr10:76253835-76261319	OK	416.322	59.6898
Cmklr1	chr5:113612354-113650390	NOTEST	0.751778	0.107586
Frem2	chr3:53513937-53657355	OK	0.899078	0.128423
Ptchd4	chr17:42315946-42507741	NOTEST	0.603282	0.0861523
Htr6	chr4:139061408-139074789	NOTEST	0.110129	0.0157177
Calb1	chr4:15881263-15906709	OK	27.6068	3.93815
9130019P16Rik	chr6:54039931-54430221	NOTEST	0.0297474	0.00423852
Has2	chr15:56665626-56694546	NOTEST	0.12665	0.0179708
Smtn	chr11:3517521-3539292	OK	12.9367	1.83056
Snx33	chr9:56917199-56928371	OK	1.83034	0.258752
Hspb2	chr9:50751071-50756635	OK	5.04117	0.707618
Nkpd1	chr7:19518730-19525050	NOTEST	0.558544	0.0784016
Grik3	chr4:125490830-125714173	OK	4.39468	0.616767

Esrrb	chr12:86361116-86521628	OK	2.30179	0.322308
Rad51ap2	chr12:11456078-11462928	NOTEST	0.131169	0.018335
Ramp1	chr1:91179821-91225196	NOTEST	0.440333	0.0615332
Yap1	chr9:7932000-8004596	OK	8.8971	1.24152
Galm	chr17:80127470-80185032	OK	9.95351	1.38781
Sox9	chr11:112782209-112787757	NOTEST	0.32409	0.0451758
Myrf1	chr10:116776544-116896879	NOTEST	0.435845	0.0607416
Col6a1	chr10:76708791-76726044	OK	8.95657	1.24659
Tnfrsf23	chr7:143665806-143685872	NOTEST	0.649154	0.0902654
Fam135b	chr15:71445677-71727838	NOTEST	0.0591099	0.00821397
Tspan11	chr6:127887621-127953031	OK	1.0911	0.151598
Tcf7l2	chr19:55741809-55933655	OK	2.01663	0.279589
Cdh22	chr2:165111506-165234737	NOTEST	0.499627	0.0692033
Grm4	chr17:27422387-27503533	OK	10.1537	1.40604
Mrv1	chr7:110868257-110982461	OK	1.6965	0.234577
Plcx1	chr5:110099968-110108197	NOTEST	0.0453839	0.00626591
Tnfrsf6	chr2:52038112-52056681	OK	1.29934	0.178952
1700007K13Rik	chr2:28462000-28466324	NOTEST	0.717954	0.0986892
4930520004Rik	chr9:114368323-114390712	NOTEST	0.297935	0.0409442
Arhgap19	chr19:41766587-41802084	OK	13.974	1.91887
Sfrp4	chr13:19623174-19632823	OK	14.5396	1.99556
Ptx3	chr3:66053557-66296837	NOTEST	0.169577	0.0232342
Ntng2	chr2:29194820-29252993	OK	25.9492	3.54405
Sparcl1	chr5:104079108-104114088	OK	183.564	25.0465
Col5a1	chr2:27886424-28039510	OK	5.27863	0.717108
Cabp7	chr11:4738820-4746778	OK	12.9625	1.75968
Foxc2	chr8:121116170-121118894	OK	0.943541	0.12799
Faim2	chr15:99497004-99528165	OK	54.0537	7.32331
Padi2	chr4:140906359-140957902	OK	1.53102	0.207054
Glit2d2	chr3:85869845-85887518	NOTEST	0.159099	0.0215111
Ndufa4l2	chr10:127514938-127522444	OK	1.28436	0.173473
Iyd	chr10:3540278-3554877	NOTEST	0.479884	0.0647871
Clec2l	chr6:38663068-38680865	OK	128.219	17.277
Loxl3	chr6:83034223-83054571	OK	1.33449	0.179782
Cdc42ep5	chr7:4151259-4164699	OK	2.12379	0.285864
Cxcl9	chr5:92321330-92328079	NOTEST	0.0499982	0.00672365
1500012K07Rik	chr7:75114894-75331419	OK	2.41272	0.324368
Zpld1	chr16:55225174-55283237	NOTEST	0.0566509	0.00761618
Pabpc4l	chr3:46442196-46447941	NOTEST	0.163666	0.0219988
Cela1	chr15:100674421-100687920	OK	9.88513	1.32847
Chdh	chr14:30008999-30527056	OK	2.19954	0.294051
Scube1	chr15:83602582-83725039	OK	1.29659	0.173277
Syde1	chr10:78584502-78591964	OK	5.36622	0.716861
Sfmbt2	chr2:10370450-10595253	NOTEST	0.646727	0.0863519
Col23a1	chr11:51289919-51583925	OK	7.21712	0.961263
Olfml2b	chr1:170644531-170682789	OK	11.3565	1.51112
Plip	chr8:94674894-94696242	OK	31.3727	4.17334
Rasgrp2	chr19:6400582-6415216	OK	2.01098	0.267427
Celsr1	chr15:85898757-86033777	OK	1.8511	0.246066
Rhpn1	chr15:75704287-75714419	OK	3.41513	0.452364
Rasgrf2	chr13:91880406-91988042	OK	9.99967	1.32437
2610027K06Rik	chr11:85353163-85832388	NOTEST	0.391039	0.0517889
C1ql3	chr2:12924040-13010864	OK	2.83026	0.374695

Frrs1l	chr4:56960135-56990391	OK	13.1994	1.7441
Stard8	chrX:99042580-99074728	OK	4.55623	0.601238
Plxdc2	chr2:16356303-16755839	OK	8.00547	1.05369
Bmp2	chr2:133552158-133562896	NOTEST	0.471425	0.0619778
Tmem108	chr9:103482935-103761837	OK	4.23005	0.556117
C1ra	chr6:124512620-124523440	OK	1.22589	0.161138
Dnali1	chr4:125030013-125065657	NOTEST	0.0734781	0.00965664
Fbn2	chr18:58008622-58209926	NOTEST	0.312674	0.0410474
Adm	chr7:110627668-110629819	OK	1.16006	0.151951
Impg1	chr9:80313329-80465438	NOTEST	0.0516262	0.0067521
Ckm	chr7:19411093-19421583	NOTEST	0.518801	0.0678271
Bdh2	chr3:135281220-135304425	OK	0.821377	0.107383
Rufy4	chr1:74125540-74148230	NOTEST	0.0662605	0.00863658
Grid2	chr6:63256856-64666279	OK	2.65638	0.346099
Hoga1	chr19:42045850-42070939	NOTEST	0.319151	0.0415044
Rassf8	chr6:145808382-145817584	OK	5.27543	0.684644
Ly6g6f	chr17:35080537-35085595	NOTEST	0.162678	0.0210942
Serpinh1	chr7:99345374-99353239	OK	37.6943	4.88711
Tacr3	chr3:134829006-134934581	NOTEST	0.404257	0.0524086
Dmd	chrX:82948869-85205050	OK	6.39557	0.828573
E130310I04Rik	chr16:34784949-35002434	NOTEST	0.0921684	0.01194
Dusp27	chr1:166098147-166127898	NOTEST	0.540058	0.0699377
Usp2	chr9:44067020-44095627	OK	4.59081	0.594376
Myl3	chr9:110763680-110769794	NOTEST	0.610973	0.0788854
Slc36a2	chr11:55158467-55185077	OK	8.5043	1.09738
Cyp2j9	chr4:96568428-96591485	OK	16.0874	2.07284
Prg4	chr1:150361310-150466165	OK	2.08111	0.267922
Onecut1	chr9:74861920-74889647	OK	1.7454	0.224676
Ajuba	chr14:54567468-54577661	OK	1.47094	0.189289
A730043L09Rik	chr9:62242595-62244100	NOTEST	0.301853	0.0388399
Cmya5	chr13:93040714-93144724	NOTEST	0.242311	0.0311332
Cdk6	chr5:3344311-3522225	OK	2.02911	0.260421
Gm3716	chr5:64593862-64610699	NOTEST	0.0530414	0.00680695
Tram2	chr1:21001396-21079225	NOTEST	0.867193	0.111276
Lrrc9	chr12:72441865-72510565	NOTEST	0.546802	0.0701447
Inhbb	chr1:119415464-119422248	OK	3.09501	0.396234
5430421F17Rik	chr8:25302649-25306270	NOTEST	0.135765	0.0173787
Hspg2	chr4:137468802-137570630	OK	17.5662	2.24802
Fam64a	chr11:72042501-72047370	NOTEST	0.112912	0.0144178
BC049715	chr6:136828842-136840557	NOTEST	0.304767	0.0388856
Casp12	chr9:5345475-5373034	OK	5.16157	0.657605
Egln3	chr12:54178980-54203874	OK	3.27114	0.416551
Krt9	chr11:100186780-100193246	NOTEST	0.495643	0.0630112
Nefh	chr11:4938755-5042794	OK	757.806	96.2175
Tmem178	chr17:80944631-81001816	OK	2.23742	0.283396
Meis2	chr2:115861263-116065058	OK	7.48913	0.946096
Hspb7	chr4:141420778-141425310	NOTEST	0.270133	0.0339674
Pde5a	chr3:122729157-122859374	OK	1.27349	0.159932
Chadl	chr15:81663888-81697287	OK	9.21761	1.15722
Slitrk1	chr14:108909988-108914239	OK	12.6511	1.57583
Sh3pxd2b	chr11:32347810-32428183	OK	13.2238	1.63924
Cyp39a1	chr17:43667371-43751431	OK	6.07857	0.753067
Alox8	chr11:69183884-69197843	NOTEST	0.0477763	0.00591623

Anpep	chr7:79821802-79842352	OK	1.91654	0.23727
Ecm2	chr13:49464058-49652731	OK	3.63182	0.449618
Abcc3	chr11:94343294-94392976	NOTEST	0.572717	0.0708375
Timp3	chr10:86048745-86498896	OK	93.0543	11.5094
Angptl4	chr17:33774899-33781575	OK	9.28338	1.14799
Gjb6	chr14:57123300-57133611	OK	0.908971	0.112403
Vwa1	chr4:155768494-155774561	OK	36.1144	4.46135
Itgb4	chr11:115974724-116012719	OK	7.85818	0.970158
Efnb3	chr11:69554091-69560237	OK	1.1769	0.145121
Fcgr3	chr1:171051168-171059403	OK	1.76623	0.217599
Calr4	chr4:109218412-109254577	OK	0.868559	0.106879
Rab38	chr7:88430272-88491572	OK	1.28915	0.158503
Mpo	chr11:87793783-87804412	NOTEST	0.25736	0.0316087
Eda	chrX:99975605-100400760	OK	2.22889	0.272835
H2-M11	chr17:36547074-36549252	NOTEST	0.370989	0.0453545
Asap2	chr12:21111755-21286237	OK	3.72782	0.454417
Matn2	chr15:34306680-34436240	OK	34.3979	4.18158
Chodl	chr16:78930947-78951728	OK	0.936165	0.11375
Pik3c2g	chr6:139715858-139969283	NOTEST	0.107254	0.0130318
Kcna1	chr6:126636462-126645801	OK	99.1854	12.0506
Npr3	chr15:11839895-11907371	NOTEST	0.675761	0.0820987
Lilrb4	chr10:51490897-51496611	NOTEST	0.436051	0.0528993
Nms	chr1:38939148-38950276	NOTEST	0.200809	0.0243391
Abca8b	chr11:109933405-109995816	OK	14.0633	1.70236
Pnmal2	chr7:16944681-16948828	OK	12.1941	1.47324
C5ar1	chr7:16246742-16259540	NOTEST	0.544542	0.0657841
Zeb2os	chr2:44983511-45114084	OK	1.55261	0.187251
Crhr1	chr11:104132881-104175518	OK	1.0944	0.131481
Rerg	chr6:137054824-137170496	OK	1.20886	0.14521
Exoc3l4	chr12:111417429-111431680	NOTEST	0.119508	0.0142913
Bhlhe22	chr3:18054324-18057514	NOTEST	0.264456	0.0316188
Grhpr	chr4:44981410-44990696	OK	7.21735	0.860097
Hao1	chr2:134497360-134554352	NOTEST	0.0897631	0.0106916
Acacb	chr5:114165517-114250758	OK	1.862	0.221662
Fcgrt	chr7:45092992-45103822	OK	18.6433	2.21879
P2ry13	chr3:59006977-59344256	NOTEST	0.165237	0.0196607
Mdfic	chr6:15720660-15802169	OK	3.66978	0.436409
Rarb	chr14:16430839-17082331	OK	2.28877	0.272033
Slc38a4	chr15:96994822-97055956	NOTEST	0.103205	0.0122563
Tbc1d8b	chrX:139684995-139754218	OK	2.97646	0.353366
Bai2	chr4:129984869-130022633	OK	3.85885	0.457983
Ccl22	chr8:94745683-94751388	NOTEST	0.0954565	0.0113138
Sema3d	chr5:12383165-12588943	OK	2.82758	0.335038
Cap2	chr13:46501902-46650281	OK	3.62647	0.42841
Egr3	chr14:70077444-70082613	OK	4.80659	0.567556
Aqp4	chr18:15389393-15403684	OK	3.30264	0.389582
P2rx7	chr5:122643910-122691432	OK	5.55197	0.654403
Fgf4	chr7:144861385-144865243	NOTEST	0.489541	0.0576513
Nes	chr3:87971092-87980451	OK	8.04752	0.947718
Aldh1l1	chr6:90550847-90599171	OK	3.18472	0.374763
Neb	chr2:52136646-52338798	NOTEST	0.165518	0.0194338
Prkag3	chr1:74738921-74748955	NOTEST	0.0591951	0.00691073
Rasl10b	chr11:83410071-83421038	OK	21.9423	2.56074

Ankrd34c	chr9:89728248-89738475	OK	4.76783	0.555018
Coro6	chr11:77463912-77469501	OK	11.7761	1.36956
Gulp1	chr1:44551670-44796836	OK	8.49719	0.987825
Ankrd34b	chr13:92425968-92441658	OK	1.77822	0.205895
Dleu2	chr14:61598225-61682373	NOTEST	0.602489	0.0697447
C3	chr17:57203972-57228136	OK	1.24476	0.143868
Akap3	chr6:126853097-126874308	NOTEST	0.11069	0.0127854
Mgst1	chr6:138140536-138156752	OK	17.1533	1.9763
Fbxo24	chr5:137612504-137625078	NOTEST	0.101364	0.0116708
4932412D23Rik	chr16:42725701-42875762	NOTEST	0.177902	0.0204812
Nrl	chr14:55518977-55524981	NOTEST	0.150866	0.0173433
Tmem232	chr17:65256004-65540782	NOTEST	0.282326	0.0324517
Ryr2	chr13:11553102-12106945	OK	8.46634	0.972755
Serpib3a	chr1:107045586-107052303	NOTEST	0.111369	0.0127634
Aox4	chr1:58210396-58268596	OK	1.54633	0.177192
Lgi2	chr5:52537863-52566280	OK	19.917	2.28186
3632454L22Rik	chrX:135022421-135060336	NOTEST	0.0516798	0.00589473
Fam26d	chr10:34037596-34109815	OK	1.98482	0.225865
Ntn1	chr11:68209363-68386826	OK	2.66781	0.303094
Gm19522	chr16:42884369-43619123	NOTEST	0.0824274	0.00935765
Shox2	chr3:66973265-66981771	OK	5.12968	0.579471
Vsnl1	chr12:11325244-11436649	OK	98.6559	11.1329
Mrc2	chr11:105292645-105351145	OK	2.08928	0.23574
Cyp2d22	chr15:82370526-82380260	OK	6.86665	0.773666
Scara3	chr14:65919394-65953744	OK	5.3096	0.598083
Gpc4	chrX:52053017-52164923	OK	3.9457	0.444387
Chad	chr11:94557101-94601786	OK	2.57978	0.289657
Myo3b	chr2:70039125-70429195	NOTEST	0.0534805	0.00599596
Syna	chr5:134557253-134560171	OK	0.822038	0.0918553
H2-Ab1	chr17:34263226-34269418	OK	11.3641	1.26749
E130114P18Rik	chr4:97567874-98118876	OK	1.86502	0.207505
Itgb2l	chr16:96422297-96443614	NOTEST	0.16214	0.0180354
Tagln	chr9:45863690-45936058	OK	15.4728	1.7199
Trp53cor1	chr17:29057473-29079126	NOTEST	0.176968	0.0196262
Fut9	chr4:25609332-25800003	NOTEST	0.0779222	0.00863394
Gpr152	chr19:4139798-4145740	NOTEST	0.0440398	0.00487964
Dnaic2	chr11:114344525-114757886	OK	1.18971	0.131809
Syt17	chr7:118381855-118443552	NOTEST	0.743462	0.0823287
Sh3rf3	chr10:58813358-59138916	OK	0.855601	0.0946744
Ppara	chr15:85735563-85806851	OK	0.781264	0.0864213
Pls1	chr9:95752641-95845279	OK	10.8785	1.20103
Jag1	chr2:137081450-137116520	OK	7.52089	0.829902
Gm6416	chr13:117130024-117135884	NOTEST	0.116324	0.0128266
P2rx6	chr16:17561884-17572012	OK	14.4395	1.59217
E130006D01Rik	chr5:111734283-111761728	NOTEST	0.484134	0.053312
Xntrpc	chr7:102065490-102096864	NOTEST	0.00746022	0.00082146
8030423F21Rik	chr5:52607549-52619011	NOTEST	0.0671623	0.00738469
Col22a1	chr15:71798475-72034227	NOTEST	0.100522	0.0110465
Cntf	chr19:12763527-12796123	OK	22.6159	2.48451
Sh3bgr	chr16:96200469-96228933	OK	18.6019	2.03652
Myh1	chr11:67200113-67224575	NOTEST	0.0307489	0.00336603
Metrn1	chr11:121702426-121717389	OK	5.73036	0.62558
Cdkn2a	chr4:89274472-89294619	NOTEST	0.613142	0.0667641

Pdzd2	chr15:12357053-12592556	OK	9.68724	1.05433
Plscr4	chr9:92457377-92492516	OK	5.84289	0.635708
Ctsk	chr3:95499209-95509387	OK	6.35636	0.687518
Zic4	chr9:91368971-91389348	NOTEST	0.198917	0.0215094
Ddr2	chr1:169969408-170088944	OK	3.1148	0.336758
Mmp19	chr10:128790909-128804370	NOTEST	0.396406	0.0427431
Pbxip1	chr3:89436703-89450952	OK	7.41001	0.796887
Gpam	chr19:55069733-55099447	OK	21.8238	2.34424
Pthlh	chr6:147252109-147264085	OK	2.63084	0.282588
Fam19a2	chr10:123264075-123741204	OK	22.5623	2.41491
Mr1	chr1:155127877-155146780	OK	3.16819	0.339021
Antxr1	chr6:87133852-87335775	OK	7.72148	0.825728
Aebp1	chr11:5861865-5878256	OK	3.99005	0.425926
Ston1	chr17:88626554-88645724	OK	8.04137	0.857758
Duxbl2	chr14:26262257-26269434	NOTEST	0.191732	0.0204307
Ccbe1	chr18:66056855-66291838	NOTEST	0.394242	0.0419988
Krt79	chr15:101929331-101940324	NOTEST	0.193607	0.0206185
Rassf2	chr2:131992849-132029988	OK	3.81081	0.405644
Tcf7l1	chr6:72626370-72789045	OK	2.97506	0.31643
Bcat1	chr6:144993834-145076157	OK	16.0024	1.69719
Piwil4	chr9:14702357-14740733	NOTEST	0.0885001	0.00938285
Fgf9	chr14:58072685-58112720	OK	7.38422	0.782698
Gm12522	chr3:108364910-108383741	NOTEST	0.0963471	0.0102121
Stra6	chr9:58129087-58153997	OK	1.26036	0.133101
Serpinb1c	chr13:32881396-32898140	NOTEST	0.147594	0.0155657
St8sia5	chr18:77185846-77255450	OK	4.13031	0.434624
Crabp2	chr3:87948692-87953372	OK	2.88167	0.302793
Fgl2	chr5:21292960-21424677	OK	8.14094	0.855365
Qk	chr17:10206470-10319361	OK	61.5446	6.43838
Hcar1	chr5:123876735-123880020	NOTEST	0.141831	0.0148256
Cald1	chr6:34709443-34775469	OK	12.9579	1.35248
Fam107a	chr14:8296277-8309776	OK	5.78171	0.602355
Lrig3	chr10:125966218-126015359	NOTEST	0.711571	0.0740929
A230077H06Rik	chr7:40849152-40898324	NOTEST	0.514399	0.0535025
Gabrg1	chr5:70751046-70842617	OK	7.45254	0.774671
Phldb3	chr7:24611327-24629297	NOTEST	0.0845556	0.00874383
Htr7	chr19:35958728-36057360	OK	6.60622	0.683087
Epha6	chr16:59613320-60605531	OK	5.67428	0.586697
Cfi	chr3:129836738-129875328	NOTEST	0.290717	0.029889
Creg2	chr1:39618405-39651182	OK	6.97584	0.716755
A130077B15Rik	chr10:122565022-122569891	NOTEST	0.0754844	0.00775297
Fpr1	chr17:17876470-17883939	NOTEST	0.158992	0.0162677
Colec12	chr18:9707647-9877995	OK	1.67467	0.171169
Gm12530	chr4:57172070-57176554	NOTEST	0.122677	0.0125382
Rtkn2	chr10:67979597-68043864	NOTEST	0.190651	0.0194766
Tbx2	chr11:85832614-85841948	OK	9.8292	1.00398
Igdcc3	chr9:65141188-65185870	NOTEST	0.411328	0.041988
Ctsc	chr7:88278092-88310875	OK	7.84143	0.797797
Gstm2	chr3:107981701-107986436	OK	1.96574	0.19995
B3galt2	chr1:143607498-143702684	OK	2.37511	0.241152
Medag	chr5:149411805-149431703	OK	4.29961	0.436328
Rasal1	chr5:120648811-120679610	NOTEST	0.0589643	0.00597969
Smtnl2	chr11:72390113-72411713	OK	1.69766	0.17206

Ltf	chr9:111019291-111042766	OK	2.09395	0.212213
Angpt4	chr2:151911331-151944654	NOTEST	0.169726	0.017185
2300005B03Rik	chr15:74742838-74746687	OK	1.41873	0.143467
Mxra8	chr4:155839679-155844102	OK	14.8885	1.50534
Crispld2	chr8:119992469-120052793	OK	4.3182	0.435894
Zic1	chr9:91360344-91365799	OK	1.54731	0.156149
Hs3st2	chr7:121392295-121501768	OK	27.4816	2.77199
Ccl7	chr11:82045711-82047523	NOTEST	0.971127	0.0976128
Sox8	chr17:25565892-25570686	OK	1.73247	0.174039
Slitrk2	chrX:66649317-66661402	OK	2.3339	0.234343
Lgi3	chr14:70530820-70538324	OK	66.7493	6.69236
Htra4	chr8:25024927-25038962	OK	1.30566	0.130655
Rnf128	chrX:139563339-139673145	OK	5.7481	0.573888
Serpina3c	chr12:104146906-104153872	OK	1.94865	0.193419
Fam196b	chr11:34226820-34783905	OK	2.83301	0.281097
Col8a1	chr16:57624255-57754737	OK	4.72219	0.467848
Omd	chr13:49464058-49652731	OK	1.23163	0.121819
Cdkn2b	chr4:89306288-89311032	OK	3.19815	0.315441
Pvalb	chr15:78191117-78206351	OK	101.564	10.0061
Fibin	chr2:110360924-110362993	OK	2.96837	0.292404
Piwil1	chr5:128736245-128755474	NOTEST	0.0987654	0.00970702
Omg	chr11:79339891-79581609	OK	10.5255	1.03362
Sdc4	chr2:164424246-164443188	OK	31.4659	3.07479
Sv2b	chr7:75114894-75331419	OK	81.7942	7.99197
Ephb1	chr9:101922127-102354693	OK	1.81829	0.177584
Evi2a	chr11:79339891-79581609	NOTEST	0.730361	0.0712578
Notch1	chr2:26457901-26503822	OK	6.86269	0.66804
Gldc	chr19:30098440-30175441	OK	0.825537	0.0802139
F13a1	chr13:36867177-37050244	OK	1.66861	0.161802
Fa2h	chr8:111345137-111393821	OK	15.5782	1.50761
Spint1	chr2:119237359-119249513	OK	1.76501	0.170474
Sbspon	chr1:15853861-15892722	OK	5.23768	0.505002
Lpar1	chr4:58435251-58553491	OK	44.2857	4.26764
Vangl2	chr1:172004370-172027268	OK	1.11557	0.107486
Ndst4	chr3:125404090-125724986	OK	16.6083	1.58038
Eya2	chr2:165595027-165771727	OK	2.48726	0.236651
Uts2b	chr16:27353321-27370239	OK	4.78999	0.455
Mag	chr7:30899182-30914832	OK	10.9632	1.04016
Syt2	chr1:134646680-134749417	OK	80.1341	7.5725
Dcn	chr10:97479499-97518162	OK	111.308	10.5119
Ntrk2	chr13:58806568-59133970	OK	46.2385	4.36039
Drd5	chr5:38319508-38322310	NOTEST	0.074261	0.00699067
Bcl2a1d	chr9:88723287-88731850	NOTEST	0.347903	0.0326501
Gpc6	chr14:116925296-117979529	OK	4.3977	0.412252
Col9a2	chr4:121039565-121055325	OK	2.665	0.249761
Ankef1	chr2:136532320-136555854	NOTEST	0.153945	0.0144206
Col4a5	chrX:141475418-141689235	OK	0.932018	0.0871783
B230312C02Rik	chr2:180370857-180401802	OK	2.08203	0.193092
Plac8	chr5:100553732-100572205	OK	1.22521	0.113554
Spon2	chr5:33213517-33218238	OK	1.53571	0.141991
Serpina12	chr1:106934448-106957080	NOTEST	0.174218	0.0161052
Lancl3	chrX:9199972-9268085	OK	9.46441	0.87436
Afp	chr5:90490713-90508907	NOTEST	0.104722	0.00965664

Syde2	chr3:145987869-146021720	OK	0.944084	0.0867693
Sptssb	chr3:69819538-69859894	OK	1.6567	0.152209
H2-Eb1	chr17:34305866-34316674	OK	9.79743	0.900041
Derl3	chr10:75893397-75895941	NOTEST	0.175049	0.0160802
Crif1	chr8:70493155-70504081	NOTEST	0.594028	0.0545475
Podnl1	chr8:84125988-84132517	NOTEST	0.105619	0.0096876
Clrn1	chr3:58844027-58885212	OK	6.78095	0.621293
Itgb6	chr2:60598291-60722603	OK	0.998258	0.0913791
Pcdh7	chr5:57718020-58132240	OK	16.6081	1.51855
Il17b	chr18:61687934-61692537	NOTEST	0.41025	0.0374973
A330050F15Rik	chr17:69439325-69489233	OK	3.86399	0.353121
Kif19a	chr11:114765388-114790575	OK	7.03806	0.642715
Ip6k3	chr17:27143970-27167764	NOTEST	0.298338	0.0272333
Lyz1	chr10:117287794-117292868	NOTEST	0.376308	0.0343216
Wnk4	chr11:101260566-101277409	OK	0.915684	0.0832947
Hhatl	chr9:121784015-121792507	OK	17.1002	1.55341
Slc22a2	chr17:12584188-12628488	NOTEST	0.337351	0.0305899
Cd22	chr7:30865403-30880342	NOTEST	0.120136	0.0108778
Prss12	chr3:123446912-123506602	OK	11.6342	1.05308
Foxd2	chr4:114906279-114908898	NOTEST	0.370253	0.0335094
Ephx2	chr14:66084371-66124522	OK	2.69591	0.243848
Slit2	chr5:47983154-48306282	OK	6.95541	0.628728
Plekhb1	chr7:100643895-100662394	OK	106.665	9.63659
Plekhf1	chr7:38220653-38227994	OK	2.25421	0.203096
Bpifb5	chr2:154223741-154240902	NOTEST	0.168232	0.0151553
Slc9a3r1	chr11:115163340-115181178	OK	45.1303	4.05773
Peg12	chr7:62461870-62464510	NOTEST	0.0995179	0.00893654
Cgn	chr3:94760069-94786515	NOTEST	0.700331	0.0628499
Trem2	chr17:48346400-48352276	NOTEST	0.458119	0.0410888
Fkbp9	chr6:56832058-56879360	OK	28.0435	2.50325
Gdf10	chr14:33923586-33935282	OK	1.28344	0.114437
Klrb1a	chr6:128609226-128622934	OK	1.00304	0.0892175
F730043M19Rik	chr12:33111710-33147586	OK	2.58895	0.229911
Atp8b3	chr10:80519584-80539124	NOTEST	0.254288	0.0225785
Slamf9	chr1:172475359-172478409	OK	1.03809	0.0920389
Afap1l2	chr19:56912353-57008575	OK	9.9244	0.879094
Cntn5	chr9:9660890-10904775	NOTEST	0.71216	0.0628337
Slc13a4	chr6:35267952-35308126	OK	0.9219	0.0811453
Agmo	chr12:37241638-37581932	OK	2.89753	0.254833
Mme	chr3:63295434-63383713	OK	7.49425	0.658162
Wwc1	chr11:35839177-35980089	NOTEST	0.563532	0.0493756
Fcgr2b	chr1:170960558-170976071	OK	1.53072	0.134018
Ccdc80	chr16:45094052-45127924	OK	3.86158	0.337333
Pde7b	chr10:20398003-20725068	OK	4.31804	0.376891
Wisp2	chr2:163820833-163833147	OK	1.3834	0.120648
Ccdc3	chr2:5137775-5230866	OK	1.9494	0.169321
Pid1	chr1:84036292-84284645	OK	6.98671	0.605778
Foxd1	chr13:98354244-98356705	OK	0.947639	0.082003
Chil1	chr1:134182403-134190031	OK	1.35022	0.116601
Itgb5	chr16:33829664-33949338	OK	9.74407	0.838363
Gm16796	chr2:170482964-170519070	NOTEST	0.0711694	0.00611894
Cd302	chr2:60251992-60284484	OK	2.30952	0.198531
Mfap4	chr11:61485443-61488704	OK	7.10272	0.610132

Gpr34	chrX:13517080-13846556	NOTEST	0.409493	0.0350773
Papss2	chr19:32595714-32667187	NOTEST	0.573191	0.0489407
Fmod	chr1:134037514-134048277	OK	2.31255	0.19734
Shc4	chr2:125627446-125724148	OK	10.1574	0.866664
Sfrp1	chr8:23411501-23449632	OK	14.7879	1.25957
Evc2	chr5:37338477-37425054	OK	2.31591	0.197072
Esrrg	chr1:187609005-188214884	OK	12.0086	1.02165
Cox7a1	chr7:30184170-30186030	OK	8.40184	0.713997
Slc17a7	chr7:45163920-45176139	OK	99.4313	8.43941
Mrgprf	chr7:145300908-145309557	OK	1.43747	0.121847
Il33	chr19:299251113-29960715	OK	1.31502	0.111288
Mettl24	chr10:40683281-40811083	NOTEST	0.683479	0.0578328
Slitrk6	chr14:110748577-110755149	NOTEST	0.253804	0.0214698
Acsf2	chr11:94557101-94601786	OK	1.2649	0.106933
Sema5a	chr15:32244812-32696341	OK	16.8652	1.42085
Tmem28	chrX:99821068-99846345	OK	5.94622	0.500392
Ccl24	chr5:135569936-135573043	NOTEST	0.199695	0.0167796
Kcnh5	chr12:74897216-75177332	OK	3.06574	0.255359
Slc35d3	chr10:19847916-19851459	OK	1.13748	0.0946273
Themis2	chr4:132782356-132796364	NOTEST	0.235204	0.0195265
4932411E22Rik	chr11:89390222-89418948	OK	1.06181	0.0881112
Egr2	chr10:67537868-67542188	OK	17.3605	1.43991
Zcchc24	chr14:25711639-25768856	OK	11.8036	0.977873
Kcne1l	chrX:142304752-142306198	OK	1.37612	0.11363
Myocd	chr11:65176570-65269989	NOTEST	0.184656	0.0152198
Tmprss5	chr9:49102778-49117587	OK	3.04042	0.250346
Clec7a	chr6:129461590-129472777	NOTEST	0.491048	0.0403387
Ndrg1	chr15:66929317-66969641	OK	169.853	13.9414
Plekha4	chr7:45526329-45554229	OK	40.6349	3.33491
Ntn1	chr3:109780049-110143472	OK	14.5793	1.19496
Gstt3	chr10:75774121-75781414	OK	1.25302	0.102695
Kcnj14	chr7:45816466-45824747	NOTEST	0.436899	0.035585
Cspg4	chr9:56865103-56899870	OK	2.47691	0.201533
Slc35f1	chr10:52690500-53111622	OK	18.9917	1.53496
Smpx	chrX:157698972-157752591	OK	4.7422	0.383232
Bgn	chrX:73483634-73495936	OK	38.635	3.11384
Tlr9	chr9:106222597-106226876	NOTEST	0.161113	0.012976
Lrrc4	chr6:28480347-28888832	OK	5.20926	0.419421
Vstm4	chr14:32856755-32939489	OK	3.01078	0.241947
Sparc	chr11:55394158-55420080	OK	449.942	35.8506
Ngp	chr9:110419807-110423012	OK	8.23148	0.655285
Klf15	chr6:90462625-90475209	OK	3.41076	0.271319
Col5a2	chr1:45374330-45503282	OK	8.25474	0.656611
Aldh1a7	chr19:20692952-20727556	OK	2.77616	0.220516
A330074K22Rik	chr8:120204433-120228230	OK	4.42193	0.350973
Vwc2	chr11:11114015-11263526	OK	2.01869	0.160218
Mup3	chr4:62083475-62087312	NOTEST	0.326806	0.0259192
Kcnk5	chr14:20140057-20181782	OK	2.75495	0.218176
Bhmt2	chr13:93656096-93674302	NOTEST	0.130735	0.0103474
Limch1	chr5:66745839-67057159	OK	22.8104	1.80414
Fam198a	chr9:121950987-121980208	OK	1.41615	0.111968
Frk	chr10:34483399-34611230	NOTEST	0.113821	0.00898956
Ripk4	chr16:97741941-97763755	OK	1.44194	0.11327

Pipox	chr11:77880614-77893872	OK	1.25265	0.0981912
Cdh12	chr15:21111451-21589533	OK	2.41421	0.188701
Kcnq4	chr4:120697472-120747176	OK	16.7859	1.31109
Pice1	chr19:38524196-38785100	OK	5.16373	0.402951
Brinp3	chr1:146495665-146902472	OK	1.05646	0.0824
Epyc	chr10:97644067-97967090	NOTEST	0.183562	0.014302
Pld4	chr12:112760654-112768986	OK	0.946251	0.0735347
Snhg18	chr15:32240567-32244662	OK	4.2848	0.332599
Fbln7	chr2:128863931-128897034	OK	1.55239	0.119932
Gm16551	chr9:74848436-74852872	OK	7.9737	0.612927
Sardh	chr2:27188392-27247303	OK	2.58684	0.198753
Itga2	chr13:114835911-114932041	OK	0.986556	0.075733
Gm10684	chr9:45079182-45135606	OK	0.899772	0.0690068
Dgkb	chr12:37880704-38633410	OK	4.15396	0.31751
Pmel	chr10:128706257-128744056	NOTEST	0.147947	0.0112927
Fpr2	chr17:17887823-17893952	NOTEST	0.273415	0.0208498
Col15a1	chr4:47208011-47313165	OK	11.4195	0.868457
Ano1	chr7:144588548-144738592	OK	5.62826	0.427588
Bco2	chr9:50533086-50555138	NOTEST	0.127939	0.00971355
Ncmap	chr4:135369576-135398227	OK	40.9055	3.0946
Tll1	chr8:64014769-64205993	OK	1.90866	0.14424
Spp1	chr5:104435110-104441053	OK	96.3289	7.25024
Six2	chr17:85684267-85688254	NOTEST	0.13635	0.01025
Lmod1	chr1:135324812-135368065	NOTEST	0.67379	0.0505689
Rasl12	chr9:65398487-65422773	OK	2.27661	0.170666
B3gnt5	chr16:19760233-19772753	OK	2.36977	0.177276
Serpind1	chr16:17280350-17430826	OK	3.44372	0.256729
Cotl1	chr8:119809213-119840579	OK	24.2518	1.80734
Chrna5	chr9:54980879-55007779	NOTEST	0.096425	0.00716755
Notch2	chr3:98013537-98150367	OK	3.92591	0.28822
Leprel1	chr16:25960322-26105784	OK	1.88762	0.138293
Hapln4	chr8:70083528-70090862	OK	26.2265	1.91961
Drd2	chr9:49340661-49407214	NOTEST	0.603434	0.0441496
Gm10790	chr13:41865914-41913092	NOTEST	0.345713	0.0252531
H2-DMb1	chr17:34153190-34160229	OK	3.16598	0.231212
Rasa3	chr8:13567217-13677587	OK	8.21679	0.595607
Gldn	chr9:54268579-54341777	OK	8.78097	0.635351
Ackr3	chr1:90203979-90215722	OK	4.87421	0.351852
Rasgef1c	chr11:49901834-49980223	OK	4.66861	0.334544
Lrrc6	chr15:66379857-66500910	NOTEST	0.406775	0.0290008
Igsf11	chr16:38902344-39027157	OK	9.93646	0.703359
Abcc9	chr6:142587861-142702274	OK	1.08342	0.0766778
Pdk4	chr6:5483350-5496278	OK	2.96717	0.209958
Prox1	chr1:190121776-190170680	NOTEST	0.0702991	0.00497331
Pard6g	chr18:80046894-80119640	OK	4.29298	0.302945
Sult2b1	chr7:45729982-45759555	NOTEST	0.277353	0.0195476
Gjd2	chr2:114009600-114032292	OK	1.95215	0.137374
Rab32	chr10:10545038-10558207	OK	1.18258	0.0831773
Ogn	chr13:49464058-49652731	OK	46.9717	3.29179
Egfl8	chr17:34605860-34615971	OK	27.7101	1.93696
A830082K12Rik	chr13:78188972-78236564	NOTEST	0.742433	0.0517791
Dtx1	chr5:120680263-120711669	NOTEST	0.252212	0.0175841
Grid1	chr14:34820135-35581115	OK	5.46416	0.380906

Pappa2	chr1:158711730-158957438	OK	1.12856	0.07865
Rgs18	chr1:144752840-144775421	NOTEST	0.15805	0.0109848
Lrrtm1	chr6:76881636-77979667	OK	8.68468	0.601438
Gjb1	chrX:101377336-101385624	OK	4.98418	0.343683
Ccnd1	chr7:144929930-144939925	OK	12.6538	0.87194
Gmnc	chr16:26957234-26991652	NOTEST	0.0666849	0.0045941
Apod	chr16:31296191-31314596	OK	116.26	7.97112
Cideb	chr14:55745692-55758424	NOTEST	0.274783	0.0187977
P2ry14	chr3:59006977-59344256	OK	1.24012	0.0846804
Chrdl1	chrX:143285673-143394262	OK	3.45702	0.235594
C1s1	chr6:124530343-124542359	OK	3.09744	0.210593
Slnf9	chr11:82980302-82991830	NOTEST	0.175949	0.0119355
Gbgt1	chr2:28496890-28505415	NOTEST	0.593831	0.0402683
Pcdh20	chr14:88464746-88471396	NOTEST	0.106343	0.00721101
Ephb3	chr16:21204794-21223304	OK	2.90517	0.196838
Wnt7b	chr15:85535436-85593708	NOTEST	0.0847628	0.00572382
Stk31	chr6:49395603-49469502	NOTEST	0.0889479	0.00598459
Ptgds	chr2:25466711-25469749	OK	73.402	4.93235
Bpifb1	chr2:154190817-154220343	NOTEST	0.567224	0.0380969
Gm10754	chr10:97644067-97967090	OK	3.05566	0.205101
Sh3bp5	chr14:31373963-31436033	OK	16.6056	1.11319
Pcolce	chr5:137605106-137611404	OK	14.4317	0.967401
Ppp1r14c	chr10:3366149-3464975	OK	9.61387	0.641843
Cyth4	chr15:78597046-78622019	OK	1.15971	0.0771852
Ptgfr	chr3:151798609-151837528	OK	14.1675	0.942385
Pcsk5	chr19:17432831-17837632	OK	3.04282	0.202378
Itpr3	chr17:27057303-27122223	OK	14.6661	0.973976
Cubn	chr2:13276337-13491876	NOTEST	0.472587	0.0312865
Wnt7a	chr6:91363982-91411369	OK	2.75486	0.182321
Aif1l	chr2:31950302-31973442	OK	11.5161	0.76034
Maf	chr8:115703252-115706894	OK	25.6127	1.69089
Cybb	chrX:9435253-9469324	OK	1.18758	0.0781943
Pgf	chr12:85166638-85177313	OK	6.83809	0.449826
Igfbp5	chr1:72858064-72874865	OK	42.8562	2.79181
Arg2	chr12:79130787-79172458	OK	2.62372	0.170896
Cd177	chr7:24743982-24760311	NOTEST	0.420137	0.0272868
Cdh20	chr1:104768818-104995481	OK	2.60706	0.168972
Oaf	chr9:43221277-43239816	OK	4.60573	0.298154
Igf1	chr10:87859055-87937047	OK	1.95058	0.125059
Smco3	chr6:136828842-136840557	OK	10.6301	0.680909
Shisa3	chr5:67607882-67613987	OK	2.11877	0.13535
Erbb2	chr11:98412483-98438988	OK	3.00707	0.191746
Tnc	chr4:63959784-64047015	NOTEST	0.572296	0.0363666
Them7	chr2:105224341-105379860	NOTEST	0.438194	0.0277943
Ccdc13	chr9:121797626-121839461	OK	1.24621	0.0789487
Gm13629	chr2:66440879-66634962	OK	2.91493	0.184329
Steap4	chr5:7960471-7982213	OK	2.89764	0.182615
Adhfe1	chr1:9548045-9631092	NOTEST	0.358749	0.0225741
Acot1	chr12:84009501-84017669	OK	4.10146	0.257344
Bcan	chr3:87987530-88000356	OK	38.949	2.44179
Fkbp10	chr11:100415693-100441089	OK	4.73126	0.296
Lcat	chr8:105939550-105943402	OK	3.51258	0.219385
Pmepa1	chr2:173224464-173276533	OK	18.2138	1.12624

Svep1	chr4:58042795-58206596	NOTEST	0.559274	0.0345079
Cldn11	chr3:31149919-31164326	OK	5.18246	0.319319
Dach2	chrX:113297509-113836386	NOTEST	0.17453	0.0107447
Tead3	chr17:28331672-28350805	OK	1.32154	0.0808002
Twist1	chr12:33957670-33959831	NOTEST	0.75067	0.0456879
C1qtnf6	chr15:78523345-78529651	OK	2.16056	0.131466
Trf	chr9:103208875-103230286	OK	12.1067	0.73474
Fjx1	chr2:102449365-102451792	OK	2.97245	0.180339
Mamdc2	chr19:23302608-23448322	OK	4.13671	0.250807
Clec3b	chr9:123150945-123157432	OK	5.70519	0.342192
Clec4a2	chr6:123122689-123143999	NOTEST	0.275917	0.0165362
Tekt5	chr16:10357951-10395465	OK	0.852329	0.0506038
Slc15a5	chr6:137983589-138079916	NOTEST	0.325372	0.0192854
Plin3	chr17:56278961-56290511	OK	10.6008	0.627396
Rdh5	chr10:128913590-128919297	OK	8.30093	0.488886
Kirrel	chr3:87078591-87174747	OK	6.49831	0.382193
Itih2	chr2:10094590-10130683	OK	0.826424	0.0485269
Igfbp4	chr11:99041259-99052643	OK	74.3154	4.35705
Cxcl10	chr5:92331840-92414627	OK	3.88794	0.227571
Folr2	chr7:101839987-101845331	NOTEST	0.42506	0.0246731
Mmp13	chr9:7272513-7283333	NOTEST	0.127122	0.00735062
Mmp2	chr8:92827327-92853420	OK	5.32526	0.307919
Rgs6	chr12:82617037-83158813	OK	9.02694	0.521426
Ugt8a	chr3:125865342-125938550	OK	34.004	1.96259
Tgfb1	chr13:56609602-56639339	OK	13.0564	0.752411
Efemp1	chr11:28853204-28926743	OK	12.2345	0.704853
Cx3cr1	chr9:120048682-120068296	OK	0.854793	0.0491241
Pmfbp1	chr8:109494026-109542642	OK	1.06729	0.0609138
Car14	chr3:95893920-95904639	OK	2.56015	0.146019
Ptplad2	chr4:88412929-88438926	OK	1.06469	0.0605149
Itgav	chr2:83724396-83806917	OK	12.931	0.728384
Ttn	chr2:76703983-76982547	NOTEST	0.00498245	0.0002799
Tspan18	chr2:93201759-93334487	OK	17.1885	0.961535
Fmo1	chr1:162829560-162866548	OK	14.1248	0.784276
C4b	chr17:34728380-34743897	OK	4.90634	0.269094
Kcnj8	chr6:142564938-142571356	NOTEST	0.799705	0.0438559
Frmd6	chr12:70825513-70902234	OK	6.60218	0.36171
Ptprz1	chr6:22875501-23052916	OK	14.7545	0.80686
2010204K13Rik	chrX:7411816-7422988	OK	0.976648	0.0531964
Folh1	chr7:86718975-86775864	OK	11.0373	0.600043
Smo	chr6:29735496-29761366	OK	4.79815	0.260362
Mfap5	chr6:122513675-122529287	OK	21.0542	1.12948
Gas7	chr11:67532997-67688992	OK	10.1283	0.543217
Myo5b	chr18:74442618-74771477	NOTEST	0.662176	0.0354128
Ccl9	chr11:83572916-83578636	NOTEST	0.609424	0.0325749
Chst3	chr10:60181527-60219260	OK	2.4785	0.131867
Emid1	chr11:5106265-5152222	OK	5.4516	0.289518
Hrc	chr7:45335268-45338972	NOTEST	0.153691	0.0081613
Slc38a11	chr2:65316632-65364026	OK	4.03049	0.213744
Hey2	chr10:30832358-30842783	OK	18.6154	0.986342
Shank2	chr7:143948404-144470935	OK	1.07202	0.0566938
Slc47a1	chr11:61343399-61378075	OK	2.9283	0.154223
Nid2	chr14:19751256-19823823	OK	7.33907	0.383951

Pln	chr10:53278080-53379851	OK	3.10505	0.162104
Wdr72	chr9:74110333-74283203	OK	1.54516	0.0800306
Pcsk6	chr7:65862135-66050386	OK	3.05834	0.158363
Nlgn1	chr3:25431840-26331909	OK	2.91274	0.15075
Col6a3	chr1:90766859-90843971	OK	4.37525	0.225518
Prelp	chr1:133910303-133921401	OK	4.36755	0.22507
Sp140	chr1:85576898-85645036	NOTEST	0.191379	0.00983811
Vldlr	chr19:27217019-27254231	OK	8.83414	0.453293
Lpcat2	chr8:92855349-92919279	OK	1.95094	0.0998279
Camp	chr9:109847376-109849456	OK	2.73118	0.139237
2210011C24Rik	chr8:84010227-84011720	OK	2.67226	0.136133
Phyhd1	chr2:30266202-30282149	OK	1.10491	0.0562265
Col4a6	chrX:141165402-141474076	NOTEST	0.0555436	0.00281548
AA387883	chr19:52923180-52926931	NOTEST	0.304928	0.0154552
Rbp4	chr19:38116619-38125321	OK	2.34994	0.118986
Podn	chr4:108014792-108032090	OK	0.879029	0.044476
Reln	chr5:21884453-22344705	OK	9.58975	0.483958
Adra1a	chr14:66635250-66771168	NOTEST	0.399133	0.0201134
Myl9	chr2:156775463-156781657	OK	17.8889	0.901042
Shisa2	chr14:59625280-59631660	OK	2.40773	0.121275
Mpz	chr1:171150712-171161123	OK	1585.64	79.5886
Evc	chr5:37299170-37336881	OK	1.99101	0.0993929
Stxbp6	chr12:44852485-45074483	OK	9.77266	0.487413
Mmp14	chr14:54431603-54441258	OK	17.0109	0.840333
Chrd	chr16:20724453-20742384	NOTEST	0.384672	0.0189123
Pmp2	chr3:10179850-10183885	OK	24.5919	1.20624
Entpd2	chr2:25395873-25401323	OK	13.1568	0.645193
Lox	chr18:52516059-52529867	OK	6.21158	0.304594
Fxyd3	chr7:31059934-31076697	OK	20.1397	0.978795
C1qtnf5	chr9:44101769-44109187	OK	6.84385	0.332178
Thbs2	chr17:14665499-14694262	OK	2.66347	0.12856
Lrp2	chr2:69424334-69586067	NOTEST	0.263231	0.0126525
Gpd1	chr15:99717592-99725007	OK	12.8563	0.617883
Gucy1b3	chr3:82032003-82074711	OK	2.11486	0.101552
Cd74	chr18:60803848-60812652	OK	28.3717	1.35495
Clec18a	chr8:111069496-111081708	OK	1.30139	0.0620124
Hapln1	chr13:89540635-89611832	OK	12.3731	0.588749
Ehf	chr2:103263432-103303196	NOTEST	0.495866	0.0235806
Cdo1	chr18:46713204-46728342	OK	10.6261	0.50393
Sema3b	chr9:107597673-107609241	OK	50.442	2.3835
Fgd2	chr17:29360913-29379535	NOTEST	0.318685	0.0150148
Slco1a5	chr6:142234226-142322981	NOTEST	0.652586	0.0306802
Art3	chr5:92331840-92414627	OK	40.1301	1.88399
H2-Ob	chr17:34238904-34245908	NOTEST	0.157941	0.00736556
P2ry6	chr7:100937633-100964366	NOTEST	0.455181	0.0212237
Metrn	chr17:25794570-25797045	OK	21.6256	1.00627
Lmo3	chr6:138364480-138581968	NOTEST	0.412997	0.0191602
Ankfn1	chr11:89421085-89538555	OK	1.01834	0.0471146
A530058N18Rik	chr2:114009600-114032292	NOTEST	0.697441	0.0322578
Pou3f1	chr4:124657645-124660655	OK	3.94909	0.18167
Heyl	chr4:123233555-123249870	OK	3.26411	0.149388
Adamts5	chr16:85858156-85901125	OK	10.7471	0.491002
Dmp1	chr5:104202616-104214102	NOTEST	0.312436	0.0142115

Srpx2	chrX:133908424-133932446	OK	0.864245	0.0392951
Prx	chr7:27499323-27520041	OK	96.1528	4.33405
Cd248	chr19:5068077-5070639	OK	1.88199	0.0843055
Col27a1	chr4:63215411-63334990	OK	2.2087	0.0988553
Emp2	chr16:10281748-10313968	OK	24.8144	1.10581
Fras1	chr5:96373954-96784728	NOTEST	0.694633	0.0307093
Gxylt2	chr6:100704733-100805081	NOTEST	0.50722	0.0224177
Vstm2b	chr7:40899277-40929968	OK	7.28504	0.321825
Mmrn1	chr6:60944316-60989378	NOTEST	0.371008	0.0163853
Ccdc158	chr5:92608294-92675127	NOTEST	0.144196	0.00634935
Col1a1	chr11:94936269-94951856	OK	48.0789	2.11365
Apoc1	chr7:19689479-19692659	OK	3.76247	0.164945
Slit3	chr11:35121455-35708507	OK	1.69292	0.0737292
Adamts12	chr15:11064789-11346867	NOTEST	0.37372	0.0162618
Plxnb3	chrX:73757102-73772510	OK	5.46038	0.237569
Arhgef16	chr4:154278469-154299895	NOTEST	0.601599	0.0259909
Lama2	chr10:26981284-27616942	OK	7.47464	0.32226
Lamp5	chr2:136057926-136069917	NOTEST	0.241304	0.010381
Olfm4	chr14:80000301-80021930	NOTEST	0.298603	0.0126653
Pex11a	chr7:79737263-79743025	OK	4.52351	0.190181
Kif7	chr7:79660195-79714186	NOTEST	0.582495	0.0243909
Prrx1	chr1:163245118-163313650	OK	2.08573	0.0865857
Myh8	chr11:67277123-67308633	NOTEST	0.709483	0.0290672
1500015010Rik	chr1:43730601-43742564	OK	4.64104	0.189307
C1qb	chr4:136880144-136886177	OK	5.82643	0.237638
Ranbp3l	chr15:8967948-9067333	NOTEST	0.223609	0.00905948
Ibsp	chr5:104299286-104311472	OK	2.97092	0.120296
Cand2	chr6:115774556-115808743	OK	1.21097	0.0488733
Pdgfc	chr3:81036415-81214031	OK	2.5106	0.101168
Lgi4	chr7:31059934-31076697	OK	24.2186	0.972627
Gm7714	chr5:88268918-88282835	NOTEST	0.948591	0.0380478
Cryab	chr9:50751071-50756635	OK	119.196	4.74589
Rbpms2	chr9:65630581-65660518	NOTEST	0.521243	0.02075
Col1a2	chr6:4505696-4541543	OK	88.9173	3.5199
Ptgfrn	chr3:101040235-101110166	OK	15.7544	0.62322
9930014A18Rik	chr15:60818995-60831400	NOTEST	0.299261	0.0117947
Ace2	chrX:164139341-164188418	OK	0.802732	0.031632
Kcnj13	chr1:87326997-87450810	NOTEST	0.40511	0.0158969
Cd163	chr6:124304650-124330527	OK	0.931335	0.036289
Dlk1	chr12:109452822-109463336	NOTEST	0.121564	0.00471182
Adamts20	chr15:94270162-94404350	OK	2.71829	0.105291
Ccdc8	chr7:16994587-16996645	OK	1.41575	0.0547936
Lmx1b	chr2:33564535-33640511	NOTEST	0.465426	0.017942
Egflam	chr15:7206119-7398395	OK	3.97287	0.153079
Phgdh	chr3:98313170-98339969	OK	4.50216	0.172462
Mrap	chr16:90738323-90749776	NOTEST	0.614345	0.0231404
Notch3	chr17:32120892-32166852	OK	3.22713	0.120967
Calb2	chr8:110142537-110168206	OK	11.9156	0.438182
Foxd3	chr4:99656298-99658671	OK	7.39769	0.270783
Otop1	chr5:38277403-38304217	OK	2.21761	0.080925
Tgif2	chr2:156840006-156862945	OK	2.07157	0.0750182
Plp1	chrX:136822745-136838582	OK	191.808	6.93454
Fam163a	chr1:156075955-156205026	OK	0.874451	0.0315665

Ctnna3	chr10:63430097-65003667	OK	1.79723	0.0642653
Col8a2	chr4:126286793-126314330	OK	1.61785	0.0574746
Smoc2	chr17:14279505-14404790	OK	10.6943	0.378917
Ccl11	chr11:82057831-82062955	OK	2.9829	0.104861
Cnn1	chr9:22055459-22389206	OK	0.871538	0.0305857
Fbln1	chr15:85206007-85286294	OK	2.16555	0.0759604
Fam84a	chr12:14147597-14152038	NOTEST	0.326581	0.0114333
Trp63	chr16:25683764-25892088	NOTEST	0.236059	0.00826411
Sox3	chrX:60891365-60893430	NOTEST	0.578655	0.0202516
Islr	chr9:58156263-58159221	OK	16.8173	0.583136
Angpt2	chr8:18595172-18803188	OK	7.446	0.256793
Adamts7	chr9:90162977-90200102	OK	0.954437	0.032709
F3	chr3:121723536-121735052	OK	9.85746	0.336104
Cdh19	chr1:110889194-110977372	OK	22.623	0.770168
Acta2	chr19:34240335-34255373	OK	9.69859	0.327343
Gli3	chr13:15463722-15730025	NOTEST	0.2364	0.00796221
Pdpn	chr4:143267408-143299564	OK	15.3054	0.513838
Chrna10	chr7:102111265-102116713	NOTEST	0.765105	0.0256203
Igfbp6	chr15:102144185-102149512	OK	19.8049	0.661733
Cldn19	chr4:119255440-119262438	OK	32.0812	1.07181
Abca13	chr11:9191941-9684259	NOTEST	0.0434104	0.00144685
Slc6a1	chr6:114282634-114317525	OK	2.27808	0.0757555
Tmc1	chr19:20783457-20954202	NOTEST	0.144104	0.0046915
Nkain4	chr2:180934771-180954699	OK	9.42345	0.303027
Fzd2	chr11:102604430-102608058	OK	2.68297	0.0859117
Hk3	chr13:54949431-55021385	NOTEST	0.213219	0.00674924
Matn4	chr2:164389392-164415448	OK	11.0272	0.348619
Rbm47	chr5:66016548-66151954	NOTEST	0.127963	0.00404386
Nr2f1	chr13:78188972-78236564	OK	7.0682	0.221892
Rftn2	chr1:55170159-55226782	OK	3.48772	0.10948
Mgl2	chr11:70130356-70137542	OK	1.61984	0.0507919
Nxph1	chr6:8950018-9248578	OK	4.51047	0.140768
Myh11	chr16:14194526-14291408	OK	4.79411	0.149392
Sox10	chr15:79154912-79164490	OK	32.1017	0.999371
Lyz2	chr10:117277540-117282272	OK	19.0984	0.590848
Adap2	chr11:80154161-80178827	OK	1.00909	0.0311759
Gjb2	chr14:57098601-57104702	OK	1.41774	0.0435415
Aspa	chr11:73304987-73324637	OK	25.0348	0.7685
Gjc3	chr5:137953808-137962959	OK	20.1718	0.617458
Slc9a3	chr13:74121514-74166064	OK	0.88735	0.0269883
Col3a1	chr1:45311537-45349706	OK	58.3065	1.76569
Paqr6	chr3:88364588-88368541	OK	11.0556	0.334148
Nid1	chr13:13437601-13512275	OK	27.793	0.824093
Angptl7	chr4:148448581-148557685	OK	2.66913	0.0786584
Veph1	chr3:66053557-66296837	NOTEST	0.239787	0.00700648
Mcpt4	chr14:56059743-56062310	NOTEST	0.950415	0.0274997
Fam129a	chr1:151571372-151719347	OK	10.7947	0.311801
Pou3f2	chr4:22482094-22488366	OK	2.0534	0.0592989
Crabp1	chr9:54764747-54773110	OK	3.94882	0.113428
Cmtm5	chr14:54936469-54939277	OK	32.7856	0.927592
Map3k7cl	chr16:87553329-87595336	NOTEST	0.476048	0.0134593
Ctss	chr3:95526785-95556405	OK	4.79818	0.135184
Olfml2a	chr2:38931979-38960585	OK	11.5974	0.326215

Arhgef26	chr3:62338776-62462221	OK	2.81948	0.0789994
Col14a1	chr15:55307749-55520803	OK	6.97519	0.194136
Tmem40	chr6:115729136-115762466	OK	2.26187	0.0617929
Pamr1	chr2:102550020-102643040	OK	1.00766	0.0274131
Igf2	chr7:142650767-142670356	OK	13.7769	0.372469
Col12a1	chr9:79598986-79718722	OK	5.36985	0.144592
Erbp3	chr10:128569367-128589501	OK	16.3533	0.433455
Myo16	chr8:10153922-10633950	OK	1.08603	0.0287834
Hmgcs2	chr3:98280430-98310738	OK	30.4608	0.806659
Lum	chr10:97565500-97572703	OK	15.4158	0.406812
Galnt16	chr12:80518989-80603896	OK	7.17047	0.189165
Prrg4	chr2:104830740-104849850	OK	1.69837	0.0447804
Gm10046	chr7:27765672-27770972	OK	5.75543	0.150171
Papln	chr12:83763633-83792384	OK	4.27954	0.110552
Pm20d1	chr1:131797394-131818115	NOTEST	0.253774	0.00653161
Gpr126	chr10:14402584-14545036	OK	8.69059	0.223022
Aspn	chr13:49464058-49652731	OK	3.60699	0.0924118
Axl	chr7:25756499-25788733	OK	9.43099	0.241007
Cybrd1	chr2:71118053-71142926	OK	3.6994	0.0940431
Sorcs2	chr5:36017180-36398139	OK	4.70965	0.119697
Nwd1	chr8:72646710-72714748	OK	2.73355	0.0692404
Itgb3	chr11:104607999-104670471	OK	6.89186	0.174023
Ppp1r1b	chr11:98348737-98358283	OK	3.6645	0.0920813
Myoc	chr1:162639149-162658219	OK	4.96803	0.123706
Atp1b2	chr11:69599749-69605960	OK	40.6936	0.994554
Tsku	chr7:98350667-98361328	NOTEST	0.708723	0.0172991
Csf1r	chr18:61105571-61131139	OK	3.75415	0.0904129
Sox2ot	chr3:34560380-34677993	OK	4.43133	0.10657
Gpm6b	chrX:166238942-166389033	OK	110.609	2.65574
Atp1a2	chr1:172271708-172298064	OK	68.4787	1.64184
Sfrp5	chr19:42197970-42202252	OK	78.3842	1.83902
Ltbp2	chr12:84783211-84879755	OK	1.02548	0.0239429
Phex	chrX:157162074-157415286	NOTEST	0.128732	0.00299352
Htra3	chr5:35652025-35679780	OK	2.87609	0.0661227
Cldn1	chr16:26356645-26371839	OK	4.74383	0.108864
Cyp4f14	chr17:32905069-32917342	OK	2.72185	0.0622217
Egfl6	chrX:166523006-166585716	NOTEST	0.382913	0.00872243
Vgll3	chr16:65815632-65863066	OK	2.81308	0.0640424
Zfpm2	chr15:40655041-41104592	OK	0.985811	0.0223097
Spon1	chr7:113765997-114043375	OK	4.80178	0.108636
Extl1	chr4:134356372-134372547	NOTEST	0.742309	0.0167244
Adamts17	chr7:66839734-67152625	OK	0.852055	0.0191801
Pdgfrl	chr8:40926232-40990770	OK	1.46398	0.0326678
Slc13a3	chr2:165405294-165473197	OK	2.96652	0.0661277
Pla2g5	chr4:138799246-138863469	NOTEST	0.46373	0.0102622
Hepacam	chr9:37367605-37386571	OK	9.27856	0.203929
Daam2	chr17:49456021-49564337	OK	15.142	0.329591
2900052N01Rik	chr9:46913602-46927366	OK	5.43881	0.116746
Clec12a	chr6:129350243-129365303	NOTEST	0.422063	0.00900439
Vipr2	chr12:116077725-116146261	NOTEST	0.321262	0.00684904
Alpl	chr4:137741730-137796384	OK	6.06153	0.128618
Itgbl1	chr14:123660139-123974079	OK	2.76481	0.0573039
Loxl1	chr9:58287722-58313212	OK	1.48218	0.0303003

Lipg	chr18:74939321-74961263	NOTEST	0.550266	0.0111488
Gm14005	chr2:128298662-128429351	OK	1.6733	0.0335887
Slc7a2	chr8:40862366-40922070	OK	18.812	0.374503
Tuba8	chr6:121210769-121226097	OK	2.44342	0.0481875
Fbln5	chr12:101746564-101819119	OK	21.2586	0.412582
Egfr	chr11:16752202-16913907	NOTEST	0.751482	0.0145081
Kdelr3	chr15:79516407-79546741	OK	6.01846	0.116045
Fxyd1	chr7:31051677-31055656	OK	65.3426	1.25831
Sod3	chr5:52363803-52369738	OK	12.9546	0.248172
C1qc	chr4:136889801-136892914	OK	5.34704	0.101797
Mpeg1	chr19:12460778-12465285	OK	1.87093	0.0353063
Col28a1	chr6:7997807-8192617	OK	33.1054	0.614241
5930403L14Rik	chr4:154316124-154636873	OK	11.4213	0.208707
Kcnj16	chr11:110968032-111027967	OK	1.83467	0.0332279
Myom3	chr4:135759714-135815567	NOTEST	0.187504	0.00337653
B4galnt3	chr6:120203809-120294559	NOTEST	0.73258	0.0131737
Rarres2	chr6:48554798-48572670	OK	27.779	0.494932
Vtn	chr11:78499119-78502325	OK	6.82521	0.120689
Des	chr1:75360291-75375015	OK	0.90427	0.0159636
Thbs4	chr13:92751585-92794818	OK	1.56246	0.027572
Pf4	chr5:90772434-90773383	OK	3.35784	0.0587507
Enpp1	chr10:24641410-24712102	OK	6.59106	0.114287
Cryba2	chr1:74889933-74893143	OK	2.4222	0.0416601
Gpr3711	chr1:135160249-135167681	OK	43.5701	0.746391
Fbln2	chr6:91212763-91272540	OK	48.9744	0.834781
Hba-a1,Hba-a2	chr11:32283671-32284493	NOTEST	0.124188	0.00211035
Postn	chr3:54361106-54391041	OK	13.1227	0.220847
Tlr7	chrX:167304925-167330571	NOTEST	0.301281	0.00505178
Mafa	chr15:75746842-75747922	OK	4.00761	0.0663084
Srpx	chrX:10037976-10117661	OK	4.25971	0.0704753
Lrrc4b	chr7:44442486-44463344	OK	6.80041	0.111772
Pi15	chr1:17601900-17630939	NOTEST	0.400396	0.00649406
Fabp7	chr10:57784922-57788450	OK	322.961	5.21266
Amd1,Amd2	chr10:40287457-40302188	OK	1.73878	0.0280636
Efs	chr14:54916542-54926788	OK	2.11337	0.0334312
Fcrls	chr3:87250964-87263524	OK	1.54666	0.0243341
Lect1	chr14:79637689-79662170	OK	14.1165	0.218615
Gas1	chr13:60174404-60177535	OK	3.79549	0.058656
Hes5	chr4:154960922-154962371	OK	1.11193	0.0170319
Car5b	chrX:163976821-164028010	OK	4.34179	0.0660237
Serpine2	chr1:79794320-79858665	OK	62.9212	0.949496
Adcyap1r1	chr6:55451977-55501455	OK	1.35991	0.0201182
Ttyh1	chr7:4074124-4136926	OK	38.9537	0.572892
Abca9	chr11:110100821-110168153	OK	4.26774	0.0625023
Mfrp	chr9:44101769-44109187	NOTEST	0.336296	0.00486401
Tyrp1	chr4:80834212-80851736	OK	7.49912	0.106108
Cacng4	chr11:107734779-107794464	OK	4.06298	0.0539975
Olfr558	chr7:102702322-102712054	NOTEST	0.611417	0.00800924
2610034M16Rik	chr17:58878807-58991375	NOTEST	0.351618	0.00457201
Apoe	chr7:19696243-19699166	OK	2422.41	31.0456
Pdlim4	chr11:54054927-54069017	OK	8.68026	0.110235
Sostdc1	chr12:36314168-36318452	OK	32.9999	0.402764
Megf10	chr18:57133089-57297467	OK	8.55432	0.103723

Scara5	chr14:65666402-65764826	OK	3.6886	0.0427867
Wnt6	chr1:74771891-74785319	OK	7.69204	0.0863859
Lgr5	chr10:115450313-115587780	OK	5.94859	0.0649489
Abca8a	chr11:110025633-110095937	OK	64.7776	0.685194
P2ry12	chr3:59006977-59344256	OK	3.04175	0.0310901
H2-Aa	chr17:34282750-34287771	OK	15.3354	0.155553
Angptl1	chr1:156804165-156939626	OK	2.7069	0.0274356
Hif3a	chr7:17030992-17062427	NOTEST	0.32307	0.003243
Ptges	chr2:30889470-30903297	OK	3.48049	0.0340547
5430435G22Rik	chr1:131688694-131713464	OK	1.01169	0.00984305
Aldh1a2	chr9:71215788-71296243	OK	1.09454	0.0105611
C1qa	chr4:136895915-136898844	OK	4.98884	0.0480161
Acsbg1	chr9:54604996-54661885	OK	30.7905	0.274382
Nfe2l3	chr6:51432669-51458768	OK	1.99188	0.0175178
Megf11	chr9:64385625-64709205	OK	1.20925	0.00999333
Tfap2a	chr13:40715674-40733823	OK	1.017	0.00818867
Slc1a3	chr15:8634123-8710807	OK	5.94844	0.0466953
Prss35	chr9:86743632-86757506	OK	29.8687	0.222888
H2-Q8	chr17:35424846-35428361	NOTEST	0.100363	0.00074798
Emr1	chr17:57358685-57483529	OK	0.988031	0.00716349
Mmd2	chr5:142563480-142608752	OK	58.5913	0.421553
Sox2	chr3:34560380-34677993	OK	9.37962	0.0660509
Ednrb	chr14:103814614-103844476	OK	63.0298	0.435286
Itgb8	chr12:119162802-119238276	OK	25.5496	0.175833
Olfml1	chr7:107284774-107591365	OK	4.78641	0.0308952
H19	chr7:142575531-142578146	OK	4.44094	0.0270866
Car13	chr3:14641726-14663002	OK	5.00113	0.0304584
Kcnj10	chr1:172341209-172374085	OK	25.1946	0.152984
Ugt1a6a	chr1:88055410-88220002	OK	8.37113	0.0437058
Bmp5	chr9:75775364-75899017	OK	1.57251	0.00781648
Gm10591	chr4:41889794-42462993	NOTEST	0.0519635	0.00010799
Gm13304	chr4_JH584293_random:59768	NOTEST	0.103898	0.00019234
Gm21541	chr4:41889794-42462993	NOTEST	0.162496	0.00029243
Fsbp	chr4:11558919-11615808	NOTEST	0.183591	0.00031447
Slc6a11	chr6:114131240-114249886	OK	2.76041	0.00470001
Gm12191	chr15:34440505-34443276	NOTEST	0.107175	8.50E-05
Rbm14-rbm4	chr19:4784292-4811634	NOTEST	0.253214	7.48E-05
Krt85	chr15:101431013-101491512	NOTEST	0.0299533	8.53E-06
Hist1h4m,Hist1h4n	chr13:21811745-21812150	NOTEST	0.257987	2.38E-05
Pira1	chr7:3731632-3915501	NOTEST	0.0118789	2.87E-07
Ear2,Ear3	chr14:44102653-44103531	NOTEST	0.379708	6.75E-07

gene	log2 fold change	test stat	p value	q value	significant
Cbr2	#NAME?	#NAME?	5.00E-05	0.00022	yes
Chil3	#NAME?	#NAME?	5.00E-05	0.00022	yes
Cyp4f15	#NAME?	#NAME?	5.00E-05	0.00022	yes
Cyt11	#NAME?	#NAME?	5.00E-05	0.00022	yes
Dhrs2	#NAME?	#NAME?	5.00E-05	0.00022	yes
Dpt	#NAME?	#NAME?	5.00E-05	0.00022	yes
Fam180a	#NAME?	#NAME?	5.00E-05	0.00022	yes
Fgf2	#NAME?	#NAME?	5.00E-05	0.00022	yes
Gkn3	#NAME?	#NAME?	5.00E-05	0.00022	yes
Gm266	#NAME?	#NAME?	5.00E-05	0.00022	yes
Gpnmb	#NAME?	#NAME?	5.00E-05	0.00022	yes
I730030J21Rik	#NAME?	#NAME?	5.00E-05	0.00022	yes
Inmt	#NAME?	#NAME?	5.00E-05	0.00022	yes
Lypd2	#NAME?	#NAME?	5.00E-05	0.00022	yes
Ms4a6c	#NAME?	#NAME?	5.00E-05	0.00022	yes
Musk	#NAME?	#NAME?	5.00E-05	0.00022	yes
Retnla	#NAME?	#NAME?	5.00E-05	0.00022	yes
Rlbp1	#NAME?	#NAME?	5.00E-05	0.00022	yes
Slc25a18	#NAME?	#NAME?	5.00E-05	0.00022	yes
Tmem119	#NAME?	#NAME?	5.00E-05	0.00022	yes
Tpsb2	#NAME?	#NAME?	5.00E-05	0.00022	yes
Snhg9	#NAME?	#NAME?	0.01035	0.026762	yes
Snord22	#NAME?	#NAME?	0.19805	0.311319	no
Snord15b	#NAME?	#NAME?	0.20385	0.318624	no
0610038B21Rik	#NAME?	0	1	1	no
1100001G20Rik	#NAME?	0	1	1	no
1110015O18Rik	#NAME?	0	1	1	no
1300002K09Rik	#NAME?	0	1	1	no
1600010M07Rik	#NAME?	0	1	1	no
1600019K03Rik	#NAME?	0	1	1	no
1700001J11Rik	#NAME?	0	1	1	no
1700001K23Rik	#NAME?	0	1	1	no
1700003G13Rik	#NAME?	0	1	1	no
1700003M07Rik	#NAME?	0	1	1	no
1700007F19Rik	#NAME?	0	1	1	no
1700007P06Rik	#NAME?	0	1	1	no
1700008I05Rik	#NAME?	0	1	1	no
1700011E24Rik	#NAME?	0	1	1	no
1700013F07Rik	#NAME?	0	1	1	no
1700015F17Rik	#NAME?	0	1	1	no
1700017G19Rik	#NAME?	0	1	1	no
1700017N19Rik	#NAME?	0	1	1	no
1700019B03Rik	#NAME?	0	1	1	no
1700020L24Rik	#NAME?	0	1	1	no
1700020N18Rik	#NAME?	0	1	1	no
1700029F12Rik	#NAME?	0	1	1	no
1700029M20Rik	#NAME?	0	1	1	no

1700040L02Rik	#NAME?	0	1	1	no
1700042G15Rik	#NAME?	0	1	1	no
1700060C20Rik	#NAME?	0	1	1	no
1700064M15Rik	#NAME?	0	1	1	no
1700067K01Rik	#NAME?	0	1	1	no
1700084C01Rik	#NAME?	0	1	1	no
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1700094J05Rik	#NAME?	0	1	1	no
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1700105P06Rik	#NAME?	0	1	1	no
1700108F19Rik	#NAME?	0	1	1	no
1700109G14Rik	#NAME?	0	1	1	no
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1700120C14Rik	#NAME?	0	1	1	no
1700120K04Rik	#NAME?	0	1	1	no
1700123O21Rik	#NAME?	0	1	1	no
1700124L16Rik	#NAME?	0	1	1	no
1700125H20Rik	#NAME?	0	1	1	no
1810019D21Rik	#NAME?	0	1	1	no
1810021B22Rik	#NAME?	0	1	1	no
1810064F22Rik	#NAME?	0	1	1	no
1810065E05Rik	#NAME?	0	1	1	no
2010001E11Rik	#NAME?	0	1	1	no
2010005H15Rik	#NAME?	0	1	1	no
2010106C02Rik	#NAME?	0	1	1	no
2010109I03Rik	#NAME?	0	1	1	no
2010308F09Rik	#NAME?	0	1	1	no
2210010C04Rik	#NAME?	0	1	1	no
2210407C18Rik	#NAME?	0	1	1	no
2300002M23Rik	#NAME?	0	1	1	no
2310002D06Rik	#NAME?	0	1	1	no
2310002J15Rik	#NAME?	0	1	1	no
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2310015D24Rik	#NAME?	0	1	1	no
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2310042E22Rik	#NAME?	0	1	1	no
2310057J18Rik	#NAME?	0	1	1	no
2410137M14Rik	#NAME?	0	1	1	no
2610528A11Rik	#NAME?	0	1	1	no
2810404M03Rik	#NAME?	0	1	1	no
2810405F15Rik	#NAME?	0	1	1	no
2810433D01Rik	#NAME?	0	1	1	no
2810459M11Rik	#NAME?	0	1	1	no
2810471M01Rik	#NAME?	0	1	1	no
2900057B20Rik	#NAME?	0	1	1	no
3110015C05Rik	#NAME?	0	1	1	no
3110035E14Rik	#NAME?	0	1	1	no
3830403N18Rik	#NAME?	0	1	1	no
3830417A13Rik	#NAME?	0	1	1	no
4732490B19Rik	#NAME?	0	1	1	no
4833403I15Rik	#NAME?	0	1	1	no
4833411C07Rik	#NAME?	0	1	1	no

4833417C18Rik	#NAME?	0	1	1	no
4921507L20Rik	#NAME?	0	1	1	no
4921530L21Rik	#NAME?	0	1	1	no
4930401O10Rik	#NAME?	0	1	1	no
4930405J17Rik	#NAME?	0	1	1	no
4930415O20Rik	#NAME?	0	1	1	no
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4930452G13Rik	#NAME?	0	1	1	no
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Barx1	#NAME?	0	1	1	no
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Bhlha15	#NAME?	0	1	1	no
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C9	#NAME?	0	1	1	no
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Gal3st2	#NAME?	0	1	1	no
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Unc93a	#NAME?	0	1	1	no
Urah	#NAME?	0	1	1	no
Usp50	#NAME?	0	1	1	no
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Vgll2	#NAME?	0	1	1	no
Vip	#NAME?	0	1	1	no
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Vmn2r20	#NAME?	0	1	1	no
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Wee2	#NAME?	0	1	1	no
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Zim3	#NAME?	0	1	1	no
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Snora70	inf	#NAME?	0.20665	0.322127	no
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1600029I14Rik	inf	0	1	1	no
1700007K09Rik	inf	0	1	1	no
1700011H14Rik	inf	0	1	1	no
1700012L04Rik	inf	0	1	1	no
1700022I11Rik	inf	0	1	1	no
1700029P11Rik	inf	0	1	1	no

1700030L20Rik	inf	0	1	1	no
1700054M17Rik	inf	0	1	1	no
1700071K01Rik	inf	0	1	1	no
1700072O05Rik	inf	0	1	1	no
1700084E18Rik	inf	0	1	1	no
1700097N02Rik	inf	0	1	1	no
1810046K07Rik	inf	0	1	1	no
2310007B03Rik	inf	0	1	1	no
2310030A07Rik	inf	0	1	1	no
2610028E06Rik	inf	0	1	1	no
2610318N02Rik	inf	0	1	1	no
2700086A05Rik	inf	0	1	1	no
3110099E03Rik	inf	0	1	1	no
4732416N19Rik	inf	0	1	1	no
4921506M07Rik	inf	0	1	1	no
4930404I05Rik	inf	0	1	1	no
4930405L22Rik	inf	0	1	1	no
4930428G15Rik	inf	0	1	1	no
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4930469G21Rik	inf	0	1	1	no
4930482G09Rik	inf	0	1	1	no
4930500F04Rik	inf	0	1	1	no
4930507D10Rik	inf	0	1	1	no
4930546C10Rik	inf	0	1	1	no
4930594C11Rik	inf	0	1	1	no
4931406H21Rik	inf	0	1	1	no
4932702P03Rik	inf	0	1	1	no
4933402N22Rik	inf	0	1	1	no
4933403O08Rik	inf	0	1	1	no
4933406M09Rik	inf	0	1	1	no
4933413G19Rik	inf	0	1	1	no
4933424G05Rik	inf	0	1	1	no
4933436E23Rik	inf	0	1	1	no
5430437J10Rik	inf	0	1	1	no
5730460C07Rik	inf	0	1	1	no
5830428M24Rik	inf	0	1	1	no
8030423J24Rik	inf	0	1	1	no
9130024F11Rik	inf	0	1	1	no
9830107B12Rik	inf	0	1	1	no
A430090L17Rik	inf	0	1	1	no
A630023P12Rik	inf	0	1	1	no
A630075F10Rik	inf	0	1	1	no
A730082K24Rik	inf	0	1	1	no
A930019D19Rik	inf	0	1	1	no
AI463170	inf	0	1	1	no
Abca14	inf	0	1	1	no
Abhd16b	inf	0	1	1	no
Actl10	inf	0	1	1	no
Adam24	inf	0	1	1	no
Aim1l	inf	0	1	1	no
Akap14	inf	0	1	1	no
Ankk1	inf	0	1	1	no
Ankrd60	inf	0	1	1	no

Apol11a	inf	0	1	1	no
Apon	inf	0	1	1	no
Arhgap33os	inf	0	1	1	no
B230323A14Rik	inf	0	1	1	no
B930092H01Rik	inf	0	1	1	no
BC021614	inf	0	1	1	no
BC024386	inf	0	1	1	no
BC051019	inf	0	1	1	no
BC094916	inf	0	1	1	no
Bhmt	inf	0	1	1	no
Bmp8b	inf	0	1	1	no
Bpifb6	inf	0	1	1	no
Bsx	inf	0	1	1	no
Btn1a1	inf	0	1	1	no
C130083M11Rik	inf	0	1	1	no
C330024C12Rik	inf	0	1	1	no
C730027H18Rik	inf	0	1	1	no
C8b	inf	0	1	1	no
Cabp4	inf	0	1	1	no
Car6	inf	0	1	1	no
Ccdc27	inf	0	1	1	no
Ccdc54	inf	0	1	1	no
Ccdc73	inf	0	1	1	no
Cdhr3	inf	0	1	1	no
Cdx1	inf	0	1	1	no
Ceacam15	inf	0	1	1	no
Chil6	inf	0	1	1	no
Cidec	inf	0	1	1	no
Clcnkb	inf	0	1	1	no
Cldn20	inf	0	1	1	no
Cldn6	inf	0	1	1	no
Clec4b2	inf	0	1	1	no
Cplx3	inf	0	1	1	no
Csf3	inf	0	1	1	no
Cxcr1	inf	0	1	1	no
Cyp17a1	inf	0	1	1	no
D030025E07Rik	inf	0	1	1	no
D230030E09Rik	inf	0	1	1	no
D730045A05Rik	inf	0	1	1	no
Daw1	inf	0	1	1	no
Dbh	inf	0	1	1	no
Dbhos	inf	0	1	1	no
Dear1	inf	0	1	1	no
Dmbt1	inf	0	1	1	no
Dnmt3l	inf	0	1	1	no
Dupd1	inf	0	1	1	no
E130201H02Rik	inf	0	1	1	no
E230008N13Rik	inf	0	1	1	no
En1	inf	0	1	1	no
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Fabp1	inf	0	1	1	no
Fam166a	inf	0	1	1	no
Fam166b	inf	0	1	1	no

Fam216b	inf	0	1	1	no
Fam83b	inf	0	1	1	no
Fer1l5	inf	0	1	1	no
Ffar3	inf	0	1	1	no
Fmo9	inf	0	1	1	no
Foxi3	inf	0	1	1	no
Foxn4	inf	0	1	1	no
Frs3os	inf	0	1	1	no
Gm10012	inf	0	1	1	no
Gm11166	inf	0	1	1	no
Gm11437	inf	0	1	1	no
Gm11554	inf	0	1	1	no
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Gpr142	inf	0	1	1	no
Gsdmc4	inf	0	1	1	no

Gtf2a1l	inf	0	1	1	no
Gzmb	inf	0	1	1	no
H2-M1	inf	0	1	1	no
H2-M10.5	inf	0	1	1	no
Heatr9	inf	0	1	1	no
Hemt1	inf	0	1	1	no
Heph1l	inf	0	1	1	no
Hesx1	inf	0	1	1	no
Hgfac	inf	0	1	1	no
Hist1h2ae	inf	0	1	1	no
Hist1h2ag	inf	0	1	1	no
Hist1h2ai	inf	0	1	1	no
Hist1h2ak	inf	0	1	1	no
Hist1h2bm	inf	0	1	1	no
Hist1h3c	inf	0	1	1	no
Hist1h4d	inf	0	1	1	no
Hist1h4n	inf	0	1	1	no
Hist2h2ac	inf	0	1	1	no
Hist2h2bb	inf	0	1	1	no
Hmx2	inf	0	1	1	no
Hmx3	inf	0	1	1	no
Hsd3b6	inf	0	1	1	no
Hyal6	inf	0	1	1	no
Ifitm5	inf	0	1	1	no
Ifng	inf	0	1	1	no
Kcnmb3	inf	0	1	1	no
Kcnmb4os1	inf	0	1	1	no
Klk12	inf	0	1	1	no
Klra10	inf	0	1	1	no
Klra14-ps	inf	0	1	1	no
Klra3	inf	0	1	1	no
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Klra5	inf	0	1	1	no
Klra9	inf	0	1	1	no
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Krt6a	inf	0	1	1	no
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LOC102635087	inf	0	1	1	no
LOC381967	inf	0	1	1	no
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Lgals2	inf	0	1	1	no
Lipm	inf	0	1	1	no
Mc5r	inf	0	1	1	no
Mcpt1	inf	0	1	1	no
Mir686	inf	0	1	1	no
Mir8094	inf	0	1	1	no
Mir8098	inf	0	1	1	no
Mir8114	inf	0	1	1	no
Mogat2	inf	0	1	1	no
Mrpl23	inf	0	1	1	no

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Myog	inf	0	1	1	no
Naaladl1	inf	0	1	1	no
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Olfr1034	inf	0	1	1	no
Olfr1163	inf	0	1	1	no
Olfr1392	inf	0	1	1	no
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Olfr421-ps1	inf	0	1	1	no
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Olfr700	inf	0	1	1	no
Oxct2a	inf	0	1	1	no
Oxgr1	inf	0	1	1	no
Pam16	inf	0	1	1	no
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Phxr4	inf	0	1	1	no
Pklr	inf	0	1	1	no
Plg	inf	0	1	1	no
Pou5f2	inf	0	1	1	no
Ppifos	inf	0	1	1	no
Proz	inf	0	1	1	no
Prss27	inf	0	1	1	no
Prss50	inf	0	1	1	no
Pspn	inf	0	1	1	no
Rab25	inf	0	1	1	no
Rbm44	inf	0	1	1	no
Reg3b	inf	0	1	1	no
Rhox8	inf	0	1	1	no
Rnu12	inf	0	1	1	no
Rrh	inf	0	1	1	no
Serpina1a	inf	0	1	1	no
Serpina1c	inf	0	1	1	no
Serpinb9b	inf	0	1	1	no
Serpinc1	inf	0	1	1	no
Sftpb	inf	0	1	1	no
Sh2d1b1	inf	0	1	1	no
Skint8	inf	0	1	1	no
Sla2	inf	0	1	1	no
Slc17a4	inf	0	1	1	no
Slc23a3	inf	0	1	1	no
Spata31d1d	inf	0	1	1	no
Spdyb	inf	0	1	1	no
Spint5	inf	0	1	1	no
Srrm4os	inf	0	1	1	no
St8sia3os	inf	0	1	1	no
Stmn1-rs1	inf	0	1	1	no
Svs3a	inf	0	1	1	no
Tac2	inf	0	1	1	no
Tbx5	inf	0	1	1	no

Tcp10a	inf		0	1	1	no
Tcte3	inf		0	1	1	no
Terc	inf		0	1	1	no
Tktl1	inf		0	1	1	no
Tktl2	inf		0	1	1	no
Tmem239	inf		0	1	1	no
Tmprss11a	inf		0	1	1	no
Tmprss11d	inf		0	1	1	no
Tmprss11e	inf		0	1	1	no
Tmsb15a	inf		0	1	1	no
Tnnt2	inf		0	1	1	no
Trim61	inf		0	1	1	no
Trpv5	inf		0	1	1	no
Ttll2	inf		0	1	1	no
Tubal3	inf		0	1	1	no
Ubd	inf		0	1	1	no
Ugt2a1	inf		0	1	1	no
Ugt2a2	inf		0	1	1	no
Vmn1r53	inf		0	1	1	no
Vmn1r89	inf		0	1	1	no
Vmn2r118	inf		0	1	1	no
Vmn2r46	inf		0	1	1	no
Vmn2r7	inf		0	1	1	no
Vpreb1	inf		0	1	1	no
Vwa5b1	inf		0	1	1	no
Wdr38	inf		0	1	1	no
Wfdc8	inf		0	1	1	no
Wt1os	inf		0	1	1	no
Zdhhc19	inf		0	1	1	no
Zf12	inf		0	1	1	no
Zg16	inf		0	1	1	no
Ndufs5	12.0646	0.0155968		0.3972	0.528922	no
Naip7	10.1077		0	1	1	no
Gata1	8.15335	1.33371		0.05525	0.111027	no
Rhag	7.91774	3.80107		0.0699	0.13485	no
Kel	7.51483	3.47311		0.0719	0.137926	no
Btnl10	7.30274	1.33051		0.05525	0.111027	no
Gfi1b	7.09481	0.753259		0.2183	0.336297	no
Gypa	6.99328	7.26854		5.00E-05	0.00022	yes
Hemgn	6.777	6.30724		0.0001	0.000422	yes
Gm867	6.68627	0.635951		0.2228	0.341721	no
Apol11b	6.67173	5.10426		0.0009	0.003139	yes
Cldn13	6.572	3.44319		0.0476	0.098121	no
Sfn14	6.50966	4.40185		0.011	0.0282	yes
Ermap	6.45473	5.78074		5.00E-05	0.00022	yes
Rhd	6.34054	5.53543		0.0007	0.002506	yes
Slc4a1	6.316	12.5827		5.00E-05	0.00022	yes
Icam4	6.24716	1.25448		0.06055	0.119702	no
Ctse	6.02537	6.51679		5.00E-05	0.00022	yes
Klf1	6.02444	4.28419		0.0106	0.027323	yes
Spta1	5.93566	6.47794		5.00E-05	0.00022	yes
Trim10	5.74939	6.37695		5.00E-05	0.00022	yes
Ankle1	5.62111	2.07582		0.16165	0.265455	no

Epb4.2	5.51325	5.76174	5.00E-05	0.00022	yes
Cd8a	5.37424	0	1	1	no
Hbb-bs	5.36002	9.72443	5.00E-05	0.00022	yes
Masp2	5.31474	0	1	1	no
Tspo2	5.28919	3.56145	0.02235	0.051739	no
Kif18b	5.24698	2.88203	0.0443	0.092396	no
Pdzk1ip1	5.11057	2.18443	0.03145	0.069104	no
Hist1h2ao,Hist1h2a	5.06469	0.72189	0.2242	0.343551	no
Crct1	5.04853	1.15209	0.06395	0.125192	no
1300017J02Rik	5.04669	2.99117	0.01395	0.034626	yes
Alas2	4.95163	14.0025	5.00E-05	0.00022	yes
Hba-a2	4.94383	15.4305	5.00E-05	0.00022	yes
1700028K03Rik	4.90514	0	1	1	no
Cyp2c55	4.90144	0	1	1	no
Ube2c	4.82006	5.617	5.00E-05	0.00022	yes
Nfe2	4.81906	4.26356	0.00015	0.000615	yes
6330415B21Rik	4.81035	0	1	1	no
Epor	4.78921	3.28787	0.0044	0.012685	yes
Mki67	4.76549	10.2192	5.00E-05	0.00022	yes
Prf1	4.52892	0	1	1	no
Car1	4.49826	4.11854	5.00E-05	0.00022	yes
Grap2	4.46498	3.00061	0.02845	0.063522	no
Klre1	4.44848	0	1	1	no
Daf2	4.44741	0	1	1	no
Hbb-b1,Hbb-bs	4.4448	8.88419	5.00E-05	0.00022	yes
Hbb-bt	4.33707	20.3392	5.00E-05	0.00022	yes
Fgf3	4.33685	0	1	1	no
Slc43a1	4.30438	4.45271	5.00E-05	0.00022	yes
Mybl2	4.29193	0	1	1	no
Nusap1	4.23715	3.78271	5.00E-05	0.00022	yes
Gpr128	4.19509	0	1	1	no
Neil3	4.193	2.73669	0.0039	0.011392	yes
Gm11426	4.16571	0	1	1	no
LOC171588	4.14338	0	1	1	no
Mobp	4.11599	4.38453	5.00E-05	0.00022	yes
Sap25	4.08945	0	1	1	no
Unc5cl	4.088	0	1	1	no
Ccna2	4.07594	3.05866	5.00E-05	0.00022	yes
Isg20	4.07277	6.01027	5.00E-05	0.00022	yes
Aurkb	4.06834	2.69912	0.0122	0.030789	yes
Fasl	4.04267	0	1	1	no
Pif1	4.03692	0	1	1	no
Hist1h3e	4.03284	0	1	1	no
6030468B19Rik	4.00773	0	1	1	no
Gzma	3.96122	3.00117	0.00655	0.017992	yes
Pnp2	3.96011	0	1	1	no
Ncr1	3.94274	0	1	1	no
Cenpf	3.92346	5.02715	5.00E-05	0.00022	yes
Adm2	3.89581	0	1	1	no
1190002F15Rik	3.89259	2.20774	0.0022	0.006933	yes
Klri2	3.88216	0	1	1	no
Ccnb2	3.86727	4.01867	5.00E-05	0.00022	yes
Hist1h2ad	3.84987	0	1	1	no

Ptpn20	3.8141	0	1	1	no
Xcl1	3.7977	0	1	1	no
AI662270	3.78905	4.14338	5.00E-05	0.00022	yes
Slc39a2	3.73343	0	1	1	no
Oas3	3.73006	3.61068	5.00E-05	0.00022	yes
Mme11	3.72899	0	1	1	no
Gdf1	3.72666	1.12169	0.0573	0.114471	no
9830132P13Rik	3.72255	0	1	1	no
Klk7	3.71596	0	1	1	no
Gp9	3.70436	0	1	1	no
C730036E19Rik	3.69705	0	1	1	no
Esco2	3.67176	3.17192	0.0007	0.002506	yes
Top2a	3.62628	5.98135	5.00E-05	0.00022	yes
Kif14	3.6112	0	1	1	no
Mylk3	3.61062	2.77991	0.00155	0.005095	yes
C630031E19Rik	3.60183	0	1	1	no
8430431K14Rik	3.60014	0	1	1	no
Ppp1r42	3.59696	0	1	1	no
Il7r	3.56201	0	1	1	no
Cdc6	3.54215	3.02138	5.00E-05	0.00022	yes
Mageb3	3.53515	0	1	1	no
Cckbr	3.53405	2.44477	0.00555	0.015544	yes
A530088E08Rik	3.52608	0	1	1	no
Fam46c	3.51773	7.37246	5.00E-05	0.00022	yes
1810053B23Rik	3.50182	0	1	1	no
Ms4a4b	3.4997	2.32535	0.0161	0.039164	yes
Cldn8	3.4994	0	1	1	no
Nkg7	3.47249	2.29651	0.0458	0.095105	no
Trim58	3.46049	3.43087	5.00E-05	0.00022	yes
Apol10a	3.4567	0	1	1	no
Rrm2	3.44987	5.85472	5.00E-05	0.00022	yes
Il1bos	3.43012	0	1	1	no
Dtl	3.39985	0	1	1	no
Casc5	3.39601	3.60706	5.00E-05	0.00022	yes
Eqtn	3.39129	0	1	1	no
Klrc1	3.38711	0	1	1	no
Lax1	3.38174	0	1	1	no
Tal1	3.37772	5.17852	5.00E-05	0.00022	yes
Pdia2	3.37179	0	1	1	no
Dlgap5	3.36619	3.28856	5.00E-05	0.00022	yes
Dntt	3.36407	0	1	1	no
Xist	3.3639	0	1	1	no
Olig3	3.33135	0	1	1	no
Rbm38	3.32749	5.96522	5.00E-05	0.00022	yes
Ccdc169	3.31988	0	1	1	no
BC016579	3.30845	0	1	1	no
Cxcr3	3.30527	0	1	1	no
Cd8b1	3.29165	0	1	1	no
E2f8	3.22722	3.92583	5.00E-05	0.00022	yes
Vmn1r90	3.22457	0	1	1	no
Depdc1a	3.22305	0	1	1	no
A330093E20Rik	3.20026	0	1	1	no
Tnk1	3.19012	0	1	1	no

Sgol1	3.18883	0	1	1	no
Bmp8a	3.15823	0	1	1	no
Pbk	3.14956	2.26473	0.00705	0.019182	yes
Fam132b	3.12451	0	1	1	no
Cnga2	3.11377	0	1	1	no
Hist1h2ah	3.11208	0	1	1	no
Ccdc64b	3.10621	0	1	1	no
Sprr1a	3.09858	3.91064	0.0001	0.000422	yes
Gm14393	3.09613	0	1	1	no
Mc1r	3.07839	0	1	1	no
Il18r1	3.07651	0	1	1	no
Lrr1	3.06364	0	1	1	no
Samd3	3.05711	0	1	1	no
Myb	3.03544	0	1	1	no
Tbrg3	3.02788	0	1	1	no
Tspan33	3.02575	5.37828	5.00E-05	0.00022	yes
Ecel1	3.01673	3.50776	5.00E-05	0.00022	yes
2810417H13Rik	3.01569	1.07362	0.0882	0.161981	no
Aspm	3.01375	0	1	1	no
Xlr	3.00955	0	1	1	no
Hist1h3g	3.00928	0	1	1	no
Il2rb	3.00866	2.558	0.0013	0.004375	yes
Gm21119	2.99825	0	1	1	no
Tnfaip2	2.9963	4.31131	5.00E-05	0.00022	yes
Gpr115	2.99045	0	1	1	no
1700012D14Rik	2.97578	0	1	1	no
Ccnb1	2.96997	0	1	1	no
Khdc1a	2.93791	0	1	1	no
Rpl12	2.91876	0	1	1	no
Acp5	2.90881	1.11032	0.0508	0.103512	no
Erdr1	2.90781	0	1	1	no
Trim59	2.88089	5.1777	5.00E-05	0.00022	yes
Slc25a37	2.88078	9.53304	5.00E-05	0.00022	yes
1700093K21Rik	2.87614	0	1	1	no
4931431C16Rik	2.86526	0	1	1	no
Aqp9	2.85694	0	1	1	no
Klrg1	2.84802	0	1	1	no
Tnfrsf14	2.84531	2.80439	0.00225	0.007062	yes
Usp44	2.83999	0	1	1	no
Gm4847	2.82717	0	1	1	no
C030023E24Rik	2.82664	4.75246	5.00E-05	0.00022	yes
Grb7	2.81476	0	1	1	no
Apob	2.80778	0	1	1	no
Olf1372-ps1	2.79652	2.57597	0.0011	0.00376	yes
Cd3d	2.78533	0	1	1	no
Kif15	2.78514	0	1	1	no
4930467E23Rik	2.77313	0	1	1	no
Mfsd2b	2.76967	3.69059	5.00E-05	0.00022	yes
4930474G06Rik	2.76006	0	1	1	no
Klrb1c	2.76004	0	1	1	no
BC049635	2.75873	0	1	1	no
4732456N10Rik	2.75754	0	1	1	no
Cdk1	2.75644	3.06657	5.00E-05	0.00022	yes

Snai3	2.7563	0	1	1	no
1700011A15Rik	2.75565	0	1	1	no
Pkhd11l	2.74633	0	1	1	no
Klra7	2.73805	0	1	1	no
Mrgpra4	2.73764	0	1	1	no
Kif4	2.73725	2.91122	0.0001	0.000422	yes
Trpm1	2.73166	0	1	1	no
Ubap1l	2.72994	0	1	1	no
Slc22a29	2.72887	0	1	1	no
Hes3	2.72647	2.60156	0.0012	0.004068	yes
Fam110c	2.72597	0	1	1	no
Ccdc175	2.71795	0	1	1	no
Nmur2	2.71506	0	1	1	no
Tmem91	2.69002	0.783966	0.3713	0.502708	no
Ceacam2	2.68972	0	1	1	no
Fam219aos	2.68601	0	1	1	no
Hnf4g	2.68383	0	1	1	no
Kcnk16	2.67752	0	1	1	no
Serpina9	2.66346	0	1	1	no
Ddx43	2.6611	0	1	1	no
Sp5	2.66071	0	1	1	no
Rsad2	2.65768	8.99385	5.00E-05	0.00022	yes
Hist1h4c	2.64821	0	1	1	no
Slc14a1	2.64725	3.805	5.00E-05	0.00022	yes
Hist1h3i	2.64469	0	1	1	no
Syce1l	2.64251	0	1	1	no
Hmnr	2.63845	3.39933	5.00E-05	0.00022	yes
Neurog1	2.63735	0	1	1	no
C030016D13Rik	2.63557	0	1	1	no
Cenpa	2.63456	3.45769	5.00E-05	0.00022	yes
F830002L21Rik	2.63432	2.38111	0.002	0.006363	yes
Uhrf1	2.6341	2.78823	5.00E-05	0.00022	yes
Ctcf1	2.6305	0	1	1	no
Lat	2.61796	0	1	1	no
D930020B18Rik	2.60424	0	1	1	no
Ctsw	2.60286	0	1	1	no
Otp	2.59312	0	1	1	no
Clspn	2.59275	0	1	1	no
Cst7	2.58156	0	1	1	no
Gm15612	2.57843	0	1	1	no
Ubash3a	2.56914	0	1	1	no
Slc22a13	2.56622	0	1	1	no
C2cd4a	2.5652	0	1	1	no
D6Ert474e	2.56349	0	1	1	no
Hmgb2	2.54894	2.72206	0.00035	0.001342	yes
Gm14827	2.53939	0	1	1	no
C1ql4	2.53924	6.04213	5.00E-05	0.00022	yes
Trim29	2.53921	0	1	1	no
Snhg11	2.53514	10.238	5.00E-05	0.00022	yes
Hbq1a	2.52838	0	1	1	no
Pglyrp2	2.52719	0	1	1	no
Eomes	2.52141	0	1	1	no
Ccl5	2.51833	3.44952	0.00195	0.006219	yes

Adcy10	2.50876	0	1	1	no
A230028O05Rik	2.50631	0	1	1	no
Tgm6	2.50548	0	1	1	no
Bpgm	2.50427	9.50717	5.00E-05	0.00022	yes
Lrrc2	2.50274	0	1	1	no
Cenpe	2.50127	3.80937	5.00E-05	0.00022	yes
Ovol2	2.496	2.37795	0.0002	0.000803	yes
Gm128	2.49173	0	1	1	no
Aldh3b2	2.48939	0	1	1	no
Nccrp1	2.4859	2.43362	0.00205	0.006503	yes
Slc12a3	2.4797	0	1	1	no
Hbq1b	2.47847	2.54773	0.00635	0.017515	yes
Cdca8	2.47499	3.91816	5.00E-05	0.00022	yes
C330024D21Rik	2.47325	0	1	1	no
Sdr9c7	2.47114	0	1	1	no
Trim71	2.47097	0	1	1	no
Cdc25c	2.46849	0	1	1	no
Meg3	2.44047	6.24309	5.00E-05	0.00022	yes
Mcm10	2.43834	0	1	1	no
Cd200r4	2.4326	0	1	1	no
Plk1	2.42937	2.76744	0.00025	0.000985	yes
1600023N17Rik	2.42174	0	1	1	no
Cldn26	2.41576	0	1	1	no
Kif23	2.41374	4.50069	5.00E-05	0.00022	yes
B230216G23Rik	2.4123	2.33707	0.0021	0.006649	yes
Slc51a	2.40996	3.8725	5.00E-05	0.00022	yes
Ttll8	2.4093	0	1	1	no
Gm7244	2.40927	0	1	1	no
5830432E09Rik	2.40921	0	1	1	no
Arhgef39	2.40726	2.28044	0.0025	0.007739	yes
Crh	2.40672	0	1	1	no
4921511I17Rik	2.40065	0	1	1	no
Ncapg	2.40017	1.67739	0.006	0.016674	yes
Pde4c	2.40012	6.49692	5.00E-05	0.00022	yes
Gm7325	2.3996	1.57856	0.00295	0.008927	yes
4930467K11Rik	2.39564	0	1	1	no
Serpina1d	2.38294	0	1	1	no
Slc16a10	2.37889	4.0372	5.00E-05	0.00022	yes
Ticrr	2.3721	0	1	1	no
2610203C22Rik	2.36693	0	1	1	no
Cel	2.36476	0	1	1	no
Peg3os	2.36277	0	1	1	no
Ube2l6	2.35707	9.20453	5.00E-05	0.00022	yes
Slc30a2	2.35122	0	1	1	no
9230105E05Rik	2.3439	0	1	1	no
Gm10248	2.34052	0	1	1	no
Odf3b	2.32676	0	1	1	no
Slc1a7	2.32155	0	1	1	no
Adamts19	2.316	0	1	1	no
Kcna3	2.30761	2.63574	5.00E-05	0.00022	yes
Mettl21e	2.30428	0	1	1	no
Slc25a21	2.30295	0	1	1	no
Ccdc83	2.29833	0	1	1	no

Wfdc2	2.29108	5.59497	5.00E-05	0.00022	yes
Gm6402	2.28313	0.888285	0.11775	0.205173	no
Kcnq1ot1	2.28275	0	1	1	no
AI854517	2.28265	0	1	1	no
BC048644	2.28193	0	1	1	no
H2-T24	2.27753	1.82451	0.0051	0.014464	yes
Prss38	2.27139	0	1	1	no
E2f2	2.26953	5.64347	5.00E-05	0.00022	yes
Stil	2.26633	0	1	1	no
6430411K18Rik	2.26303	1.85535	0.0037	0.010879	yes
4930431F12Rik	2.26268	0	1	1	no
Cdh9	2.26207	6.23943	5.00E-05	0.00022	yes
Cdcp1	2.26182	0	1	1	no
Bhlha9	2.25835	6.32683	5.00E-05	0.00022	yes
Pnliprp2	2.25629	0	1	1	no
Cd160	2.25614	0	1	1	no
9430060I03Rik	2.2429	0	1	1	no
Rdh7	2.24017	0	1	1	no
Cd247	2.2345	0	1	1	no
Ckap2l	2.23339	2.99668	5.00E-05	0.00022	yes
Gpat2	2.23154	0	1	1	no
2410076I21Rik	2.23069	0.444321	0.35435	0.48626	no
Gm15915	2.22842	0	1	1	no
Kifc1	2.22507	2.84693	5.00E-05	0.00022	yes
Smim6	2.21814	0	1	1	no
Th	2.21577	10.6178	5.00E-05	0.00022	yes
Zfp457	2.21381	0	1	1	no
Igll1	2.21029	0	1	1	no
Gm11240	2.20997	0	1	1	no
Gimap3	2.20777	0	1	1	no
Depdc1b	2.20776	2.42409	0.00055	0.002016	yes
Dmc1	2.20626	0	1	1	no
Ctcflos	2.19744	0	1	1	no
Dyrk4	2.19633	2.35156	0.001	0.003451	yes
Rps12	2.19625	0	1	1	no
Ccl1	2.19283	2.33137	0.02425	0.05547	no
Slc6a9	2.18688	4.33533	5.00E-05	0.00022	yes
Mfi2	2.18017	0	1	1	no
Fam92b	2.17745	0	1	1	no
Apol7e	2.17614	0	1	1	no
Smco1	2.16638	0	1	1	no
Eppin	2.16366	2.3725	0.00595	0.016553	yes
Acmsd	2.14663	0	1	1	no
Mrgpra3	2.14438	8.33276	5.00E-05	0.00022	yes
Mis18bp1	2.13851	0	1	1	no
Cdca5	2.13707	0	1	1	no
Ceacam10	2.13696	5.47505	5.00E-05	0.00022	yes
Trim40	2.13408	0	1	1	no
Gm20199	2.12695	0	1	1	no
Slc38a5	2.12468	2.89928	5.00E-05	0.00022	yes
Birc5	2.12198	2.96868	5.00E-05	0.00022	yes
Amy1	2.11924	4.68074	5.00E-05	0.00022	yes
Orc1	2.11799	0	1	1	no

Gdf15	2.1179	0	1	1	no
Lrrc10b	2.11619	3.15595	5.00E-05	0.00022	yes
A730046J19Rik	2.11574	0	1	1	no
Tnfrsf4	2.11503	0	1	1	no
Gm6994	2.1056	0	1	1	no
Prr22	2.10261	1.91887	0.00825	0.02204	yes
Dmrt1	2.10245	0	1	1	no
Gm7444	2.09968	0	1	1	no
A930011O12Rik	2.09856	6.53931	5.00E-05	0.00022	yes
Dbx2	2.09417	0	1	1	no
Cacna1i	2.09244	7.52557	5.00E-05	0.00022	yes
4933408J17Rik	2.09193	0	1	1	no
Pnpla5	2.09163	0	1	1	no
Nxn1	2.08983	0	1	1	no
Gm15328	2.08784	0	1	1	no
Agrp	2.08531	1.27132	0.01405	0.034848	yes
Nup210l	2.08439	0	1	1	no
H1foo	2.08288	0	1	1	no
Klhl31	2.07909	0	1	1	no
Klra18,Klra33,Klra4	2.07851	0	1	1	no
Mbnl3	2.06602	0	1	1	no
Hrg	2.062	0	1	1	no
Bub1	2.05981	2.29364	0.0001	0.000422	yes
Gm15816	2.05963	0	1	1	no
Wfdc10	2.05747	0	1	1	no
Kcna7	2.05555	0	1	1	no
4930581F22Rik	2.05503	0	1	1	no
Slc17a8	2.04982	7.14966	5.00E-05	0.00022	yes
Gm20139	2.04635	3.35537	5.00E-05	0.00022	yes
Gm9767	2.0448	0.663504	0.216	0.333722	no
Epha8	2.04269	2.56984	5.00E-05	0.00022	yes
Gm16853	2.03813	0	1	1	no
Bcl2l15	2.03405	0	1	1	no
Cdca3	2.02266	2.81688	5.00E-05	0.00022	yes
Oas1e	2.01766	0	1	1	no
Mlph	2.01708	0	1	1	no
Tm6sf2	2.01584	0	1	1	no
Col7a1	2.00907	0	1	1	no
Tekt2	2.00677	0	1	1	no
Ly6i	2.00579	0	1	1	no
Unc13d	1.99917	3.68676	5.00E-05	0.00022	yes
Myf5	1.99026	0	1	1	no
Nxpe2	1.98815	5.89911	5.00E-05	0.00022	yes
Sbk3	1.98241	2.53543	0.0001	0.000422	yes
Kif2c	1.98239	0	1	1	no
A930016O22Rik	1.98185	0	1	1	no
Msmg	1.97931	0	1	1	no
Stac3	1.97906	0	1	1	no
St14	1.97796	0	1	1	no
Tmprss11c	1.97715	3.85218	5.00E-05	0.00022	yes
Ppef2	1.97569	0	1	1	no
Pet117	1.97549	0.587684	0.24785	0.370129	no
Cct8l1	1.97292	0	1	1	no

Ndc80	1.95681	0	1	1	no
Ildr1	1.95322	0	1	1	no
A930013F10Rik	1.94972	1.14596	0.04985	0.10192	no
BC107364	1.94886	0	1	1	no
Fbxl13	1.94572	0	1	1	no
Il4i1	1.94402	0	1	1	no
Serpina1b	1.94043	0	1	1	no
E530001F21Rik	1.93794	1.86918	0.0113	0.028847	yes
5730508B09Rik	1.93782	6.36404	5.00E-05	0.00022	yes
Btg3	1.93764	0	1	1	no
Spag5	1.93193	2.97865	5.00E-05	0.00022	yes
Gm20751	1.93127	0	1	1	no
Baiap2l2	1.92703	0	1	1	no
Tnfsf14	1.92534	0	1	1	no
Clca3	1.92161	0	1	1	no
Wnt11	1.92002	2.60769	5.00E-05	0.00022	yes
9530052E02Rik	1.91927	0	1	1	no
Muc2	1.9157	0	1	1	no
Aknad1	1.91297	0	1	1	no
Opn1sw	1.91282	0	1	1	no
Dgkk	1.91064	5.6649	5.00E-05	0.00022	yes
E030024N20Rik	1.90612	0	1	1	no
Fut1	1.90453	0	1	1	no
Zfp57	1.90187	2.50381	5.00E-05	0.00022	yes
Gm1123	1.89777	0	1	1	no
Gm7271	1.88867	9.5164	5.00E-05	0.00022	yes
E330033B04Rik	1.887	0	1	1	no
Gm10677	1.8848	0	1	1	no
Gm4787	1.88235	0	1	1	no
C1s2	1.87368	0	1	1	no
Itih4	1.87354	0	1	1	no
Ska1	1.87169	0	1	1	no
Nmur1	1.87005	2.63428	0.00035	0.001342	yes
Grxcr1	1.86485	0	1	1	no
Klrk1	1.85443	0	1	1	no
Prss45	1.85344	0	1	1	no
Olfir239	1.8515	0	1	1	no
Prc1	1.84846	3.3513	5.00E-05	0.00022	yes
Nek2	1.84832	0	1	1	no
Sh2d4b	1.84571	2.93573	0.0001	0.000422	yes
Mirg	1.84563	3.86618	5.00E-05	0.00022	yes
Nkx6-3	1.84365	0	1	1	no
Plcz1	1.84352	0	1	1	no
Myoz3	1.84257	0	1	1	no
Gm6559	1.84159	0	1	1	no
Duxbl1,Duxbl2	1.84036	0	1	1	no
Sis	1.8362	0	1	1	no
BC018473	1.83344	0	1	1	no
Klra13-ps	1.83229	0	1	1	no
Ryr1	1.82939	0	1	1	no
Ect2	1.82838	2.69626	5.00E-05	0.00022	yes
Fbp2	1.8227	3.26921	5.00E-05	0.00022	yes
Lgals3	1.82115	3.91272	5.00E-05	0.00022	yes

Tdg	1.8182	1.01989	0.0685	0.132709	no
Cenph	1.81361	1.76678	0.00965	0.025197	yes
Tulp2	1.81348	0	1	1	no
Tespa1	1.8124	0	1	1	no
4930578M01Rik	1.81219	0	1	1	no
Itk	1.81218	0.625393	0.22265	0.34157	no
4930488L21Rik	1.81093	0	1	1	no
Gm20324	1.80717	0	1	1	no
Cenpu	1.80698	0	1	1	no
Misp	1.80591	0.19264	0.6943	0.790803	no
Kif11	1.80167	3.36232	5.00E-05	0.00022	yes
Dppa5a	1.8004	0	1	1	no
Klk11	1.79962	0	1	1	no
Ccdc68	1.79839	6.78787	5.00E-05	0.00022	yes
Rtdr1	1.79543	0	1	1	no
Dhrs11	1.79349	4.08052	5.00E-05	0.00022	yes
Galr3	1.79247	0	1	1	no
Doc2g	1.79086	1.78611	0.00865	0.022947	yes
Tgm5	1.79007	2.19702	0.0005	0.00185	yes
Tecrl	1.78949	0	1	1	no
1810010D01Rik	1.78754	0	1	1	no
5033406O09Rik	1.78713	0	1	1	no
Bmp15	1.78544	4.30622	5.00E-05	0.00022	yes
Hrh1	1.78362	3.44795	5.00E-05	0.00022	yes
D730005E14Rik	1.78315	0	1	1	no
Serpinf2	1.78255	0	1	1	no
Fcamr	1.78198	0	1	1	no
Epb4.1	1.78191	6.87719	5.00E-05	0.00022	yes
Snx22	1.77892	0.84157	0.1103	0.194388	no
Samd11	1.77777	1.77345	0.0033	0.009856	yes
Gm5088	1.77598	0	1	1	no
Kcne3	1.77144	0.930645	0.0097	0.025313	yes
Cd3g	1.77037	0	1	1	no
Orm3	1.77028	0	1	1	no
Card11	1.76927	5.12756	5.00E-05	0.00022	yes
Cib3	1.76851	0	1	1	no
Gpr151	1.76814	2.57903	5.00E-05	0.00022	yes
Pkd2l1	1.76784	0	1	1	no
4930407I10Rik	1.76761	0	1	1	no
Prrt4	1.76623	3.29795	5.00E-05	0.00022	yes
4930550L24Rik	1.76622	0	1	1	no
Hus1b	1.76451	0	1	1	no
Espl1	1.76395	0	1	1	no
Fscn2	1.7632	0	1	1	no
Gm4349	1.7628	0	1	1	no
Asf1b	1.76103	2.34616	0.0007	0.002506	yes
Slc39a5	1.76092	0	1	1	no
Hoxd3	1.75956	3.084	5.00E-05	0.00022	yes
A330032B11Rik	1.75945	0	1	1	no
1600029O15Rik	1.75591	0.918418	0.0885	0.162374	no
Serpib2	1.75352	0	1	1	no
Gm4532	1.75177	1.44617	0.0602	0.119081	no
Trim72	1.75174	0	1	1	no

P2rx2	1.74848	3.27805	5.00E-05	0.00022	yes
1700024F13Rik	1.74626	0	1	1	no
Tacr1	1.74573	0	1	1	no
Cox7b2	1.74572	0	1	1	no
Hmbs	1.74523	4.52393	5.00E-05	0.00022	yes
Fxyd2	1.74475	7.8005	5.00E-05	0.00022	yes
Slc10a2	1.74475	0	1	1	no
Chrna4	1.73754	4.10636	5.00E-05	0.00022	yes
Krt27	1.73445	2.99356	5.00E-05	0.00022	yes
Gm2518	1.7338	0	1	1	no
Soat2	1.73185	2.09552	0.0017	0.005514	yes
Nts	1.72789	4.56246	5.00E-05	0.00022	yes
Rasa13	1.72747	0	1	1	no
Spata19	1.72659	0	1	1	no
Wfdc17	1.7243	1.73597	0.08435	0.15647	no
Dna2	1.72064	0	1	1	no
Cd3e	1.71862	0	1	1	no
Cdc20	1.7185	1.11562	0.04605	0.095535	no
4831440E17Rik	1.71564	2.25257	0.00055	0.002016	yes
Wnt16	1.71376	2.42488	0.0003	0.001164	yes
Hsd17b1	1.70878	0	1	1	no
Gsg2	1.70836	0	1	1	no
Tnnc1	1.70821	1.51641	0.05855	0.116582	no
Tmem102	1.70779	0	1	1	no
Ttll6	1.70658	2.28811	0.00045	0.001682	yes
Miat	1.70653	7.65706	5.00E-05	0.00022	yes
Cd6	1.70511	0	1	1	no
Rhox5	1.70478	0	1	1	no
Neurog3	1.70305	1.96961	0.00365	0.010754	yes
Mrgprb5	1.70222	4.5454	5.00E-05	0.00022	yes
5830473C10Rik	1.69828	2.43312	0.00025	0.000985	yes
Hist1h2bk	1.69617	0	1	1	no
Fancd2	1.6958	2.44301	0.00015	0.000615	yes
Wdfy1	1.69509	5.32296	5.00E-05	0.00022	yes
Gpx2-ps1	1.69466	0	1	1	no
Mei1	1.69397	0	1	1	no
Mtap7d3	1.69249	0	1	1	no
Glp2r	1.69017	0	1	1	no
Tex21	1.6868	0	1	1	no
AW551984	1.68572	4.04576	5.00E-05	0.00022	yes
Rpl36a	1.68429	0	1	1	no
Cd36	1.68236	3.29179	5.00E-05	0.00022	yes
AU015836	1.67913	0	1	1	no
Spc25	1.67912	1.58425	0.0032	0.009592	yes
2310002F09Rik	1.67863	2.0793	0.00085	0.002983	yes
Fshr	1.67658	0	1	1	no
Gabbr3	1.67629	0	1	1	no
Kif20a	1.67582	1.17086	0.03555	0.076528	no
Cdca2	1.67463	0	1	1	no
Mrgprx1	1.67324	6.32514	5.00E-05	0.00022	yes
Tnfsf11	1.67198	0	1	1	no
Gm20611	1.67189	0	1	1	no
Crip3	1.67009	0	1	1	no

Il31ra	1.66922	6.07722	5.00E-05	0.00022	yes
Sowahd	1.66915	0	1	1	no
Fam19a4	1.66846	7.635	5.00E-05	0.00022	yes
Ucp1	1.66729	0	1	1	no
Ptpn7	1.66571	0	1	1	no
Nrp	1.66566	0	1	1	no
Ambn	1.66512	0	1	1	no
Slamf1	1.6646	0	1	1	no
Slc2a4rg-ps	1.66452	2.05232	0.0006	0.002181	yes
Ptk6	1.6634	0	1	1	no
Ftx	1.66104	3.49842	5.00E-05	0.00022	yes
Slc44a4	1.66027	0	1	1	no
Tspan32	1.65812	0	1	1	no
Dapk2	1.65721	5.44889	5.00E-05	0.00022	yes
Gch1	1.65672	3.34445	5.00E-05	0.00022	yes
Erich2	1.65597	0	1	1	no
Dlx1	1.6544	0	1	1	no
4932438H23Rik	1.65394	0	1	1	no
Ppm1n	1.65371	1.6766	0.01015	0.026321	yes
Gabrd	1.65267	0	1	1	no
9530059O14Rik	1.64955	0	1	1	no
Plekhg4	1.64307	0	1	1	no
Rad54l	1.64216	0	1	1	no
Klk9	1.64114	0	1	1	no
2010003K11Rik	1.63989	0	1	1	no
Kcnj6	1.63984	2.2812	5.00E-05	0.00022	yes
Mcoln2	1.63811	0	1	1	no
C230029M16	1.63767	0	1	1	no
Rag1	1.63671	0	1	1	no
Rdh18-ps	1.63625	0	1	1	no
Gm7102	1.63592	0	1	1	no
Snurf	1.63561	0.962874	0.1289	0.22146	no
H2-Q7,H2-Q9	1.63312	1.60537	0.00215	0.006796	yes
Gm19619	1.63258	0	1	1	no
2810008D09Rik	1.62841	2.82217	5.00E-05	0.00022	yes
Ctrl	1.62777	0	1	1	no
Insm1	1.62554	4.80637	5.00E-05	0.00022	yes
Ccdc18	1.62316	0	1	1	no
Ncaph	1.62141	2.12867	0.00065	0.002343	yes
Scin	1.62044	4.85064	5.00E-05	0.00022	yes
Cdk3-ps	1.6202	0	1	1	no
Ccdc147	1.61958	0	1	1	no
Grin2c	1.61773	0	1	1	no
Klf5	1.61698	6.49484	5.00E-05	0.00022	yes
Fgg	1.61608	2.0771	0.00205	0.006503	yes
Foxl2os	1.61563	0	1	1	no
Nlrp12	1.61349	0	1	1	no
BC089491	1.6112	0	1	1	no
Kcnk7	1.6105	0	1	1	no
Lrrc36	1.60908	0	1	1	no
Gm3696	1.60862	0	1	1	no
Mxd3	1.60656	0.426827	0.4239	0.55539	no
Slc5a11	1.60561	2.26281	0.0007	0.002506	yes

5031426D15Rik	1.60401	0	1	1	no
Nppb	1.59883	3.7954	5.00E-05	0.00022	yes
Ddx26b	1.5978	5.25821	5.00E-05	0.00022	yes
Fgf23	1.59718	0	1	1	no
Ubl4b	1.59704	0	1	1	no
Adam8	1.59694	3.71511	5.00E-05	0.00022	yes
Nlrc3	1.59669	0	1	1	no
Ly86	1.5963	8.36651	5.00E-05	0.00022	yes
Gm16998	1.59428	0	1	1	no
Rnf112	1.59377	7.14877	5.00E-05	0.00022	yes
Plaur	1.58864	3.5892	5.00E-05	0.00022	yes
Mslnl	1.58679	0	1	1	no
Ovgp1	1.58565	1.8445	0.00195	0.006219	yes
0610040F04Rik	1.5853	0	1	1	no
Ulbp1	1.58432	0	1	1	no
Smyd1	1.58253	2.98595	5.00E-05	0.00022	yes
Foxe3	1.58216	0	1	1	no
Murc	1.58194	0	1	1	no
Tmem158	1.58007	7.91404	5.00E-05	0.00022	yes
Ada	1.57979	2.61562	5.00E-05	0.00022	yes
Wfdc5	1.57961	0	1	1	no
Sectm1b	1.57862	2.10617	0.0014	0.004657	yes
Gcnt1	1.57849	2.32566	0.0001	0.000422	yes
Rtp2	1.57748	0	1	1	no
Ldhal6b	1.5773	0	1	1	no
Sh2d2a	1.57653	0	1	1	no
Celf3	1.57407	4.52965	5.00E-05	0.00022	yes
1700023L04Rik	1.57371	0.776297	0.1091	0.192734	no
Smim5	1.57001	2.89378	5.00E-05	0.00022	yes
Dnase1l2	1.56938	1.48749	0.02355	0.054046	no
Spn	1.56919	1.48879	0.0035	0.01036	yes
Slc5a4a	1.56881	0	1	1	no
Gm10494	1.56869	0	1	1	no
Eid3	1.56814	0	1	1	no
2010016I18Rik	1.56753	0	1	1	no
1700011L22Rik	1.56537	2.27358	0.0015	0.004953	yes
Irs3	1.56466	2.61032	5.00E-05	0.00022	yes
A630023A22Rik	1.56353	0	1	1	no
AI504432	1.5631	3.3676	5.00E-05	0.00022	yes
Ppl	1.56147	2.57519	5.00E-05	0.00022	yes
Nuf2	1.5597	2.17306	0.0002	0.000803	yes
Gm14378	1.5573	0	1	1	no
Fam167a	1.55646	4.42213	5.00E-05	0.00022	yes
Nmu	1.5563	0	1	1	no
Bspry	1.55609	0	1	1	no
Phtf1os	1.55595	0	1	1	no
Gm5886	1.55069	0	1	1	no
H2-Q6,H2-Q8	1.55024	0	1	1	no
Nptxr	1.54638	3.41949	5.00E-05	0.00022	yes
AI661453	1.5451	0	1	1	no
1500017E21Rik	1.54498	0	1	1	no
Mrgpra9	1.54199	1.57174	0.02325	0.053468	no
Lmtk3	1.54087	3.50775	5.00E-05	0.00022	yes

Dnase1l3	1.53922	5.10834	5.00E-05	0.00022	yes
Cpn1	1.53861	3.39029	5.00E-05	0.00022	yes
Casp1	1.53836	3.73927	5.00E-05	0.00022	yes
Rgs8	1.53777	7.03573	5.00E-05	0.00022	yes
Tnfrsf13b	1.53727	0	1	1	no
Ckap2	1.53717	2.28746	5.00E-05	0.00022	yes
Ppp1r32	1.53708	0	1	1	no
F420014N23Rik	1.53463	0	1	1	no
Gas5	1.53439	4.51513	5.00E-05	0.00022	yes
Bub1b	1.53384	3.18641	5.00E-05	0.00022	yes
Ifrd2	1.53359	3.06816	5.00E-05	0.00022	yes
Gm5803	1.53215	0	1	1	no
Cabp5	1.53122	0	1	1	no
Dkk1	1.52937	2.05869	0.00505	0.014344	yes
Lck	1.52779	1.80258	0.001	0.003451	yes
Sell	1.52529	0	1	1	no
Gpr6	1.52503	0	1	1	no
Zdhhc23	1.52308	3.10395	5.00E-05	0.00022	yes
Npc1l1	1.52273	0	1	1	no
Fetub	1.52145	0	1	1	no
Als2cr11	1.52064	0	1	1	no
Ercc6l	1.52031	0	1	1	no
Clca4	1.51514	0	1	1	no
Knstrn	1.51192	0	1	1	no
Gm609	1.51167	0	1	1	no
9330111N05Rik	1.51007	0	1	1	no
Mns1	1.5084	1.87294	0.00335	0.009985	yes
Scn2b	1.5074	6.54708	5.00E-05	0.00022	yes
Serpina11	1.50676	2.21915	0.00015	0.000615	yes
Kcnh6	1.50654	6.19778	5.00E-05	0.00022	yes
Acad10	1.50618	3.10286	5.00E-05	0.00022	yes
Exph5	1.50521	0	1	1	no
Gp1ba	1.50503	0	1	1	no
Dfnb59	1.50397	0	1	1	no
Cpne5	1.50304	2.87417	5.00E-05	0.00022	yes
Papolb	1.50112	0	1	1	no
Slc17a9	1.50003	0	1	1	no
Igj	1.4996	0	1	1	no
Cd4	1.49851	0	1	1	no
Atp7b	1.49771	0	1	1	no
Kif22	1.49559	2.62551	5.00E-05	0.00022	yes
Slc10a3-ubl4,Ubl4	1.49459	0.564095	0.2832	0.409015	no
C130060C02Rik	1.4945	0	1	1	no
Pax8	1.49091	1.84226	0.0026	0.008011	yes
Patl2	1.48973	0	1	1	no
Cdc25b	1.48791	1.08536	0.0383	0.081444	no
Adat3	1.4872	1.09118	0.0642	0.125496	no
1700024P16Rik	1.48562	1.88751	0.00055	0.002016	yes
Cd244	1.48381	0	1	1	no
Stx3	1.48268	3.73147	5.00E-05	0.00022	yes
D7Ert715e	1.48037	5.7782	5.00E-05	0.00022	yes
Ankrd37	1.47928	0.932649	0.0699	0.13485	no
Efcab3	1.47794	0	1	1	no

Lin28b	1.47785	2.63507	5.00E-05	0.00022	yes
Tmem221	1.47664	1.60172	0.01025	0.026534	yes
Figl1	1.47633	1.93816	0.0007	0.002506	yes
Myo1a	1.47612	6.12162	5.00E-05	0.00022	yes
Cyp4f39	1.47331	5.18886	5.00E-05	0.00022	yes
Nxpe5	1.4728	1.82884	0.0031	0.009315	yes
1700034F02Rik	1.47007	0	1	1	no
Rarres1	1.46949	6.94437	5.00E-05	0.00022	yes
Tpx2	1.46931	2.7489	5.00E-05	0.00022	yes
Mroh6	1.46923	0	1	1	no
Tbx21	1.46823	0	1	1	no
Ccdc150	1.46754	0	1	1	no
Ppp1r1a	1.46649	6.27298	5.00E-05	0.00022	yes
Paqr5	1.46561	6.28357	5.00E-05	0.00022	yes
4933406C10Rik	1.46443	0	1	1	no
Zfp831	1.46372	0	1	1	no
Fbxo5	1.45379	2.15891	0.00075	0.00267	yes
Btk	1.45152	0	1	1	no
Cysltr2	1.45139	3.58757	5.00E-05	0.00022	yes
Rhcg	1.4488	0	1	1	no
9330175M20Rik	1.44661	0	1	1	no
Pask	1.44615	2.30816	0.00015	0.000615	yes
Gm19424	1.4461	0	1	1	no
Lpar5	1.44257	3.91424	5.00E-05	0.00022	yes
Osmr	1.44233	6.18155	5.00E-05	0.00022	yes
Gzmm	1.4415	0	1	1	no
Rasgrp1	1.43954	6.81041	5.00E-05	0.00022	yes
Rnf223	1.43937	0	1	1	no
Dynlt1a	1.43799	1.01069	0.05605	0.112346	no
Tmem86b	1.43746	2.14417	0.0014	0.004657	yes
Nxph3	1.43653	4.47315	5.00E-05	0.00022	yes
Tmc8	1.43632	1.56642	0.00285	0.008668	yes
Gm10560	1.43424	1.94278	0.00865	0.022947	yes
Il18rap	1.43291	0	1	1	no
Kcnk12	1.431	4.79764	5.00E-05	0.00022	yes
Hrh2	1.43088	1.65284	0.0029	0.008796	yes
Zfpm1	1.42969	3.67944	5.00E-05	0.00022	yes
Setd4	1.42922	1.84816	0.00225	0.007062	yes
Lrrn4	1.42859	2.73701	5.00E-05	0.00022	yes
Fam124b	1.42729	0	1	1	no
Serpina1e	1.42416	2.156	0.0014	0.004657	yes
Celf6	1.42326	6.46748	5.00E-05	0.00022	yes
Tbc1d2	1.42169	2.1431	0.00025	0.000985	yes
Adam1a	1.4195	2.99295	5.00E-05	0.00022	yes
Sh2d1a	1.41878	0	1	1	no
Avpr1a	1.41322	1.77421	0.0029	0.008796	yes
Oas1a	1.40689	1.79444	0.0034	0.010109	yes
1700019N19Rik	1.40619	0	1	1	no
Fam117a	1.40398	3.45433	5.00E-05	0.00022	yes
Capn9	1.40375	3.48541	5.00E-05	0.00022	yes
Rspo4	1.40198	3.08559	5.00E-05	0.00022	yes
2810442I21Rik	1.40154	0	1	1	no
T2	1.40057	1.49696	0.016	0.038963	yes

Gm9920	1.39974	0	1	1	no
Ptafr	1.39929	1.93458	0.0027	0.008273	yes
Slc9b2	1.39831	1.96483	0.0014	0.004657	yes
Proc	1.39826	0	1	1	no
4933405D12Rik	1.39698	0	1	1	no
Hist1h1d	1.39667	1.37123	0.0596	0.118193	no
Gm8909	1.39521	0	1	1	no
Gm4759	1.39234	0	1	1	no
Pthr1	1.392	3.63793	5.00E-05	0.00022	yes
Saa2	1.39095	0	1	1	no
Atp4a	1.38748	0	1	1	no
2510049J12Rik	1.38729	0	1	1	no
Gm13498	1.3871	3.26755	5.00E-05	0.00022	yes
Smpd5	1.38619	1.11848	0.0614	0.121021	no
A430093F15Rik	1.38598	0	1	1	no
Obscn	1.38389	0	1	1	no
1700003M02Rik	1.38382	3.39741	5.00E-05	0.00022	yes
Arhgap33	1.38376	4.12046	5.00E-05	0.00022	yes
1700020D05Rik	1.38275	0	1	1	no
Kifc5b	1.38029	1.77743	0.0028	0.008532	yes
Ctnx3	1.37828	6.91706	5.00E-05	0.00022	yes
Ppp1r2-ps3	1.37725	2.6057	0.00065	0.002343	yes
AB041803	1.37668	0	1	1	no
E030030I06Rik	1.37479	0	1	1	no
Gfra2	1.37395	6.65803	5.00E-05	0.00022	yes
A3galt2	1.37301	6.23347	5.00E-05	0.00022	yes
Aspg	1.37183	0	1	1	no
Fsip1	1.37072	0	1	1	no
Zfp296	1.36963	1.50527	0.0168	0.040613	yes
Hist2h4	1.3688	0	1	1	no
Gpr35	1.36645	5.39971	5.00E-05	0.00022	yes
Rgs10	1.36611	8.01432	5.00E-05	0.00022	yes
Fut2	1.36575	0	1	1	no
Olf570	1.36469	0	1	1	no
Spc24	1.36466	1.57769	0.01295	0.032429	yes
Lxn	1.36446	5.47027	5.00E-05	0.00022	yes
Qrfpr	1.36441	0	1	1	no
Mak	1.3639	0	1	1	no
Acpp	1.36139	5.54803	5.00E-05	0.00022	yes
1700003F12Rik	1.35958	0	1	1	no
Atp13a4	1.35543	0	1	1	no
Barhl2	1.35384	0	1	1	no
Card14	1.34903	1.92769	0.00025	0.000985	yes
Ttc22	1.34849	1.73558	0.0038	0.011141	yes
Cmtm8	1.3483	2.49449	0.0002	0.000803	yes
Ms4a3	1.34558	3.3274	5.00E-05	0.00022	yes
Wfdc3	1.34548	0	1	1	no
Tmem150b	1.34525	0.407501	0.4536	0.583527	no
9530091C08Rik	1.34404	0	1	1	no
Cd5	1.34296	0	1	1	no
Arx	1.34052	0	1	1	no
Gm11549	1.34048	3.71912	5.00E-05	0.00022	yes
Ldb2	1.33967	6.14685	5.00E-05	0.00022	yes

Otog	1.33958	0	1	1	no
AA465934	1.3394	0	1	1	no
Uba1y	1.33922	0	1	1	no
Pnpla3	1.33699	4.40569	5.00E-05	0.00022	yes
Nrn1l	1.33695	4.92163	5.00E-05	0.00022	yes
1700034P13Rik	1.33637	0	1	1	no
Esyt3	1.33299	2.93836	5.00E-05	0.00022	yes
Bag2	1.33265	4.98476	5.00E-05	0.00022	yes
Nt5e	1.33251	5.99445	5.00E-05	0.00022	yes
Ptger2	1.33159	1.91539	0.00105	0.003607	yes
Melk	1.33018	0	1	1	no
P2ry1	1.32987	5.78179	5.00E-05	0.00022	yes
Ms4a2	1.32954	0	1	1	no
Gm1661	1.32937	0	1	1	no
Fndc9	1.32818	0	1	1	no
Irx5	1.32724	0	1	1	no
Tslp	1.3272	0	1	1	no
Wdr27	1.32599	0	1	1	no
Btnl1	1.32533	0	1	1	no
Trim14	1.3253	3.78512	5.00E-05	0.00022	yes
Tmprss3	1.32463	0	1	1	no
Mrgpra1	1.32434	1.35385	0.03455	0.074739	no
Bbc3	1.32323	3.04518	5.00E-05	0.00022	yes
Hist1h2bn	1.32156	0	1	1	no
Insm2	1.32122	4.70674	5.00E-05	0.00022	yes
Isg15	1.32118	3.48697	5.00E-05	0.00022	yes
Pkp3	1.32087	1.98347	0.0005	0.00185	yes
Gdf2	1.31977	0	1	1	no
Rad54b	1.31821	0	1	1	no
Troap	1.31681	0	1	1	no
Kntc1	1.31607	3.14729	5.00E-05	0.00022	yes
Lor	1.31575	0	1	1	no
Nnat	1.31501	2.65341	5.00E-05	0.00022	yes
Mss51	1.31477	0	1	1	no
Dffb	1.31297	1.93585	0.00185	0.005939	yes
Rsrp1	1.31191	6.74329	5.00E-05	0.00022	yes
Nptx2	1.31141	6.4733	5.00E-05	0.00022	yes
Rasa4	1.309	4.40186	5.00E-05	0.00022	yes
Gnb3	1.30886	2.02342	0.00135	0.004516	yes
Eaf2	1.30865	0	1	1	no
Cntd1	1.30786	0	1	1	no
Irx6	1.30771	0	1	1	no
E230016M11Rik	1.30742	0.716622	0.1723	0.279211	no
Efcab7	1.30611	1.91371	0.00165	0.00538	yes
Pla2g2d	1.30547	0	1	1	no
Slc6a4	1.30531	0	1	1	no
Adam5	1.30484	1.71846	0.00125	0.00422	yes
Fanci	1.30319	0	1	1	no
Cckar	1.30113	4.92882	5.00E-05	0.00022	yes
Dnd1	1.30049	0	1	1	no
Runx1	1.29969	5.9872	5.00E-05	0.00022	yes
Hist1h2ac	1.29963	0	1	1	no
Oscar	1.29954	0	1	1	no

Car8	1.29921	4.84239	5.00E-05	0.00022	yes
Apoa2	1.29899	1.31392	0.13545	0.230564	no
Lmod3	1.29843	0	1	1	no
Figf	1.29794	1.91923	0.0017	0.005514	yes
Pate2	1.2961	0	1	1	no
Dok1	1.29518	3.55616	5.00E-05	0.00022	yes
Cenpk	1.29493	0.956704	0.0641	0.125374	no
Dusp26	1.29482	6.73999	5.00E-05	0.00022	yes
Mms22l	1.29449	0	1	1	no
6720483E21Rik	1.2926	0	1	1	no
Rnpc3	1.29056	3.68314	5.00E-05	0.00022	yes
Gm9962	1.29052	0	1	1	no
9530053A07Rik	1.28887	2.16345	0.0002	0.000803	yes
Adam4	1.28729	0	1	1	no
Lrrc39	1.28604	0	1	1	no
Mcm7	1.2859	2.101	0.0001	0.000422	yes
Ccnb3	1.2827	0	1	1	no
Syt5	1.27989	6.08952	5.00E-05	0.00022	yes
Col20a1	1.27986	0	1	1	no
4933432I09Rik	1.27925	0	1	1	no
Fendrr	1.27797	0	1	1	no
Msantd2	1.27689	2.77497	5.00E-05	0.00022	yes
Mal2	1.2759	6.29581	5.00E-05	0.00022	yes
Oas1b	1.27535	1.55308	0.00375	0.011009	yes
AI450353	1.27401	0	1	1	no
Sox11	1.27376	4.34885	5.00E-05	0.00022	yes
A230056P14Rik	1.27341	0.823859	0.1683	0.274102	no
Carhsp1	1.27295	6.21795	5.00E-05	0.00022	yes
Gadl1	1.27276	3.23919	5.00E-05	0.00022	yes
Recql4	1.27269	1.32798	0.0155	0.037857	yes
Lrrc69	1.27161	0	1	1	no
Ankrd2	1.27107	0	1	1	no
Nol4	1.27101	2.79426	5.00E-05	0.00022	yes
Dok2	1.26946	0	1	1	no
Marveld2	1.26882	1.88524	0.0004	0.001513	yes
Ptcra	1.26842	0	1	1	no
Galnt3	1.26836	2.94584	5.00E-05	0.00022	yes
Reg4	1.26828	0	1	1	no
Pou4f2	1.26754	4.72936	5.00E-05	0.00022	yes
4930447C04Rik	1.26735	1.98054	0.0013	0.004375	yes
Sst	1.26711	4.32384	5.00E-05	0.00022	yes
Il1b	1.26697	1.23538	0.2346	0.355261	no
Pomc	1.26682	1.04873	0.0182	0.043483	yes
Stxbp2	1.26573	2.56893	5.00E-05	0.00022	yes
Hist3h2bb-ps	1.26482	0	1	1	no
Grm2	1.26408	0	1	1	no
AI839979	1.26404	0	1	1	no
Fndc3c1	1.26144	0	1	1	no
Gm6225	1.26143	0	1	1	no
Smc2	1.26084	3.35523	5.00E-05	0.00022	yes
Pdlim1	1.26014	3.72369	5.00E-05	0.00022	yes
Mir17hg	1.25998	0	1	1	no
Nbl1	1.25974	6.55826	5.00E-05	0.00022	yes

Ngfrap1	1.25947	5.67323	5.00E-05	0.00022	yes
Ass1	1.25851	3.03737	5.00E-05	0.00022	yes
Gpx2	1.25838	2.24429	0.00085	0.002983	yes
9230116N13Rik	1.25667	0	1	1	no
Tmem207	1.25612	0	1	1	no
Gm14391	1.25597	0	1	1	no
Wnt9b	1.25383	0	1	1	no
Zbtb32	1.25225	0	1	1	no
Prr11	1.25056	0.145031	0.7465	0.832001	no
Dgkz	1.25039	5.24533	5.00E-05	0.00022	yes
Kcng2	1.25039	3.90227	5.00E-05	0.00022	yes
Firre	1.25027	4.60944	5.00E-05	0.00022	yes
Grik1	1.25005	5.65729	5.00E-05	0.00022	yes
Kcnp2	1.24997	5.63544	5.00E-05	0.00022	yes
Bnc1	1.24903	0	1	1	no
Rps17	1.24891	3.26418	0.0004	0.001513	yes
Ccr3	1.24854	0	1	1	no
Zfp40	1.24829	4.54733	5.00E-05	0.00022	yes
Gm16702	1.24742	2.9151	5.00E-05	0.00022	yes
Bhlhe23	1.24705	0	1	1	no
Pax2	1.24671	1.55413	0.0039	0.011392	yes
Artn	1.24644	0	1	1	no
Rpl37	1.2461	1.11388	0.03575	0.076921	no
AW112010	1.24469	1.78361	0.01305	0.032667	yes
Hoxd4	1.24465	1.84141	0.00065	0.002343	yes
Anks6	1.24331	3.01572	5.00E-05	0.00022	yes
0610040B10Rik	1.24208	1.63119	0.091	0.166134	no
Phf11a	1.24159	0	1	1	no
Arid3a	1.24122	0.277247	0.60365	0.71639	no
Arglu1	1.23973	4.57255	5.00E-05	0.00022	yes
Baat	1.23764	0	1	1	no
Rnf138rt1	1.23715	0	1	1	no
Chek1	1.23574	1.70089	0.0033	0.009856	yes
Rad51ap1	1.23514	1.51104	0.0113	0.028847	yes
Zbtb48	1.23477	2.7542	5.00E-05	0.00022	yes
Ptprcap	1.23432	0	1	1	no
Atf5	1.22919	4.33765	5.00E-05	0.00022	yes
Synpr	1.22904	5.47864	5.00E-05	0.00022	yes
Gpr162	1.22902	4.79319	5.00E-05	0.00022	yes
Rps26	1.22897	4.71217	5.00E-05	0.00022	yes
4930511M06Rik	1.22889	0	1	1	no
Il12rb2	1.2288	0	1	1	no
Celf5	1.22863	2.9485	5.00E-05	0.00022	yes
1810020O05Rik	1.22855	1.30036	0.04635	0.096007	no
Leng8	1.22708	5.17187	5.00E-05	0.00022	yes
Mst1r	1.22653	2.64108	5.00E-05	0.00022	yes
Prkcd	1.22549	5.94148	5.00E-05	0.00022	yes
Isl2	1.2247	6.35089	5.00E-05	0.00022	yes
Cct6b	1.22469	1.31724	0.0111	0.028407	yes
Tk1	1.22285	1.2814	0.0374	0.079824	no
Tmsb15b2	1.22277	1.67247	0.02525	0.057371	no
Tmem45b	1.22178	6.49273	5.00E-05	0.00022	yes
Slc10a6	1.22035	3.26742	5.00E-05	0.00022	yes

Syt7	1.21843	5.52147	5.00E-05	0.00022	yes
Sectm1a	1.21804	0	1	1	no
Atp6v1c2	1.21703	0.531145	0.3005	0.428681	no
Socs2	1.2166	4.6567	5.00E-05	0.00022	yes
Plxnc1	1.21607	5.44712	5.00E-05	0.00022	yes
Dgki	1.21545	5.82112	5.00E-05	0.00022	yes
Arntl2	1.21255	1.96933	0.0003	0.001164	yes
Gm527	1.21116	3.39283	5.00E-05	0.00022	yes
Mnd1-ps	1.20993	0	1	1	no
Fam122b	1.20912	4.13631	5.00E-05	0.00022	yes
Hspa1b	1.20776	4.32738	5.00E-05	0.00022	yes
Mroh2b	1.20682	1.81797	0.00155	0.005095	yes
Ypel1	1.20671	2.04552	0.00025	0.000985	yes
Adamts9	1.20593	3.71065	5.00E-05	0.00022	yes
Slc45a3	1.20561	4.61804	5.00E-05	0.00022	yes
Ssh3	1.20514	3.42853	5.00E-05	0.00022	yes
Gpr179	1.20461	2.97073	5.00E-05	0.00022	yes
Asb17	1.20416	0	1	1	no
AI182371	1.20388	0	1	1	no
Ccnf	1.20324	1.63319	0.0024	0.00748	yes
Snora28	1.20297	0.116392	0.626	0.734383	no
Parvg	1.20039	0	1	1	no
Vsig2	1.19976	0	1	1	no
Ptgdr	1.1985	5.37516	5.00E-05	0.00022	yes
Snhg7	1.19836	1.56184	0.00335	0.009985	yes
Pbld1	1.19824	0	1	1	no
Fam222a	1.19715	3.26896	5.00E-05	0.00022	yes
Gna14	1.19605	5.79254	5.00E-05	0.00022	yes
Ccdc106	1.1952	1.87193	0.0004	0.001513	yes
Cldn23	1.19439	0	1	1	no
Gm2694	1.19135	1.2879	0.08335	0.155005	no
Far2	1.19135	0.934192	0.0875	0.160963	no
Trpc3	1.19094	5.79394	5.00E-05	0.00022	yes
Rnf207	1.1905	0.538864	0.30345	0.432007	no
Serinc2	1.18999	4.31478	5.00E-05	0.00022	yes
Gpr160	1.1886	2.09064	0.00015	0.000615	yes
Gm9895	1.18798	0	1	1	no
2700038G22Rik	1.18604	0	1	1	no
Foxp3	1.1851	0	1	1	no
Slc37a1	1.18463	4.02141	5.00E-05	0.00022	yes
Rfx2	1.18428	0	1	1	no
Ttc29	1.18416	1.74507	0.00285	0.008668	yes
Samd14	1.18398	5.84225	5.00E-05	0.00022	yes
Slc6a5	1.18391	0	1	1	no
Kif20b	1.18352	0	1	1	no
C030034I22Rik	1.18323	1.50436	0.0086	0.022847	yes
Gm4262	1.18207	0	1	1	no
Grhl1	1.18116	0	1	1	no
Luc7l3	1.18101	5.17738	5.00E-05	0.00022	yes
Spata25	1.18039	0	1	1	no
Dbf4	1.18003	1.48986	0.0051	0.014464	yes
4930413F20Rik	1.17796	0	1	1	no
Fam179a	1.1771	2.37392	0.0001	0.000422	yes

Klk4	1.17674	0	1	1	no
Ccno	1.17617	0	1	1	no
N4bp2l1	1.17605	3.23228	5.00E-05	0.00022	yes
BC006965	1.17576	0	1	1	no
Apol7a	1.17554	0	1	1	no
Aoc1	1.17553	0	1	1	no
Nog	1.17507	2.76103	5.00E-05	0.00022	yes
Rpl9	1.17496	0	1	1	no
Snhg5	1.17454	2.71797	5.00E-05	0.00022	yes
D5Erttd605e	1.17415	0	1	1	no
Wbp5	1.17355	5.93609	5.00E-05	0.00022	yes
Txn1	1.17295	6.64906	5.00E-05	0.00022	yes
Cyp4b1	1.1725	1.78086	0.00315	0.009455	yes
Rpl28	1.17218	1.51137	0.0868	0.159985	no
Myom2	1.17147	0	1	1	no
Zfp521	1.17078	5.05481	5.00E-05	0.00022	yes
Slc38a8	1.17073	1.46907	0.0122	0.030789	yes
Kcnip4	1.1703	5.9389	5.00E-05	0.00022	yes
2700099C18Rik	1.16907	0	1	1	no
Tnfrsf9	1.16674	0	1	1	no
Stom	1.1666	4.77151	5.00E-05	0.00022	yes
Mzb1	1.16653	0	1	1	no
Slc16a12	1.1664	4.27421	5.00E-05	0.00022	yes
Tnr	1.1647	3.69847	5.00E-05	0.00022	yes
Rgs4	1.16453	4.19476	5.00E-05	0.00022	yes
Iqgap3	1.16391	2.90744	5.00E-05	0.00022	yes
Ccdc88c	1.16266	0	1	1	no
Cyp2j12	1.16249	3.13658	5.00E-05	0.00022	yes
Pkmyt1	1.16187	1.34429	0.02285	0.052694	no
Actl9	1.16022	0	1	1	no
Tlx3	1.15891	5.61156	5.00E-05	0.00022	yes
Atg16l2	1.15886	2.58866	5.00E-05	0.00022	yes
5830454E08Rik	1.15871	1.1747	0.0992	0.178331	no
Ccdc171	1.15685	2.25339	0.00015	0.000615	yes
Myt1	1.15683	5.124	5.00E-05	0.00022	yes
Tubb2b	1.15662	5.87006	5.00E-05	0.00022	yes
Plcl2	1.15591	4.00792	5.00E-05	0.00022	yes
Gabrb1	1.15503	1.75772	0.00405	0.011765	yes
Ces2g	1.155	1.94948	0.0008	0.002828	yes
Gimap7	1.15391	0	1	1	no
Plekha5	1.15386	4.54548	5.00E-05	0.00022	yes
Cdk15	1.15312	5.0114	5.00E-05	0.00022	yes
Hyls1	1.15249	2.05101	0.00045	0.001682	yes
Gabrq	1.15165	0	1	1	no
Nkain1	1.1516	3.73081	5.00E-05	0.00022	yes
Tyms-ps	1.15087	0	1	1	no
C7	1.14893	0	1	1	no
Rgs14	1.14883	2.47978	5.00E-05	0.00022	yes
Dimt1	1.14874	1.46629	0.01	0.025958	yes
Tia1	1.1471	3.50298	5.00E-05	0.00022	yes
Tubb2a-ps2	1.14705	5.78924	5.00E-05	0.00022	yes
Grhl3	1.14661	3.27013	5.00E-05	0.00022	yes
Casz1	1.1464	4.96817	5.00E-05	0.00022	yes

Cdt1	1.14528	1.48438	0.0108	0.027763	yes
Mef2b	1.14513	0	1	1	no
Crb1	1.14439	0	1	1	no
Rasgef1a	1.14434	4.90612	5.00E-05	0.00022	yes
Clk4	1.14357	4.10895	5.00E-05	0.00022	yes
4931429I11Rik	1.1428	3.97766	5.00E-05	0.00022	yes
Kcnn1	1.1417	4.66867	5.00E-05	0.00022	yes
Prdm12	1.14039	5.74552	5.00E-05	0.00022	yes
Gpr150	1.13982	1.44507	0.0124	0.031187	yes
Cd24a	1.13978	4.69964	5.00E-05	0.00022	yes
Kcnt1	1.13957	5.29958	5.00E-05	0.00022	yes
Klrd1	1.13898	0	1	1	no
Zfp575	1.13835	1.63334	0.00685	0.018707	yes
Malat1	1.13795	5.14927	5.00E-05	0.00022	yes
Marveld3	1.1374	1.61376	0.0035	0.01036	yes
Tmem233	1.13703	7.24597	5.00E-05	0.00022	yes
Vstm5	1.13564	5.4179	5.00E-05	0.00022	yes
Aff2	1.13492	3.4494	5.00E-05	0.00022	yes
Khdc3	1.13486	0	1	1	no
Mmp25	1.13469	5.12849	5.00E-05	0.00022	yes
Neurog2	1.13466	0	1	1	no
Rnasel	1.13408	3.8978	5.00E-05	0.00022	yes
Blvrb	1.13399	3.33146	5.00E-05	0.00022	yes
Gcnt7	1.13313	0.527715	0.31145	0.440889	no
Mcm5	1.13175	2.41322	5.00E-05	0.00022	yes
Gnat2	1.13158	0	1	1	no
Col10a1	1.13084	0	1	1	no
9430021M05Rik	1.13016	3.62568	5.00E-05	0.00022	yes
Fosl1	1.12925	0	1	1	no
Camk2a	1.12827	5.21509	5.00E-05	0.00022	yes
Rpp25	1.12777	1.77765	0.00415	0.012021	yes
Serpina12	1.1268	0	1	1	no
Slc35b3	1.12669	3.06113	5.00E-05	0.00022	yes
1700016K19Rik	1.12667	0	1	1	no
Cspp1	1.12618	2.89143	5.00E-05	0.00022	yes
5730408K05Rik	1.12502	0.838123	0.48595	0.614009	no
Lmnb1	1.12412	2.54378	5.00E-05	0.00022	yes
Trpc6	1.12376	3.88465	5.00E-05	0.00022	yes
Cxcr6	1.12365	0	1	1	no
Zap70	1.12293	0	1	1	no
Gbx1	1.12144	1.50182	0.0143	0.035369	yes
Stamos	1.12114	0	1	1	no
Drc1	1.12079	1.93324	0.00115	0.00391	yes
Setd6	1.12078	3.08336	5.00E-05	0.00022	yes
Ttr	1.11958	0	1	1	no
Lyl1	1.11957	0.94513	0.10955	0.193246	no
Gm16386	1.11893	2.04344	0.0005	0.00185	yes
Slc4a11	1.11793	4.14473	5.00E-05	0.00022	yes
Gfap	1.11721	0	1	1	no
Slc24a4	1.11599	1.48855	0.0117	0.029708	yes
Spdef	1.11517	0	1	1	no
Chaf1a	1.11461	2.29095	0.00015	0.000615	yes
Prpf39	1.11448	1.96186	0.0004	0.001513	yes

Dcx	1.11443	3.15366	5.00E-05	0.00022	yes
Fbp1	1.11386	1.67234	0.00595	0.016553	yes
Moxd1	1.11195	4.82652	5.00E-05	0.00022	yes
Pla2g4b	1.11183	0	1	1	no
Morc1	1.11037	0	1	1	no
5830403L16Rik	1.10865	0	1	1	no
Slc47a2	1.10675	2.40805	0.0001	0.000422	yes
Morn3	1.10665	0	1	1	no
Cpne2	1.10577	5.08561	5.00E-05	0.00022	yes
Gm7694	1.10548	2.05424	0.0004	0.001513	yes
Hmga2-ps1	1.10445	2.02927	0.0001	0.000422	yes
Actn1	1.10387	5.01576	5.00E-05	0.00022	yes
D930016D06Rik	1.10368	2.90329	5.00E-05	0.00022	yes
Hmox1	1.10292	4.24467	5.00E-05	0.00022	yes
Adora2b	1.10208	2.18921	0.0003	0.001164	yes
Zfp7	1.10151	2.54829	5.00E-05	0.00022	yes
Uox	1.10124	0	1	1	no
Cnih2	1.10122	2.29693	5.00E-05	0.00022	yes
Kcnk13	1.10098	3.22755	5.00E-05	0.00022	yes
Fnbp1l	1.10081	4.34015	5.00E-05	0.00022	yes
Adrb1	1.10048	1.65567	0.004	0.011645	yes
4930429D17Rik	1.1003	0	1	1	no
5430440P10Rik	1.09959	0	1	1	no
Gm3558	1.09774	0	1	1	no
Fmnl1	1.09619	4.88927	5.00E-05	0.00022	yes
Lamp3	1.09572	0	1	1	no
Scn11a	1.09512	4.37152	5.00E-05	0.00022	yes
Gm9958	1.09361	0	1	1	no
Psd4	1.09333	2.4936	5.00E-05	0.00022	yes
A230073K19Rik	1.09225	0	1	1	no
Clec4e	1.09194	0	1	1	no
Rnf43	1.09169	0	1	1	no
Ltb	1.0908	0.88827	0.08135	0.152096	no
Sbno2	1.08953	0.521739	0.3048	0.433557	no
A930003O13Rik	1.08913	0.589214	0.30735	0.436295	no
Efna2	1.08909	0.12685	0.80925	0.876649	no
Rtbdn	1.08801	0	1	1	no
4930563E22Rik	1.0873	0.828754	0.1123	0.197231	no
Padi1	1.0871	0	1	1	no
Ccne2	1.08649	1.26278	0.0267	0.060141	no
Gadd45a	1.08602	4.18401	5.00E-05	0.00022	yes
Eml5	1.08599	2.40406	5.00E-05	0.00022	yes
Kcng3	1.08445	3.24335	5.00E-05	0.00022	yes
Olf1r560	1.08411	0	1	1	no
Gpr133	1.08377	2.87597	5.00E-05	0.00022	yes
Tiam2	1.08296	2.92055	5.00E-05	0.00022	yes
4930474N09Rik	1.08243	0	1	1	no
Il18bp	1.08226	1.24353	0.0387	0.082189	no
Panx3	1.08193	0	1	1	no
Gm525	1.08013	1.95822	0.0134	0.033404	yes
E130309F12Rik	1.08005	1.54368	0.0065	0.017869	yes
Best2	1.07999	0	1	1	no
LOC100504703	1.07998	0	1	1	no

Clec2e	1.07964	0	1	1	no
Pcgf1	1.07876	3.24834	5.00E-05	0.00022	yes
F2	1.07826	0	1	1	no
Rian	1.07789	4.80563	5.00E-05	0.00022	yes
Tmc4	1.07782	0.881146	0.0857	0.158575	no
Gng5	1.07769	2.21774	0.0089	0.023488	yes
Brca1	1.07758	1.97783	0.0005	0.00185	yes
Ager	1.07702	0	1	1	no
Hook1	1.07463	2.67749	5.00E-05	0.00022	yes
Pnir	1.07372	4.14359	5.00E-05	0.00022	yes
Kif18a	1.07322	1.41035	0.0128	0.032102	yes
Lrrc3	1.07296	4.16255	5.00E-05	0.00022	yes
Rnf39	1.07286	0	1	1	no
8430426J06Rik	1.07226	0	1	1	no
Ppox	1.07137	2.62993	5.00E-05	0.00022	yes
Rmi2	1.07125	0	1	1	no
Fam220a	1.07093	4.13335	5.00E-05	0.00022	yes
Ube2t	1.06913	1.11278	0.02975	0.065991	no
Mab21l1	1.0691	1.72943	0.001	0.003451	yes
Hist2h3b	1.06891	0	1	1	no
1110019D14Rik	1.06852	1.60479	0.00865	0.022947	yes
Ttk	1.06769	0	1	1	no
Nhlh1	1.06672	0	1	1	no
Ddit3	1.06598	2.81068	5.00E-05	0.00022	yes
Tfr2	1.06471	1.61934	0.00115	0.00391	yes
Zcchc7	1.06436	3.18293	5.00E-05	0.00022	yes
Pcgf6	1.06313	2.51461	5.00E-05	0.00022	yes
Plcb3	1.06138	4.59492	5.00E-05	0.00022	yes
Shisa9	1.06073	0	1	1	no
Acvr1c	1.05981	0	1	1	no
Gm10451	1.05902	0	1	1	no
Slc5a1	1.05899	0	1	1	no
A430105I19Rik	1.05863	3.25582	5.00E-05	0.00022	yes
Tmcc2	1.05729	4.88166	5.00E-05	0.00022	yes
2010107G23Rik	1.05718	4.16845	5.00E-05	0.00022	yes
Ror2	1.05715	3.27594	5.00E-05	0.00022	yes
Fbxl19	1.05713	4.54063	5.00E-05	0.00022	yes
Sned1	1.05698	2.64748	5.00E-05	0.00022	yes
Pdzd3	1.0555	0	1	1	no
Kcnd3	1.05509	4.20377	5.00E-05	0.00022	yes
Jak3	1.0538	1.96246	0.00025	0.000985	yes
A330069E16Rik	1.05248	0	1	1	no
2900005J15Rik	1.05217	1.31478	0.02085	0.048838	yes
Rbm3os	1.05069	0	1	1	no
Eme1	1.04955	0	1	1	no
Ccnl2	1.04902	3.50389	5.00E-05	0.00022	yes
Msc	1.04776	1.95488	0.0013	0.004375	yes
Tmem200a	1.04759	4.52668	5.00E-05	0.00022	yes
Stx1a	1.04708	4.45333	5.00E-05	0.00022	yes
St6galnac3	1.04589	3.04782	5.00E-05	0.00022	yes
Cd209f	1.04517	0	1	1	no
Kncn	1.04461	0	1	1	no
Mrgprb8	1.04403	0	1	1	no

N28178	1.04367	4.31645	5.00E-05	0.00022	yes
Dscc1	1.04308	0	1	1	no
Hebp1	1.04293	2.43228	0.00035	0.001342	yes
B3gnt6	1.04292	0	1	1	no
Ooep	1.04287	1.85508	0.0036	0.010628	yes
Slc28a2	1.04222	0	1	1	no
Fam89a	1.04079	4.91967	5.00E-05	0.00022	yes
Pabpc4	1.04072	2.66689	5.00E-05	0.00022	yes
Nrg2	1.04011	2.53792	5.00E-05	0.00022	yes
Vaultrc5	1.03998	0	1	1	no
Pi4k2b	1.03919	2.6622	5.00E-05	0.00022	yes
Fam193b	1.03911	3.45064	5.00E-05	0.00022	yes
Tox2	1.03887	3.19723	5.00E-05	0.00022	yes
Cd46	1.03821	0	1	1	no
Dgkh	1.03742	4.68945	5.00E-05	0.00022	yes
A730036I17Rik	1.03742	0	1	1	no
Gpr39	1.03677	0	1	1	no
Syt9	1.03647	4.87866	5.00E-05	0.00022	yes
Hs3st3a1	1.03625	0	1	1	no
Gm17801	1.03547	0	1	1	no
Asb4	1.03537	0	1	1	no
Npy2r	1.03426	3.62417	5.00E-05	0.00022	yes
Nbeal2	1.03399	2.50212	5.00E-05	0.00022	yes
Gm7334	1.03253	0	1	1	no
Hpca	1.03175	3.50774	5.00E-05	0.00022	yes
Tcerg1l	1.03145	3.58723	5.00E-05	0.00022	yes
Rab33a	1.03138	3.01869	5.00E-05	0.00022	yes
Tmem30c	1.03127	0	1	1	no
Samsn1	1.03043	3.1195	5.00E-05	0.00022	yes
Spink2	1.02977	1.2583	0.0086	0.022847	yes
Gm12359	1.02976	0	1	1	no
Hs6st2	1.02967	4.68446	5.00E-05	0.00022	yes
Ttc14	1.02864	4.08148	5.00E-05	0.00022	yes
Scg3	1.02815	3.98403	5.00E-05	0.00022	yes
Dennd2d	1.02808	0	1	1	no
Eps8l3	1.02739	0	1	1	no
Gpr27	1.0272	2.17344	0.00075	0.00267	yes
Clk1	1.02718	3.72319	5.00E-05	0.00022	yes
Glod5	1.02701	0	1	1	no
Cpox	1.02686	4.37385	5.00E-05	0.00022	yes
Rs1	1.02548	0	1	1	no
1500015A07Rik	1.02477	1.30595	0.02505	0.057005	no
Pcmdt2	1.02469	4.02267	5.00E-05	0.00022	yes
S100a7a	1.02198	1.47709	0.0381	0.081096	no
Scn2a1	1.02195	2.99838	5.00E-05	0.00022	yes
Vmn2r113	1.02186	0	1	1	no
Eml1	1.02172	4.15818	5.00E-05	0.00022	yes
St6galnac5	1.02122	3.08056	5.00E-05	0.00022	yes
Zfhx2	1.02037	4.43437	5.00E-05	0.00022	yes
Rab27b	1.01991	4.7413	5.00E-05	0.00022	yes
Gm13032	1.01919	0	1	1	no
Rpl35	1.01794	0.724848	0.1379	0.233775	no
Cd2	1.01789	0	1	1	no

Btbd19	1.0173	1.50017	0.00895	0.023578	yes
Pak4	1.01675	2.79607	5.00E-05	0.00022	yes
Cd44	1.01558	4.57424	5.00E-05	0.00022	yes
Stac	1.01551	4.78999	5.00E-05	0.00022	yes
Snrpf	1.01533	1.83743	0.0032	0.009592	yes
Trmt13	1.01504	1.08306	0.0524	0.106152	no
Zfp692	1.01452	2.04161	0.0001	0.000422	yes
Brpf3	1.01337	2.99402	5.00E-05	0.00022	yes
Iqcg	1.01237	1.96749	5.00E-05	0.00022	yes
Fam109b	1.01194	1.34772	0.0177	0.042472	yes
Sh2d4a	1.01163	1.97316	0.00065	0.002343	yes
Ppp1r14b	1.0116	2.86693	5.00E-05	0.00022	yes
Ifit1	1.01082	3.78242	5.00E-05	0.00022	yes
Csf2rb2	1.00915	0	1	1	no
Tmem132c	1.0087	3.20521	5.00E-05	0.00022	yes
Synpo2l	1.00816	0	1	1	no
Lef1	1.00738	1.88708	0.00045	0.001682	yes
Slc38a6	1.00692	1.86033	0.0011	0.00376	yes
Ces5a	1.00637	0	1	1	no
4930558J18Rik	1.00627	0	1	1	no
Olf632	1.00614	0	1	1	no
Mrgprd	1.0061	4.92443	5.00E-05	0.00022	yes
Redrum	1.0056	2.39581	5.00E-05	0.00022	yes
Syce2	1.00521	0	1	1	no
Naip5	1.00497	0	1	1	no
39141	1.00374	3.45728	5.00E-05	0.00022	yes
Tmem154	1.00362	2.00603	0.00055	0.002016	yes
Fam46b	1.0033	1.51954	0.00765	0.020612	yes
Kcnc2	1.00295	4.05289	5.00E-05	0.00022	yes
Asb12	1.00284	0	1	1	no
Flt3l	1.00165	1.2967	0.0105	0.027102	yes
1700019L03Rik	1.00057	0	1	1	no
Cd28	1.00018	0	1	1	no
2700069I18Rik	0.999981	0	1	1	no
Cd55	0.999941	4.92957	5.00E-05	0.00022	yes
1500012F01Rik	0.998929	1.14697	0.02645	0.059669	no
Rspo1	0.998861	2.58289	5.00E-05	0.00022	yes
Fam159a	0.998773	0	1	1	no
Trpm6	0.998699	0	1	1	no
Timeless	0.998597	3.29021	5.00E-05	0.00022	yes
Apobec3	0.997542	1.5901	0.00265	0.008146	yes
Gbp8	0.996512	0	1	1	no
Nfil3	0.994894	2.29656	0.0001	0.000422	yes
D330041H03Rik	0.994622	0	1	1	no
Gabra2	0.994558	3.84684	5.00E-05	0.00022	yes
Lbr	0.994419	3.48928	5.00E-05	0.00022	yes
Clasrp	0.994181	3.13119	5.00E-05	0.00022	yes
Fam150b	0.993426	1.91481	0.0016	0.005236	yes
Ap1m2	0.992965	0	1	1	no
Nxpe4	0.992373	2.90621	5.00E-05	0.00022	yes
Olf78	0.992126	0	1	1	no
Hes6	0.991645	3.56367	5.00E-05	0.00022	yes
Tyms	0.991639	1.27487	0.0116	0.029488	yes

Mesdc1	0.991104	4.42359	5.00E-05	0.00022	yes
Elf1	0.990123	2.24014	5.00E-05	0.00022	yes
Tspear	0.988492	0	1	1	no
Pabpc1l	0.987322	0	1	1	no
Rgs5	0.98609	4.87279	5.00E-05	0.00022	yes
Insl3	0.983926	0	1	1	no
6720468P15Rik	0.982799	1.92426	0.00045	0.001682	yes
Klhdc8b	0.982552	3.36248	5.00E-05	0.00022	yes
Klhl29	0.982427	4.26364	5.00E-05	0.00022	yes
Ptma	0.982124	5.28125	5.00E-05	0.00022	yes
9430008C03Rik	0.981985	1.61047	0.00295	0.008927	yes
Clgn	0.981559	4.92797	5.00E-05	0.00022	yes
Pstpip2	0.979703	4.18044	5.00E-05	0.00022	yes
Dpp10	0.979191	4.74674	5.00E-05	0.00022	yes
Mpp4	0.978821	0	1	1	no
Ipw	0.978593	0.732724	0.4486	0.579172	no
Spag16	0.978154	0	1	1	no
Catsper3	0.977652	0	1	1	no
Nfkbid	0.977615	0	1	1	no
2210408F21Rik	0.977227	1.82271	0.00035	0.001342	yes
Ak7	0.976824	0	1	1	no
Stx2	0.976756	4.43867	5.00E-05	0.00022	yes
A330076H08Rik	0.975015	1.27416	0.01275	0.032	yes
B130006D01Rik	0.974513	0	1	1	no
Gm5868	0.974289	0	1	1	no
1110020A21Rik	0.973585	0.404642	0.599	0.712602	no
Cgref1	0.973542	0.85879	0.092	0.16766	no
Lrp8	0.973143	3.77311	5.00E-05	0.00022	yes
Zfp54	0.972977	1.49984	0.0092	0.024131	yes
Tmem79	0.972328	4.79774	5.00E-05	0.00022	yes
Rps19-ps3	0.9715	1.36621	0.1576	0.259963	no
Sdc1	0.971419	3.8487	5.00E-05	0.00022	yes
9130204L05Rik	0.970786	1.216	0.16175	0.265586	no
Ak4	0.970551	2.00216	0.00015	0.000615	yes
Raet1e	0.970523	0	1	1	no
Amer2	0.970311	3.19437	5.00E-05	0.00022	yes
Npas2	0.970233	1.89265	0.00105	0.003607	yes
Palm2	0.969474	4.5509	5.00E-05	0.00022	yes
Mical1	0.969254	4.28055	5.00E-05	0.00022	yes
Mtag2	0.968654	0.736444	0.2937	0.421382	no
Rgs11	0.967432	2.70189	5.00E-05	0.00022	yes
Sowaha	0.967129	1.728	0.0011	0.00376	yes
Sdsl	0.966992	2.07134	0.0022	0.006933	yes
Ankrd10	0.966879	3.29524	5.00E-05	0.00022	yes
Pkig	0.965818	3.15052	5.00E-05	0.00022	yes
Mettl7a2Higd1c	0.96538	0.874147	0.09825	0.177056	no
Mapk7	0.965026	3.28315	5.00E-05	0.00022	yes
Lpar3	0.96435	4.53646	5.00E-05	0.00022	yes
Unc79	0.96426	2.78705	5.00E-05	0.00022	yes
Eno3	0.962181	1.95611	0.0002	0.000803	yes
5730420D15Rik	0.96185	0	1	1	no
Foxm1	0.961102	1.32616	0.01095	0.028083	yes
Cabyr	0.960976	0	1	1	no

Mex3d	0.960591	3.31518	5.00E-05	0.00022	yes
Htr4	0.960346	2.98374	5.00E-05	0.00022	yes
Zdhhc12	0.960132	2.25668	5.00E-05	0.00022	yes
Tbx1	0.959503	0	1	1	no
Haus4	0.959076	3.18094	5.00E-05	0.00022	yes
Arhgap26	0.958479	4.54684	5.00E-05	0.00022	yes
Ubald2	0.958063	1.36728	0.01905	0.045164	yes
Serpina3f	0.958017	0	1	1	no
3000002C10Rik	0.957305	1.0638	0.082	0.153009	no
Ccdc39	0.95726	1.11121	0.02515	0.057193	no
Rpl24	0.956307	0	1	1	no
Catsperd	0.955369	0	1	1	no
P2ry10	0.954857	0	1	1	no
Mgam	0.954646	0	1	1	no
Cks2	0.954617	1.25418	0.08585	0.158808	no
Dapk1	0.954022	4.38776	5.00E-05	0.00022	yes
Gsdma	0.953936	0	1	1	no
Trim6	0.9534	0	1	1	no
Bcl2l14	0.953389	2.08041	0.00045	0.001682	yes
Wbscr25	0.953309	0	1	1	no
Kcnn3	0.953168	1.72324	0.00145	0.004804	yes
Zcchc16	0.952467	1.29448	0.0181	0.043291	yes
Drd3	0.952061	0	1	1	no
Zc3hav1	0.952046	2.91502	5.00E-05	0.00022	yes
E130102H24Rik	0.951903	1.29063	0.06745	0.131038	no
Rhebl1	0.951161	3.17433	5.00E-05	0.00022	yes
Ago4	0.948974	2.37673	5.00E-05	0.00022	yes
Cpne3	0.946978	4.36103	5.00E-05	0.00022	yes
Alk	0.946625	1.62602	0.0038	0.011141	yes
Bach2	0.945192	3.38317	5.00E-05	0.00022	yes
Oca2	0.943716	0	1	1	no
Gm13247	0.9437	0	1	1	no
Magi1	0.94339	4.25005	5.00E-05	0.00022	yes
Frmd4b	0.943343	3.67183	5.00E-05	0.00022	yes
Ccdc120	0.942144	2.2467	0.00025	0.000985	yes
Grhl2	0.942026	0	1	1	no
Lca5	0.941957	1.92997	5.00E-05	0.00022	yes
Rgs3	0.941783	3.92955	5.00E-05	0.00022	yes
St6gal2	0.940764	2.04673	0.0006	0.002181	yes
Nlrp5-ps	0.939757	0	1	1	no
Lime1	0.93813	2.62893	5.00E-05	0.00022	yes
Aldob	0.93799	0	1	1	no
Gm10785	0.937531	0	1	1	no
Gpha2	0.936773	0	1	1	no
Klk5	0.936186	1.57183	0.0104	0.02687	yes
Med10	0.935808	4.0102	5.00E-05	0.00022	yes
Jmjd7-pla2g4b	0.935077	0	1	1	no
Zbtb42	0.935029	2.06383	0.0001	0.000422	yes
Otoa	0.934874	2.17793	5.00E-05	0.00022	yes
AI413582	0.934051	4.98748	5.00E-05	0.00022	yes
F2rl3	0.933491	1.49554	0.012	0.030371	yes
Trim39	0.93335	2.68059	5.00E-05	0.00022	yes
1700047I17Rik2	0.932556	2.23088	0.0001	0.000422	yes

Itgal	0.931223	0	1	1	no
Dgkg	0.931182	4.10936	5.00E-05	0.00022	yes
Pafah1b3	0.930965	3.39607	5.00E-05	0.00022	yes
Bex4	0.930812	1.92638	0.00555	0.015544	yes
Ssbp3	0.930368	4.36933	5.00E-05	0.00022	yes
Cks1b	0.928878	1.98275	0.0058	0.016179	yes
Ttll13	0.928756	0	1	1	no
Ccdc141	0.928736	4.34867	5.00E-05	0.00022	yes
Cenpn	0.928575	1.52753	0.009	0.023696	yes
Bglap	0.926572	0	1	1	no
Rgs17	0.926539	4.17153	5.00E-05	0.00022	yes
Esr2	0.926067	0	1	1	no
Gm15760	0.925775	0	1	1	no
Dennd2c	0.925234	0	1	1	no
BC021891	0.924937	2.20789	0.00025	0.000985	yes
Cd82	0.92384	4.05128	5.00E-05	0.00022	yes
P2rx3	0.923227	4.24444	5.00E-05	0.00022	yes
Tfap4	0.922756	1.85943	0.00145	0.004804	yes
Rhov	0.922088	3.87875	5.00E-05	0.00022	yes
Gm2011	0.92196	0	1	1	no
Gm14634	0.921521	1.10936	0.056	0.112279	no
Hook2	0.921372	1.66019	0.002	0.006363	yes
Pisd-ps3	0.92052	3.58796	5.00E-05	0.00022	yes
Ptbp3	0.920444	4.22162	5.00E-05	0.00022	yes
Zfp945	0.920409	3.12228	5.00E-05	0.00022	yes
Bahd1	0.919878	4.19354	5.00E-05	0.00022	yes
Eps8l2	0.918688	1.43387	0.00675	0.018468	yes
Dnttip1	0.918443	3.42159	5.00E-05	0.00022	yes
Ndst3	0.91767	3.11698	5.00E-05	0.00022	yes
Wdr95	0.917059	0	1	1	no
5730403I07Rik	0.916603	0	1	1	no
Prkcq	0.916479	4.40404	5.00E-05	0.00022	yes
Rps20	0.915847	4.51901	5.00E-05	0.00022	yes
Rpl11	0.912478	1.43731	0.06185	0.121763	no
Dtwd1	0.912104	1.63558	0.00735	0.019896	yes
Mb21d1	0.911782	0	1	1	no
Gnb4	0.911112	4.41902	5.00E-05	0.00022	yes
Rbm12b1	0.910723	1.74803	0.00135	0.004516	yes
Btc	0.910514	0	1	1	no
Tnf	0.909147	0	1	1	no
Exo1	0.909004	0	1	1	no
Cdc7	0.908821	1.76268	0.00075	0.00267	yes
Gm10767	0.908283	1.37216	0.02065	0.048455	yes
Slc25a43	0.907292	1.11571	0.0273	0.061315	no
Neur11a	0.906746	3.56302	5.00E-05	0.00022	yes
Hist1h1e	0.906593	1.00404	0.14765	0.246896	no
Pdlim2	0.906507	2.63431	5.00E-05	0.00022	yes
Tg	0.904501	0	1	1	no
Sh2d5	0.904317	2.59481	5.00E-05	0.00022	yes
Fam183b	0.903641	0	1	1	no
4632427E13Rik	0.90364	0	1	1	no
Ccdc40	0.903346	2.25109	5.00E-05	0.00022	yes
Cblb	0.902884	3.83928	5.00E-05	0.00022	yes

Rps2	0.902454	2.81815	5.00E-05	0.00022	yes
1700037H04Rik	0.901956	1.90189	0.00025	0.000985	yes
Cercam	0.901951	1.43807	0.0096	0.025081	yes
Nktr	0.901595	3.79111	5.00E-05	0.00022	yes
4930503L19Rik	0.901145	2.12349	0.00035	0.001342	yes
Prkca	0.901112	3.88593	5.00E-05	0.00022	yes
Cxadr	0.900983	1.08736	0.02125	0.049643	yes
Izumo4	0.900891	3.03166	5.00E-05	0.00022	yes
Arhgap28	0.900852	4.34683	5.00E-05	0.00022	yes
A230103J11Rik	0.900828	0.322185	0.57785	0.695041	no
Mrgpra2b	0.899409	2.34181	0.00025	0.000985	yes
Ptger3	0.898234	2.92595	5.00E-05	0.00022	yes
Rassf7	0.897835	1.51894	0.0101	0.026207	yes
Tle1	0.897296	2.95989	5.00E-05	0.00022	yes
Mrm1	0.89701	3.18968	5.00E-05	0.00022	yes
Klhl2	0.896767	4.09469	5.00E-05	0.00022	yes
Gpr45	0.896517	0	1	1	no
Mrgprb4	0.895306	3.01687	5.00E-05	0.00022	yes
Tox3	0.894929	3.18418	5.00E-05	0.00022	yes
Spata32	0.894863	0	1	1	no
Efcab11	0.894605	0	1	1	no
Actl6b	0.894446	3.50468	5.00E-05	0.00022	yes
Smarca1	0.893923	3.43756	5.00E-05	0.00022	yes
Cep135	0.89335	1.96804	0.0002	0.000803	yes
Rpl7a	0.893218	1.75257	0.00875	0.023162	yes
Rpl35a	0.892896	0.891161	0.0665	0.12942	no
2900041M22Rik	0.891675	1.76424	0.00445	0.012807	yes
2610005L07Rik	0.890594	2.03518	0.0001	0.000422	yes
Bex2	0.890265	5.31425	5.00E-05	0.00022	yes
Irf2	0.890161	3.54437	5.00E-05	0.00022	yes
Slfm10-ps	0.889819	0	1	1	no
Zfp821	0.889783	2.68676	5.00E-05	0.00022	yes
Car7	0.889752	0.738372	0.2207	0.339088	no
Dancr	0.889309	0.875532	0.0843	0.156464	no
Rpl34,Rpl34-ps1	0.888755	1.34578	0.00695	0.018933	yes
Plcx3	0.888216	3.79552	5.00E-05	0.00022	yes
Zfp560	0.888172	2.23312	0.0001	0.000422	yes
Ccnjl	0.888064	1.50663	0.008	0.021468	yes
Exosc6	0.887919	2.30145	0.0004	0.001513	yes
Tmem164	0.887713	3.83616	5.00E-05	0.00022	yes
Nsg2	0.887617	4.13739	5.00E-05	0.00022	yes
Ptpru	0.887033	1.96546	0.0001	0.000422	yes
Fam83h	0.886341	2.58617	5.00E-05	0.00022	yes
Crebzf	0.886108	3.61472	5.00E-05	0.00022	yes
Prr18	0.886103	0	1	1	no
Celsr3	0.885876	3.77364	5.00E-05	0.00022	yes
5031425E22Rik	0.884959	2.3547	0.0001	0.000422	yes
Abcb4	0.884341	2.43015	5.00E-05	0.00022	yes
Fam71f2	0.883965	0	1	1	no
Agpat4	0.883875	4.05475	5.00E-05	0.00022	yes
Lcn2	0.883735	1.54517	0.02205	0.051206	no
Bnpl	0.882762	0	1	1	no
Sox4	0.882706	3.55045	5.00E-05	0.00022	yes

Fads3	0.881449	4.0741	5.00E-05	0.00022	yes
Bora	0.880656	1.18238	0.0355	0.076445	no
Ankrd23	0.880464	1.15928	0.04115	0.086684	no
Rps6ka6	0.880326	2.51004	5.00E-05	0.00022	yes
Gucy2g	0.880032	0	1	1	no
Wdr65	0.879867	1.33738	0.0142	0.035181	yes
Rsph1	0.879708	1.48994	0.0183	0.043682	yes
Fdx1	0.879212	2.61351	0.00015	0.000615	yes
Rasef	0.879007	1.71725	0.00085	0.002983	yes
Smyd3	0.878824	3.40704	5.00E-05	0.00022	yes
Neurl2	0.878594	0	1	1	no
A930006K02Rik	0.87814	1.18339	0.086	0.158953	no
Ccdc138	0.877396	1.7215	0.00225	0.007062	yes
Uaca	0.876011	4.13515	5.00E-05	0.00022	yes
Pitpnc1	0.876006	4.07121	5.00E-05	0.00022	yes
Ap1ar	0.87597	4.44071	5.00E-05	0.00022	yes
Npff	0.875521	0	1	1	no
Nat2	0.875135	1.22689	0.015	0.036839	yes
Dytn	0.875135	0	1	1	no
Amica1	0.875	0	1	1	no
Trpa1	0.874976	4.029	5.00E-05	0.00022	yes
Basp1	0.874956	4.55199	5.00E-05	0.00022	yes
Ccdc112	0.874916	2.17535	0.00015	0.000615	yes
Hcn3	0.874528	3.57752	5.00E-05	0.00022	yes
Lcorl	0.87423	3.10363	5.00E-05	0.00022	yes
Pabpc1	0.874186	4.21348	5.00E-05	0.00022	yes
Pnn	0.873588	3.61668	5.00E-05	0.00022	yes
Lgals9	0.873543	3.79525	5.00E-05	0.00022	yes
Prrxl1	0.873476	3.3662	5.00E-05	0.00022	yes
Prr13	0.872874	4.00815	5.00E-05	0.00022	yes
Slc2a4	0.872576	0	1	1	no
Ica1l	0.87247	2.77238	5.00E-05	0.00022	yes
Gen1	0.871768	1.30801	0.01675	0.040507	yes
Lrrc34	0.871419	0	1	1	no
Gsta3	0.870883	0	1	1	no
Fam227a	0.870818	0	1	1	no
Arid5a	0.870484	2.43556	5.00E-05	0.00022	yes
Dedd2	0.869869	2.54659	5.00E-05	0.00022	yes
Fam161a	0.869121	1.65326	0.0051	0.014464	yes
1600002K03Rik	0.868925	0.106561	0.8489	0.904389	no
Gnao1	0.868235	3.40322	5.00E-05	0.00022	yes
2610206C17Rik	0.868116	0	1	1	no
Stk32a	0.867502	2.28065	5.00E-05	0.00022	yes
Thoc1	0.867436	1.0431	0.0482	0.099127	no
Sycp2	0.867289	0	1	1	no
Hrh3	0.866527	1.46376	0.00445	0.012807	yes
Pira2	0.86652	0	1	1	no
A230057D06Rik	0.866347	1.09337	0.03345	0.07268	no
Tpt1	0.866207	1.99172	0.00015	0.000615	yes
Fbxo9	0.864575	3.91131	5.00E-05	0.00022	yes
Tes	0.863096	2.54726	5.00E-05	0.00022	yes
Nup210	0.862413	1.95382	0.0004	0.001513	yes
Dmrtc1a	0.862218	1.10102	0.0263	0.059381	no

Lap3	0.862155	3.94274	5.00E-05	0.00022	yes
Rasl10a	0.861513	0.686265	0.2756	0.400788	no
Tagln2	0.860479	4.68516	5.00E-05	0.00022	yes
Efcab4b	0.860275	1.12862	0.0688	0.133212	no
Nyap1	0.859902	4.14325	5.00E-05	0.00022	yes
Hsf5	0.859787	0	1	1	no
Ino80dos	0.85961	0.44081	0.43595	0.567814	no
Unc13c	0.859118	3.67235	5.00E-05	0.00022	yes
Tescl	0.859049	0	1	1	no
Lrrc45	0.859036	2.51694	5.00E-05	0.00022	yes
Arap1	0.858541	3.37348	5.00E-05	0.00022	yes
Irak3	0.858112	1.67624	0.00265	0.008146	yes
Tmem159	0.858078	2.52136	5.00E-05	0.00022	yes
Adrbk1	0.85767	3.98893	5.00E-05	0.00022	yes
Srek1	0.857016	3.06412	5.00E-05	0.00022	yes
Cep72	0.856875	0	1	1	no
BC005764	0.855948	0.249501	0.64295	0.748575	no
Trim25	0.854812	3.431	5.00E-05	0.00022	yes
Slc9b1	0.854474	0	1	1	no
Trmt10b	0.854222	2.44894	5.00E-05	0.00022	yes
Gm16845	0.853987	0.434063	0.4497	0.580085	no
Hyi	0.853384	2.15465	0.00055	0.002016	yes
Trim11	0.852681	2.2848	5.00E-05	0.00022	yes
Gm16861	0.852474	0	1	1	no
Rpl39	0.852436	1.61716	0.0017	0.005514	yes
Tshz2	0.852255	4.13322	5.00E-05	0.00022	yes
Ano2	0.852248	0	1	1	no
Aire	0.851546	0	1	1	no
Impg2	0.851249	0	1	1	no
Akap5	0.851223	0	1	1	no
Ehbp11	0.850761	2.97581	5.00E-05	0.00022	yes
Irf6	0.85011	2.40472	5.00E-05	0.00022	yes
Magel2	0.849546	0	1	1	no
Slc12a7	0.849087	3.34439	5.00E-05	0.00022	yes
Prph	0.848962	2.69757	5.00E-05	0.00022	yes
Fech	0.84798	3.84551	5.00E-05	0.00022	yes
Ctxn1	0.84783	3.96202	5.00E-05	0.00022	yes
Unc13b	0.847778	2.91098	5.00E-05	0.00022	yes
Pcna	0.847129	2.79031	5.00E-05	0.00022	yes
Rpl13a	0.847127	3.47626	5.00E-05	0.00022	yes
Preli2	0.846937	1.22215	0.0881	0.16182	no
Hells	0.846539	2.10021	0.0003	0.001164	yes
4931440P22Rik	0.846172	0	1	1	no
Plek2	0.846016	1.66402	0.0052	0.014691	yes
Sncg	0.845806	4.18779	5.00E-05	0.00022	yes
Ppfia2	0.84576	3.5852	5.00E-05	0.00022	yes
Scn3a	0.845212	2.17807	0.0001	0.000422	yes
Efna1	0.84518	2.98447	5.00E-05	0.00022	yes
Snrnp70	0.843656	3.93276	5.00E-05	0.00022	yes
Rpl23a	0.843076	1.05064	0.0369	0.078998	no
Etohd2	0.842994	0	1	1	no
Slc4a3	0.842984	2.87836	5.00E-05	0.00022	yes
Rpl29	0.842965	3.60862	5.00E-05	0.00022	yes

Zc3h12d	0.842829	0	1	1	no
Ptpn5	0.842256	1.75894	0.0006	0.002181	yes
Wdhd1	0.84132	2.04568	0.0003	0.001164	yes
Arid3b	0.841287	1.69874	0.0022	0.006933	yes
Timp1	0.84099	0.112829	0.8315	0.891796	no
Smpd4	0.840919	2.93987	5.00E-05	0.00022	yes
ChkbCpt1b	0.840637	0	1	1	no
Manr	0.840463	0	1	1	no
2810410L24Rik	0.84015	1.01598	0.0776	0.146655	no
Pou2f2	0.839603	1.17335	0.01655	0.040097	yes
Psd	0.838515	2.23061	0.0001	0.000422	yes
Zfp760	0.837568	2.49183	5.00E-05	0.00022	yes
Adrb2	0.837365	1.27279	0.02245	0.051907	no
Bok	0.837302	2.04227	0.00055	0.002016	yes
Gmip	0.836307	2.07768	0.00025	0.000985	yes
Gm14405	0.835841	0	1	1	no
Magi3	0.835586	3.81975	5.00E-05	0.00022	yes
Gucy2c	0.83553	0	1	1	no
Plekhn1	0.835464	1.0746	0.053	0.10709	no
2810032G03Rik	0.835029	1.82259	0.00305	0.009188	yes
Il2rg	0.834736	1.2575	0.0312	0.068657	no
Vgf	0.833867	4.07526	5.00E-05	0.00022	yes
Agtr1a	0.833843	3.08165	5.00E-05	0.00022	yes
Gpx1	0.833397	4.59223	5.00E-05	0.00022	yes
Tmem151b	0.832947	3.7561	5.00E-05	0.00022	yes
Hsbp1l1	0.832488	3.39999	5.00E-05	0.00022	yes
Phactr3	0.831805	3.05301	5.00E-05	0.00022	yes
Mylpf	0.83167	0.808082	0.2416	0.36329	no
D930015E06Rik	0.831553	3.68653	5.00E-05	0.00022	yes
Hal	0.831098	2.22922	5.00E-05	0.00022	yes
Tyw5	0.83107	1.73171	0.0033	0.009856	yes
Kbtbd8	0.830896	2.05116	5.00E-05	0.00022	yes
AA543186	0.830695	0	1	1	no
Ccdc134	0.83055	1.87408	0.0012	0.004068	yes
Grip1	0.830099	3.29421	5.00E-05	0.00022	yes
Rps10	0.82965	0	1	1	no
Sh3yl1	0.829323	2.57376	5.00E-05	0.00022	yes
Fam83d	0.82902	1.7056	0.0028	0.008532	yes
Apol9b	0.828514	0	1	1	no
1700023F06Rik	0.828469	0.966134	0.10705	0.189795	no
Atad5	0.828168	1.58513	0.00255	0.007875	yes
Trip13	0.827308	0	1	1	no
Tapbpl	0.826969	2.73895	5.00E-05	0.00022	yes
Lmbr1l	0.826782	2.51194	5.00E-05	0.00022	yes
A330033J07Rik	0.826026	0.530184	0.36805	0.499634	no
Ano7	0.826009	0	1	1	no
Spaca6	0.825441	0	1	1	no
Abhd14b	0.825341	2.76485	5.00E-05	0.00022	yes
Ammecl1	0.824915	1.38956	0.01205	0.030463	yes
Gnaq	0.824113	3.65529	5.00E-05	0.00022	yes
E4f1	0.824077	2.26429	5.00E-05	0.00022	yes
Bex1	0.823989	2.13634	0.00155	0.005095	yes
Mrgbp	0.823766	1.41207	0.0213	0.049734	yes

Pcsk9	0.823482	1.51362	0.0045	0.012942	yes
Dhx58	0.823426	1.33712	0.0163	0.039607	yes
Gm10872	0.823206	0	1	1	no
Prkd1	0.823005	3.24258	5.00E-05	0.00022	yes
9330188P03Rik	0.822943	0	1	1	no
Mapk13	0.822586	0.884535	0.13635	0.231798	no
Ncapd3	0.822342	2.4318	5.00E-05	0.00022	yes
Sigirr	0.822043	0.952007	0.08865	0.162582	no
Cpne8	0.82153	2.02343	5.00E-05	0.00022	yes
Plekhs1	0.82143	0	1	1	no
Zfp579	0.821356	2.02328	0.00065	0.002343	yes
Schip1	0.82082	3.20148	5.00E-05	0.00022	yes
Chia1	0.820294	1.89058	0.0015	0.004953	yes
Cadm1	0.820138	3.64106	5.00E-05	0.00022	yes
Mkrn3	0.819525	0	1	1	no
D3Bwg0562e	0.819392	2.33357	5.00E-05	0.00022	yes
Lpcat3	0.818121	2.94982	5.00E-05	0.00022	yes
Gpr114	0.817989	0	1	1	no
Ptms	0.817949	4.60629	5.00E-05	0.00022	yes
Gm16701	0.817865	0.927685	0.147	0.246181	no
Mycbpap	0.817847	1.49346	0.00735	0.019896	yes
Serpina3m	0.816796	0	1	1	no
Pde1b	0.81639	1.87782	0.00015	0.000615	yes
Slc29a1	0.81638	3.14427	5.00E-05	0.00022	yes
Tstd1	0.815374	1.9339	0.01855	0.044184	yes
Trib3	0.815017	1.41802	0.0128	0.032102	yes
Snx15	0.815014	3.09889	5.00E-05	0.00022	yes
Fam132a	0.81494	2.61822	0.0001	0.000422	yes
Arhgap22	0.814851	2.92577	5.00E-05	0.00022	yes
Bhlhe41	0.81484	3.47798	5.00E-05	0.00022	yes
Atp1b3	0.814378	4.16788	5.00E-05	0.00022	yes
Hist1h2bb	0.814123	0	1	1	no
Odf2l	0.813876	2.04628	0.00015	0.000615	yes
Ppih	0.813675	0.907682	0.05305	0.107158	no
M1ap	0.813568	0	1	1	no
5330417C22Rik	0.813191	2.49714	5.00E-05	0.00022	yes
Pde11a	0.812893	3.38778	5.00E-05	0.00022	yes
Tmem72	0.812511	3.41821	5.00E-05	0.00022	yes
Zfp948	0.812226	2.66089	5.00E-05	0.00022	yes
Syt1	0.81198	3.69092	5.00E-05	0.00022	yes
Mterf1b	0.811116	0.86301	0.14435	0.242755	no
4930415F15Rik	0.810797	0	1	1	no
Shkbp1	0.81067	2.34758	0.00015	0.000615	yes
Camk4	0.809609	3.39502	5.00E-05	0.00022	yes
Gm14446	0.80943	1.3279	0.00895	0.023578	yes
Mex3b	0.809349	2.39842	5.00E-05	0.00022	yes
Slc26a1	0.808798	0	1	1	no
9430091E24Rik	0.808646	0.79216	0.1123	0.197231	no
Agtr1b	0.80827	2.07813	0.00055	0.002016	yes
Ptprt	0.80815	3.68538	5.00E-05	0.00022	yes
Ebf3	0.806901	3.66649	5.00E-05	0.00022	yes
Rpl30	0.806576	1.25874	0.01255	0.03154	yes
Krt25	0.805883	1.28783	0.0262	0.059195	no

Shc1	0.805788	3.726	5.00E-05	0.00022	yes
Rarg	0.805166	3.08725	5.00E-05	0.00022	yes
Rpl10	0.805035	1.09649	0.04745	0.097873	no
Defb42	0.805034	1.46655	0.0558	0.11198	no
Rgs19	0.804971	1.82205	0.00035	0.001342	yes
Fermt3	0.804171	0.567791	0.2817	0.407737	no
Fam129b	0.803919	2.63416	5.00E-05	0.00022	yes
Inha	0.803797	1.79075	0.00255	0.007875	yes
Rnh1	0.80378	3.4723	5.00E-05	0.00022	yes
Pde6d	0.803164	3.92388	5.00E-05	0.00022	yes
Sft2d1	0.802788	1.4682	0.00465	0.013316	yes
Hpn	0.80251	0	1	1	no
C330027C09Rik	0.801844	1.77433	0.00135	0.004516	yes
Klhl5	0.801345	3.90709	5.00E-05	0.00022	yes
Gm15446	0.801047	0.99333	0.08395	0.155924	no
1600016N20Rik	0.800969	0	1	1	no
Mpped2	0.80095	3.24273	5.00E-05	0.00022	yes
Chka	0.800685	3.44483	5.00E-05	0.00022	yes
Pld5	0.799603	3.46795	5.00E-05	0.00022	yes
Rnf182	0.799059	2.04257	0.0003	0.001164	yes
Fgf17	0.798992	0	1	1	no
Clhc1	0.798908	0	1	1	no
Egfem1	0.798858	1.61688	0.00155	0.005095	yes
Kdm2b	0.798787	1.9389	0.00025	0.000985	yes
Srrm3	0.798719	2.91521	5.00E-05	0.00022	yes
Nrsn1	0.798452	3.9419	5.00E-05	0.00022	yes
2010002M12Rik	0.797938	1.09305	0.042	0.088139	no
Tle2	0.797448	1.79061	0.00055	0.002016	yes
S100a6	0.797389	5.12352	5.00E-05	0.00022	yes
Hivep3	0.797285	2.90267	5.00E-05	0.00022	yes
Arpc1b	0.796728	4.18876	5.00E-05	0.00022	yes
Ivns1abp	0.796394	3.6673	5.00E-05	0.00022	yes
Tpd52	0.796132	3.67556	5.00E-05	0.00022	yes
Mycn	0.795249	1.92898	0.0009	0.003139	yes
Ret	0.794943	2.95121	5.00E-05	0.00022	yes
Pde6g	0.794829	0	1	1	no
Vmn2r1	0.794582	0	1	1	no
Acbd4	0.794346	3.46345	5.00E-05	0.00022	yes
Xkr7	0.794089	1.55442	0.0055	0.015427	yes
Rbms1	0.79355	3.63717	5.00E-05	0.00022	yes
Mefv	0.793298	0	1	1	no
Pabpn1	0.793107	3.92657	5.00E-05	0.00022	yes
Tacc3	0.792476	1.68745	0.00205	0.006503	yes
Rpgr	0.79231	1.78546	0.00075	0.00267	yes
Col17a1	0.792134	0	1	1	no
Sapcd1	0.792029	0	1	1	no
Scn3b	0.791872	3.63177	5.00E-05	0.00022	yes
H2afy	0.791849	3.16401	5.00E-05	0.00022	yes
Hist1h2bq	0.791766	0	1	1	no
Slc7a7	0.791676	3.18353	5.00E-05	0.00022	yes
4933406I18Rik	0.791147	0	1	1	no
C530044C16Rik	0.790852	1.07275	0.079	0.148813	no
Rnf144a	0.790476	3.55008	5.00E-05	0.00022	yes

Bcat2	0.78978	2.74608	5.00E-05	0.00022	yes
Nedd4l	0.789728	3.51141	5.00E-05	0.00022	yes
Hk1os	0.789489	0	1	1	no
Dok4	0.789211	3.59712	5.00E-05	0.00022	yes
Il4ra	0.788915	3.27733	5.00E-05	0.00022	yes
Il9r	0.788764	0	1	1	no
Tprg	0.788761	0	1	1	no
Rbks	0.788667	1.17341	0.0202	0.047517	yes
Gmn	0.788582	1.86388	0.0046	0.013192	yes
Ppil4	0.787884	2.56735	5.00E-05	0.00022	yes
Hic2	0.787444	1.57311	0.00275	0.008412	yes
Ccl21b,Gm13304	0.787293	0	1	1	no
Sftpa1	0.786999	0	1	1	no
Ppil6	0.7866	0.81573	0.1947	0.307218	no
Wipf3	0.786034	3.618	5.00E-05	0.00022	yes
F2rl1	0.785626	0	1	1	no
Maff	0.784969	1.70059	0.0035	0.01036	yes
Mapk4	0.784404	2.92219	5.00E-05	0.00022	yes
Adrbk2	0.784311	2.99254	5.00E-05	0.00022	yes
Bri3	0.783711	2.29347	0.00125	0.00422	yes
Map2k3os	0.783487	1.23679	0.0416	0.087438	no
Ube2ql1	0.783288	3.73312	5.00E-05	0.00022	yes
Asic2	0.783102	3.70737	5.00E-05	0.00022	yes
Oser1	0.78303	1.54947	0.0091	0.023921	yes
Kpna2	0.782422	1.40561	0.0147	0.03621	yes
Tmem116	0.781343	0	1	1	no
Dclk3	0.781116	3.35629	5.00E-05	0.00022	yes
Mgat4b	0.781016	3.47393	5.00E-05	0.00022	yes
Slc3a1	0.780856	0	1	1	no
Tmem173	0.780635	1.34841	0.0089	0.023488	yes
Mvp	0.78058	3.50915	5.00E-05	0.00022	yes
Gprin1	0.780035	2.50155	5.00E-05	0.00022	yes
Fam76b	0.779332	2.24973	5.00E-05	0.00022	yes
Ppef1	0.779235	3.79607	5.00E-05	0.00022	yes
Flot1	0.778988	4.10681	5.00E-05	0.00022	yes
Abcb10	0.778468	3.02591	5.00E-05	0.00022	yes
Mb21d2	0.777918	2.77064	5.00E-05	0.00022	yes
Pusl1	0.777802	1.47152	0.00535	0.015044	yes
A930024E05Rik	0.77712	1.03514	0.06825	0.132302	no
Msh4	0.776829	0	1	1	no
Kcnk18	0.776706	2.405	5.00E-05	0.00022	yes
Tusc5	0.776488	3.37028	5.00E-05	0.00022	yes
Cenpv	0.776248	1.85898	0.00395	0.011515	yes
Hnrnmp	0.776134	3.46445	5.00E-05	0.00022	yes
Sri	0.775726	3.60045	5.00E-05	0.00022	yes
Arhgef1	0.775425	3.0664	5.00E-05	0.00022	yes
Gm13826	0.775217	2.94337	5.00E-05	0.00022	yes
Tuft1	0.774988	1.41937	0.0112	0.02863	yes
Ccm2l	0.774923	1.20435	0.0337	0.073163	no
9930104L06Rik	0.774666	2.01864	0.0003	0.001164	yes
Uroc1	0.774648	0	1	1	no
Tbc1d1	0.773948	3.18399	5.00E-05	0.00022	yes
Trmt112	0.773612	1.26139	0.0451	0.093843	no

Kcnf1	0.773365	1.7122	0.0014	0.004657	yes
Slc5a2	0.772984	0	1	1	no
Mmp17	0.772581	2.40414	5.00E-05	0.00022	yes
Rab27a	0.772288	3.07258	5.00E-05	0.00022	yes
Tnfaip8l3	0.771622	1.49173	0.0099	0.025759	yes
Scn10a	0.771271	2.72376	5.00E-05	0.00022	yes
Fam135a	0.771142	3.07858	5.00E-05	0.00022	yes
Mum1	0.770803	0.368718	0.4684	0.59764	no
A330023F24Rik	0.770323	1.2881	0.00995	0.025858	yes
6820431F20Rik	0.769602	2.33534	5.00E-05	0.00022	yes
1700086O06Rik	0.769574	0.821005	0.1804	0.289964	no
Rad52	0.769165	1.35694	0.00705	0.019182	yes
Chfr	0.766466	2.66089	5.00E-05	0.00022	yes
Slc22a13b-ps	0.766362	0	1	1	no
Cpt1b	0.766168	0	1	1	no
Oas1g	0.766145	0	1	1	no
5830415F09Rik	0.765821	1.24167	0.03425	0.074199	no
Gpd1l	0.765413	3.73376	5.00E-05	0.00022	yes
Wnt2b	0.765306	2.97079	5.00E-05	0.00022	yes
Scml2	0.765246	0	1	1	no
Ccdc43	0.765153	3.24626	5.00E-05	0.00022	yes
Il3ra	0.765027	1.19327	0.04745	0.097873	no
Bcl3	0.764716	1.76955	0.0027	0.008273	yes
Cdh10	0.763995	2.55238	5.00E-05	0.00022	yes
Taf1d	0.763528	1.14491	0.0573	0.114471	no
Suv420h2	0.763487	1.69455	0.00145	0.004804	yes
Ska3	0.763061	0	1	1	no
Scube2	0.762895	1.15625	0.0329	0.071743	no
B930059L03Rik	0.762809	0	1	1	no
1700019D03Rik	0.762605	1.74088	0.00995	0.025858	yes
Arhgap39	0.762521	3.44092	5.00E-05	0.00022	yes
Arl4d	0.762496	2.6344	5.00E-05	0.00022	yes
Lat2	0.761948	0	1	1	no
LOC101055769	0.761784	0	1	1	no
Ptprc	0.761368	1.38716	0.0066	0.01811	yes
2900076A07Rik	0.761311	0.663278	0.1819	0.291704	no
Serpina3g	0.761137	3.62124	5.00E-05	0.00022	yes
Gng2	0.761068	3.43842	5.00E-05	0.00022	yes
Plagl1	0.760513	3.49701	5.00E-05	0.00022	yes
Gnal	0.759407	3.18679	5.00E-05	0.00022	yes
Fbxl2	0.759098	2.58411	5.00E-05	0.00022	yes
Gm6548	0.758807	2.84667	5.00E-05	0.00022	yes
Def6	0.758316	2.85057	5.00E-05	0.00022	yes
Zfp14	0.756952	1.90346	0.0004	0.001513	yes
Slc18a2	0.756795	0	1	1	no
Klk8	0.756635	0.979227	0.10475	0.186715	no
Gm13363	0.756566	0.709222	0.16435	0.26889	no
Ppp1r2	0.755754	3.05042	5.00E-05	0.00022	yes
Ccnl1	0.755095	2.47128	5.00E-05	0.00022	yes
H2afj	0.755092	2.27207	0.0001	0.000422	yes
Klhl35	0.754689	0	1	1	no
9030612E09Rik	0.754339	0	1	1	no
Sun3	0.753013	0	1	1	no

Mbd6	0.75246	0.803476	0.10915	0.192771	no
Usmg5	0.752143	0.591559	0.2517	0.374403	no
F2rl2	0.752074	3.25091	5.00E-05	0.00022	yes
Gm8234	0.751968	0	1	1	no
Scand1	0.751952	2.3192	0.00115	0.00391	yes
Serac1	0.751836	1.57442	0.0016	0.005236	yes
Apba1	0.751205	3.3156	5.00E-05	0.00022	yes
Kcnq1	0.751165	0	1	1	no
Eif4ebp3	0.750893	1.2555	0.04125	0.086867	no
Snx11	0.7503	3.11276	5.00E-05	0.00022	yes
2610018G03Rik	0.750172	1.50507	0.0071	0.019306	yes
Ncapd2	0.749861	2.10532	0.00015	0.000615	yes
Golga7b	0.749662	3.21907	5.00E-05	0.00022	yes
Apol10b	0.748961	0	1	1	no
Itpkb	0.748735	3.36006	5.00E-05	0.00022	yes
Zfp593	0.748705	1.73228	0.0007	0.002506	yes
Trpv4	0.748664	1.05719	0.05275	0.106715	no
Gm14023	0.748624	0	1	1	no
Sfi1	0.748281	1.37029	0.0088	0.023271	yes
Hist2h3c2	0.748076	0	1	1	no
Hoxb4	0.746262	1.66604	0.0031	0.009315	yes
Htr5b	0.746107	1.80119	0.002	0.006363	yes
Camk1g	0.746007	2.85673	5.00E-05	0.00022	yes
Naa16	0.745913	1.62314	0.0028	0.008532	yes
Csf2ra	0.745904	1.61456	0.0053	0.014929	yes
Nudt8	0.745875	1.73829	0.01175	0.029824	yes
Cep152	0.745794	0	1	1	no
C130036L24Rik	0.745284	0	1	1	no
Sdcbp	0.744931	3.16971	5.00E-05	0.00022	yes
Tmeff1	0.743895	3.04446	5.00E-05	0.00022	yes
Cenpi	0.743867	0	1	1	no
Letm2	0.743729	1.85099	0.0012	0.004068	yes
Col24a1	0.743482	1.7138	0.00115	0.00391	yes
Gm5069	0.743407	0.883155	0.0957	0.173166	no
Atp1b4	0.743127	0	1	1	no
Cklf	0.742675	0.840904	0.07915	0.149011	no
Wdr62	0.74267	1.54477	0.00415	0.012021	yes
Gm5577	0.742571	0	1	1	no
Tmem63a	0.742035	2.86735	5.00E-05	0.00022	yes
Ptger1	0.74201	1.39195	0.01745	0.041986	yes
Pde1c	0.74181	3.11551	5.00E-05	0.00022	yes
Folr1	0.741364	0	1	1	no
Krit1	0.741128	2.76634	5.00E-05	0.00022	yes
Ccin	0.741005	0	1	1	no
Zfp949	0.740995	2.13538	5.00E-05	0.00022	yes
AI847159	0.740816	0.786275	0.21695	0.334565	no
Dock4	0.740675	3.23467	5.00E-05	0.00022	yes
Prkar2b	0.740276	3.59245	5.00E-05	0.00022	yes
Kcnmb1	0.740134	2.51923	5.00E-05	0.00022	yes
Fam43a	0.740078	1.98858	0.00035	0.001342	yes
Mybpc2	0.739752	0	1	1	no
5730422E09Rik	0.739678	0	1	1	no
Mroh7	0.739166	0	1	1	no

Gm16973	0.738384	0.486272	0.33555	0.466884	no
Map7	0.738335	3.09378	5.00E-05	0.00022	yes
1600027J07Rik	0.737868	0	1	1	no
Pcdh12	0.737775	1.30535	0.0132	0.032999	yes
Nipsnap3b	0.737709	3.10542	5.00E-05	0.00022	yes
Htr1f	0.737022	1.66581	0.0036	0.010628	yes
Kctd16	0.736729	2.81224	5.00E-05	0.00022	yes
Prim2	0.736686	1.45987	0.0114	0.029069	yes
Trim56	0.736612	1.95984	0.0002	0.000803	yes
Samd12	0.73598	2.51733	0.00025	0.000985	yes
Anxa11	0.735732	3.10088	5.00E-05	0.00022	yes
1700001L19Rik	0.735535	1.28155	0.02565	0.058101	no
Kcnd3os	0.735411	0	1	1	no
Gm11974	0.734442	0.865111	0.2669	0.39118	no
Trnp1	0.734005	3.77196	5.00E-05	0.00022	yes
4930414L22Rik	0.733883	0.594943	0.22915	0.349348	no
Impact	0.733719	3.59082	5.00E-05	0.00022	yes
Tspan14	0.733694	3.43063	5.00E-05	0.00022	yes
Atp13a5	0.733394	0	1	1	no
9530077C05Rik	0.733121	2.37558	5.00E-05	0.00022	yes
Mafk	0.732853	2.35785	5.00E-05	0.00022	yes
Grip2	0.732787	1.71159	0.00125	0.00422	yes
Tradd	0.732785	2.20983	0.0004	0.001513	yes
Adamts3	0.732733	2.51256	5.00E-05	0.00022	yes
Ocel1	0.732665	1.51244	0.0116	0.029488	yes
Ifit2	0.732655	2.98524	5.00E-05	0.00022	yes
Chek2	0.732048	0.953414	0.08615	0.159163	no
Gtpbp6	0.731737	2.29596	5.00E-05	0.00022	yes
Baz1a	0.731656	1.69317	0.0015	0.004953	yes
BC068157	0.731488	1.49497	0.0051	0.014464	yes
Tspo	0.7311	2.32096	0.00075	0.00267	yes
H13	0.73088	2.83576	5.00E-05	0.00022	yes
Rras	0.730854	3.227	5.00E-05	0.00022	yes
BC065397	0.730668	0	1	1	no
Crtam	0.730584	0	1	1	no
Txndc11	0.730442	1.16197	0.02075	0.048621	yes
Cd300lf	0.730042	0	1	1	no
Gm14431	0.729609	0	1	1	no
A930007I19Rik	0.729118	0	1	1	no
Il17d	0.72823	1.37868	0.0224	0.051828	no
36585	0.728201	2.5692	5.00E-05	0.00022	yes
Klk10	0.727985	0	1	1	no
Srsf5	0.727851	3.01849	5.00E-05	0.00022	yes
Gad1	0.727826	0	1	1	no
2700094K13Rik	0.727477	1.99669	0.00015	0.000615	yes
Rffl	0.727179	2.03359	5.00E-05	0.00022	yes
Jph2	0.726969	1.45372	0.00455	0.013069	yes
Odf2	0.726938	2.57782	5.00E-05	0.00022	yes
Serf1	0.726915	3.01827	0.00015	0.000615	yes
Rspo2	0.726408	3.37442	5.00E-05	0.00022	yes
4930579K19Rik	0.726301	0	1	1	no
Nek1	0.725918	3.41955	5.00E-05	0.00022	yes
Hnrnpa1	0.725907	1.68137	0.00245	0.007605	yes

Unc5d	0.725423	1.71411	0.00085	0.002983	yes
Hmgcll1	0.725263	2.19352	0.0001	0.000422	yes
Trpc5	0.725181	0	1	1	no
Chd5	0.724765	3.29071	5.00E-05	0.00022	yes
Snx9	0.724288	2.87723	5.00E-05	0.00022	yes
Mov10l1	0.723805	0	1	1	no
Tcp10b	0.722643	0	1	1	no
Zfp872	0.722632	0	1	1	no
Snhg6	0.721716	1.15879	0.02125	0.049643	yes
Rnase4	0.721621	2.24442	0.0001	0.000422	yes
Msantd1	0.721524	0.984701	0.07215	0.138226	no
Gm5595	0.721441	1.28537	0.0212	0.049553	yes
Pla2g12b	0.721405	0	1	1	no
Palm	0.721318	0.596474	0.2341	0.354868	no
Diras2	0.720862	3.11713	5.00E-05	0.00022	yes
Sema3e	0.720197	2.71079	5.00E-05	0.00022	yes
Mcm2	0.720182	1.80202	0.00095	0.003299	yes
Bin2	0.720145	0	1	1	no
Zmat4	0.72013	2.91528	5.00E-05	0.00022	yes
Rplp2	0.719365	0.753651	0.12665	0.21833	no
Slpi	0.71886	0	1	1	no
Kcna4	0.718513	2.86414	5.00E-05	0.00022	yes
Zfhx3	0.717773	3.35863	5.00E-05	0.00022	yes
Kctd8	0.717717	3.30751	5.00E-05	0.00022	yes
4921536K21Rik	0.716824	0	1	1	no
Tssk4	0.71669	0	1	1	no
A330021E22Rik	0.716669	1.92763	0.00055	0.002016	yes
Epsti1	0.716389	0	1	1	no
Gm10638	0.715712	0.633385	0.21215	0.328846	no
Srsf11	0.715267	2.89559	5.00E-05	0.00022	yes
Lekr1	0.715105	1.09153	0.03405	0.073814	no
Zfhx4	0.715035	2.52158	5.00E-05	0.00022	yes
Eri1	0.714657	2.01554	0.00035	0.001342	yes
Yy2	0.714185	0.565561	0.26235	0.385961	no
Nlrc5	0.71404	0	1	1	no
Plag1	0.713946	1.18038	0.02615	0.059093	no
Ier3	0.713899	2.7187	5.00E-05	0.00022	yes
Stat4	0.713812	0	1	1	no
Awat2	0.713262	0	1	1	no
5530601H04Rik	0.713106	1.2323	0.02105	0.049263	yes
Zfp580	0.71289	2.1879	0.0006	0.002181	yes
Card10	0.712739	2.32277	5.00E-05	0.00022	yes
Akap7	0.712536	2.07221	0.00015	0.000615	yes
Cenpj	0.712424	1.75673	0.0012	0.004068	yes
Car11	0.711584	3.23167	5.00E-05	0.00022	yes
Kri1	0.710418	1.74747	0.0004	0.001513	yes
U2af1	0.710035	1.04575	0.03645	0.078186	no
Rpl10a	0.709906	0.822105	0.21975	0.337981	no
Ankrd6	0.709721	2.63386	5.00E-05	0.00022	yes
Mxd1	0.709666	2.12947	5.00E-05	0.00022	yes
Nek3	0.708921	1.62042	0.0015	0.004953	yes
Tgm3	0.708841	0	1	1	no
Pcdha6	0.708284	0.41544	0.3911	0.522688	no

Lbh	0.708249	3.42603	5.00E-05	0.00022	yes
Rims2	0.707845	2.63416	5.00E-05	0.00022	yes
1700011I03Rik	0.707627	0.944131	0.10095	0.180767	no
Dsc2	0.706748	0	1	1	no
Zim1	0.706566	0	1	1	no
Sae1	0.706425	3.13152	5.00E-05	0.00022	yes
Arhgap21	0.706368	3.18929	5.00E-05	0.00022	yes
Rin1	0.705834	0	1	1	no
Ctsl	0.705558	3.2532	5.00E-05	0.00022	yes
Ccr9	0.705312	0	1	1	no
Cacna2d2	0.705115	2.83919	5.00E-05	0.00022	yes
Bnip2	0.704927	2.77338	5.00E-05	0.00022	yes
Dek	0.704849	2.31609	5.00E-05	0.00022	yes
Emilin2	0.704759	0	1	1	no
Trim21	0.703329	1.4144	0.00555	0.015544	yes
Tlx2	0.702962	3.35824	5.00E-05	0.00022	yes
Sh3glb1	0.702876	3.07169	5.00E-05	0.00022	yes
4930577N17Rik	0.702452	0	1	1	no
2900060B14Rik	0.702043	0	1	1	no
Ddx55	0.701812	1.88695	0.00015	0.000615	yes
Zcchc9	0.701686	2.04573	0.00105	0.003607	yes
LOC101669761	0.701476	0	1	1	no
Dazl	0.700458	0	1	1	no
Ano3	0.700337	3.24929	5.00E-05	0.00022	yes
A930015D03Rik	0.700311	0	1	1	no
Ccdc105	0.700087	0	1	1	no
Tspan2os	0.700015	0	1	1	no
Rab15	0.699768	3.48633	5.00E-05	0.00022	yes
Zfp92	0.69971	0	1	1	no
Rnaset2a,Rnaset2b	0.699569	0	1	1	no
Ccr7	0.699491	0	1	1	no
Cacnb3	0.699369	3.22792	5.00E-05	0.00022	yes
Tnfrsf11a	0.69936	2.8972	5.00E-05	0.00022	yes
Cdkn1a	0.69921	2.91288	5.00E-05	0.00022	yes
Ebf1	0.699027	3.2748	5.00E-05	0.00022	yes
Klf8	0.697906	2.33359	5.00E-05	0.00022	yes
Tomm6os	0.697832	0.444937	0.41045	0.542321	no
Anks1b	0.69779	2.79949	5.00E-05	0.00022	yes
Slc35f4	0.697668	2.14855	0.00025	0.000985	yes
Nup93	0.697394	3.4033	5.00E-05	0.00022	yes
Catsper2	0.696719	0.97354	0.0773	0.146192	no
Tmem132e	0.695747	3.39159	5.00E-05	0.00022	yes
Crip2	0.695534	3.74416	5.00E-05	0.00022	yes
Pcbd1	0.69492	2.92907	5.00E-05	0.00022	yes
Adk	0.694423	3.229	5.00E-05	0.00022	yes
Thra	0.694382	3.54522	5.00E-05	0.00022	yes
Cbln1	0.694355	1.38592	0.0131	0.032767	yes
Mfsd10	0.694081	2.27411	0.0001	0.000422	yes
Zfp389	0.693834	0	1	1	no
Ptpro	0.693657	2.14189	5.00E-05	0.00022	yes
1700001C19Rik	0.693513	0	1	1	no
Lrrc71	0.693422	0	1	1	no
Arpc5	0.692896	3.60908	5.00E-05	0.00022	yes

Htr1a	0.692148	1.9812	0.00025	0.000985	yes
Syt14	0.692116	1.50019	0.0099	0.025759	yes
S1pr2	0.691682	1.63095	0.0033	0.009856	yes
Auts2	0.691412	2.95741	5.00E-05	0.00022	yes
Kif9	0.691355	1.15709	0.02235	0.051739	no
Pde10a	0.691278	2.82134	5.00E-05	0.00022	yes
Lcor	0.691121	1.19034	0.0237	0.054324	no
Nt5c	0.690981	2.30388	5.00E-05	0.00022	yes
Amz1	0.690933	1.08707	0.04545	0.094497	no
Dpys	0.690522	0	1	1	no
Olf424	0.690464	0	1	1	no
Olf12	0.690075	0	1	1	no
Tmem198	0.689472	1.67856	0.0031	0.009315	yes
Hypk	0.68895	4.03584	5.00E-05	0.00022	yes
Slc25a27	0.68851	2.70477	5.00E-05	0.00022	yes
B230216N24Rik	0.688019	0.189166	0.7406	0.827762	no
Syt4	0.688007	3.21724	5.00E-05	0.00022	yes
Nckap5l	0.687977	2.7706	5.00E-05	0.00022	yes
Dynll1	0.687517	3.52126	5.00E-05	0.00022	yes
Tmsb4x	0.687495	4.09588	5.00E-05	0.00022	yes
Cebpa	0.687181	1.39156	0.00485	0.01382	yes
Srms	0.686945	0.947286	0.08275	0.154083	no
BC048679	0.68648	0	1	1	no
Dock11	0.686158	3.31562	5.00E-05	0.00022	yes
Pou4f1	0.685703	3.38645	5.00E-05	0.00022	yes
Plau	0.68524	1.90796	0.0007	0.002506	yes
Ncapg2	0.685108	1.62275	0.00235	0.007346	yes
3110062M04Rik	0.684862	0.934333	0.06215	0.122227	no
Fgd6	0.684836	1.87528	0.00045	0.001682	yes
Amh	0.68482	0	1	1	no
Klf10	0.684381	2.4076	5.00E-05	0.00022	yes
Sidt1	0.684324	0	1	1	no
Pura	0.683741	2.46686	5.00E-05	0.00022	yes
Hcrtr2	0.68337	2.08356	0.0002	0.000803	yes
Arhgap17	0.683049	2.96277	5.00E-05	0.00022	yes
Rgmb	0.682487	3.46361	5.00E-05	0.00022	yes
Zfp946	0.682487	2.37486	5.00E-05	0.00022	yes
Serp2	0.682333	2.23183	5.00E-05	0.00022	yes
Ccdc23	0.682221	1.42409	0.0056	0.015668	yes
Xylt2	0.682123	2.78616	5.00E-05	0.00022	yes
Rps21	0.682104	2.36147	5.00E-05	0.00022	yes
Acin1	0.681949	2.64387	5.00E-05	0.00022	yes
Nrn1	0.681784	3.47735	5.00E-05	0.00022	yes
Zfp524	0.681587	1.47514	0.0181	0.043291	yes
Stoml3	0.68109	0	1	1	no
Zfp78	0.680334	1.12801	0.02395	0.054869	no
Myt1l	0.680273	3.24274	5.00E-05	0.00022	yes
Hpcal1	0.679955	3.54189	5.00E-05	0.00022	yes
Slit1	0.679789	3.25522	5.00E-05	0.00022	yes
C2cd5	0.679725	2.80463	5.00E-05	0.00022	yes
Xkr6	0.679502	0.865431	0.0806	0.151013	no
Myo18b	0.678994	0	1	1	no
Stpg1	0.678708	1.20661	0.0314	0.069017	no

Slc22a4	0.678469	1.39195	0.012	0.030371	yes
4921524J17Rik	0.678322	1.5896	0.0022	0.006933	yes
Acot12	0.678233	0	1	1	no
Cd47	0.678227	3.43163	5.00E-05	0.00022	yes
Fam124a	0.678052	2.22783	5.00E-05	0.00022	yes
Zfp182	0.677939	1.72293	0.0007	0.002506	yes
Gpr19	0.677516	1.60997	0.00145	0.004804	yes
A730020E08Rik	0.676523	0.627387	0.27335	0.39817	no
Ndn	0.67651	3.56672	5.00E-05	0.00022	yes
Fgf13	0.67624	2.84065	5.00E-05	0.00022	yes
Upk1a	0.676221	0	1	1	no
Rgl2	0.67619	2.31787	5.00E-05	0.00022	yes
Taf1c	0.676114	1.5166	0.0032	0.009592	yes
Eogt	0.675925	2.37983	5.00E-05	0.00022	yes
Zfand2b	0.675593	2.04167	5.00E-05	0.00022	yes
4930526I15Rik	0.675502	0.855382	0.08365	0.155497	no
1700011B04Rik	0.675127	0	1	1	no
Dcdc2a	0.674589	0	1	1	no
Sema4d	0.67428	3.04842	5.00E-05	0.00022	yes
Prr14	0.674199	2.20216	5.00E-05	0.00022	yes
Sfn	0.673612	1.51956	0.00895	0.023578	yes
Dusp11	0.6728	2.88289	5.00E-05	0.00022	yes
Mpzl3	0.672464	1.23875	0.04825	0.099215	no
Tsen34	0.671825	2.51525	5.00E-05	0.00022	yes
Lrrc18	0.671606	0	1	1	no
9230114K14Rik	0.671046	1.21586	0.03135	0.068918	no
Ccdc11	0.670221	0	1	1	no
Cds2	0.66929	2.22987	5.00E-05	0.00022	yes
Popdc2	0.669089	0	1	1	no
Cdkl1	0.668726	0.490988	0.4011	0.532885	no
Rd3	0.668553	0	1	1	no
2310061J03Rik	0.668416	0.562547	0.35415	0.486086	no
Rinl	0.668232	0.894253	0.09875	0.177691	no
Tpm4	0.667808	3.18331	5.00E-05	0.00022	yes
Psme1	0.666729	1.85215	0.0035	0.01036	yes
Ankrd13b	0.66665	3.12667	5.00E-05	0.00022	yes
Agfg2	0.666188	2.61171	5.00E-05	0.00022	yes
Myd88	0.665892	1.73676	0.0021	0.006649	yes
Il1r2	0.665683	0	1	1	no
Fst	0.665379	1.04467	0.05535	0.111211	no
Ptgs2	0.665087	1.03528	0.0507	0.103403	no
Trim17	0.665038	0.782153	0.17005	0.276477	no
Ubald1	0.664861	3.09725	5.00E-05	0.00022	yes
Avil	0.664688	2.91086	5.00E-05	0.00022	yes
Gm3435	0.6643	0	1	1	no
A630089N07Rik	0.66412	0	1	1	no
Zdhhc14	0.664114	2.67158	5.00E-05	0.00022	yes
Rpl13	0.663627	1.19957	0.0174	0.041888	yes
Slc15a4	0.663555	2.56347	5.00E-05	0.00022	yes
Akap17b	0.663542	2.59361	5.00E-05	0.00022	yes
Chac2	0.663509	1.56626	0.0017	0.005514	yes
Csnk1e	0.663294	2.78626	5.00E-05	0.00022	yes
Ftl1	0.663142	3.72691	5.00E-05	0.00022	yes

Lst1	0.662947	1.04523	0.2884	0.41508	no
Lrrc16b	0.662858	2.93094	5.00E-05	0.00022	yes
Deaf1	0.662482	2.36311	5.00E-05	0.00022	yes
Cystm1	0.662129	3.61293	5.00E-05	0.00022	yes
Myadm	0.661964	3.09879	5.00E-05	0.00022	yes
Gnb2	0.661371	3.08896	5.00E-05	0.00022	yes
Gm8773	0.66127	1.0478	0.07855	0.148092	no
Rnaseh1	0.660284	1.56429	0.0017	0.005514	yes
Psg16	0.660253	0	1	1	no
Cbr3	0.660214	1.6423	0.008	0.021468	yes
Ina	0.66005	1.85314	0.00025	0.000985	yes
Gimap9	0.660037	0	1	1	no
Tnfsf13b	0.659962	0.945156	0.09595	0.173595	no
Bax	0.659487	2.70261	0.0001	0.000422	yes
Mtcl1	0.659085	3.09052	5.00E-05	0.00022	yes
Tppp3	0.658356	3.22826	5.00E-05	0.00022	yes
Samd1	0.657734	2.04097	0.0005	0.00185	yes
Trpc4	0.657701	1.43042	0.0052	0.014691	yes
D030028A08Rik	0.65546	0.610452	0.25335	0.37593	no
Ralgs1	0.655029	1.79559	0.00085	0.002983	yes
Terf1	0.654535	1.70865	0.0005	0.00185	yes
Bst2	0.654402	1.93367	0.0058	0.016179	yes
Unc119	0.654346	2.97516	5.00E-05	0.00022	yes
Pvrl1	0.654295	2.96766	5.00E-05	0.00022	yes
Dok3	0.653978	0.835603	0.14925	0.249038	no
Pinx1	0.653856	1.23383	0.0361	0.077536	no
Aqp1	0.653751	3.21299	5.00E-05	0.00022	yes
Fez1	0.653674	3.60124	5.00E-05	0.00022	yes
Tbrg1	0.653601	2.99332	5.00E-05	0.00022	yes
Crocc	0.653412	1.47666	0.0034	0.010109	yes
Pgpep1l	0.653293	0	1	1	no
Lsm5	0.653001	0	1	1	no
Klf7	0.652943	2.81297	5.00E-05	0.00022	yes
Star	0.652855	0	1	1	no
Hoxc9	0.652724	1.14389	0.04515	0.093932	no
Ccdc89	0.652344	0	1	1	no
Ctu1	0.652219	1.44372	0.00885	0.02338	yes
Npas1	0.652195	0	1	1	no
Stmn1	0.652125	3.69026	5.00E-05	0.00022	yes
Sh3bgrl3	0.651914	4.26845	5.00E-05	0.00022	yes
Rpf1	0.651773	1.48965	0.00355	0.010494	yes
Slc52a3	0.651718	1.45155	0.00455	0.013069	yes
Efcab4a	0.650757	1.06387	0.05985	0.118565	no
Kcnk9	0.650563	0	1	1	no
Edf1	0.650393	3.72349	5.00E-05	0.00022	yes
Tspan2	0.650038	2.99585	5.00E-05	0.00022	yes
Tcp11	0.650009	0	1	1	no
Rab10os	0.649847	0.289108	0.65115	0.754877	no
Mgat4a	0.6497	2.89907	5.00E-05	0.00022	yes
Cdca7	0.649365	0.856971	0.1177	0.205113	no
Pqlc3	0.649263	2.712	5.00E-05	0.00022	yes
Ptpn22	0.649244	0	1	1	no
Ccdc109b	0.649129	2.49398	0.00015	0.000615	yes

Sfswap	0.648044	2.41585	5.00E-05	0.00022	yes
Gm20337	0.647952	0	1	1	no
H2-D1	0.647916	3.002	5.00E-05	0.00022	yes
Coro1a	0.647613	3.33403	5.00E-05	0.00022	yes
Snx10	0.647472	3.02244	5.00E-05	0.00022	yes
Rps15a-ps6	0.647468	0.353994	0.4817	0.610267	no
Faim	0.647367	2.00077	5.00E-05	0.00022	yes
Znf512b	0.647047	2.20934	5.00E-05	0.00022	yes
Tmem206	0.646806	2.02762	0.0003	0.001164	yes
Gm15708	0.64662	0	1	1	no
Popdc3	0.646535	2.54598	5.00E-05	0.00022	yes
Fam189b	0.646151	3.03852	5.00E-05	0.00022	yes
Ttll9	0.646102	0.734735	0.134	0.228683	no
Tom1	0.646018	0	1	1	no
Lig1	0.64601	1.61936	0.00145	0.004804	yes
Cdyl	0.645714	1.89926	0.00025	0.000985	yes
Mis18a	0.645689	1.24916	0.03775	0.080455	no
Ankrd13d	0.645628	2.98977	5.00E-05	0.00022	yes
Gm2373	0.645404	0	1	1	no
Rps11	0.645301	2.4466	5.00E-05	0.00022	yes
Snhg10	0.645242	0.683804	0.17295	0.280025	no
Ptpla	0.645031	1.14227	0.02485	0.056589	no
Spice1	0.644761	1.77237	0.0008	0.002828	yes
Hdac9	0.64474	2.43997	5.00E-05	0.00022	yes
Tmsb10	0.64463	2.55583	5.00E-05	0.00022	yes
F8a	0.644182	2.06294	0.0004	0.001513	yes
Lrrc75b	0.643895	3.14472	5.00E-05	0.00022	yes
Cnbd2	0.643658	0.503603	0.3155	0.445339	no
Gm13889	0.64349	3.38604	5.00E-05	0.00022	yes
Rad23a	0.643453	2.40132	5.00E-05	0.00022	yes
6430550D23Rik	0.643202	0	1	1	no
Rpl31	0.642783	1.11581	0.06475	0.126459	no
Zgrf1	0.642602	1.18126	0.0212	0.049553	yes
Med11	0.641716	2.03492	0.0027	0.008273	yes
Pfkl	0.641621	3.0241	5.00E-05	0.00022	yes
Psma5	0.641398	1.6739	0.0062	0.017151	yes
Rbm43	0.640654	2.09703	5.00E-05	0.00022	yes
Mtrr	0.64062	1.72368	0.00135	0.004516	yes
Gemin2	0.640529	1.33613	0.03195	0.070005	no
Magohb	0.640525	1.43137	0.037	0.079136	no
Ttc8	0.640405	1.58418	0.0018	0.005802	yes
Ggta1	0.639297	2.31873	5.00E-05	0.00022	yes
Vpreb3	0.639128	0	1	1	no
Lrwd1	0.638741	1.73117	0.0019	0.00608	yes
Trpv2	0.638706	2.99167	5.00E-05	0.00022	yes
Gm15772	0.638622	0	1	1	no
Ap3b1	0.638422	2.34103	5.00E-05	0.00022	yes
Cstf3	0.638028	1.55384	0.002	0.006363	yes
Rpl32	0.6379	1.84577	0.00045	0.001682	yes
Mcm3	0.637691	1.04187	0.05115	0.104097	no
1500004A13Rik	0.637212	1.93576	5.00E-05	0.00022	yes
AY358078	0.637169	0	1	1	no
1500011B03Rik	0.636876	2.60263	5.00E-05	0.00022	yes

Ptpn9	0.636729	3.02542	5.00E-05	0.00022	yes
Srsf4	0.635594	2.38203	5.00E-05	0.00022	yes
Tmem169	0.635424	2.04029	0.0002	0.000803	yes
Lmnb2	0.635202	1.84779	0.0008	0.002828	yes
Gm17066	0.634873	1.46939	0.007	0.019066	yes
Fcho2	0.634859	2.41237	5.00E-05	0.00022	yes
Ccdc166	0.634813	0.953307	0.05685	0.113691	no
Duox1	0.634649	0	1	1	no
Rmnd5b	0.634172	1.97957	5.00E-05	0.00022	yes
Cmah	0.633981	0	1	1	no
Atxn2l	0.63392	2.97627	5.00E-05	0.00022	yes
Chrna6	0.633864	2.84926	5.00E-05	0.00022	yes
Znhit1	0.633785	1.97116	0.00215	0.006796	yes
Six1	0.633389	2.92513	5.00E-05	0.00022	yes
Abca5	0.633075	3.03898	5.00E-05	0.00022	yes
Klrb1b	0.632877	0	1	1	no
4933430I17Rik	0.63247	0	1	1	no
Oxld1	0.632452	1.24169	0.062	0.121986	no
Rassf9	0.632265	1.22052	0.027	0.060703	no
1700026D08Rik	0.631997	0	1	1	no
Prr16	0.631814	0.961551	0.0795	0.149543	no
Ddx17	0.631795	2.82222	5.00E-05	0.00022	yes
Ltv1	0.631579	2.34307	5.00E-05	0.00022	yes
F930015N05Rik	0.631508	0	1	1	no
Btbd8	0.63116	1.22711	0.0456	0.094735	no
Gstp1	0.631021	2.70103	0.0001	0.000422	yes
Phkg1	0.630782	0	1	1	no
Xpo7	0.630321	2.84007	5.00E-05	0.00022	yes
Tfdp1	0.629905	1.88675	0.0002	0.000803	yes
Sox18	0.629802	1.13904	0.04645	0.096139	no
Lrrc8d	0.629029	2.9075	5.00E-05	0.00022	yes
Agk	0.628854	1.65273	0.0028	0.008532	yes
Sertad4	0.628812	2.37666	5.00E-05	0.00022	yes
Pgm2l1	0.628158	2.75075	5.00E-05	0.00022	yes
Pold1	0.627945	1.39353	0.00605	0.016792	yes
4930486L24Rik	0.627912	0	1	1	no
1700026L06Rik	0.627751	0	1	1	no
Zfp128	0.627713	1.40138	0.00895	0.023578	yes
Ranbp10	0.62732	2.65825	5.00E-05	0.00022	yes
Skap2	0.626919	2.4568	5.00E-05	0.00022	yes
Arhgef28	0.626447	2.45891	5.00E-05	0.00022	yes
Gpr97	0.626355	0	1	1	no
Brdt	0.625741	1.57725	0.0021	0.006649	yes
Enox1	0.625716	2.7575	5.00E-05	0.00022	yes
Incenp	0.625608	1.65261	0.00225	0.007062	yes
Lamb3	0.625521	0	1	1	no
Rcan3	0.625364	2.89272	5.00E-05	0.00022	yes
Rmdn1	0.624846	1.5468	0.0069	0.018824	yes
Coro2a	0.624664	2.91704	5.00E-05	0.00022	yes
Cntn3	0.624144	2.08832	5.00E-05	0.00022	yes
E2f4	0.623643	2.02334	0.00045	0.001682	yes
Pcdha5	0.623439	0.257149	0.59015	0.705235	no
Snhg3	0.623264	1.89748	0.04125	0.086867	no

4930430F08Rik	0.622893	1.62709	0.0012	0.004068	yes
4931428F04Rik	0.622786	1.34102	0.00655	0.017992	yes
Ap1s3	0.622738	0	1	1	no
Rufy2	0.622351	2.53566	5.00E-05	0.00022	yes
Barx2	0.622296	1.25584	0.0261	0.059	no
Btf3	0.621727	1.52115	0.0029	0.008796	yes
Rplp2-ps1	0.62158	0	1	1	no
Brinp2	0.621298	2.71588	5.00E-05	0.00022	yes
Smc4	0.621187	2.41114	5.00E-05	0.00022	yes
Erlin1	0.621002	2.0178	5.00E-05	0.00022	yes
Osbpl8	0.620892	2.82909	5.00E-05	0.00022	yes
Gm826	0.620775	0	1	1	no
Brd9	0.62068	2.53036	5.00E-05	0.00022	yes
Cacna2d1	0.620578	2.85976	5.00E-05	0.00022	yes
Stk11ip	0.62027	2.46125	5.00E-05	0.00022	yes
Rac3	0.619956	2.63041	5.00E-05	0.00022	yes
Acrbp	0.619744	0.593909	0.2373	0.358612	no
Myh9	0.619648	2.90463	5.00E-05	0.00022	yes
Crybb3	0.619394	0.628732	0.2024	0.31673	no
Adrm1	0.619366	1.28691	0.028	0.062644	no
Uri1	0.619356	2.45421	5.00E-05	0.00022	yes
Polr2i	0.619301	1.31475	0.0288	0.064206	no
Slc25a24	0.61913	1.94401	0.0003	0.001164	yes
Zfp112	0.618904	1.39652	0.0104	0.02687	yes
Zc3h7a	0.618673	2.26779	5.00E-05	0.00022	yes
Cxxc4	0.618618	2.16656	5.00E-05	0.00022	yes
Foxo3	0.618276	2.59343	5.00E-05	0.00022	yes
Icmt	0.61816	2.98059	5.00E-05	0.00022	yes
Steap1	0.617925	0.9626	0.1113	0.195812	no
Bbs5	0.617895	1.74713	0.0024	0.00748	yes
Gramd4	0.617888	2.53386	5.00E-05	0.00022	yes
Armcx6	0.617878	1.76157	0.0018	0.005802	yes
Rsph3a	0.617804	1.66455	0.00295	0.008927	yes
Cpne9	0.61777	1.29374	0.01745	0.041986	yes
Atad2b	0.617354	1.92188	0.0002	0.000803	yes
Snx7	0.617089	2.87871	5.00E-05	0.00022	yes
Gt(ROSA)26Sor	0.617001	0.919815	0.07255	0.138752	no
Tac1	0.616566	3.51128	5.00E-05	0.00022	yes
Dqx1	0.616273	0	1	1	no
B3glct	0.615927	2.67767	5.00E-05	0.00022	yes
Vmo1	0.615908	0	1	1	no
Boc	0.615624	2.17351	5.00E-05	0.00022	yes
C130071C03Rik	0.615583	0	1	1	no
Styx	0.615228	0.965315	0.069	0.133502	no
Cpsf4	0.615217	1.21932	0.01545	0.037763	yes
Apitd1	0.615105	1.15386	0.07315	0.139678	no
Vezt	0.615007	2.74108	5.00E-05	0.00022	yes
Aacs	0.614848	3.05537	5.00E-05	0.00022	yes
Ccdc12	0.614831	1.59765	0.0165	0.03999	yes
Asprv1	0.614742	0	1	1	no
Slc25a38	0.614424	2.70476	5.00E-05	0.00022	yes
Bdnf	0.614372	2.31539	5.00E-05	0.00022	yes
Pop5	0.613978	2.98515	5.00E-05	0.00022	yes

Nol3	0.613878	2.65211	5.00E-05	0.00022	yes
Tor4a	0.613513	0.852158	0.11095	0.1953	no
Tyk2	0.613511	1.76413	0.00025	0.000985	yes
B4galt5	0.613009	2.96749	5.00E-05	0.00022	yes
Hilpda	0.612894	1.19415	0.0178	0.04265	yes
Abr	0.612719	2.82351	5.00E-05	0.00022	yes
Taf10	0.612542	0.716531	0.1528	0.253908	no
Kifc2	0.61252	2.55549	5.00E-05	0.00022	yes
Parpbp	0.612277	0	1	1	no
Bend4	0.612225	2.22984	5.00E-05	0.00022	yes
Fbxl22	0.612212	0	1	1	no
Cep70	0.61214	1.42042	0.00965	0.025197	yes
Lmo7	0.612034	1.41327	0.0076	0.02049	yes
Prdm8	0.611842	2.19548	5.00E-05	0.00022	yes
G2e3	0.611756	1.58947	0.0016	0.005236	yes
Snx21	0.611574	2.72833	5.00E-05	0.00022	yes
Supt20	0.611537	2.21264	5.00E-05	0.00022	yes
Safb2	0.611476	2.01273	0.0001	0.000422	yes
Zdhhc13	0.611472	2.57696	5.00E-05	0.00022	yes
Rab40c	0.611315	2.36218	5.00E-05	0.00022	yes
4930526L06Rik	0.611238	0	1	1	no
Sp110	0.61091	0	1	1	no
Wipf1	0.610847	2.56307	5.00E-05	0.00022	yes
Upf3b	0.610797	2.20528	0.0001	0.000422	yes
Cited1	0.61077	0.677273	0.16075	0.264304	no
Jph1	0.610768	1.27236	0.0153	0.037465	yes
Lnx1	0.61044	1.03588	0.03845	0.081723	no
1110007C09Rik	0.610384	2.85962	5.00E-05	0.00022	yes
BC020402	0.609954	0.932821	0.09375	0.170218	no
Plcl1	0.609804	2.09361	5.00E-05	0.00022	yes
Rgs9bp	0.609758	0	1	1	no
Utp18	0.609368	1.82306	0.001	0.003451	yes
2700081O15Rik	0.60905	0.406692	0.42195	0.553491	no
Zkscan2	0.608634	1.13031	0.03245	0.070925	no
Asl	0.60849	2.24684	5.00E-05	0.00022	yes
Uimc1	0.608464	1.57609	0.0037	0.010879	yes
Paxbp1	0.608407	0.595033	0.2292	0.349348	no
Ralgds	0.608018	2.63338	5.00E-05	0.00022	yes
Ino80b	0.607903	1.74361	0.0062	0.017151	yes
8430408G22Rik	0.607789	0.468365	0.3823	0.513618	no
Creld1	0.607723	3.15337	5.00E-05	0.00022	yes
8430427H17Rik	0.607339	2.76403	5.00E-05	0.00022	yes
2010111I01Rik	0.607146	1.99827	0.00055	0.002016	yes
A230072C01Rik	0.606616	1.06383	0.03435	0.074391	no
Glipr2	0.606523	1.9004	0.0006	0.002181	yes
Ankrd12	0.606069	2.75435	5.00E-05	0.00022	yes
Tmem238	0.606019	0.759036	0.22295	0.341833	no
Rp9	0.605071	2.39591	0.0003	0.001164	yes
Xpa	0.605034	1.46533	0.0217	0.05049	no
Bcl7c	0.604752	1.10184	0.0282	0.063027	no
Zmat5	0.604631	2.15105	0.0016	0.005236	yes
Pla2g6	0.604385	2.31175	5.00E-05	0.00022	yes
Ost4	0.604369	1.64011	0.00135	0.004516	yes

Ydjc	0.604208	1.85982	0.00205	0.006503	yes
Mroh2a	0.604076	0	1	1	no
Rassf1	0.60406	1.48272	0.0037	0.010879	yes
Rpusd1	0.603912	1.9964	0.0005	0.00185	yes
Gpatch4	0.603461	1.66079	0.00155	0.005095	yes
Fbxo36	0.603458	1.5751	0.01545	0.037763	yes
2310036O22Rik	0.603419	3.01015	5.00E-05	0.00022	yes
Fgf22	0.603122	0.0241917	0.31095	0.440463	no
Rsrc2	0.602769	2.6346	5.00E-05	0.00022	yes
Flot2	0.60275	2.77722	5.00E-05	0.00022	yes
Cbr1	0.602712	2.86226	5.00E-05	0.00022	yes
Cep78	0.602536	1.6688	0.00215	0.006796	yes
Kin	0.601953	1.48245	0.0116	0.029488	yes
Wbscr17	0.601868	2.95737	5.00E-05	0.00022	yes
Rbm39	0.601859	2.72096	5.00E-05	0.00022	yes
Tec	0.601445	1.46834	0.0037	0.010879	yes
Noxo1	0.601357	0	1	1	no
Jph4	0.60079	2.94451	5.00E-05	0.00022	yes
Gucd1	0.600559	2.36923	5.00E-05	0.00022	yes
Msl3l2	0.60044	0.825242	0.10485	0.186843	no
Gabrr1	0.59997	0	1	1	no
Zfp827	0.599891	2.4176	5.00E-05	0.00022	yes
Cyp2j13	0.599832	0	1	1	no
Rab26os	0.599769	1.66975	0.25185	0.374543	no
Fam178a	0.599642	2.08121	5.00E-05	0.00022	yes
Hhipl1	0.599631	0.889997	0.1025	0.183221	no
Zcchc18	0.599343	2.63908	5.00E-05	0.00022	yes
AW549877	0.599109	2.86439	5.00E-05	0.00022	yes
Lgals4	0.598583	0.468096	0.4252	0.556434	no
B230112J18Rik	0.598528	0	1	1	no
Nagk	0.598501	2.43121	5.00E-05	0.00022	yes
Grk5	0.598386	1.93503	0.00065	0.002343	yes
Pknos2	0.598329	2.57136	5.00E-05	0.00022	yes
Igflr1	0.597978	0.780397	0.20115	0.315221	no
Rps19bp1	0.597887	1.76758	0.0084	0.022392	yes
Pygl	0.597707	2.33532	5.00E-05	0.00022	yes
2510002D24Rik	0.597586	1.384	0.022	0.051098	no
Socs7	0.597566	2.84695	5.00E-05	0.00022	yes
Dennd6b	0.59743	1.88585	0.0001	0.000422	yes
Mkrn1	0.596565	2.86401	5.00E-05	0.00022	yes
Anxa5	0.596172	2.34897	5.00E-05	0.00022	yes
Erich3	0.596018	1.42627	0.01085	0.02787	yes
Prex1	0.595985	2.52221	5.00E-05	0.00022	yes
Cenpw	0.595328	0.709728	0.22185	0.34054	no
Slc25a1	0.594863	3.03223	5.00E-05	0.00022	yes
Rnf219	0.594611	2.33488	5.00E-05	0.00022	yes
Mypn	0.594603	0	1	1	no
Klhl10	0.594246	0	1	1	no
Map2k3	0.594173	2.03635	0.0003	0.001164	yes
Efcab5	0.594026	0	1	1	no
Fah	0.593912	2.17189	0.0003	0.001164	yes
Id4	0.593846	2.26565	5.00E-05	0.00022	yes
Tmem74	0.593179	2.2197	0.00015	0.000615	yes

Anapc15	0.59309	0.862771	0.07925	0.149157	no
Pkd2l2	0.592822	0	1	1	no
Plp2	0.592713	0.518765	0.3111	0.440487	no
Gstt2	0.592636	1.08943	0.0641	0.125374	no
Pcdhb5	0.592346	0.181271	0.7244	0.815426	no
5730405O15Rik	0.592236	0.669347	0.3025	0.430747	no
Pin4	0.592024	0.850809	0.32805	0.458855	no
Ccdc84	0.591716	0.605744	0.2426	0.36425	no
Brca2	0.591611	0	1	1	no
Rtn4rl1	0.59137	2.88147	5.00E-05	0.00022	yes
1110002L01Rik	0.590605	0.378123	0.4466	0.577748	no
Gcnt2	0.590487	2.6378	5.00E-05	0.00022	yes
Kl	0.590406	0	1	1	no
Gm2109	0.590349	0	1	1	no
4930538K18Rik	0.590115	0	1	1	no
Myl6	0.590081	2.42869	0.0014	0.004657	yes
Sirt7	0.589859	1.76956	0.00025	0.000985	yes
Pde8a	0.589857	1.51714	0.00515	0.014587	yes
Ugcg	0.589664	2.90579	5.00E-05	0.00022	yes
Ankzf1	0.58966	1.37119	0.0145	0.03579	yes
Pdcd5	0.589341	1.32	0.0705	0.135869	no
9530026P05Rik	0.589006	0.790172	0.2136	0.330707	no
Rps19	0.588991	1.35272	0.0646	0.126222	no
Piga	0.588679	1.18663	0.02535	0.057579	no
Rtl1	0.588483	0	1	1	no
Zfp941	0.588459	2.05208	0.00015	0.000615	yes
Atg4a	0.587288	0.42271	0.44825	0.578777	no
Chuk	0.586854	2.18241	5.00E-05	0.00022	yes
Cdh1	0.586691	2.87864	5.00E-05	0.00022	yes
Arfgap3	0.586629	2.76183	5.00E-05	0.00022	yes
2510009E07Rik	0.586527	2.8613	5.00E-05	0.00022	yes
Cacna1b	0.586341	2.72584	5.00E-05	0.00022	yes
Rps18	0.585806	1.95158	0.01905	0.045164	yes
Ppp1r1c	0.585756	2.66216	5.00E-05	0.00022	yes
Nkiras2	0.584677	2.24067	0.00015	0.000615	yes
Fam189a2	0.583951	2.31036	5.00E-05	0.00022	yes
Slc8a1	0.583455	1.93272	5.00E-05	0.00022	yes
A930012L18Rik	0.583319	0	1	1	no
Emp3	0.582727	1.74095	0.00085	0.002983	yes
Ermn	0.582453	0	1	1	no
Rrp36	0.582413	1.69321	0.00535	0.015044	yes
Frat2	0.582351	1.69507	0.0034	0.010109	yes
Skp1a	0.58234	2.7161	5.00E-05	0.00022	yes
Gm17762	0.582317	0	1	1	no
Fzd5	0.582035	1.13726	0.0241	0.055165	no
Dbndd2	0.581578	2.09636	5.00E-05	0.00022	yes
Yeats4	0.581222	2.37326	0.0001	0.000422	yes
Dda1	0.58121	2.00373	0.00025	0.000985	yes
Gm10516	0.581131	0.925408	0.06315	0.123882	no
Nipal2	0.58107	2.22235	5.00E-05	0.00022	yes
Grk6	0.581058	2.43583	5.00E-05	0.00022	yes
Cfp	0.580561	0.799821	0.16275	0.266799	no
Fam102b	0.580411	2.78099	5.00E-05	0.00022	yes

Rps27,Rps27rt	0.580229	0.628343	0.2731	0.397981	no
Tspan5	0.579594	2.85989	5.00E-05	0.00022	yes
Zfp28	0.579527	1.22094	0.0222	0.0515	no
Ssna1	0.579477	2.21519	0.0009	0.003139	yes
C77080	0.579467	2.18325	5.00E-05	0.00022	yes
Rbm25	0.578775	2.72728	5.00E-05	0.00022	yes
Fbxo22	0.578546	2.60938	5.00E-05	0.00022	yes
Lclat1	0.578095	2.58285	5.00E-05	0.00022	yes
Rnf7	0.578093	3.10224	5.00E-05	0.00022	yes
Eef1g	0.577869	2.2327	0.0001	0.000422	yes
Bbs9	0.577496	1.88218	0.0002	0.000803	yes
Myc	0.576965	1.47883	0.00455	0.013069	yes
Ccdc85a	0.576798	2.50848	5.00E-05	0.00022	yes
Taf4a	0.576539	1.63999	0.0019	0.00608	yes
Lypd6b	0.576289	1.52985	0.0051	0.014464	yes
Irf7	0.575883	1.18201	0.01995	0.046987	yes
Pten	0.575826	2.7083	5.00E-05	0.00022	yes
Tmem256	0.575684	3.20695	0.0005	0.00185	yes
Tcof1	0.575671	1.91611	0.0003	0.001164	yes
Raph1	0.575653	2.74091	5.00E-05	0.00022	yes
Rnps1	0.575491	1.88158	0.00015	0.000615	yes
37499	0.575316	2.63512	5.00E-05	0.00022	yes
Taf9b	0.575073	2.18474	5.00E-05	0.00022	yes
Vav3	0.574986	1.99119	5.00E-05	0.00022	yes
Clk2	0.574803	1.43503	0.0041	0.011903	yes
3110009E18Rik	0.574216	0.432051	0.39865	0.530374	no
Tmem106a	0.573767	1.49741	0.0081	0.021701	yes
Arrdc2	0.573562	1.62707	0.00295	0.008927	yes
Xaf1	0.573542	1.19508	0.01655	0.040097	yes
Kdsr	0.573182	2.50515	5.00E-05	0.00022	yes
Trim46	0.572864	2.20538	5.00E-05	0.00022	yes
Zadh2	0.572727	2.59405	5.00E-05	0.00022	yes
Plekha6	0.572717	2.66581	5.00E-05	0.00022	yes
Slc9a3r2	0.572706	2.52281	5.00E-05	0.00022	yes
Arl10	0.571952	1.7158	0.0055	0.015427	yes
Pwwp2a	0.571673	1.60014	0.0014	0.004657	yes
Palb2	0.571155	0	1	1	no
2900056M20Rik	0.570238	1.94197	5.00E-05	0.00022	yes
Ak8	0.570018	0.7291	0.14125	0.238387	no
Rabgap1l	0.569961	2.61904	5.00E-05	0.00022	yes
Gtf3a	0.569858	1.65637	0.00535	0.015044	yes
Mrgpre	0.569352	2.24607	0.0001	0.000422	yes
Tmem29	0.569189	1.57845	0.00195	0.006219	yes
Ccdc62	0.56883	0	1	1	no
Gadd45g	0.568768	2.11373	0.0004	0.001513	yes
Fam63a	0.568256	2.70315	5.00E-05	0.00022	yes
Leo1	0.568172	2.24396	5.00E-05	0.00022	yes
Rbm5	0.568148	2.61689	5.00E-05	0.00022	yes
Ankrd24	0.568032	1.8013	0.00095	0.003299	yes
Lrch4	0.567225	1.8387	0.00065	0.002343	yes
Zmym6	0.567157	1.67011	0.0009	0.003139	yes
Rep15	0.567072	0	1	1	no
Jade3	0.566928	1.22081	0.01705	0.041135	yes

Gtpbp2	0.566597	2.23986	5.00E-05	0.00022	yes
Spag7	0.566485	2.15372	5.00E-05	0.00022	yes
Apol8	0.566339	0.985395	0.07685	0.145466	no
Luc7l2	0.565993	2.37288	5.00E-05	0.00022	yes
Mbnl2	0.565373	2.43605	5.00E-05	0.00022	yes
Atp8b5	0.56529	0	1	1	no
Pkp4	0.565151	2.24329	5.00E-05	0.00022	yes
Angptl6	0.564899	0.768226	0.12335	0.213612	no
Adipoq	0.564876	0	1	1	no
Tifa	0.564829	2.00702	0.0003	0.001164	yes
Banp	0.564802	1.57459	0.0018	0.005802	yes
Cisd3	0.564712	2.74177	5.00E-05	0.00022	yes
Zfp185	0.564535	0	1	1	no
Tex9	0.564528	1.38138	0.0056	0.015668	yes
Pgls	0.564397	2.25645	0.00035	0.001342	yes
6230400D17Rik	0.564178	0	1	1	no
Supt4a	0.564069	1.66943	0.01975	0.046599	yes
Insl5	0.56396	0	1	1	no
Abcg3	0.563864	0	1	1	no
Stk38	0.5632	1.7403	0.00115	0.00391	yes
Cngb1	0.562901	0	1	1	no
Zfp738	0.562828	1.9454	0.0002	0.000803	yes
Stat2	0.562665	2.545	5.00E-05	0.00022	yes
Cnr2	0.56262	0	1	1	no
Lyar	0.562108	1.42551	0.01365	0.033938	yes
Cml2	0.561946	0	1	1	no
Tmem51os1	0.561849	0	1	1	no
H2-Q5	0.561666	0	1	1	no
Sh2b2	0.561487	0.970088	0.07005	0.13508	no
Smim22	0.561441	0	1	1	no
Gp1bb	0.56126	0.411264	0.4027	0.534155	no
AK010878	0.56122	0.558015	0.26685	0.39118	no
Hdac10	0.560906	1.62131	0.00125	0.00422	yes
Camkk2	0.560455	2.16342	5.00E-05	0.00022	yes
Igsf9	0.560102	0	1	1	no
Rbfox1	0.560077	2.62088	5.00E-05	0.00022	yes
Wdr81	0.559757	2.1608	5.00E-05	0.00022	yes
Fam107b	0.55974	2.60049	5.00E-05	0.00022	yes
Tpcn2	0.558778	1.1744	0.02755	0.061783	no
Zfp354a	0.558463	1.09699	0.0377	0.080374	no
A230050P20Rik	0.558418	1.42067	0.0143	0.035369	yes
Hspb11	0.558379	1.57946	0.0448	0.093321	no
Lpar2	0.55816	0	1	1	no
Dnajc17	0.558092	0.655607	0.29275	0.420246	no
Cd34	0.558058	2.42805	5.00E-05	0.00022	yes
Nin	0.557185	1.77396	0.0005	0.00185	yes
Cobl	0.556886	2.50691	5.00E-05	0.00022	yes
Rnf44	0.556502	2.48747	5.00E-05	0.00022	yes
Abcc6	0.556348	0	1	1	no
St6galnac2	0.556242	0.919535	0.0983	0.177122	no
9930012K11Rik	0.556145	0.877884	0.08245	0.153654	no
Ccdc151	0.555607	0	1	1	no
Pitpnm2	0.555205	2.5693	5.00E-05	0.00022	yes

Trpv1	0.555155	2.6973	5.00E-05	0.00022	yes
Scn9a	0.554972	2.40597	5.00E-05	0.00022	yes
Fbxl12	0.55478	0.643463	0.24335	0.365086	no
Ckap5	0.554742	2.52795	5.00E-05	0.00022	yes
Rtel1	0.5546	1.47967	0.0035	0.01036	yes
Plekho1	0.55456	2.00987	0.00065	0.002343	yes
9330159F19Rik	0.55447	2.54816	5.00E-05	0.00022	yes
Ppp1r35	0.554264	1.68283	0.00975	0.025413	yes
Cyb5	0.554173	2.86071	5.00E-05	0.00022	yes
Zbtb44	0.554134	1.9971	0.0001	0.000422	yes
Qdpr	0.554112	2.95246	5.00E-05	0.00022	yes
Ptpr	0.554033	2.26936	5.00E-05	0.00022	yes
BC029214	0.553959	1.69283	0.00725	0.019654	yes
Lonrf1	0.553948	2.26129	5.00E-05	0.00022	yes
Dync1i2	0.553589	2.49201	5.00E-05	0.00022	yes
Arhgef18	0.553243	2.38777	5.00E-05	0.00022	yes
Trmt1	0.55324	1.90785	0.00035	0.001342	yes
Chrm4	0.553097	1.365	0.01285	0.032203	yes
Nox1	0.55301	0	1	1	no
Nubpl	0.552539	1.12034	0.06365	0.124733	no
Dapk3	0.552273	1.97679	0.0003	0.001164	yes
Snhg4	0.552055	0.836007	0.09345	0.169813	no
Ankra2	0.551951	1.82863	0.0002	0.000803	yes
Kdelc2	0.551767	1.94843	0.00015	0.000615	yes
Dolpp1	0.551756	1.83508	0.0011	0.00376	yes
Gpr176	0.551675	1.69347	0.0011	0.00376	yes
Lats2	0.55165	2.31177	5.00E-05	0.00022	yes
Ppp1r3fos	0.551389	0	1	1	no
Nme4	0.550515	0.786368	0.22975	0.349993	no
Sec61g	0.550319	0	1	1	no
Srsf9	0.550198	1.63807	0.00095	0.003299	yes
A530050N04Rik	0.549777	0	1	1	no
Ypel3	0.549773	2.52432	5.00E-05	0.00022	yes
Rfc5	0.549167	0.793047	0.1634	0.267732	no
Snx8	0.549028	1.8838	0.00015	0.000615	yes
Parp11	0.548998	1.99496	0.0003	0.001164	yes
Gramd1c	0.548782	0.803617	0.1057	0.187942	no
Slc35f5	0.548576	2.31642	5.00E-05	0.00022	yes
Apex2	0.548559	1.01415	0.0686	0.132883	no
Calcb	0.548547	3.15644	5.00E-05	0.00022	yes
Pola2	0.548115	1.2492	0.0135	0.033622	yes
Agfg1	0.548095	2.64197	5.00E-05	0.00022	yes
Mrps6	0.547856	1.34819	0.00705	0.019182	yes
Ezh2	0.547769	0.902852	0.06965	0.134465	no
Sema4b	0.547765	2.36195	5.00E-05	0.00022	yes
Mtmr14	0.547207	2.17261	0.0001	0.000422	yes
2610203C20Rik	0.547113	1.32694	0.0076	0.02049	yes
BC030867	0.546994	0.780943	0.15205	0.252883	no
Kcnab1	0.546908	2.62896	5.00E-05	0.00022	yes
Trappc5	0.546847	2.23359	5.00E-05	0.00022	yes
Tspan1	0.546268	0	1	1	no
Epb4.1I5	0.546068	1.27815	0.0106	0.027323	yes
Zbtbd6	0.546067	0	1	1	no

Nfkbil1	0.546035	1.32629	0.02215	0.051402	no
Smad1	0.545506	2.41333	5.00E-05	0.00022	yes
Stk19	0.545269	1.77274	0.0044	0.012685	yes
AI414108	0.544937	1.85131	0.0007	0.002506	yes
Gigyf1	0.544541	2.03485	0.0002	0.000803	yes
Spag8	0.544459	0	1	1	no
Pcdha9	0.544457	0.351358	0.4758	0.604756	no
Cyp26b1	0.544091	0.93071	0.06315	0.123882	no
Osbpl3	0.543907	2.4391	5.00E-05	0.00022	yes
Mafg	0.543569	2.49217	5.00E-05	0.00022	yes
Gpr61	0.543357	1.55575	0.00385	0.011268	yes
Lactb	0.543335	1.53523	0.00605	0.016792	yes
Nr6a1	0.543299	1.38193	0.0072	0.01953	yes
Map4k5	0.543191	0.953614	0.07295	0.139396	no
Usp49	0.543082	1.67851	0.00135	0.004516	yes
Prkx	0.542586	2.60869	5.00E-05	0.00022	yes
A230001M10Rik	0.542498	0	1	1	no
Fkbp1b	0.542428	3.10762	5.00E-05	0.00022	yes
Tada1	0.542389	0.981185	0.0738	0.140696	no
AI846148	0.542294	1.51355	0.00295	0.008927	yes
Dvl1	0.541826	2.36161	5.00E-05	0.00022	yes
Tfrc	0.541763	2.57427	5.00E-05	0.00022	yes
Eif1a	0.541644	2.53326	5.00E-05	0.00022	yes
Cacna1c	0.541053	2.45656	5.00E-05	0.00022	yes
Zbtb10	0.540952	2.13626	0.0001	0.000422	yes
Tom1l1	0.540933	1.24657	0.01445	0.0357	yes
Lsr	0.540892	0.822427	0.1011	0.181011	no
Uchl4	0.540774	0.318281	0.53505	0.658061	no
Hcn4	0.540771	1.48929	0.0062	0.017151	yes
Cd97	0.540769	1.32766	0.009	0.023696	yes
Batf3	0.540716	0	1	1	no
Nmi	0.540498	1.1737	0.01985	0.046793	yes
Ppapdc1b	0.540333	1.54162	0.00815	0.021826	yes
Pkd1l2	0.540259	0	1	1	no
Pcdhgb8	0.539837	0	1	1	no
Stt3b	0.53979	2.529	5.00E-05	0.00022	yes
Snhg8	0.539696	0.847808	0.08865	0.162582	no
Mrpl57	0.539452	1.65322	0.0028	0.008532	yes
9430038I01Rik	0.539272	0.756589	0.2195	0.337714	no
Prorsd1	0.538967	0.871757	0.08165	0.152528	no
Hoxa1	0.538941	0	1	1	no
Gin1	0.538839	1.16105	0.0375	0.079986	no
Ift140	0.538794	2.15903	5.00E-05	0.00022	yes
A230070E04Rik	0.538704	0.0716906	0.8141	0.879963	no
Man1c1	0.538532	2.21585	5.00E-05	0.00022	yes
Mocs3	0.538345	1.2714	0.02785	0.062371	no
Slco4a1	0.538282	0.774062	0.14335	0.241287	no
2010320M18Rik	0.538214	1.20846	0.0785	0.14804	no
Acap3	0.538178	2.45053	5.00E-05	0.00022	yes
9030404E10Rik	0.53804	0	1	1	no
Enkur	0.537762	0	1	1	no
Lmo2	0.537719	1.33777	0.0085	0.022613	yes
Cenpl	0.537538	0.916229	0.0668	0.129889	no

Mob3a	0.537393	2.07405	0.0001	0.000422	yes
Pkp2	0.537167	0.764917	0.1603	0.26363	no
B230217O12Rik	0.536686	1.67906	0.0027	0.008273	yes
2610001J05Rik	0.536188	2.33612	5.00E-05	0.00022	yes
Acy1	0.536159	0.905306	0.07215	0.138226	no
Zfp672	0.535553	0.747575	0.12395	0.2144	no
Ctla2b	0.535552	0.437674	0.49895	0.625727	no
Slc22a18	0.535531	1.43003	0.0045	0.012942	yes
Clk3	0.535503	2.20875	5.00E-05	0.00022	yes
Kcnj12	0.535037	2.29899	5.00E-05	0.00022	yes
Armcx4	0.534971	2.26082	5.00E-05	0.00022	yes
Manf	0.534473	2.39728	5.00E-05	0.00022	yes
Syn3	0.534212	0.474196	0.3161	0.445901	no
Fbl	0.53421	0.801711	0.18145	0.291229	no
Elavl3	0.534005	2.6095	5.00E-05	0.00022	yes
Cdcp2	0.533703	0	1	1	no
Rad17	0.533512	1.56459	0.00175	0.00566	yes
Macrodl	0.533424	0.996903	0.09815	0.176947	no
Arrdc1	0.533323	1.73489	0.0006	0.002181	yes
Gale	0.533068	1.99971	0.0005	0.00185	yes
Sdk2	0.533022	1.57847	0.00295	0.008927	yes
BC018507	0.53264	2.42717	5.00E-05	0.00022	yes
Gps2	0.532466	1.40143	0.0175	0.042076	yes
Wsb1	0.532038	2.00195	5.00E-05	0.00022	yes
Stard6	0.532025	0	1	1	no
Wdr63	0.532017	0	1	1	no
Stat6	0.531574	2.49893	5.00E-05	0.00022	yes
Mettl7a1	0.531573	2.31117	0.0001	0.000422	yes
Dcaf15	0.531453	1.54089	0.0054	0.015172	yes
Sdccag8	0.531299	1.3907	0.0107	0.027543	yes
Otop2	0.531117	0	1	1	no
Zfp830	0.53105	1.40169	0.0083	0.022156	yes
Hagh	0.530897	2.33833	5.00E-05	0.00022	yes
Rrnad1	0.530709	0.998511	0.04355	0.091046	no
Mllt10	0.530591	1.363	0.00835	0.022272	yes
Dnajc5b	0.530103	0.406636	0.37545	0.50693	no
Ppwd1	0.529964	1.02202	0.0606	0.119783	no
Frrs1	0.529653	0	1	1	no
Pik3cd	0.528992	2.28553	5.00E-05	0.00022	yes
Mink1	0.528686	2.47335	5.00E-05	0.00022	yes
Tnfsf15	0.528659	0	1	1	no
Piezo2	0.528435	2.26789	5.00E-05	0.00022	yes
Syng3	0.527727	2.74801	5.00E-05	0.00022	yes
S100g	0.527683	0	1	1	no
Rslcan18	0.527668	0	1	1	no
Ikzf1	0.52731	0.918668	0.06415	0.125417	no
Wdr34	0.527296	1.43029	0.012	0.030371	yes
Tmem191c	0.527283	0.887783	0.12445	0.215124	no
Atxn7l2	0.526573	0.896373	0.06955	0.134331	no
Adc	0.526552	2.60132	5.00E-05	0.00022	yes
Rbm4	0.525634	0.899147	0.0962	0.173905	no
4933407K13Rik	0.525615	0	1	1	no
Mtmr1	0.525045	1.92913	0.00045	0.001682	yes

Chd3	0.524471	2.50447	5.00E-05	0.00022	yes
Ism1	0.524442	1.03871	0.05305	0.107158	no
Crmp1	0.524306	2.4265	5.00E-05	0.00022	yes
Zfp292	0.524223	1.94797	0.0001	0.000422	yes
Lifr	0.524095	1.9426	5.00E-05	0.00022	yes
Paqr3	0.524089	0.798568	0.10575	0.187942	no
Vps4b	0.523895	2.56366	5.00E-05	0.00022	yes
Vamp4	0.523782	2.5817	5.00E-05	0.00022	yes
Fam89b	0.523695	2.33997	5.00E-05	0.00022	yes
Plekha3	0.523484	2.13413	5.00E-05	0.00022	yes
Csrnp3	0.523468	2.42055	5.00E-05	0.00022	yes
Mtss1	0.523443	2.2903	5.00E-05	0.00022	yes
Rnf38	0.523292	2.2448	5.00E-05	0.00022	yes
Tpgs1	0.523282	2.35974	0.0001	0.000422	yes
Irg1	0.523219	0	1	1	no
1810043H04Rik	0.523139	1.65472	0.05165	0.104905	no
Ap4m1	0.523052	1.32689	0.01905	0.045164	yes
Prmt2	0.523016	2.34941	5.00E-05	0.00022	yes
Atxn7	0.523013	1.74826	0.0007	0.002506	yes
Fbxl8	0.522811	1.02878	0.0638	0.124935	no
Pnp	0.522604	1.27262	0.01845	0.043993	yes
Mef2a	0.522374	2.45203	5.00E-05	0.00022	yes
5031434O11Rik	0.522079	0	1	1	no
Cpm	0.52187	0	1	1	no
Meig1	0.521533	0	1	1	no
Irf9	0.521424	1.56265	0.0022	0.006933	yes
Mcf2l	0.521381	2.34523	5.00E-05	0.00022	yes
Fbrs	0.521346	1.68741	0.00065	0.002343	yes
Hras	0.521161	2.24286	5.00E-05	0.00022	yes
Gm10548	0.520917	0	1	1	no
Ralbp1	0.520898	2.43905	5.00E-05	0.00022	yes
Cdyl2	0.520635	2.04257	0.00015	0.000615	yes
Gprin2	0.520528	0.922172	0.10375	0.185156	no
Acly	0.5202	2.17093	0.0001	0.000422	yes
Parp8	0.520186	2.03683	0.00015	0.000615	yes
Adamts16	0.519417	0	1	1	no
Efcab1	0.519353	1.11968	0.06635	0.129185	no
Osbpl6	0.519334	2.25134	5.00E-05	0.00022	yes
Rbm15b	0.519304	2.06715	0.00015	0.000615	yes
Krt10	0.519251	0.738468	0.18525	0.295789	no
Pdcd2	0.518792	1.79929	0.00345	0.010237	yes
Zmym5	0.51877	1.8836	0.00025	0.000985	yes
Bid	0.518716	2.00032	0.0003	0.001164	yes
Klc4	0.518195	2.0423	0.00025	0.000985	yes
Pdcl3	0.518132	2.13421	0.0002	0.000803	yes
Mapkapk5	0.517958	1.86122	0.001	0.003451	yes
Rab39	0.517895	2.12962	5.00E-05	0.00022	yes
2610034B18Rik	0.517728	2.00064	0.0004	0.001513	yes
Swt1	0.516646	1.41078	0.008	0.021468	yes
Gylt1b	0.516511	0	1	1	no
Hirip3	0.516383	1.10859	0.0397	0.084043	no
Mapk11	0.51627	2.54355	5.00E-05	0.00022	yes
Abrac1	0.516127	1.4001	0.03705	0.079204	no

Ccdc163	0.516057	0.794862	0.1872	0.298185	no
Epcam	0.515984	0	1	1	no
Lag3	0.515311	0	1	1	no
Rplp1	0.515082	3.54713	5.00E-05	0.00022	yes
Map3k14	0.514862	1.17316	0.0249	0.056683	no
Bag1	0.514619	2.74912	5.00E-05	0.00022	yes
Vamp2	0.514262	2.48538	5.00E-05	0.00022	yes
Actr5	0.513745	0.936877	0.0592	0.117629	no
Hn1	0.513663	2.69893	5.00E-05	0.00022	yes
Fam72a	0.513443	0	1	1	no
Mnt	0.51341	2.21824	5.00E-05	0.00022	yes
Usp12	0.513238	2.47967	5.00E-05	0.00022	yes
Mnda	0.513137	0	1	1	no
Slc1a6	0.513069	1.2202	0.02785	0.062371	no
Aff3	0.512598	2.31132	5.00E-05	0.00022	yes
Nxf1	0.512536	1.67402	0.00075	0.00267	yes
Hist3h2a	0.512515	1.95314	0.01955	0.046159	yes
Syt10	0.51222	0	1	1	no
Gpatch11	0.511949	2.11764	5.00E-05	0.00022	yes
H2-Ke2	0.511846	1.75612	0.0004	0.001513	yes
Usp18	0.511813	0.904567	0.1049	0.186907	no
Gm10640	0.511802	0	1	1	no
Lsmem1	0.51177	0	1	1	no
Ank3	0.511751	2.29901	5.00E-05	0.00022	yes
Nvl	0.511689	1.92758	0.0006	0.002181	yes
Dazap1	0.510928	0.22563	0.6622	0.763948	no
Fbxw4	0.510643	1.07411	0.03315	0.07217	no
Abhd5	0.510529	2.10235	0.00015	0.000615	yes
Vti1b	0.510455	2.27158	5.00E-05	0.00022	yes
Disp2	0.50993	2.36565	5.00E-05	0.00022	yes
Zfp428	0.509617	1.33174	0.0067	0.018343	yes
Tmcc3	0.509426	2.1284	5.00E-05	0.00022	yes
Lrriq4	0.509212	0	1	1	no
Zkscan6	0.508975	1.23449	0.0232	0.053381	no
Atg16l1	0.508887	2.12389	5.00E-05	0.00022	yes
Grrp1	0.50874	0.73885	0.21555	0.333299	no
Polk	0.508732	1.4506	0.00635	0.017515	yes
4921504A21Rik	0.508662	0.665532	0.17955	0.288948	no
2610015P09Rik	0.507962	0.929821	0.0822	0.153339	no
Rnf31	0.507931	1.75754	0.0008	0.002828	yes
Mcmdc2	0.507729	0	1	1	no
D630041G03Rik	0.507694	0.68133	0.16335	0.267683	no
Mtm1	0.507218	1.55749	0.00185	0.005939	yes
Eif4e3	0.507167	2.20468	0.0001	0.000422	yes
Prkrip1	0.507151	1.60826	0.0047	0.013433	yes
Tmem236	0.507077	0	1	1	no
Gm6654	0.507075	0.275693	0.58655	0.702061	no
Filip1	0.507021	2.07234	5.00E-05	0.00022	yes
Rps8	0.50701	1.12392	0.02295	0.05287	no
Ubn2	0.506979	1.85831	0.00025	0.000985	yes
Ccp110	0.506693	2.4203	5.00E-05	0.00022	yes
Zfp954	0.506634	1.55548	0.0054	0.015172	yes
Erich1	0.50663	1.26504	0.02805	0.062745	no

Galk2	0.506162	1.67352	0.0026	0.008011	yes
Zfp703	0.506058	1.9495	0.00015	0.000615	yes
Tubb5	0.506023	2.08748	0.0003	0.001164	yes
Crhr2	0.506	0.623874	0.1941	0.306526	no
Slc6a20b	0.505752	0	1	1	no
Mettl7a2	0.505557	0	1	1	no
Cmss1	0.505518	1.1609	0.057	0.11394	no
Slc45a2	0.505392	0	1	1	no
Gm3414	0.505051	0.601402	0.242	0.363678	no
Atg9a	0.504857	2.33112	5.00E-05	0.00022	yes
Ahsa2	0.504601	1.02216	0.0415	0.087255	no
Ppp3cc	0.504282	2.1739	5.00E-05	0.00022	yes
Gm13152	0.504176	1.07509	0.07445	0.141691	no
5330426P16Rik	0.504105	1.4523	0.0034	0.010109	yes
Luzp2	0.504099	2.44944	5.00E-05	0.00022	yes
Ccdc82	0.504078	1.64555	0.0018	0.005802	yes
Vbp1	0.503905	2.56294	5.00E-05	0.00022	yes
Ccdc34	0.503732	1.08657	0.0267	0.060141	no
Arhgap6	0.503707	0.823127	0.09505	0.172201	no
Tmem254c	0.50353	0	1	1	no
Lrrc8b	0.50348	2.28111	5.00E-05	0.00022	yes
Oraov1	0.503426	2.03264	0.00045	0.001682	yes
Rbck1	0.503262	2.04926	0.0001	0.000422	yes
Mvd	0.50291	1.96003	0.0001	0.000422	yes
Map3k19	0.502739	0	1	1	no
Elk3	0.502735	1.33925	0.00735	0.019896	yes
Zfp583	0.502648	0.933979	0.0807	0.151072	no
A530032D15Rik	0.502529	0	1	1	no
Xkr4	0.502441	1.11964	0.03375	0.073247	no
Nup62	0.502041	1.07656	0.0494	0.10114	no
Chit1	0.501877	0	1	1	no
AI317395	0.501702	0	1	1	no
Dnajc12	0.501697	1.40038	0.0062	0.017151	yes
A630066F11Rik	0.501445	0.186104	0.7242	0.815426	no
9530080O11Rik	0.50126	0	1	1	no
Zfp72	0.501024	0.960598	0.0916	0.167023	no
Zfp280d	0.500493	1.67607	0.0016	0.005236	yes
Ston2	0.50025	2.06886	0.00015	0.000615	yes
Slc7a6os	0.50025	1.42098	0.0158	0.038533	yes
Fgfr1op	0.50003	1.73615	0.00045	0.001682	yes
Uros	0.500026	2.00717	0.0006	0.002181	yes
Id2	0.499721	1.94444	0.0011	0.00376	yes
Gm16039	0.499592	1.33118	0.0152	0.037255	yes
Tial1	0.499578	2.1372	5.00E-05	0.00022	yes
Asun	0.499518	1.44902	0.0082	0.02192	yes
Fxyd6	0.499503	2.3938	5.00E-05	0.00022	yes
BC005561	0.499319	1.2697	0.0154	0.037682	yes
9330151L19Rik	0.498797	0.891432	0.0807	0.151072	no
Wiz	0.498441	1.98235	5.00E-05	0.00022	yes
Phactr1	0.498369	2.31897	5.00E-05	0.00022	yes
Sync	0.498192	1.06647	0.05575	0.111896	no
Pxmp2	0.498181	1.04368	0.09255	0.168454	no
Eil	0.497982	1.39216	0.01	0.025958	yes

Ppp1r3d	0.49796	1.22932	0.0232	0.053381	no
Slc40a1	0.497331	0.973371	0.0687	0.133057	no
Trak2	0.496591	2.30304	5.00E-05	0.00022	yes
Trub1	0.496502	1.52148	0.0028	0.008532	yes
Spats1	0.496255	0.557102	0.36145	0.493689	no
Gas8	0.496097	1.78144	0.0017	0.005514	yes
1110004E09Rik	0.495898	1.62522	0.0082	0.02192	yes
Rpl6	0.495643	1.56847	0.00975	0.025413	yes
Il17ra	0.495629	0.823715	0.11785	0.205321	no
Pcdha12	0.495475	0.382525	0.43855	0.570136	no
Tpk1	0.495428	1.32255	0.01335	0.033305	yes
1700034H15Rik	0.495405	0	1	1	no
Mapk1ip1	0.495201	1.48331	0.00265	0.008146	yes
3110052M02Rik	0.495057	1.47606	0.0058	0.016179	yes
Mfsd4	0.494706	1.13803	0.02345	0.053881	no
Zswim3	0.49469	1.26642	0.0176	0.042247	yes
Camta1	0.494348	2.23191	5.00E-05	0.00022	yes
Snopc3	0.494222	1.25424	0.0318	0.069746	no
Abi1	0.494103	2.21311	5.00E-05	0.00022	yes
Aaed1	0.493859	1.41891	0.02475	0.056429	no
Fam53c	0.493754	2.35334	5.00E-05	0.00022	yes
Appl2	0.493476	1.9396	0.0003	0.001164	yes
Caskin1	0.493336	2.2755	5.00E-05	0.00022	yes
Wbp4	0.492866	2.03597	0.0003	0.001164	yes
Cr2	0.492655	0	1	1	no
Anapc11	0.492626	2.08282	0.0001	0.000422	yes
Hoxa4	0.492471	0.627499	0.28605	0.412279	no
Xbp1	0.492163	2.04217	5.00E-05	0.00022	yes
Zfp551	0.49204	0.806343	0.1403	0.237056	no
Nle1	0.491841	1.10045	0.0517	0.104975	no
Prpf38b	0.491699	1.93231	0.0002	0.000803	yes
Dalrd3	0.491646	1.00816	0.0755	0.143401	no
Pmm1	0.491573	2.23867	5.00E-05	0.00022	yes
Stx4a	0.49148	2.26729	5.00E-05	0.00022	yes
Tmem51	0.491435	1.48949	0.00865	0.022947	yes
Fbxl16	0.491131	2.38025	5.00E-05	0.00022	yes
Pydc3	0.490928	0	1	1	no
Mospd1	0.489619	1.58855	0.00185	0.005939	yes
Mrpl27	0.489335	1.95655	0.00465	0.013316	yes
Hexim1	0.48929	2.2133	5.00E-05	0.00022	yes
Mtfr1l	0.4891	2.1966	5.00E-05	0.00022	yes
Parp12	0.488947	1.58311	0.00305	0.009188	yes
Rbm17	0.488909	2.068	0.0004	0.001513	yes
Brap	0.48884	2.2942	5.00E-05	0.00022	yes
Mcf2	0.48874	2.05747	5.00E-05	0.00022	yes
Uhrf1bp1l	0.488592	2.35725	5.00E-05	0.00022	yes
Rac2	0.488389	0	1	1	no
Pagr1a	0.488239	1.98849	0.00065	0.002343	yes
Psip1	0.488218	2.11295	0.0001	0.000422	yes
Srrt	0.488117	2.00928	5.00E-05	0.00022	yes
Meis3	0.487954	1.57993	0.00115	0.00391	yes
Zfp541	0.487712	0	1	1	no
Wdsub1	0.487695	1.39933	0.00595	0.016553	yes

B4galnt2	0.487241	0	1	1	no
Grik4	0.486821	2.21953	5.00E-05	0.00022	yes
H2-M10.2	0.486799	0	1	1	no
Trappc6a	0.486732	1.46465	0.03155	0.069266	no
Rpl14	0.48658	2.16113	0.0006	0.002181	yes
Hspb8	0.486452	2.55061	5.00E-05	0.00022	yes
AA987161	0.486265	1.42979	0.0052	0.014691	yes
Dis3	0.486207	1.08101	0.0406	0.085621	no
Ino80d	0.485918	2.01187	0.0001	0.000422	yes
Rad9a	0.485839	0.520033	0.30075	0.428899	no
2310003H01Rik	0.485411	1.5666	0.00255	0.007875	yes
Tubb2a	0.485304	2.42639	5.00E-05	0.00022	yes
PnlDC1	0.485282	0	1	1	no
Fam109a	0.484981	1.30063	0.01845	0.043993	yes
Fbrsl1	0.484759	1.4036	0.00635	0.017515	yes
Tprgl	0.484481	2.57076	5.00E-05	0.00022	yes
Cbwd1	0.484367	1.43885	0.00365	0.010754	yes
Il10rb	0.484197	2.27049	5.00E-05	0.00022	yes
Hoxb5	0.484163	1.78124	0.0012	0.004068	yes
Pdzd4	0.483679	2.14233	5.00E-05	0.00022	yes
Zmynd8	0.483633	1.92572	0.00015	0.000615	yes
Sltm	0.483407	1.9346	5.00E-05	0.00022	yes
Igsf3	0.48339	2.30212	5.00E-05	0.00022	yes
Xrcc1	0.483335	1.32115	0.0176	0.042247	yes
Bloc1s3	0.483123	1.59037	0.00345	0.010237	yes
C920006O11Rik	0.483	0.631139	0.28085	0.406873	no
Hs1bp3	0.482981	1.60525	0.00205	0.006503	yes
Samd10	0.482775	1.86477	0.0007	0.002506	yes
Chkb	0.482771	1.59285	0.00115	0.00391	yes
Trim36	0.48266	2.18486	5.00E-05	0.00022	yes
Rps9	0.482634	3.11251	5.00E-05	0.00022	yes
H2afy2	0.482617	1.19299	0.01645	0.039913	yes
Med20	0.48239	1.76418	0.00165	0.00538	yes
Icosl	0.482146	0.859182	0.1092	0.192782	no
Ahnak	0.482019	0.946222	0.0513	0.104322	no
Tceal8	0.481904	1.85712	0.00025	0.000985	yes
Dpp3	0.481799	2.32094	5.00E-05	0.00022	yes
Rdh1	0.48088	0	1	1	no
Evi5l	0.480827	2.137	0.00035	0.001342	yes
B3gnt2	0.480799	2.04574	5.00E-05	0.00022	yes
Pex6	0.480673	1.99669	0.0001	0.000422	yes
Gm20748	0.480672	0.670364	0.23345	0.354206	no
Mllt3	0.48035	1.89762	0.0002	0.000803	yes
Pde6h	0.48035	0	1	1	no
Eepd1	0.480338	2.42877	5.00E-05	0.00022	yes
Pifo	0.4802	0.337014	0.5862	0.701716	no
Hist1h2bl	0.480108	0	1	1	no
Lrrc42	0.480088	1.81745	0.00145	0.004804	yes
Tcte1	0.479569	0	1	1	no
Gm16793	0.47917	0.258623	0.66265	0.764202	no
Tmtc4	0.479036	1.93158	0.0003	0.001164	yes
Nol12	0.478986	1.30729	0.01865	0.044374	yes
Wnt9a	0.478913	1.45767	0.00665	0.018232	yes

Rab43	0.478735	1.45546	0.0046	0.013192	yes
Zfp605	0.478489	1.2059	0.02355	0.054046	no
Esm1	0.478362	0.587743	0.2899	0.416786	no
Gm6297	0.478094	0	1	1	no
Tgm7	0.477984	0	1	1	no
3110082I17Rik	0.477969	0.688477	0.2261	0.345983	no
Rpl38	0.477566	0.666234	0.5642	0.683022	no
Gtf2f1	0.477036	2.14144	0.0003	0.001164	yes
Lin54	0.476928	1.53603	0.00245	0.007605	yes
Itga3	0.476892	2.24359	5.00E-05	0.00022	yes
Armc7	0.476811	0.755282	0.172	0.278793	no
Atp6v1f	0.476716	2.87998	5.00E-05	0.00022	yes
Nob1	0.476644	1.57844	0.00555	0.015544	yes
Donson	0.476441	1.31801	0.01665	0.040309	yes
Cdca4	0.475726	0.99244	0.06885	0.13329	no
Chrne	0.475607	0	1	1	no
Mia2	0.475528	0	1	1	no
Rpl31-ps12	0.475425	0.802923	0.1061	0.188362	no
Soga3	0.475031	2.34894	5.00E-05	0.00022	yes
Galnt5	0.474949	1.87917	0.0006	0.002181	yes
Coil	0.474882	1.52139	0.00485	0.01382	yes
Gtse1	0.474882	0	1	1	no
Rnf141	0.474862	1.55495	0.0149	0.036627	yes
Deptor	0.474717	2.20328	5.00E-05	0.00022	yes
2210404O09Rik	0.474712	0.925212	0.09285	0.16893	no
Isl1	0.474682	2.27887	5.00E-05	0.00022	yes
Nav1	0.474638	2.21853	5.00E-05	0.00022	yes
Yeats2	0.474607	1.52567	0.0022	0.006933	yes
Pvrl2	0.4746	1.77112	0.0005	0.00185	yes
Nexn	0.474156	1.62101	0.003	0.009064	yes
Zfp791	0.474147	0.663692	0.22325	0.342253	no
Ttc25	0.474127	0	1	1	no
Tonsl	0.474126	1.20794	0.0234	0.053776	no
Mllt11	0.474103	2.10299	0.0002	0.000803	yes
Pik3ip1	0.473945	1.07854	0.05365	0.108189	no
Ap5z1	0.473906	1.67555	0.0016	0.005236	yes
Lrnf4	0.473637	1.23126	0.019	0.045077	yes
Mphosph6	0.473448	1.12853	0.0664	0.129263	no
Cdk5r2	0.473301	2.39874	5.00E-05	0.00022	yes
Anxa2	0.473175	1.94522	0.00015	0.000615	yes
Mfn1	0.472998	2.16309	5.00E-05	0.00022	yes
Psme2b	0.472935	1.94561	0.0016	0.005236	yes
Runx2	0.472867	0.755221	0.1416	0.238796	no
Ric8	0.472745	2.03317	0.0002	0.000803	yes
Ewsr1	0.472743	1.85678	0.0001	0.000422	yes
Nfkbie	0.472727	1.18155	0.0343	0.074295	no
Hist1h1a	0.472658	0	1	1	no
Ahctf1	0.472479	1.85328	0.0003	0.001164	yes
Tmem50a	0.472257	2.69416	5.00E-05	0.00022	yes
Thop1	0.472188	2.0302	0.00015	0.000615	yes
Zfp1	0.472174	1.12597	0.02335	0.05368	no
Prkab1	0.472056	1.20004	0.03095	0.068254	no
Pot1b	0.472031	1.0458	0.0481	0.098968	no

Cndp2	0.471947	2.10468	5.00E-05	0.00022	yes
Il13ra1	0.471784	1.32158	0.0136	0.033839	yes
Wdr52	0.47177	0	1	1	no
Bnc2	0.4717	1.71416	0.001	0.003451	yes
Cenpc1	0.471618	1.73923	0.0015	0.004953	yes
Rnf125	0.471535	1.73406	0.0037	0.010879	yes
Rab3d	0.471361	2.30987	5.00E-05	0.00022	yes
Tfpt	0.470824	1.19688	0.01645	0.039913	yes
Rcan1	0.470611	2.04342	0.0001	0.000422	yes
Ube2j2	0.470601	0.994821	0.0503	0.102698	no
Ablim3	0.470466	1.95578	0.00015	0.000615	yes
Slc36a1	0.470181	2.21349	5.00E-05	0.00022	yes
Uck2	0.47018	1.9983	0.0007	0.002506	yes
Ccdc77	0.470121	0.498124	0.3686	0.500176	no
Map3k3	0.469239	1.63202	0.00155	0.005095	yes
Siah3	0.469209	1.18915	0.06365	0.124733	no
Sertm1	0.469152	1.34267	0.01325	0.033111	yes
Myef2	0.468235	1.87931	0.0002	0.000803	yes
Lama3	0.467958	0	1	1	no
D6Wsu163e	0.467841	1.87503	0.0008	0.002828	yes
Rnf113a2	0.467677	0.616519	0.2972	0.425025	no
Mppe1	0.467653	0.301125	0.54145	0.663656	no
Dpm2	0.467619	1.89969	0.0029	0.008796	yes
Casp2	0.467617	1.14713	0.03075	0.067846	no
Phip	0.467248	1.92746	0.0003	0.001164	yes
Gm16938	0.467194	0	1	1	no
4933421O10Rik	0.467081	1.00179	0.05615	0.112495	no
Lrrc59	0.467009	2.34879	5.00E-05	0.00022	yes
Polr3d	0.466993	1.39003	0.00515	0.014587	yes
Ncoa4	0.466823	1.59549	0.0014	0.004657	yes
Pm20d2	0.466721	1.08623	0.0339	0.073549	no
Shisa5	0.46663	1.9455	5.00E-05	0.00022	yes
Aurka	0.466515	0.860701	0.08645	0.159518	no
Vps36	0.466425	1.76543	0.0027	0.008273	yes
Sh3gl1	0.466396	0.943318	0.05975	0.118455	no
Acsf5	0.466289	2.1807	5.00E-05	0.00022	yes
Srsf12	0.466233	1.22711	0.02485	0.056589	no
Islr2	0.466078	1.32757	0.0114	0.029069	yes
Pcf11	0.466071	1.60298	0.00135	0.004516	yes
Slc26a6	0.46587	0.933276	0.0814	0.152146	no
Pdcd7	0.465746	1.71388	0.0016	0.005236	yes
Unc13a	0.465714	2.18437	5.00E-05	0.00022	yes
Nxf3	0.46547	0	1	1	no
Ddx54	0.465444	1.96204	0.0001	0.000422	yes
Tpm1	0.465058	2.1753	5.00E-05	0.00022	yes
Phf20l1	0.464839	1.68085	0.0012	0.004068	yes
Dnm2	0.46469	1.90214	0.0004	0.001513	yes
Smc5	0.464645	1.63808	0.0014	0.004657	yes
Gm10814	0.464635	0.155067	0.76815	0.847629	no
Arid4a	0.464565	1.67913	0.00095	0.003299	yes
Ush2a	0.464454	0	1	1	no
Arhgap18	0.464441	0.889878	0.09415	0.170757	no
Mlf1	0.464318	0.700934	0.15735	0.259744	no

Snap29	0.464236	0.852117	0.09035	0.165038	no
Dock8	0.464234	1.33716	0.0097	0.025313	yes
Map1s	0.464104	2.04329	5.00E-05	0.00022	yes
Thoc7	0.463998	1.60072	0.00135	0.004516	yes
Jakmip3	0.463933	1.62678	0.0014	0.004657	yes
Fxn	0.463919	0.840031	0.1711	0.277606	no
2900008C10Rik	0.46344	0.838218	0.10005	0.179568	no
Ipmk	0.463383	1.90602	0.0001	0.000422	yes
Pcdha3	0.463145	0.272278	0.57585	0.693201	no
Erp29	0.462925	2.29097	5.00E-05	0.00022	yes
Socs1	0.462675	0.582201	0.2333	0.3541	no
Ccdc74a	0.462656	1.55312	0.0096	0.025081	yes
Pnma1	0.462638	0.90389	0.096	0.173661	no
Slc6a20a	0.462405	0	1	1	no
Fam169a	0.462114	1.8497	0.00045	0.001682	yes
Ifnar1	0.461948	2.15614	5.00E-05	0.00022	yes
Asxl3	0.461944	1.50989	0.0031	0.009315	yes
Cers4	0.461581	2.20187	5.00E-05	0.00022	yes
Spem1	0.461244	0	1	1	no
Rrm1	0.461132	1.53086	0.0034	0.010109	yes
Hist2h2aa1,Hist2h2	0.461061	0	1	1	no
Tbce	0.461058	1.41699	0.00435	0.012551	yes
Rhbdd3	0.461015	0.99734	0.0474	0.097816	no
Ribc1	0.460736	0	1	1	no
1600020E01Rik	0.460699	0.469265	0.32705	0.457794	no
Synj2	0.460591	1.62613	0.00195	0.006219	yes
Atg7	0.460409	1.75161	0.0004	0.001513	yes
S1pr4	0.460377	0	1	1	no
Dcaf6	0.46034	2.1656	5.00E-05	0.00022	yes
Trp53rk	0.460264	0.764169	0.1452	0.243999	no
Pacsin1	0.460261	2.13427	5.00E-05	0.00022	yes
Exosc2	0.460004	1.60034	0.00545	0.015306	yes
Ccdc87	0.459871	0	1	1	no
Atp13a2	0.459655	2.13832	5.00E-05	0.00022	yes
Rpp40	0.459631	1.04903	0.05245	0.106172	no
Ccdc167	0.45962	0.480916	0.33175	0.462713	no
Cbx2	0.459464	0.945582	0.07215	0.138226	no
Arhgdia	0.45944	2.25269	5.00E-05	0.00022	yes
Prr7	0.459376	1.04113	0.073	0.139452	no
Dsc1	0.45936	0	1	1	no
Endov	0.459317	1.49156	0.0036	0.010628	yes
Rai1	0.459281	1.44971	0.0046	0.013192	yes
Vps13a	0.458751	2.06854	5.00E-05	0.00022	yes
Serpina3h	0.458471	0.580497	0.2976	0.425505	no
Ets1	0.458315	1.62887	0.00135	0.004516	yes
Camk2n1	0.458241	2.00282	0.0002	0.000803	yes
Rps5	0.45822	2.80786	5.00E-05	0.00022	yes
Ubxn2b	0.458118	1.38214	0.0085	0.022613	yes
Snapc5	0.45801	2.06078	0.00295	0.008927	yes
Ccdc66	0.457869	0.84257	0.0917	0.167182	no
Psmb8	0.457653	1.35677	0.022	0.051098	no
Tenm1	0.457297	1.37871	0.0073	0.019785	yes
2810013P06Rik	0.456909	1.23877	0.02555	0.057954	no

Rpsa	0.456767	1.4816	0.00225	0.007062	yes
Aars2	0.456142	1.61822	0.00255	0.007875	yes
Actl6a	0.455871	1.48097	0.00755	0.020384	yes
Igsf8	0.454975	2.23288	5.00E-05	0.00022	yes
Fubp1	0.454636	2.01226	0.0001	0.000422	yes
Pcbd2	0.454386	1.63363	0.0419	0.087943	no
Cntrl	0.453991	0.935707	0.0638	0.124935	no
Pml	0.453833	1.24451	0.01335	0.033305	yes
Aph	0.453326	0.685595	0.2555	0.378433	no
Pqbp1	0.453215	1.61067	0.0015	0.004953	yes
Gm10125	0.453103	0	1	1	no
Zfp449	0.452939	1.0959	0.0354	0.076267	no
Rbbp8	0.452937	1.03545	0.0375	0.079986	no
Lpcat1	0.452907	1.65859	0.0035	0.01036	yes
Polb	0.452713	1.71553	0.00335	0.009985	yes
Cir1	0.4527	1.29543	0.01955	0.046159	yes
Nelfe	0.452355	1.2743	0.0113	0.028847	yes
Morc3	0.452325	1.59363	0.0022	0.006933	yes
Acat3	0.452291	0	1	1	no
Tsacc	0.452272	0.57184	0.5161	0.641715	no
Gm2027	0.452106	0	1	1	no
Mpst	0.451933	1.28617	0.0108	0.027763	yes
Prkra	0.451559	1.6483	0.0046	0.013192	yes
Nudc	0.451535	2.09895	0.0004	0.001513	yes
Prkcg	0.451399	0	1	1	no
1190005I06Rik	0.450966	0.775385	0.26145	0.384893	no
Homer2	0.450849	1.99217	5.00E-05	0.00022	yes
Zfp513	0.450748	0.226472	0.65745	0.759724	no
Tspan8	0.450692	1.93045	5.00E-05	0.00022	yes
Wdr48	0.450641	1.82972	0.0006	0.002181	yes
Zc3h18	0.450473	1.44484	0.0039	0.011392	yes
Pkia	0.450404	2.19401	5.00E-05	0.00022	yes
Gm11944	0.450394	0	1	1	no
Pan3	0.450372	1.67524	0.0013	0.004375	yes
Heca	0.450362	1.6913	0.0014	0.004657	yes
Pcyt2	0.450351	2.11694	0.00015	0.000615	yes
Sf3a2	0.450294	1.5503	0.00635	0.017515	yes
Zfp867	0.450148	0.841011	0.1177	0.205113	no
Fbxo30	0.450136	1.67412	0.00095	0.003299	yes
Rps3a1	0.450032	1.19949	0.01685	0.040719	yes
Rgs1	0.44991	0	1	1	no
Armc2	0.449789	0	1	1	no
Bnip3l	0.44975	2.12501	5.00E-05	0.00022	yes
Prdm15	0.449625	1.13519	0.0285	0.063623	no
Lbx2	0.449412	0	1	1	no
Dus3l	0.449328	1.75634	0.0016	0.005236	yes
Mbip	0.449073	1.11565	0.0513	0.104322	no
Zfp771	0.449021	1.53311	0.0113	0.028847	yes
Zbtb46	0.448817	1.01618	0.04315	0.090324	no
Sc1t1	0.448798	0.967503	0.06945	0.134196	no
35673	0.448416	0.667332	0.25165	0.374403	no
Fcho1	0.448384	1.43881	0.0038	0.011141	yes
Tmem194	0.448194	0.770137	0.1216	0.211078	no

Serpinb6a	0.448151	2.18239	0.00015	0.000615	yes
Cdkn3	0.448109	0.976752	0.146	0.245095	no
Spsb2	0.448058	0.34869	0.5695	0.688118	no
Bloc1s4	0.447898	1.09375	0.0632	0.123961	no
Rps6ka2	0.447854	2.18061	5.00E-05	0.00022	yes
Sec11a	0.447826	1.90303	0.0017	0.005514	yes
Pir	0.447547	1.74888	0.00255	0.007875	yes
Atf4	0.447486	2.05155	5.00E-05	0.00022	yes
Ap3s1	0.447317	1.89823	0.00095	0.003299	yes
Cep57	0.446569	1.08184	0.02915	0.064877	no
Msantd3	0.446547	1.05744	0.03285	0.071646	no
Map9	0.446543	2.05841	5.00E-05	0.00022	yes
Carf	0.446369	0.897486	0.0736	0.140396	no
L1cam	0.446256	1.98858	0.0001	0.000422	yes
Zfp566	0.446218	0.677042	0.22735	0.347615	no
Cmpk1	0.446143	2.30759	5.00E-05	0.00022	yes
Otub2	0.446043	1.24774	0.0127	0.031887	yes
Elmo3	0.445852	0	1	1	no
Acvr2b	0.445747	0.627191	0.272	0.396857	no
Ankrd39	0.445743	1.16793	0.04135	0.087023	no
Zfp282	0.44568	1.36022	0.00935	0.024486	yes
Sprn	0.445657	1.73928	0.0004	0.001513	yes
Fam210b	0.445623	1.5521	0.00335	0.009985	yes
Dlx3	0.4456	0.655045	0.2259	0.345716	no
Nme3	0.445466	0.355966	0.6026	0.715409	no
Sifn1	0.445263	0	1	1	no
Tbcb	0.445129	2.34868	5.00E-05	0.00022	yes
Crif2	0.445023	0.962177	0.05395	0.108711	no
Rsu1	0.444834	2.21153	0.00015	0.000615	yes
Spata2l	0.444804	0.515243	0.35635	0.488297	no
Lyst	0.444752	2.03263	5.00E-05	0.00022	yes
Lrfn1	0.444673	1.58731	0.00095	0.003299	yes
Mettl25	0.444655	0.948741	0.08625	0.159259	no
Tmem88b	0.444527	0	1	1	no
Uchl1os	0.444139	0	1	1	no
Msh5	0.444105	0	1	1	no
Lars2	0.44392	1.965	0.00025	0.000985	yes
Lysmd3	0.443629	1.29585	0.01425	0.035265	yes
Enoph1	0.44344	1.58317	0.0016	0.005236	yes
Frg1	0.443217	1.63488	0.0084	0.022392	yes
Gm4285	0.443205	0.550958	0.35035	0.482568	no
Pth2r	0.443073	0	1	1	no
Rps6kb2	0.443047	1.2922	0.024	0.054955	no
Zfp354b	0.442776	0.704302	0.19195	0.303999	no
Pja1	0.442519	2.0352	0.0002	0.000803	yes
Wdr76	0.442259	0.738325	0.1353	0.230368	no
Ift46	0.442188	1.84521	0.00035	0.001342	yes
Ifi35	0.442179	1.39457	0.0168	0.040613	yes
Xpo1	0.442046	2.00629	5.00E-05	0.00022	yes
D130009I18Rik	0.441976	1.41533	0.0076	0.02049	yes
Eef1a1	0.4419	2.15264	5.00E-05	0.00022	yes
Flnc	0.44184	0.896727	0.0764	0.144841	no
Spopl	0.441711	1.35181	0.0067	0.018343	yes

Arhgap1	0.441701	1.89568	0.0001	0.000422	yes
Dnajc2	0.441596	1.75497	0.0015	0.004953	yes
Trim68	0.441574	1.04888	0.0531	0.10721	no
Rpl18	0.44156	0.896425	0.2032	0.317757	no
Gstp2	0.44155	0.873043	0.193	0.305261	no
Spns2	0.441494	1.4612	0.00325	0.009727	yes
Kti12	0.44146	0.811274	0.10305	0.18408	no
Taf5	0.441372	1.01986	0.05715	0.114223	no
Smарcb1	0.441299	1.69396	0.0009	0.003139	yes
Tex30	0.441241	0.924543	0.1235	0.213788	no
C920021L13Rik	0.441068	0	1	1	no
Cdc5l	0.440925	1.71925	0.00125	0.00422	yes
Zfp511	0.440482	0.635137	0.20235	0.31669	no
Rasgrp4	0.440442	0	1	1	no
Dos	0.440356	0.343089	0.4971	0.623938	no
Fert2	0.440081	1.49115	0.00385	0.011268	yes
Rnf126	0.440034	0.156452	0.7658	0.846408	no
Chst14	0.4398	1.33714	0.01595	0.038863	yes
Rsph3b	0.439684	1.18782	0.03755	0.080067	no
Capzb	0.439558	2.04973	5.00E-05	0.00022	yes
Dctn6	0.439467	2.25745	0.00055	0.002016	yes
Topaz1	0.439256	0	1	1	no
Arhgap11a	0.439079	1.02174	0.0495	0.101283	no
Vmn2r29	0.438745	0.547933	0.27005	0.394881	no
Cab39l	0.438694	2.17008	5.00E-05	0.00022	yes
Gpr165	0.438693	0.908397	0.08765	0.161127	no
Ikzf3	0.438634	0	1	1	no
Nudt16l1	0.438606	1.26803	0.0123	0.031006	yes
Ppfia3	0.438333	1.95754	0.0001	0.000422	yes
Uhrf2	0.438204	1.80002	0.0007	0.002506	yes
Ppm1b	0.43816	1.93079	5.00E-05	0.00022	yes
Mpv17l	0.438121	1.59787	0.00105	0.003607	yes
Flrt3	0.438112	1.20239	0.0165	0.03999	yes
Zfp963	0.437978	0.757253	0.16545	0.270357	no
Epc1	0.43755	1.34211	0.0095	0.024845	yes
Dyrk1b	0.437441	1.38758	0.0059	0.016438	yes
Mbl2	0.43744	0	1	1	no
Fmo5	0.437413	1.14419	0.02185	0.050786	no
Jund	0.437274	2.16942	0.0001	0.000422	yes
Clic1	0.437232	2.34118	0.0002	0.000803	yes
Lrif1	0.437173	1.05055	0.03475	0.075098	no
Muc13	0.437052	0	1	1	no
Rps4l	0.437034	0.461388	0.35025	0.48248	no
Nudt17	0.437032	0.302687	0.54185	0.663963	no
9330182L06Rik	0.436986	1.98982	5.00E-05	0.00022	yes
Hs6st3	0.43686	0.987849	0.0484	0.099477	no
H2-Q10	0.4367	0	1	1	no
Spata5l1	0.436544	0.756473	0.20035	0.31419	no
Spata1	0.436488	0.384394	0.4597	0.589203	no
Fam78a	0.436141	0	1	1	no
Adamts10	0.436001	0.975174	0.05155	0.104718	no
Ccdc162	0.435857	0	1	1	no
Tmsb15b1	0.435564	0.309634	0.54535	0.667265	no

Tmod4	0.435549	0	1	1	no
Iba57	0.435324	1.01931	0.03955	0.083779	no
Zcchc3	0.435247	1.05718	0.04875	0.100103	no
Rngtt	0.435197	1.61735	0.0014	0.004657	yes
Rad51d	0.434944	1.10266	0.0261	0.059	no
Stk4	0.43492	1.78617	0.00035	0.001342	yes
Vat1	0.434783	2.1916	5.00E-05	0.00022	yes
Gnai2	0.434761	2.25095	5.00E-05	0.00022	yes
Wdr17	0.434691	1.45118	0.0038	0.011141	yes
Plscr3	0.434598	1.8963	0.00035	0.001342	yes
Ostf1	0.434583	2.28693	5.00E-05	0.00022	yes
Rpa3	0.434517	0.878635	0.22755	0.34772	no
Zfp82	0.434432	0.720984	0.1465	0.245654	no
Tmem120b	0.434385	1.42869	0.01105	0.02829	yes
Tefm	0.434245	0.891412	0.13435	0.229074	no
Ctdspl	0.434192	1.42485	0.00495	0.014084	yes
Guf1	0.434183	1.36489	0.00985	0.025654	yes
Gm20604	0.434181	0.691591	0.1639	0.268286	no
Ccdc103	0.434121	0.442514	0.37515	0.506783	no
Hoxa5	0.434052	0.933848	0.0974	0.175762	no
Gm13305,Gm2002	0.434015	0	1	1	no
Hsf1	0.433982	1.53527	0.0048	0.013695	yes
Cacnb1	0.433797	1.7116	0.0009	0.003139	yes
Palmd	0.433352	1.7989	0.00035	0.001342	yes
Adcy5	0.433123	1.95515	5.00E-05	0.00022	yes
Saysd1	0.433054	0.899384	0.09955	0.178767	no
Pck2	0.432837	1.95708	0.00025	0.000985	yes
1810037I17Rik	0.432834	1.57221	0.01205	0.030463	yes
Rps25	0.432709	1.07521	0.1332	0.227522	no
Scai	0.432537	1.63426	0.00115	0.00391	yes
Sobp	0.432212	1.79498	0.00055	0.002016	yes
Nova2	0.432066	1.33259	0.0088	0.023271	yes
Prpsap2	0.431665	0.977828	0.04945	0.101196	no
Fpgs	0.431623	0.543533	0.23985	0.361396	no
Ilkap	0.431613	1.72529	0.0031	0.009315	yes
Gramd2	0.431481	0.62864	0.2924	0.419789	no
Nudt13	0.431071	1.02111	0.0599	0.118646	no
LOC100038947	0.430719	0	1	1	no
1700123M08Rik	0.430716	0.550446	0.3701	0.501561	no
Dck	0.430594	1.79998	0.00085	0.002983	yes
E030013I19Rik	0.430454	0	1	1	no
Nudt6	0.43041	0.614311	0.20985	0.326196	no
4930512B01Rik	0.430386	0	1	1	no
Nlrx1	0.430354	1.26867	0.01205	0.030463	yes
Tfdp2	0.430172	1.74384	0.00025	0.000985	yes
A530054K11Rik	0.429933	1.29129	0.01295	0.032429	yes
Taldo1	0.429814	2.24297	0.0001	0.000422	yes
Slc5a3	0.429693	1.36592	0.00645	0.017754	yes
Tceal5	0.429655	1.11005	0.07605	0.144322	no
Far1	0.429564	2.00031	5.00E-05	0.00022	yes
Gdpd5	0.42903	1.95101	0.00025	0.000985	yes
Aldoart1	0.42895	1.03183	0.06045	0.119522	no
Spag4	0.428938	0.553103	0.33375	0.464916	no

Tex22	0.428665	0	1	1	no
Nr2c2ap	0.428597	1.2816	0.0123	0.031006	yes
Gria1	0.428255	1.52538	0.002	0.006363	yes
Phf23	0.428163	1.65651	0.0008	0.002828	yes
Rgs16	0.42815	0.890185	0.1001	0.179584	no
Cep170b	0.428077	1.99486	5.00E-05	0.00022	yes
Reps2	0.427787	1.2031	0.0201	0.047298	yes
Chmp6	0.427577	1.76931	0.0025	0.007739	yes
Glt25d1	0.427168	1.93607	0.00025	0.000985	yes
Rcor3	0.427144	1.37009	0.0102	0.026436	yes
Nadsyn1	0.427018	0.721775	0.1808	0.290502	no
Lypla2	0.426999	2.1929	0.00015	0.000615	yes
Zfp442	0.426877	0.590851	0.27225	0.397004	no
Gimap8	0.42676	0.660222	0.1818	0.291579	no
Imp3	0.426592	1.64491	0.01105	0.02829	yes
Ube2s	0.426499	0.568301	0.3631	0.495143	no
Plxna3	0.426461	1.539	0.00225	0.007062	yes
Bbx	0.426258	1.9129	0.0002	0.000803	yes
Ythdf2	0.426057	1.88062	0.00035	0.001342	yes
Llph	0.425772	0.988907	0.1007	0.180466	no
Txlna	0.425705	1.84472	0.0004	0.001513	yes
Kctd3	0.425481	1.87884	0.00035	0.001342	yes
Asb6	0.42533	1.76184	0.00135	0.004516	yes
Npl	0.425237	0.721718	0.21405	0.331172	no
Ccdc55	0.425147	1.17885	0.01775	0.042546	yes
Sun1	0.425035	1.80148	0.0005	0.00185	yes
Orc6	0.425011	1.03157	0.0391	0.082906	no
Rita1	0.424875	0.984839	0.0456	0.094735	no
Tra2a	0.424749	1.86372	0.0004	0.001513	yes
Tro	0.424723	1.98284	5.00E-05	0.00022	yes
Ccdc174	0.424608	1.22121	0.03035	0.067109	no
Rpl19	0.424556	0.621686	0.2061	0.321497	no
Ift122	0.424545	1.75564	0.0004	0.001513	yes
Trappc6b	0.424536	2.07205	0.00075	0.00267	yes
Zfp329	0.424182	1.45662	0.00345	0.010237	yes
Rpain	0.424167	0.699464	0.23925	0.360656	no
Park2	0.424043	1.02984	0.03705	0.079204	no
Slamf7	0.423926	0	1	1	no
Taok3	0.423893	1.63209	0.001	0.003451	yes
Icam1	0.423776	0.670353	0.217	0.334565	no
B330016D10Rik	0.423752	0	1	1	no
Phf3	0.423433	1.78503	0.0008	0.002828	yes
Tbca	0.423418	2.65893	0.00195	0.006219	yes
Ints6	0.423168	1.08954	0.02835	0.063341	no
Jakmip1	0.423068	2.02172	0.00035	0.001342	yes
Snrpd2	0.423044	1.82663	0.03115	0.068581	no
Zdhhc2	0.423003	2.14568	5.00E-05	0.00022	yes
Otud7a	0.423001	1.57775	0.00315	0.009455	yes
Tbcc	0.422954	1.76127	0.00185	0.005939	yes
Aatf	0.422781	1.36433	0.0161	0.039164	yes
AA388235	0.422615	0.919078	0.08195	0.152937	no
Pcsk1n	0.422303	1.95134	0.0001	0.000422	yes
Lrrc15	0.422292	0	1	1	no

Ldlrad4	0.421982	1.14224	0.0353	0.076064	no
Ruvbl2	0.421809	1.48163	0.0083	0.022156	yes
4930506M07Rik	0.421789	1.40639	0.00535	0.015044	yes
Ppan	0.421386	1.06384	0.0616	0.121343	no
Mef2d	0.42135	1.71363	0.00135	0.004516	yes
Zfp444	0.421276	1.27515	0.0117	0.029708	yes
Ift80	0.420778	1.83743	0.0003	0.001164	yes
Zranb2	0.420672	1.8592	0.00015	0.000615	yes
Ctnna2	0.420527	2.01518	0.00015	0.000615	yes
Srsf2	0.420506	2.08713	0.0002	0.000803	yes
Zfp64	0.420347	1.21744	0.0248	0.056514	no
Commd7	0.420345	1.5713	0.0012	0.004068	yes
Rbm12b2	0.419991	0.94893	0.073	0.139452	no
Itsn2	0.419465	1.87091	0.00025	0.000985	yes
Rpl23	0.419459	0.83967	0.0878	0.161358	no
Pold4	0.419133	1.46852	0.0215	0.050104	no
Hjurp	0.418974	0.931768	0.0608	0.120053	no
Dusp13	0.418919	0	1	1	no
Kiz	0.418491	1.45249	0.0086	0.022847	yes
Tmem2	0.418458	1.73738	0.00045	0.001682	yes
Celf1	0.41808	1.79739	0.0004	0.001513	yes
Oaz1	0.418063	1.42101	0.00525	0.014813	yes
Nt5c3	0.417852	1.47514	0.00415	0.012021	yes
Zc3h11a	0.417791	1.67521	0.0008	0.002828	yes
Ccdc94	0.417358	0.720349	0.1475	0.24677	no
Slc44a2	0.417269	1.95852	5.00E-05	0.00022	yes
Cwc27	0.417225	1.33488	0.016	0.038963	yes
Crcp	0.417219	1.74837	0.00235	0.007346	yes
Coro7	0.416987	1.94375	0.0005	0.00185	yes
Cstb	0.416679	2.10571	0.0052	0.014691	yes
Elavl4	0.416678	1.92958	0.0001	0.000422	yes
Pfkfb2	0.41654	1.49767	0.0035	0.01036	yes
Ano6	0.41647	1.90525	0.00015	0.000615	yes
Atp11b	0.416362	1.85193	0.00045	0.001682	yes
U2af2	0.416284	1.6767	0.00095	0.003299	yes
Fbxo48	0.416227	0	1	1	no
Upf3a	0.416219	1.39442	0.0163	0.039607	yes
Ormdl2	0.41609	0.535246	0.28265	0.408399	no
Camk2d	0.416082	1.94427	0.00015	0.000615	yes
Clca1	0.416074	0	1	1	no
Wdr55	0.415936	1.27714	0.0255	0.05786	no
Gabrr2	0.415775	0	1	1	no
Med6	0.415739	1.32845	0.0342	0.074115	no
Mta3	0.415677	1.65745	0.0005	0.00185	yes
Dcaf12	0.415626	1.94585	0.0004	0.001513	yes
Eml6	0.415579	0.211451	0.68245	0.780927	no
Ebna1bp2	0.415543	1.57439	0.0016	0.005236	yes
Arfgef2	0.415521	1.97756	0.0001	0.000422	yes
Fam114a1	0.415404	1.49905	0.00245	0.007605	yes
Pgp	0.415323	1.94178	0.00185	0.005939	yes
Rasip1	0.415148	1.18168	0.0257	0.058195	no
Dcaf12l1	0.414864	1.37675	0.00675	0.018468	yes
Sec61b	0.414695	1.17588	0.1332	0.227522	no

Morc2b	0.414197	0	1	1	no
Gdf7	0.414129	0	1	1	no
Cited4	0.414123	0	1	1	no
C530005A16Rik	0.414099	0.392307	0.4639	0.593554	no
Hdx	0.413761	0.648323	0.1927	0.304859	no
Sbds	0.412724	2.03509	0.0004	0.001513	yes
Sqstm1	0.412715	1.83188	0.0003	0.001164	yes
Pex26	0.412594	1.42744	0.006	0.016674	yes
Lpxn	0.412577	0	1	1	no
Polr2f	0.412464	1.67772	0.039	0.082733	no
Nap1l1	0.412457	1.84046	0.00025	0.000985	yes
Ick	0.412372	1.51133	0.0027	0.008273	yes
C2cd4b	0.412369	0	1	1	no
Gfra3	0.412232	1.82831	0.0006	0.002181	yes
Tshz3	0.41205	1.61703	0.0019	0.00608	yes
Spdl1	0.411961	0	1	1	no
Kctd10	0.411916	1.92313	0.00025	0.000985	yes
Dnajb5	0.411883	1.30694	0.01545	0.037763	yes
Asap1	0.411782	1.86414	0.0004	0.001513	yes
Cer1	0.411775	0	1	1	no
Ift172	0.411748	0.719799	0.15135	0.251908	no
Nop9	0.411385	1.26756	0.0126	0.031654	yes
Snopc4	0.410842	1.09458	0.02775	0.062189	no
Mrpl54	0.41071	1.73732	0.0226	0.052209	no
Dhx37	0.410647	1.29266	0.013	0.032548	yes
Zfp46	0.410438	1.56483	0.00255	0.007875	yes
Chmp2a	0.410187	2.06479	0.00145	0.004804	yes
Hoxd11	0.410015	0.592865	0.2328	0.353584	no
Bves	0.40997	1.39123	0.01465	0.0361	yes
Smn1	0.409874	1.01664	0.041	0.086396	no
Morf4l2	0.409825	2.16137	0.0002	0.000803	yes
Milt6	0.409685	1.79115	0.00025	0.000985	yes
Gpr155	0.409644	1.80617	0.0005	0.00185	yes
Gm8994	0.409457	0.523871	0.3535	0.485495	no
Rps15	0.409447	0.136643	0.79855	0.868943	no
Thg1l	0.40942	0.948525	0.0587	0.116845	no
Pfkfb4	0.409102	1.34348	0.0116	0.029488	yes
A930004D18Rik	0.40905	1.05797	0.0434	0.090775	no
4833418N02Rik	0.409033	0	1	1	no
C230091D08Rik	0.408876	0	1	1	no
Sfpq	0.408631	1.77387	0.00025	0.000985	yes
Clec4f	0.408475	0	1	1	no
Dtx3	0.40847	1.28713	0.0212	0.049553	yes
Rbm45	0.408258	1.44128	0.0085	0.022613	yes
Nnt	0.408249	1.23483	0.0132	0.032999	yes
Ln timer	0.408243	1.20805	0.0213	0.049734	yes
Gpr180	0.408215	1.37226	0.00925	0.024243	yes
Myl4	0.408121	0.586369	0.36205	0.494168	no
2210016L21Rik	0.408085	2.01602	0.0009	0.003139	yes
Arpc2	0.407886	2.16155	0.0002	0.000803	yes
Zfp772	0.407804	0.938793	0.07955	0.149595	no
Hexb	0.407698	1.69887	0.0004	0.001513	yes
Atp11c	0.407697	1.54955	0.0016	0.005236	yes

2810002D19Rik	0.407687	0.821375	0.14965	0.249517	no
Evl	0.40755	0.640895	0.24355	0.36527	no
Rpl41	0.407203	3.14287	0.0006	0.002181	yes
Rpl36a1	0.407068	1.98057	0.0169	0.040833	yes
Rpl14-ps1	0.407015	1.62757	0.00115	0.00391	yes
Pan2	0.406767	1.23762	0.0124	0.031187	yes
Ikbkb	0.406717	1.45985	0.0033	0.009856	yes
Lhfpl3	0.406431	1.67167	0.00085	0.002983	yes
Npw	0.406382	0	1	1	no
Actr1b	0.406253	2.11187	5.00E-05	0.00022	yes
Hnrnpab	0.406245	1.86872	0.0002	0.000803	yes
U2af114	0.406045	1.49694	0.0225	0.052005	no
Fam57a	0.406015	1.03272	0.1062	0.188489	no
Polq	0.406007	0	1	1	no
Crybg3	0.405852	0.922628	0.06935	0.134081	no
Fmo6	0.405772	0	1	1	no
Cntnap4	0.405762	1.70488	0.00155	0.005095	yes
Slc25a48	0.4057	0	1	1	no
Upb1	0.405505	0	1	1	no
Pgbd5	0.405061	1.80941	0.0007	0.002506	yes
Lenep	0.404955	0.587234	0.4153	0.547257	no
Ccdc88a	0.404937	1.67824	0.0014	0.004657	yes
Ccm2	0.404816	1.56486	0.00185	0.005939	yes
Prkag2	0.404712	1.80402	0.0003	0.001164	yes
Vwa5a	0.404607	1.82041	0.00025	0.000985	yes
Sra1	0.404557	1.25923	0.01155	0.029395	yes
38046	0.404343	1.69639	0.001	0.003451	yes
Cacna1h	0.404235	1.73261	0.0006	0.002181	yes
Zfp787	0.403821	1.01994	0.0654	0.127522	no
Nfkbib	0.403714	1.14658	0.0214	0.049915	yes
Pdia6	0.403605	1.9858	0.0001	0.000422	yes
Nfu1	0.403593	1.2836	0.0109	0.027982	yes
Sf3b5	0.403265	1.63066	0.0188	0.044675	yes
Mamld1	0.403235	1.26423	0.0119	0.030181	yes
2610035F20Rik	0.403208	0	1	1	no
Stat3	0.403203	1.82088	0.0004	0.001513	yes
Cebpg	0.402601	1.69204	0.00125	0.00422	yes
Cnot3	0.402425	1.12353	0.0382	0.081257	no
Naa40	0.402379	1.09845	0.03915	0.082985	no
Ttc32	0.402216	0.487957	0.44525	0.576587	no
Car10	0.402053	1.91707	5.00E-05	0.00022	yes
Snca	0.402052	0.687732	0.41995	0.551522	no
Ept1	0.402003	1.93749	0.00015	0.000615	yes
Rccd1	0.401949	0.708001	0.195	0.307545	no
Akap12	0.401904	1.66792	0.00145	0.004804	yes
Stat5b	0.401872	1.6698	0.0008	0.002828	yes
Srpk1	0.401791	1.76491	0.001	0.003451	yes
Man2c1	0.401566	1.63638	0.00085	0.002983	yes
Mphosph9	0.40146	1.18356	0.0183	0.043682	yes
2310033P09Rik	0.401425	1.11796	0.06335	0.124237	no
Nol8	0.401187	1.32558	0.00795	0.021355	yes
0610012G03Rik	0.400799	1.36475	0.01885	0.044778	yes
2310068J16Rik	0.400718	0	1	1	no

Fbxw9	0.400526	0.393365	0.4249	0.556206	no
Trim27	0.400522	1.32995	0.0112	0.02863	yes
Traf3ip2	0.400519	0.834285	0.1237	0.214079	no
Tctex1d2	0.400489	1.14993	0.11655	0.203456	no
2310034G01Rik	0.40039	0	1	1	no
Tmod1	0.400368	1.93112	0.00035	0.001342	yes
Dusp5	0.400354	1.27188	0.03665	0.078514	no
Rpa1	0.400326	1.79315	0.0002	0.000803	yes
Rock1	0.400179	1.49927	0.00335	0.009985	yes
Bbs7	0.400116	1.41504	0.0086	0.022847	yes
Ppp1r18	0.39996	1.33845	0.0072	0.01953	yes
Gm3230	0.399833	0.546535	0.3199	0.449874	no
Arl6	0.399797	1.29643	0.0313	0.068831	no
Acsm3	0.399784	0	1	1	no
Akap8l	0.399448	1.53879	0.00635	0.017515	yes
Plxnd1	0.399397	1.9154	0.00015	0.000615	yes
Pole	0.399046	0.786348	0.12605	0.217493	no
Trpm4	0.398569	0.785729	0.1337	0.228259	no
1700030K09Rik	0.398219	0.569341	0.29945	0.427367	no
Slc2a2	0.398186	0	1	1	no
Msh2	0.398034	1.79774	0.00085	0.002983	yes
Zfp382	0.397948	1.15902	0.03645	0.078186	no
Rwdd1	0.397876	1.08549	0.07445	0.141691	no
Gdap1l1	0.397866	1.80977	0.00095	0.003299	yes
Rrbp1	0.397677	1.77969	0.0006	0.002181	yes
Dnajc28	0.397455	0.858319	0.0859	0.158856	no
4833420G17Rik	0.397377	1.22819	0.0146	0.035997	yes
Dpy30	0.397239	1.31511	0.00875	0.023162	yes
Pkib	0.397237	1.27467	0.01055	0.027215	yes
Dtd1	0.397056	1.65989	0.00485	0.01382	yes
Eif5b	0.396939	1.68901	0.00075	0.00267	yes
Zfp641	0.396927	0.975011	0.06225	0.122387	no
B4galt7	0.396924	1.10585	0.05595	0.112213	no
5830418K08Rik	0.39686	0.936293	0.06065	0.119846	no
Vash1	0.396576	1.91777	5.00E-05	0.00022	yes
Nmral1	0.39649	0.50396	0.28385	0.409642	no
Pigv	0.396212	0.823702	0.09875	0.177691	no
Stam2	0.396019	1.67637	0.00105	0.003607	yes
Rgs7	0.39597	1.70188	0.00055	0.002016	yes
Igf1r	0.395912	1.85224	0.0002	0.000803	yes
Itfg2	0.395801	1.52675	0.0052	0.014691	yes
Mterfd2	0.395624	1.02887	0.05365	0.108189	no
Epc2	0.395505	1.38524	0.00775	0.020864	yes
Rap2c	0.395352	1.83806	0.0007	0.002506	yes
Mvk	0.39528	1.76351	0.0024	0.00748	yes
Abcd4	0.395097	1.24023	0.02255	0.052111	no
Slc2a3	0.395057	1.88055	0.00055	0.002016	yes
Fnbp1	0.394914	1.8442	0.0003	0.001164	yes
Cep55	0.394723	0	1	1	no
Ciz1	0.394716	1.32842	0.00755	0.020384	yes
I7Rn6	0.394144	1.31883	0.00875	0.023162	yes
Gmeb1	0.394097	1.15173	0.0216	0.050301	no
Nmb	0.394052	1.73086	0.0004	0.001513	yes

Zfp235	0.394022	0.890028	0.09215	0.167887	no
Snupn	0.39383	1.23446	0.0359	0.077156	no
Cenpo	0.393745	0.461269	0.3813	0.512534	no
Iqcc	0.393619	0.99014	0.07145	0.137361	no
Il6	0.39343	0	1	1	no
Ppil1	0.393387	1.30216	0.0289	0.064364	no
Fam229b	0.392804	0.986628	0.15145	0.252011	no
Leng9	0.392494	0.775449	0.1694	0.275589	no
Rps4x	0.39248	1.61466	0.0127	0.031887	yes
Gpld1	0.392314	1.15656	0.02585	0.058504	no
Rbmx2	0.392219	0.877117	0.1229	0.213	no
Adamts8	0.391984	0.951486	0.0681	0.132107	no
Glr3	0.391844	1.09354	0.026	0.058814	no
Gpr75	0.391792	1.09058	0.0439	0.091677	no
Ptprk	0.391781	1.34382	0.00885	0.02338	yes
Pmvk	0.391593	1.60742	0.0011	0.00376	yes
Mina	0.391537	0.899407	0.10075	0.180506	no
Gpr135	0.39152	0.893135	0.124	0.214458	no
Nrf1	0.391302	0.969029	0.0485	0.099652	no
Esco1	0.391274	1.14624	0.027	0.060703	no
Snx2	0.391091	1.81364	0.0009	0.003139	yes
Tsfm	0.390989	1.24371	0.03785	0.080629	no
Riok1	0.390937	1.05932	0.0462	0.095771	no
Rnf166	0.390905	1.11674	0.04885	0.100277	no
Tsga10	0.390821	0.848945	0.08705	0.160379	no
Anp32b	0.390819	1.74193	0.00305	0.009188	yes
Hs6st1	0.390722	1.88573	0.0003	0.001164	yes
Tprn	0.390684	1.08443	0.045	0.093694	no
Diablo	0.390585	1.80559	0.0007	0.002506	yes
Mospd2	0.390465	1.4803	0.0026	0.008011	yes
Map2k1	0.390195	1.96452	0.0003	0.001164	yes
Gan	0.390159	1.38776	0.00915	0.024038	yes
Tshz1	0.389609	1.42154	0.00605	0.016792	yes
Glr5	0.389452	1.9118	0.00265	0.008146	yes
Rps6	0.389371	1.27475	0.02925	0.065056	no
Pdia5	0.388909	1.02183	0.06655	0.129498	no
Poln	0.388616	0	1	1	no
Slc26a8	0.388228	0	1	1	no
Trabd	0.387943	1.51628	0.0059	0.016438	yes
Gpr21	0.387852	0.225179	0.6572	0.759625	no
Clcf1	0.38776	0	1	1	no
Ubp1	0.387708	0.730151	0.1618	0.265636	no
Ppm1g	0.387584	0.557394	0.26775	0.392253	no
Unk	0.387498	1.04368	0.0381	0.081096	no
Thap3	0.387325	0.752904	0.12885	0.22146	no
Arrdc4	0.3873	0.904737	0.06805	0.132049	no
Slc25a53	0.386938	0.613663	0.2531	0.37577	no
Ptpn1	0.386917	1.52782	0.00395	0.011515	yes
Gng3	0.38677	1.7731	0.0015	0.004953	yes
Ubl4	0.386674	1.79085	0.0009	0.003139	yes
Garnl3	0.386384	1.80154	0.0007	0.002506	yes
Lzts1	0.386351	1.26462	0.02475	0.056429	no
Top1	0.386321	1.73922	0.00095	0.003299	yes

Tamm41	0.386267	0.92161	0.1247	0.215472	no
Iqce	0.386231	1.24936	0.01575	0.038432	yes
Ttc13	0.386175	1.46419	0.0062	0.017151	yes
Cep63	0.386153	1.24107	0.02045	0.048037	yes
Ncor1	0.385875	1.4156	0.00395	0.011515	yes
Nme2	0.385744	1.18449	0.0176	0.042247	yes
Tardbp	0.385561	1.76728	0.00045	0.001682	yes
Ethe1	0.385558	0.864702	0.08435	0.15647	no
Hmgxb4	0.385478	1.13323	0.02995	0.066379	no
2610524H06Rik	0.385027	1.22571	0.05685	0.113691	no
Ctdp1	0.384919	1.1721	0.0256	0.058038	no
Smug1	0.384872	1.28385	0.01565	0.038195	yes
Josd1	0.384762	1.64214	0.00205	0.006503	yes
Zmiz2	0.384751	1.76177	0.00035	0.001342	yes
Ubac1	0.38464	1.68814	0.00135	0.004516	yes
Cdca7l	0.384207	0	1	1	no
Morn4	0.384106	1.78358	0.0015	0.004953	yes
Zfp408	0.383999	0.838202	0.1081	0.191349	no
Pigyl	0.383651	0.80634	0.2566	0.379607	no
Cdh7	0.383631	0	1	1	no
Cdkl2	0.383622	1.73544	0.0005	0.00185	yes
Rabggtb	0.383538	1.45634	0.00325	0.009727	yes
Ifi27	0.383396	2.14503	0.00075	0.00267	yes
Qtrtd1	0.383062	1.06489	0.0473	0.097655	no
Myo1h	0.38274	0	1	1	no
Ten1	0.382723	0.485044	0.33065	0.461713	no
Fubp3	0.382663	1.50651	0.00245	0.007605	yes
Ring1	0.382412	1.25348	0.0223	0.05166	no
Tceanc	0.382368	0.699498	0.18395	0.294209	no
Zfp9	0.382345	1.33683	0.0096	0.025081	yes
Mrps26	0.382296	1.55673	0.0141	0.034959	yes
Mrpl34	0.382216	1.44028	0.0502	0.102541	no
Gm10532	0.382103	0	1	1	no
Prrc1	0.38207	1.62793	0.00245	0.007605	yes
Usp35	0.38194	1.75938	0.00065	0.002343	yes
N6amt1	0.381883	1.20816	0.01465	0.0361	yes
Dmtn	0.381367	1.78244	0.00035	0.001342	yes
Htr2a	0.381241	0.922086	0.0837	0.155568	no
Numb1	0.381213	1.80338	0.00055	0.002016	yes
Slc30a10	0.381193	0	1	1	no
Trit1	0.381147	0.836703	0.12835	0.22083	no
Coa6	0.380885	1.29919	0.054	0.108779	no
Zfp69	0.380851	0	1	1	no
Acs14	0.380822	1.74381	0.0004	0.001513	yes
Trmt44	0.380787	0.835921	0.11165	0.196297	no
Ccdc101	0.38047	1.14315	0.0603	0.119261	no
Sestd1	0.379632	1.81848	0.0004	0.001513	yes
Ccdc14	0.379617	0.613053	0.2416	0.36329	no
Sh3rf2	0.379583	0	1	1	no
Tceal3	0.379422	1.65004	0.0072	0.01953	yes
5430416N02Rik	0.379363	0.594914	0.42235	0.553852	no
Uckl1	0.379297	0.735747	0.1827	0.292598	no
Midn	0.379272	0.220202	0.6645	0.766002	no

Adra1d	0.379264	0.207087	0.68695	0.784577	no
Zfp563	0.37918	0.907204	0.074	0.141017	no
Cmtm7	0.37893	0.582168	0.24315	0.364835	no
Cemip	0.378898	0.923291	0.0697	0.134542	no
Max	0.378836	1.46417	0.00315	0.009455	yes
Nfat5	0.37881	1.6933	0.0008	0.002828	yes
Tmem150c	0.378655	1.76072	0.00065	0.002343	yes
Siah1a	0.378566	1.49109	0.00585	0.016305	yes
Arrb2	0.378369	1.37523	0.0064	0.017627	yes
Gpt	0.37815	0.584804	0.2953	0.422946	no
Ngdn	0.378016	1.24794	0.03815	0.08119	no
A830080D01Rik	0.377879	0.957098	0.07005	0.13508	no
Larp7	0.377858	1.22447	0.0148	0.036422	yes
Prr3	0.37777	0.852538	0.09405	0.170669	no
Sdccag3	0.377753	1.3845	0.00525	0.014813	yes
Ahi1	0.377631	1.3376	0.0081	0.021701	yes
Fam228b	0.377509	0	1	1	no
Mcm6	0.377483	1.02385	0.05795	0.115543	no
Ccdc116	0.377476	0	1	1	no
Fam131b	0.377444	1.75501	0.00025	0.000985	yes
Mterfd3	0.377422	1.11298	0.05075	0.103473	no
Cramp1l	0.377408	1.48339	0.00425	0.01229	yes
Unc45a	0.376905	1.72798	0.0012	0.004068	yes
Ldha	0.376822	1.76207	0.0002	0.000803	yes
Ccdc71	0.3768	0.915477	0.0682	0.132243	no
Setd3	0.376795	1.83866	0.001	0.003451	yes
Dhrs13	0.376561	1.01208	0.07635	0.144767	no
Ppig	0.376404	1.66912	0.00125	0.00422	yes
Flywch2	0.37634	0.935074	0.1858	0.29656	no
Phf11c	0.376314	0	1	1	no
Ube2r2	0.376148	1.79284	0.001	0.003451	yes
1810058I24Rik	0.375992	1.49715	0.0028	0.008532	yes
B3galnt2	0.375708	0.65315	0.22755	0.34772	no
Pex16	0.37547	1.19595	0.0165	0.03999	yes
Wdr46	0.375381	0.945525	0.0791	0.14896	no
Pfn1	0.375301	2.28922	0.0004	0.001513	yes
Msrb2	0.375135	1.53117	0.0103	0.026643	yes
Tusc3	0.374747	1.99837	0.00105	0.003607	yes
1700066M21Rik	0.37448	1.61697	0.0028	0.008532	yes
Oxsr1	0.374026	1.64156	0.0005	0.00185	yes
Zik1	0.374002	0.859446	0.099	0.17802	no
Rexo2	0.373995	1.97827	0.00155	0.005095	yes
Zfp597	0.373687	1.20854	0.0167	0.040408	yes
Rpl4	0.373631	1.74858	0.0005	0.00185	yes
Arl15	0.373558	1.38078	0.00565	0.015794	yes
Serpina3i	0.37338	0.674306	0.21905	0.337217	no
Haus8	0.372881	0.994237	0.0464	0.096066	no
Cd274	0.372758	0.995605	0.0583	0.116171	no
Igsf9b	0.372691	0.815951	0.09675	0.174804	no
Dnajb3	0.372394	0.341946	0.5605	0.680095	no
Pawr	0.372327	0.734477	0.19355	0.305985	no
Nacad	0.372077	1.81283	0.00035	0.001342	yes
Cln6	0.371965	1.41694	0.01105	0.02829	yes

1110038B12Rik	0.371488	0.63123	0.19945	0.313222	no
Arpc1a	0.37143	1.97668	0.00055	0.002016	yes
Pdcl	0.371421	1.68298	0.00225	0.007062	yes
Krtcap3	0.371287	0	1	1	no
Gm20300	0.370884	1.77219	0.0006	0.002181	yes
L1td1	0.370816	0	1	1	no
Armc8	0.370701	1.60925	0.00115	0.00391	yes
Ccdc28b	0.370667	1.09032	0.09825	0.177056	no
Lrrc46	0.370589	0.511153	0.3928	0.524432	no
Xrn2	0.370574	1.50282	0.0052	0.014691	yes
Prpf4b	0.370475	1.60252	0.0022	0.006933	yes
Ints10	0.37023	1.43276	0.00895	0.023578	yes
C4a	0.370147	0	1	1	no
Pprc1	0.370043	1.25767	0.01455	0.035893	yes
Dctn2	0.36978	1.8204	0.00135	0.004516	yes
Hsp90aa1	0.369759	1.80048	0.00075	0.00267	yes
Gipc1	0.369576	1.69946	0.0029	0.008796	yes
Dgcr6	0.369482	1.37422	0.0065	0.017869	yes
Gltscr2	0.369407	1.44103	0.00295	0.008927	yes
Blk	0.369192	0	1	1	no
Scamp3	0.368825	1.80648	0.00175	0.00566	yes
Rbm33	0.368817	1.40928	0.00565	0.015794	yes
Ifi2712a	0.368784	0.253709	0.61635	0.726462	no
Pear1	0.368688	0.984866	0.0464	0.096066	no
Ccdc53	0.368592	1.06614	0.032	0.070103	no
Atf3	0.36853	1.37726	0.0151	0.037064	yes
Cactin	0.368462	1.13581	0.03295	0.071817	no
Ccdc88b	0.368216	0	1	1	no
Map3k6	0.368054	0.762067	0.1426	0.240116	no
Atg4d	0.368003	1.2029	0.02335	0.05368	no
Fli1	0.367852	0.883356	0.09565	0.173099	no
Zfp65	0.367543	0.882077	0.0923	0.168068	no
Prdm10	0.367418	0.685107	0.1913	0.303259	no
Spryd3	0.367138	1.87131	0.0006	0.002181	yes
Cry1	0.367122	1.09167	0.041	0.086396	no
Tnfrsf25	0.367072	0	1	1	no
Nfatc2ip	0.367057	0.884336	0.09235	0.168136	no
Prkce	0.366908	1.67095	0.00065	0.002343	yes
Smarcad1	0.36687	1.17171	0.02005	0.047189	yes
Upp1	0.36682	0.356956	0.45275	0.582772	no
Rps3	0.366683	1.81205	0.00055	0.002016	yes
Ophn1	0.366675	1.51634	0.00425	0.01229	yes
Alyref	0.366658	1.32793	0.028	0.062644	no
C87436	0.366657	1.09154	0.0282	0.063027	no
Cep170	0.366504	1.69899	0.00045	0.001682	yes
Chst10	0.366449	0.990491	0.06255	0.122904	no
Tph2	0.366382	0	1	1	no
1810041L15Rik	0.366274	1.7075	0.00075	0.00267	yes
Gdf9	0.366224	0	1	1	no
Exoc3l	0.366004	0	1	1	no
Bdkrb2	0.365959	0.580244	0.3037	0.432316	no
Lca5l	0.365748	0	1	1	no
Best1	0.365637	0.502522	0.3671	0.498701	no

Nop14	0.365592	1.3602	0.0123	0.031006	yes
Metap1	0.36556	1.63989	0.0025	0.007739	yes
Tmem179b	0.365437	0.670288	0.29935	0.427362	no
Rsb1l1	0.365394	1.27747	0.0154	0.037682	yes
Dnph1	0.365381	0.510811	0.4015	0.533043	no
Otd5	0.365212	1.52044	0.00245	0.007605	yes
Tnrc6a	0.365149	1.65774	0.00145	0.004804	yes
Caprin2	0.365106	1.29847	0.0136	0.033839	yes
Mtfr1	0.365085	1.15807	0.0207	0.048529	yes
Hsp90ab1	0.365061	1.15021	0.0345	0.07468	no
Jarid2	0.365057	1.31285	0.0092	0.024131	yes
Nfrkb	0.36463	1.27448	0.0145	0.03579	yes
Eef1b2	0.364477	1.62864	0.00125	0.00422	yes
Zbtb7a	0.364288	1.75121	0.0004	0.001513	yes
Akirin2	0.364041	1.4833	0.00825	0.02204	yes
Atad3aos	0.364014	0	1	1	no
2610020C07Rik	0.364012	0	1	1	no
P4htm	0.363971	1.6317	0.00365	0.010754	yes
Dnah17	0.36385	0	1	1	no
Grpel2	0.36371	1.23194	0.0191	0.045266	yes
Bola1	0.363104	0.926875	0.1768	0.285145	no
Grik5	0.362927	1.56529	0.0035	0.01036	yes
Maoa	0.362806	1.69878	0.0011	0.00376	yes
Ap3m1	0.362779	1.58735	0.00315	0.009455	yes
Ifrd1	0.362777	1.09251	0.02835	0.063341	no
Pus7l	0.362725	0.668832	0.2087	0.324751	no
Nup35	0.362501	0.550363	0.269	0.393693	no
Catsperg1	0.362475	0	1	1	no
Kif5b	0.362146	1.56868	0.00245	0.007605	yes
Zmym1	0.362044	1.19531	0.0207	0.048529	yes
2410004N09Rik	0.362015	0.384396	0.4196	0.551226	no
Gm10584	0.361867	0	1	1	no
Vill	0.361753	0	1	1	no
Kctd18	0.361702	0.948776	0.05655	0.113228	no
Ccdc142	0.361417	0.466229	0.39245	0.524137	no
Gdpd3	0.361411	0.718903	0.2377	0.358994	no
Mtfr1l	0.36134	0.737459	0.16365	0.268009	no
Tbkbp1	0.361246	1.19947	0.0158	0.038533	yes
Sub1	0.361225	1.713	0.00165	0.00538	yes
Yy1	0.361169	1.51519	0.0053	0.014929	yes
Gm1943	0.361149	0.785393	0.19955	0.313305	no
Zc2hc1a	0.361136	1.77168	0.00085	0.002983	yes
Snx4	0.361063	1.6213	0.00305	0.009188	yes
Cmpk2	0.361063	1.47398	0.0063	0.017413	yes
Gpr116	0.360834	1.59401	0.00245	0.007605	yes
Ing5	0.360644	0.984328	0.0608	0.120053	no
Clta	0.360516	1.6785	0.0005	0.00185	yes
Exo5	0.360495	0.766105	0.12475	0.21553	no
Fryl	0.360318	1.71764	0.00065	0.002343	yes
Rpf2	0.360311	0.96328	0.0559	0.112147	no
Glt1d1	0.360299	0.746541	0.1914	0.303309	no
Hnrnph1	0.360081	1.7825	0.00155	0.005095	yes
Dram2	0.359572	1.51598	0.0028	0.008532	yes

Ncoa7	0.359449	1.63256	0.00085	0.002983	yes
Shcbp1	0.359079	0	1	1	no
Ska2	0.359024	0.0745678	0.91285	0.945933	no
Cdk8	0.358824	1.19196	0.0235	0.053987	no
Sirt6	0.358765	0.94511	0.06115	0.1206	no
Rhoq	0.358645	1.70954	0.0008	0.002828	yes
Car2	0.358526	1.62115	0.00385	0.011268	yes
Zdhhc18	0.358427	1.68823	0.001	0.003451	yes
Abtb2	0.358384	1.64985	0.00155	0.005095	yes
Pdss1	0.357989	0.290129	0.60785	0.71971	no
Atg3	0.357787	1.66802	0.0029	0.008796	yes
Oasl2	0.357748	1.49475	0.0047	0.013433	yes
Zfp462	0.357574	1.53044	0.0028	0.008532	yes
Zmynd11	0.357546	1.54997	0.00145	0.004804	yes
Srp54a	0.357329	1.12026	0.03155	0.069266	no
Cnot2	0.357233	1.29753	0.00955	0.024966	yes
Gnl3	0.357171	0.626671	0.21235	0.329079	no
Scml4	0.356935	0.976532	0.06015	0.119017	no
Orai3	0.356839	1.23827	0.02265	0.052306	no
Rundc3a	0.35672	1.66291	0.0011	0.00376	yes
Scnm1	0.356623	0.857975	0.0872	0.160567	no
Zcchc8	0.35654	0.973195	0.06275	0.123206	no
Ppp2cb	0.356511	1.66176	0.0036	0.010628	yes
Tchp	0.356488	0.739233	0.1389	0.235139	no
Gpatch8	0.356477	1.58969	0.0019	0.00608	yes
Pafah2	0.356398	1.10336	0.02745	0.0616	no
Zbtb24	0.356329	0.890342	0.0752	0.142893	no
Aadat	0.356173	0	1	1	no
Lmna	0.355937	1.51017	0.00205	0.006503	yes
Tarbp2	0.355817	0.65632	0.18145	0.291229	no
9130401M01Rik	0.355791	1.19492	0.04225	0.088622	no
Ap1g2	0.355775	0.217342	0.63845	0.744774	no
Fdps	0.355755	1.16031	0.01985	0.046793	yes
Idi1	0.355735	1.3723	0.00995	0.025858	yes
Zfp61	0.355426	0.780836	0.1531	0.254342	no
Zc3h6	0.355358	0.867521	0.09785	0.176479	no
Zfp157	0.355307	0.947555	0.06345	0.124397	no
Prrt2	0.355294	1.75971	0.0011	0.00376	yes
Rpl8	0.355104	2.13171	0.00095	0.003299	yes
Thrb	0.355097	0.787224	0.10865	0.192118	no
Mgst2	0.355081	0	1	1	no
Chst12	0.354834	1.6019	0.0044	0.012685	yes
Fip1l1	0.354785	1.27542	0.0175	0.042076	yes
Slc39a6	0.354777	1.72986	0.00095	0.003299	yes
Nelfa	0.354734	0.888232	0.06705	0.130337	no
Egln2	0.354595	1.73239	0.00215	0.006796	yes
Tmem74b	0.354571	0.496447	0.3881	0.519411	no
Hax1	0.354503	0.778781	0.11625	0.203066	no
Srsf7	0.354421	1.48508	0.00345	0.010237	yes
Nbea	0.354291	1.3266	0.00845	0.022507	yes
Ipcef1	0.354276	0	1	1	no
Unkl	0.353951	0.985906	0.05915	0.117565	no
4930412C18Rik	0.353922	0.784961	0.13745	0.233101	no

Siah2	0.353902	1.13318	0.0351	0.075719	no
Nufip2	0.3537	1.65641	0.00095	0.003299	yes
Adh7	0.353689	0	1	1	no
Mphosph8	0.353685	1.6313	0.00235	0.007346	yes
Eif2ak3	0.35354	1.54424	0.00355	0.010494	yes
Ccdc9	0.35347	1.06946	0.03285	0.071646	no
Plcd3	0.353007	0.691865	0.1959	0.30867	no
Ift88	0.352778	1.2673	0.0161	0.039164	yes
Rragd	0.352254	1.64249	0.0014	0.004657	yes
Kctd5	0.352211	1.48896	0.0057	0.015927	yes
Trnau1ap	0.351979	0.93671	0.12125	0.210636	no
Uchl3	0.351931	0.895034	0.1597	0.262806	no
Dnmt1	0.351696	1.39541	0.0062	0.017151	yes
Atp8a1	0.351582	1.56445	0.00155	0.005095	yes
Dpysl5	0.351557	1.71595	0.0013	0.004375	yes
Cecr2	0.351519	0	1	1	no
Hist2h2aa2	0.351507	0	1	1	no
Pacrgl	0.3513	0.94737	0.10005	0.179568	no
Nop58	0.350788	1.20821	0.01535	0.03758	yes
Slc9a6	0.350779	1.71534	0.0007	0.002506	yes
Mapk14	0.350678	1.48851	0.003	0.009064	yes
Cep85	0.350671	1.06	0.0419	0.087943	no
Zfp52	0.35066	0.930399	0.08055	0.151004	no
Gfod2	0.350546	1.33578	0.0162	0.039385	yes
Fen1	0.350527	0.953006	0.0598	0.118501	no
Ddah1	0.350443	1.55952	0.0035	0.01036	yes
Runx1t1	0.350412	1.24092	0.0128	0.032102	yes
2810004N23Rik	0.350377	1.13028	0.05255	0.106359	no
Fam3a	0.350362	1.2851	0.02135	0.049824	yes
Mtfr2	0.350362	0	1	1	no
Arl13b	0.350055	0.902543	0.0705	0.135869	no
Nphp3	0.349801	0.728773	0.13145	0.224967	no
Lrch2	0.349719	0.823978	0.1197	0.20827	no
Drap1	0.349349	1.35403	0.00725	0.019654	yes
Eif3h	0.349143	1.61019	0.00765	0.020612	yes
Baiap3	0.349098	0	1	1	no
Kcnd1	0.348941	1.79803	0.00125	0.00422	yes
H2-T9	0.348817	0.322017	0.52385	0.648676	no
Zfp13	0.348699	0.719337	0.19655	0.309401	no
Praf2	0.348684	1.85141	0.0026	0.008011	yes
Hint3	0.348339	1.54368	0.02665	0.060049	no
Traf3ip1	0.348251	0.939296	0.07755	0.146582	no
Gm960	0.348106	0	1	1	no
Rbfox3	0.348077	1.6073	0.0013	0.004375	yes
Med8	0.348035	1.15188	0.0203	0.04771	yes
Ropn1	0.347997	0	1	1	no
Eed	0.347978	0.995015	0.0695	0.134274	no
Fxr1	0.34795	1.76249	0.00145	0.004804	yes
Prkaa2	0.347789	1.59405	0.00195	0.006219	yes
Kirrel3	0.347713	1.36775	0.0062	0.017151	yes
Med15	0.347505	1.44146	0.0033	0.009856	yes
Gfer	0.347494	0.905259	0.10535	0.187457	no
Cutal	0.347243	0	1	1	no

Upk1b	0.34723	0	1	1	no
2700062C07Rik	0.347114	0.700208	0.2533	0.37593	no
Ankrd49	0.347052	0.960835	0.0883	0.16212	no
Gltscr1l	0.347045	1.37215	0.0075	0.020274	yes
Wdr35	0.346964	1.33682	0.0072	0.01953	yes
Rab3il1	0.346889	0.719693	0.1841	0.294414	no
AI429214	0.346822	0.444595	0.4245	0.555847	no
Uba7	0.346806	0.758655	0.1535	0.254911	no
Zfp455	0.346677	0.490115	0.36075	0.492952	no
Shoc2	0.34649	1.33464	0.0068	0.018594	yes
Srsf1	0.346454	1.60936	0.001	0.003451	yes
Caap1	0.346448	0.815073	0.1367	0.232274	no
Gmds	0.346292	1.04322	0.07075	0.136173	no
Utp14a	0.346276	0.961433	0.0523	0.105982	no
Ipo8	0.346227	1.60303	0.0017	0.005514	yes
Pnkp	0.346167	1.07483	0.03065	0.067671	no
Ubb	0.34598	1.47276	0.00285	0.008668	yes
Tgfbrap1	0.34549	1.51938	0.004	0.011645	yes
Fam60a	0.345431	0	1	1	no
2900055J20Rik	0.345205	0.790782	0.25335	0.37593	no
Adora1	0.345016	1.58492	0.0016	0.005236	yes
Acaa1a	0.345003	1.40423	0.0138	0.034286	yes
Jmjd6	0.34493	1.0269	0.07175	0.137798	no
Phf1	0.344911	1.30102	0.0083	0.022156	yes
Gpr68	0.344893	0.65209	0.1943	0.306805	no
Cwc22	0.344887	0.62605	0.20925	0.325492	no
Wdr78	0.34448	0.723515	0.17175	0.278456	no
Dgcr8	0.34441	1.04278	0.0382	0.081257	no
Tle4	0.344341	1.55376	0.00205	0.006503	yes
Nufip1	0.344276	0.964014	0.06925	0.133927	no
E130309D14Rik	0.344244	1.4349	0.0067	0.018343	yes
Yod1	0.344241	0.667492	0.1821	0.291954	no
Fkbp1a	0.34412	1.8235	0.0016	0.005236	yes
Gtf2h1	0.34398	1.33638	0.008	0.021468	yes
Ip6k2	0.343959	1.45327	0.009	0.023696	yes
Specc1	0.343911	0.956772	0.054	0.108779	no
Stip1	0.343351	1.77637	0.00105	0.003607	yes
Commd1	0.343196	0.946625	0.15535	0.257275	no
3110056K07Rik	0.343073	0.34832	0.48605	0.614077	no
Crebrf	0.342967	1.53327	0.00245	0.007605	yes
Mcm4	0.342757	1.08127	0.03715	0.079405	no
Rmdn3	0.342556	1.16344	0.0327	0.071377	no
Pkn1	0.342484	0.914633	0.0707	0.136116	no
Ankrd54	0.342416	0.909857	0.10405	0.185592	no
Sepw1	0.342408	2.24476	0.0009	0.003139	yes
Crat	0.342034	1.00236	0.04355	0.091046	no
Hdgf	0.341957	1.73769	0.00125	0.00422	yes
Pwp2	0.341933	1.28809	0.01345	0.03351	yes
Mmp24	0.341917	1.2491	0.0182	0.043483	yes
Zfp74	0.34165	0.923113	0.07985	0.150031	no
Lgals3bp	0.341561	1.58052	0.00415	0.012021	yes
BB283400	0.341548	0	1	1	no
Zfp26	0.341495	1.23304	0.0172	0.041459	yes

Arl8a	0.341321	1.80673	0.00135	0.004516	yes
Agap3	0.341294	1.52012	0.00225	0.007062	yes
Sat2	0.341266	0.648382	0.31705	0.446861	no
Gm765	0.341107	1.83352	0.0055	0.015427	yes
Tnfaip8	0.34109	0.604078	0.21705	0.334565	no
Gas2l1	0.341068	1.4315	0.00385	0.011268	yes
Agbl4	0.340936	0.371531	0.4982	0.625023	no
Zfp869	0.340913	1.00972	0.0443	0.092396	no
Uba3	0.34075	1.53047	0.00205	0.006503	yes
Cnppd1	0.340746	1.38921	0.01	0.025958	yes
Armc3	0.340733	0	1	1	no
Rpl21	0.340695	0.875741	0.11685	0.2039	no
Suv39h1	0.340679	1.06969	0.0296	0.065724	no
Clock	0.340659	1.34441	0.0078	0.020982	yes
Mrpl14	0.340629	1.26512	0.09355	0.169901	no
Ptpn12	0.34059	1.39492	0.00875	0.023162	yes
Polh	0.340548	0.858225	0.10855	0.191967	no
Maz	0.340396	1.64251	0.0023	0.007205	yes
Plekhf2	0.340312	0.916599	0.08725	0.160614	no
Hdgfrp3	0.340281	1.19818	0.0167	0.040408	yes
Trmt61a	0.34025	0.821165	0.09895	0.178003	no
Mx2	0.340069	0.488468	0.3221	0.452632	no
Smim14	0.340021	1.69885	0.00195	0.006219	yes
Eif2s2	0.340007	1.2707	0.0192	0.045454	yes
Pp2d1	0.339942	0	1	1	no
Gck	0.339595	0	1	1	no
Mfng	0.339445	0.47932	0.4013	0.532897	no
Tcf3	0.339203	1.04583	0.03575	0.076921	no
Ddx18	0.339033	0.63283	0.2479	0.370162	no
Irf5	0.338952	0.61795	0.21025	0.326741	no
Foxl2	0.338925	0	1	1	no
Rtfdc1	0.338884	1.64666	0.0025	0.007739	yes
Dctn1	0.338759	1.44977	0.0039	0.011392	yes
Ago2	0.338554	1.52657	0.0029	0.008796	yes
Mblac2	0.338546	1.42023	0.00715	0.019434	yes
3110057012Rik	0.338513	0.464617	0.3482	0.480305	no
Hspbap1	0.338418	0.798402	0.1294	0.222118	no
Mcrs1	0.338396	0.710101	0.18355	0.293711	no
Ccnt2	0.338363	1.32514	0.01205	0.030463	yes
Fsd1l	0.338322	1.54577	0.0021	0.006649	yes
Pcbp4	0.338204	1.66842	0.00175	0.00566	yes
Akap8	0.337983	1.42999	0.00665	0.018232	yes
Tjap1	0.337904	0.754825	0.1286	0.221203	no
Blzf1	0.337869	1.19051	0.01685	0.040719	yes
Gse1	0.33786	1.30521	0.0099	0.025759	yes
Glis1	0.337606	0	1	1	no
Pibf1	0.337592	0.708197	0.15335	0.254726	no
Ezh1	0.337387	1.55236	0.0026	0.008011	yes
BC048403	0.337307	1.13544	0.03235	0.070741	no
Cradd	0.337298	0.820399	0.1511	0.251618	no
Tcf7	0.337201	0.529471	0.32975	0.460796	no
Gm3488	0.337192	0	1	1	no
Aup1	0.337112	1.49598	0.0092	0.024131	yes

Tmeff2	0.337098	1.6365	0.00195	0.006219	yes
Il6st	0.336805	1.49472	0.0039	0.011392	yes
Usp15	0.336737	1.61851	0.0023	0.007205	yes
Rfxap	0.336693	1.03011	0.05845	0.116417	no
Rev3l	0.336603	1.31209	0.0088	0.023271	yes
Mettl18	0.336452	0.588769	0.3063	0.435177	no
Dph5	0.336314	0.973236	0.08845	0.162305	no
Zfp944	0.336253	0.938413	0.08155	0.152362	no
Dcps	0.336252	0.57231	0.24655	0.368727	no
Txlng	0.335991	0.323372	0.5454	0.667265	no
Ccdc148	0.335949	0.745326	0.15755	0.259945	no
1110065P20Rik	0.335939	0.701584	0.1583	0.26089	no
Ccdc67	0.335767	0	1	1	no
Zfp414	0.335609	0.936561	0.0596	0.118193	no
Cdkn2aipnl	0.335562	1.38174	0.01505	0.036948	yes
Trim67	0.335543	1.58507	0.0016	0.005236	yes
Cdpf1	0.335333	0.736854	0.1354	0.230508	no
Zfp935	0.335203	0.773275	0.1165	0.203396	no
Bean1	0.335086	1.51936	0.0027	0.008273	yes
Zfp207	0.335	1.40749	0.0043	0.012421	yes
Nxph4	0.33465	0.449279	0.4336	0.565252	no
Gpr161	0.33461	0.968872	0.0806	0.151013	no
Nras	0.334251	1.58786	0.0024	0.00748	yes
Fam171a2	0.334216	1.41555	0.00795	0.021355	yes
Ghr	0.333986	1.18219	0.0187	0.044477	yes
Cinp	0.333777	1.1514	0.01865	0.044374	yes
S100a10	0.333748	2.26705	0.0014	0.004657	yes
Ddx27	0.333728	1.13308	0.0331	0.072073	no
Plekhj1	0.33368	1.26777	0.03165	0.069451	no
Src	0.33363	1.388	0.0053	0.014929	yes
Wdr44	0.333622	1.39079	0.0076	0.02049	yes
Mc3r	0.333246	0	1	1	no
Gsr	0.333243	1.60944	0.0026	0.008011	yes
Trp53bp1	0.333229	1.28649	0.01025	0.026534	yes
Timm13	0.332856	1.33061	0.00855	0.022737	yes
Dpf2	0.332794	1.46613	0.00275	0.008412	yes
Rqcd1	0.332694	0.722209	0.17475	0.282148	no
Ranbp1	0.332684	1.53948	0.01815	0.043387	yes
Cox5b	0.332653	0.919476	0.22905	0.349348	no
Polm	0.332607	0.632617	0.2342	0.354898	no
Mthfs	0.332481	0.635467	0.34695	0.478929	no
Rexo1	0.332403	1.20927	0.01835	0.043778	yes
Fbxl3	0.332335	1.52165	0.00395	0.011515	yes
Qtrt1	0.332332	0.659489	0.2628	0.38658	no
Rgs7bp	0.332152	1.49549	0.00385	0.011268	yes
Ppp1r36	0.332068	0	1	1	no
Atf2	0.332063	1.46526	0.00345	0.010237	yes
Phf7	0.331962	0.554498	0.3176	0.447446	no
Plek	0.331896	0.831814	0.11185	0.196545	no
Bend3	0.331741	0.86958	0.08935	0.163527	no
Glmn	0.331597	0.726702	0.1898	0.301494	no
Etaa1	0.331533	0.929316	0.07815	0.147526	no
Rnf113a1	0.331485	0.51146	0.39485	0.52648	no

Dtymk	0.331367	0.831463	0.09525	0.172516	no
Mfhas1	0.331341	1.50789	0.00265	0.008146	yes
Mark2	0.33128	1.47295	0.00295	0.008927	yes
Pwp1	0.331273	1.22336	0.0234	0.053776	no
Cdr2	0.331226	1.49303	0.0062	0.017151	yes
Pcdha10	0.331162	0.182489	0.7113	0.804914	no
Rp1	0.331143	0	1	1	no
Txnrd2	0.331048	0.439327	0.3805	0.511977	no
Srsf6	0.331007	1.59154	0.00275	0.008412	yes
Cabin1	0.330976	1.39803	0.0058	0.016179	yes
Safb	0.330957	1.47945	0.0052	0.014691	yes
Aplf	0.330819	0.673736	0.17755	0.286251	no
Adora2a	0.330711	0.744806	0.16835	0.27415	no
Gbp10	0.330523	0	1	1	no
Coro1b	0.330467	1.58912	0.0043	0.012421	yes
Top3a	0.330388	0.757673	0.1469	0.246076	no
Ccar1	0.330364	1.36747	0.0056	0.015668	yes
Mcts2	0.330284	0.263731	0.5942	0.708225	no
Piwil2	0.330265	0	1	1	no
Rheb	0.330056	1.71743	0.0022	0.006933	yes
Kdm1a	0.329953	1.46428	0.0076	0.02049	yes
Rims3	0.329429	1.58669	0.01215	0.030692	yes
Ptov1	0.329226	1.65702	0.0027	0.008273	yes
Riok3	0.3292	1.52455	0.00375	0.011009	yes
Ube3a	0.329182	1.56545	0.00305	0.009188	yes
Hnrnpf	0.329136	1.22904	0.0131	0.032767	yes
Ids	0.328977	1.49589	0.00405	0.011765	yes
Bik	0.328964	0	1	1	no
Tmem234	0.328699	1.54001	0.02225	0.051589	no
B230219D22Rik	0.328691	1.59394	0.00195	0.006219	yes
Mtus1	0.32868	1.45468	0.0041	0.011903	yes
Tet2	0.328644	0.966767	0.0568	0.11366	no
Evpl	0.328566	0	1	1	no
Snrnp48	0.328545	0.961313	0.0856	0.158412	no
Reep4	0.328453	0.665815	0.23055	0.35093	no
H2-M3	0.328248	0.82021	0.15485	0.256607	no
Hdac4	0.328217	1.22679	0.02075	0.048621	yes
Nsl1	0.328215	0.505676	0.3463	0.47838	no
Mir8104	0.328134	0	1	1	no
Ufd1l	0.328087	1.39763	0.00475	0.013561	yes
Uap1l1	0.328036	1.03477	0.0681	0.132107	no
6330403K07Rik	0.328009	1.64955	0.00345	0.010237	yes
Nup85	0.327987	1.1953	0.02845	0.063522	no
Tmem131	0.327801	1.51731	0.0029	0.008796	yes
Lrrc29	0.327783	0	1	1	no
Fam217a	0.327175	0	1	1	no
2810047C21Rik1	0.32707	0	1	1	no
Sart3	0.327045	1.2449	0.01865	0.044374	yes
Rpl27a	0.326978	1.0807	0.0284	0.063442	no
Exoc5	0.326928	1.40583	0.0071	0.019306	yes
B4galt6	0.326919	1.58277	0.0019	0.00608	yes
Lymr2	0.326588	1.18381	0.04025	0.085004	no
Bcap29	0.326528	1.34203	0.0072	0.01953	yes

Mcoln1	0.3262	1.48106	0.0072	0.01953	yes
Snrpa	0.326124	1.04801	0.07355	0.14032	no
Pigu	0.326	1.17901	0.0178	0.04265	yes
Inadl	0.325935	1.46057	0.0032	0.009592	yes
Rtkn	0.325831	1.34245	0.00805	0.021589	yes
B930003M22Rik	0.325772	0	1	1	no
Rpl18a	0.325735	0.648806	0.1921	0.304128	no
Grm7	0.325691	1.52636	0.00355	0.010494	yes
Setd1a	0.32564	1.32954	0.01	0.025958	yes
Mettl17	0.325603	0.692521	0.2212	0.339778	no
Galt	0.325418	0.910741	0.09925	0.178349	no
Rb1	0.325227	1.28076	0.0139	0.034515	yes
Cttn	0.32515	1.45551	0.00365	0.010754	yes
Fam154b	0.325038	0	1	1	no
Gimap4	0.324732	0.455021	0.31325	0.44287	no
Zkscan14	0.324707	0.75532	0.1725	0.279433	no
Caml	0.324579	1.4616	0.0124	0.031187	yes
Srp19	0.324455	1.53365	0.0165	0.03999	yes
Rev1	0.324427	0.397476	0.41015	0.542032	no
Nagpa	0.3244	0.764389	0.1274	0.219338	no
Rabl2	0.324188	0.994484	0.08125	0.151973	no
Atox1	0.324076	2.02045	0.0269	0.06053	no
Zfp131	0.32404	1.15311	0.02935	0.065257	no
Hoxd10	0.324022	0.625577	0.25975	0.383198	no
Prkar2a	0.323963	1.60011	0.00235	0.007346	yes
Arrdc3	0.32377	1.28605	0.0144	0.035596	yes
Mrps25	0.323677	0.722415	0.14565	0.244693	no
Cldn5	0.323414	1.26348	0.0287	0.063994	no
Sox12	0.323378	1.08307	0.03545	0.076362	no
Arid4b	0.323324	1.24625	0.01085	0.02787	yes
Rundc3b	0.323309	1.20411	0.02295	0.05287	no
Arhgap23	0.323067	1.34319	0.0066	0.01811	yes
Neil1	0.323028	0.47927	0.4341	0.565793	no
Brf1	0.322965	1.12915	0.03665	0.078514	no
Cd207	0.322847	0	1	1	no
Pirt	0.322822	1.36667	0.006	0.016674	yes
Hectd3	0.322684	1.49046	0.0043	0.012421	yes
Adcyap1	0.322643	1.54258	0.00485	0.01382	yes
Ccdc124	0.322253	1.71415	0.00735	0.019896	yes
C4bp-ps1	0.321945	0	1	1	no
Ccdc181	0.321837	1.26414	0.02355	0.054046	no
Prr24	0.321736	1.1921	0.03255	0.071097	no
Nsa2	0.321674	0.53279	0.28335	0.409143	no
Wdr1	0.321633	1.61704	0.0025	0.007739	yes
Fbxl6	0.321554	0.957376	0.08775	0.161288	no
Dcun1d3	0.321419	1.19352	0.016	0.038963	yes
Cdc14b	0.321409	1.11661	0.0282	0.063027	no
Limk2	0.321322	0.869913	0.09835	0.177188	no
2410089E03Rik	0.321226	1.29423	0.0114	0.029069	yes
Senp6	0.321174	1.48148	0.0041	0.011903	yes
Set	0.320892	1.38969	0.00395	0.011515	yes
Vps37d	0.320716	0.644752	0.1897	0.301407	no
Strip1	0.320678	1.36888	0.00875	0.023162	yes

1500011K16Rik	0.320652	1.28508	0.04815	0.099055	no
Trim7	0.320637	0.45397	0.43465	0.566398	no
Pycr2	0.32053	1.21904	0.0298	0.066091	no
Rbm28	0.320477	1.19915	0.02325	0.053468	no
Cml1	0.320423	0.621588	0.3161	0.445901	no
Hnrnpa2b1	0.320126	1.4928	0.0021	0.006649	yes
Dcaf4	0.320126	1.00777	0.0432	0.090414	no
Ikzf5	0.320121	0.972274	0.0626	0.122966	no
Rbl1	0.320096	0.487743	0.3174	0.447212	no
Smagp	0.319934	0.297808	0.4906	0.61806	no
Capn10	0.319885	1.10949	0.0236	0.054132	no
Nfyb	0.319831	1.10491	0.03895	0.082654	no
Ube2f	0.319831	1.09618	0.05885	0.117091	no
Arv1	0.319762	0.589372	0.3249	0.455698	no
1810009A15Rik	0.319686	0.664553	0.18245	0.292339	no
Hnrnph3	0.319573	0.589583	0.23775	0.358994	no
Otud1	0.319412	0.904915	0.09345	0.169813	no
Rfng	0.319245	1.27345	0.0199	0.046886	yes
D10Bwg1379e	0.319204	1.4915	0.0032	0.009592	yes
Plgrkt	0.31872	0.840162	0.19335	0.305705	no
Lasp1	0.318657	1.54707	0.0039	0.011392	yes
Siah1b	0.318655	0.544146	0.333	0.464213	no
Rab21	0.318638	1.62104	0.00405	0.011765	yes
Use1	0.318615	1.2178	0.01355	0.03374	yes
9330133O14Rik	0.31854	0.522195	0.2887	0.415376	no
Ncor2	0.318528	1.46291	0.00295	0.008927	yes
Ube2b	0.318524	1.64792	0.0031	0.009315	yes
Pes1	0.318441	1.09078	0.03935	0.083396	no
Ccsap	0.318364	0.576864	0.27855	0.404236	no
Tceb2	0.318331	0.524311	0.295	0.422562	no
Peli3	0.318309	1.05275	0.0584	0.116335	no
Trappc9	0.318213	0.751035	0.1303	0.223287	no
Fzr1	0.318168	1.4033	0.01	0.025958	yes
Rap1gap2	0.31813	1.53339	0.0028	0.008532	yes
Cers5	0.318126	1.40995	0.0103	0.026643	yes
Afmid	0.318094	0.474552	0.33775	0.469306	no
Fdft1	0.317964	0.401897	0.41755	0.549295	no
Akt1s1	0.317527	1.21655	0.0144	0.035596	yes
Nudt1	0.317166	0.696107	0.2711	0.39598	no
Alg8	0.316876	0.69295	0.2071	0.322677	no
Nipal3	0.316829	1.40317	0.00615	0.017052	yes
Tut1	0.316714	0.986562	0.065	0.126929	no
Rpap1	0.316701	1.00047	0.04755	0.098049	no
Nr1i3	0.316624	0	1	1	no
Ogfod2	0.316279	1.14024	0.0436	0.091122	no
3632451O06Rik	0.316264	1.57925	0.00335	0.009985	yes
Rmi1	0.316103	0.44865	0.37005	0.501561	no
Scyl3	0.316092	1.02351	0.0507	0.103403	no
Hnrnpdl	0.316067	1.43564	0.0087	0.023066	yes
Naca	0.31606	0.57482	0.2411	0.362908	no
Mak16	0.316029	0.687144	0.166	0.271122	no
Ssbp4	0.315969	1.05764	0.0625	0.122843	no
Parp2	0.315921	0.885088	0.113	0.198224	no

Dnaja7	0.315897	1.60418	0.0032	0.009592	yes
B4galt1	0.315804	1.18193	0.01865	0.044374	yes
Rbm34	0.315729	1.12536	0.03205	0.070178	no
Slc38a7	0.315621	1.33568	0.0109	0.027982	yes
Zwilch	0.315505	0.531194	0.28195	0.407915	no
Polr3e	0.315398	1.07714	0.0302	0.066822	no
Gpank1	0.315366	0.672598	0.17985	0.289256	no
Trim38	0.315249	0	1	1	no
Zfp287	0.315047	0.917168	0.0762	0.144524	no
Tmem181a	0.314875	1.28104	0.01335	0.033305	yes
Med12l	0.314856	1.30434	0.01165	0.029609	yes
Ormdl1	0.314694	0.950692	0.08685	0.160055	no
Zfp553	0.314665	0.886022	0.1023	0.182962	no
Aldh3b1	0.314588	0.83759	0.13575	0.230956	no
Rps24	0.314536	0.732606	0.1371	0.232686	no
Ccnc	0.314531	1.15506	0.0479	0.098648	no
Ythdc1	0.314494	1.30264	0.01425	0.035265	yes
Cpsf7	0.314445	1.26237	0.01075	0.027656	yes
Lurap1l	0.314311	1.06056	0.0583	0.116171	no
Mrps12	0.314309	1.38099	0.0469	0.096965	no
Thap7	0.314202	0.948384	0.1164	0.203248	no
Cdkn1b	0.314104	1.50455	0.00525	0.014813	yes
Cdnf	0.313906	0.745754	0.129	0.221603	no
Pthr2	0.313687	0.0891851	0.87505	0.92269	no
Rexo4	0.313465	1.1748	0.03165	0.069451	no
Evi5	0.313448	1.45828	0.00305	0.009188	yes
Tcea1	0.313379	1.01379	0.0414	0.0871	no
Add2	0.313228	1.3727	0.00575	0.016057	yes
Dcaf13	0.31296	1.21741	0.0369	0.078998	no
Chic2	0.312904	0.899054	0.139	0.235279	no
Hist3h2ba	0.312864	0.961189	0.2848	0.410834	no
Rassf3	0.312831	1.4367	0.00665	0.018232	yes
Spsb3	0.312818	1.11372	0.0248	0.056514	no
Zfp688	0.312677	0.737873	0.2326	0.353442	no
Wdr83os	0.31262	1.09878	0.1169	0.20396	no
Lgi1	0.312518	1.40959	0.00695	0.018933	yes
Erh	0.312516	0.956987	0.14925	0.249038	no
Igfbp2	0.312374	0.86375	0.13845	0.234557	no
Mif4gd	0.312319	0.723318	0.14735	0.246612	no
Gimap5	0.312118	0.44073	0.4323	0.563834	no
Zfp653	0.311793	0.377689	0.4888	0.616378	no
Azi2	0.311544	1.30896	0.0129	0.032322	yes
Hdac7	0.31153	0.345987	0.48175	0.610272	no
Cpeb4	0.311503	1.43439	0.00415	0.012021	yes
Trafd1	0.311438	1.18936	0.0186	0.044295	yes
Krba1	0.311428	0.863859	0.09255	0.168454	no
Ppp1r3e	0.31138	1.02024	0.0709	0.136442	no
Acat2	0.311042	1.5286	0.00515	0.014587	yes
Thumpd1	0.310887	1.31129	0.0146	0.035997	yes
Pdcd2l	0.310828	0.899877	0.12385	0.214255	no
4932438A13Rik	0.310506	1.46359	0.0036	0.010628	yes
Dgkq	0.310468	1.01053	0.05335	0.107633	no
Gm16894	0.310411	0	1	1	no

Whsc1l1	0.310198	1.12232	0.024	0.054955	no
Dand5	0.310166	0.627871	0.2021	0.316373	no
Mogs	0.310161	1.1376	0.03665	0.078514	no
Mad2l1	0.309968	0.734763	0.1892	0.300685	no
Aloxe3	0.309945	0	1	1	no
Mdp1	0.309893	1.08671	0.0292	0.064967	no
Ubash3b	0.309833	1.5527	0.0029	0.008796	yes
Noxred1	0.309684	0	1	1	no
Rbm10	0.309606	0.507783	0.3134	0.442893	no
Dcxr	0.309453	0.482609	0.45245	0.582556	no
Brat1	0.309157	1.04516	0.0365	0.078281	no
Syt15	0.308904	0.528431	0.284	0.409814	no
Xpc	0.308886	0.893458	0.0909	0.165974	no
Mrps33	0.308715	0.638035	0.2008	0.314784	no
Nwd2	0.308585	1.41008	0.00535	0.015044	yes
Scmh1	0.308558	1.04026	0.0375	0.079986	no
Gpsm3	0.308526	0.625203	0.28255	0.408299	no
Rbm7	0.308513	0.986838	0.0501	0.102368	no
Gtpbp1	0.308356	1.0556	0.0458	0.095105	no
Pus7	0.308299	0.805021	0.1093	0.192907	no
Cpsf6	0.308289	1.36603	0.00825	0.02204	yes
Nubp1	0.307767	0.525872	0.3385	0.470052	no
Atp6v0b	0.307766	1.78855	0.00385	0.011268	yes
Wdyhv1	0.30761	0.983065	0.0946	0.171503	no
Fnbp4	0.307283	1.08227	0.0374	0.079824	no
1110032F04Rik	0.307275	1.38504	0.01025	0.026534	yes
Zscan26	0.307096	1.22438	0.01425	0.035265	yes
Mrpl33	0.306803	1.32961	0.1251	0.216051	no
Dpysl3	0.306735	1.24487	0.0116	0.029488	yes
Il11ra2	0.306702	0	1	1	no
Slc20a1	0.306605	1.37332	0.0056	0.015668	yes
Armcx1	0.306429	1.42289	0.00445	0.012807	yes
Exosc9	0.306257	0.823602	0.1346	0.229411	no
Cep83os	0.306148	1.17946	0.02465	0.056249	no
Gpi1	0.306139	1.54454	0.0034	0.010109	yes
Hspa1a	0.306068	0.937142	0.0768	0.145392	no
Prpf3	0.306039	0.85695	0.1131	0.198321	no
Eif3g	0.305995	1.55088	0.0124	0.031187	yes
AI467606	0.305941	0.390885	0.484	0.612362	no
Ube2a	0.305658	1.45374	0.0089	0.023488	yes
Arcp3	0.305605	1.7861	0.00555	0.015544	yes
Zfp865	0.305544	0.90786	0.06715	0.130513	no
Gab2	0.305538	1.25947	0.0111	0.028407	yes
C230052I12Rik	0.305522	0.478667	0.34035	0.472374	no
Uba5	0.305489	1.29805	0.01545	0.037763	yes
Nxn	0.305478	1.14213	0.03265	0.07128	no
Steap3	0.305436	1.2697	0.0098	0.025539	yes
Sertad2	0.305232	1.25267	0.0118	0.029945	yes
Snpc1	0.30521	1.22527	0.0256	0.058038	no
Shc2	0.305091	1.49563	0.00465	0.013316	yes
Vsig10l	0.304939	0.522514	0.3246	0.455422	no
Nipsnap1	0.304924	1.32801	0.00845	0.022507	yes
Bcl2l2	0.304875	1.51998	0.0049	0.013947	yes

9530051G07Rik	0.304567	0	1	1	no
Cryl1	0.304522	0.811741	0.16115	0.264863	no
Mmp16	0.304478	0.769531	0.1376	0.233296	no
Metap2	0.304268	1.45883	0.0048	0.013695	yes
Msl1	0.303985	1.12195	0.0315	0.069179	no
Lsm6	0.303926	1.05328	0.0358	0.077004	no
Pmm2	0.303711	1.03671	0.0602	0.119081	no
Ddb2	0.303546	0.228696	0.64925	0.753332	no
Slc16a3	0.30349	0.40964	0.407	0.538782	no
Selk	0.303405	1.55979	0.0126	0.031654	yes
Gmcl1	0.303218	1.3636	0.0124	0.031187	yes
1190007I07Rik	0.302907	0.307608	0.51745	0.642912	no
Serping1	0.302602	1.50917	0.00685	0.018707	yes
Gga2	0.302569	1.44941	0.00565	0.015794	yes
Cpb1	0.302389	0.736569	0.2016	0.315814	no
Cc2d1b	0.301935	1.35313	0.00985	0.025654	yes
Plk4	0.301935	0.639737	0.19595	0.308713	no
Cyp2ab1	0.301911	0	1	1	no
H2afz	0.30171	0.768718	0.2112	0.32768	no
Rrs1	0.301573	0.982691	0.07235	0.138509	no
Zfp263	0.301418	0.840773	0.11865	0.20666	no
F630042J09Rik	0.301361	0	1	1	no
Slc7a4	0.30108	0.987841	0.06385	0.125014	no
Tubgcp3	0.301	1.21867	0.0215	0.050104	no
Tmem186	0.300944	0.978066	0.0653	0.127402	no
Dph6	0.300941	1.19094	0.02785	0.062371	no
Taf5l	0.300667	0.952023	0.0752	0.142893	no
Klhl18	0.300506	1.02015	0.0474	0.097816	no
Aip	0.300268	1.01051	0.04105	0.086487	no
Dyrk3	0.300203	0.661327	0.23035	0.350706	no
Klhdc4	0.30002	0.967133	0.0786	0.148123	no
Wash	0.300005	1.11546	0.02745	0.0616	no
Rab4a	0.299723	1.3837	0.01755	0.042165	yes
H2-K1	0.29968	1.43009	0.01175	0.029824	yes
Kif26b	0.299602	1.15233	0.023	0.052958	no
Zfp775	0.299569	0.645791	0.21645	0.334223	no
Pcbp3	0.299442	1.54542	0.00475	0.013561	yes
Slc48a1	0.299435	1.44372	0.00695	0.018933	yes
Sema3a	0.29942	0	1	1	no
Ifngr2	0.29936	1.38938	0.0123	0.031006	yes
Kansl3	0.299354	1.31085	0.0082	0.02192	yes
Trpc2	0.29926	0	1	1	no
2700089E24Rik	0.299164	1.26314	0.00945	0.024728	yes
Ccdc149	0.299159	1.20228	0.0245	0.055974	no
Mccc1	0.29912	1.04143	0.0528	0.106799	no
Man2c1os	0.299102	0	1	1	no
Trib2	0.298707	1.38466	0.0053	0.014929	yes
Tmem100	0.298421	1.25171	0.0254	0.057673	no
Tmem109	0.298336	1.34585	0.01515	0.037166	yes
Ptpn6	0.298132	0.445328	0.36675	0.498532	no
Ankrd16	0.29807	0.693267	0.1995	0.313264	no
Toe1	0.297967	0.657014	0.1864	0.297268	no
Bicd2	0.297857	1.30717	0.0092	0.024131	yes

Tmem63c	0.297785	1.41247	0.0072	0.01953	yes
Fam98b	0.297677	1.26092	0.0259	0.058607	no
Rcc2	0.297637	1.44397	0.00595	0.016553	yes
Mbtd1	0.297577	0.836931	0.10305	0.18408	no
Stard4	0.297424	1.33201	0.01255	0.03154	yes
Fbxw7	0.297276	1.34182	0.00755	0.020384	yes
Mospd4	0.297274	0	1	1	no
Tatdn3	0.297224	0.550431	0.2658	0.390128	no
Akr1b3	0.297106	0	1	1	no
Cdk18	0.296921	0.625828	0.242	0.363678	no
Dennd4a	0.296825	1.35365	0.0074	0.02002	yes
Zfp758	0.296682	0.921869	0.08155	0.152362	no
Robo4	0.296556	0.740756	0.1582	0.260823	no
Snrpd1	0.296551	1.01965	0.13	0.222888	no
Rtn4rl2	0.29629	0.995067	0.0956	0.173032	no
Malt1	0.296145	0.110882	0.8333	0.893148	no
Hscb	0.296111	0.755378	0.2606	0.384025	no
Eif4enif1	0.296057	0.47634	0.36915	0.500768	no
Smarca5	0.296036	1.11812	0.03205	0.070178	no
Akap9	0.295995	1.33782	0.00775	0.020864	yes
Ccdc130	0.295926	0.676151	0.21705	0.334565	no
Dusp22	0.295899	1.02601	0.036	0.077359	no
B130034C11Rik	0.295883	0	1	1	no
Ttll3	0.295864	0.225835	0.6473	0.751777	no
Zdhhc20	0.295801	1.20874	0.02015	0.047407	yes
2810408I11Rik	0.295754	0	1	1	no
S100a5	0.295476	0	1	1	no
Rps13	0.29527	0.362427	0.64245	0.74819	no
Chsy3	0.295245	0	1	1	no
Zfp384	0.295072	0.844756	0.086	0.158953	no
Mysm1	0.294857	0.995209	0.0489	0.100365	no
N4bp2	0.294753	0	1	1	no
Thoc6	0.29448	0.520813	0.37585	0.507367	no
Slc2a1	0.294333	1.33471	0.014	0.034743	yes
Arhgef11	0.293692	1.42802	0.006	0.016674	yes
Pttg1	0.293682	0.889786	0.07595	0.144153	no
Trp53inp1	0.293481	1.09014	0.0294	0.065346	no
Fbxl15	0.293339	0.531399	0.36375	0.495826	no
Psmb10	0.293325	1.10964	0.05625	0.112678	no
Zfp715	0.293308	0.995448	0.05555	0.111562	no
Zfp810	0.29312	0.440412	0.40835	0.540299	no
Pla2g15	0.293073	1.05029	0.04895	0.100452	no
Ccdc64	0.292841	1.07503	0.0544	0.109518	no
Car15	0.292459	0.398303	0.5125	0.638495	no
Spry2	0.292355	1.15714	0.03285	0.071646	no
Figla	0.292202	0	1	1	no
Cox18	0.292178	0.758306	0.1265	0.218185	no
2310009B15Rik	0.292142	0.564298	0.4601	0.589545	no
Mipol1	0.292127	0.363124	0.46855	0.597774	no
Fsd2	0.292112	0	1	1	no
Snrnp35	0.292102	0.801712	0.18625	0.2971	no
3110007F17Rik	0.292043	0.391157	0.5388	0.661202	no
Pcbp1	0.291995	1.53671	0.0065	0.017869	yes

Ctnnbip1	0.29195	1.23474	0.0134	0.033404	yes
Irak1bp1	0.291892	0.651489	0.1908	0.302611	no
Fancf	0.291871	0.557828	0.3235	0.454119	no
Zfp58	0.291749	0.591768	0.27915	0.404974	no
Nasp	0.29174	0.735951	0.1427	0.240254	no
Zfand2a	0.29173	1.22285	0.0148	0.036422	yes
Nenf	0.291722	1.30688	0.0675	0.131116	no
Zfand4	0.291714	0	1	1	no
Lpgat1	0.291592	1.35998	0.0063	0.017413	yes
Klkb1	0.291322	0	1	1	no
Ppp1ca	0.291315	1.54749	0.00875	0.023162	yes
Usp20	0.291229	1.43441	0.0065	0.017869	yes
Clca5	0.291134	0	1	1	no
Ptprm	0.291042	1.197	0.01635	0.039706	yes
Nedd8	0.291013	1.91718	0.00995	0.025858	yes
Pcnp	0.290891	1.33462	0.01495	0.036744	yes
Naip6	0.290712	0	1	1	no
Prss36	0.290667	0.632403	0.22875	0.349192	no
Ttc39c	0.290596	1.20844	0.0147	0.03621	yes
Phrf1	0.290447	1.17317	0.02355	0.054046	no
Rpl5	0.290386	0.817521	0.1372	0.232826	no
Lrriq1	0.290269	0.428386	0.38305	0.514261	no
Bard1	0.290257	0	1	1	no
Nrbp2	0.290208	1.40924	0.0092	0.024131	yes
St8sia6	0.290124	0	1	1	no
Rpl17	0.289955	0.236401	0.6329	0.740057	no
Pbrm1	0.289813	1.34324	0.0089	0.023488	yes
Phf13	0.289788	0.944037	0.07255	0.138752	no
P4ha2	0.289777	0.800566	0.10985	0.193723	no
Mcu	0.289587	1.27705	0.01725	0.041565	yes
Cops7b	0.289421	1.02476	0.05665	0.113411	no
Kif5a	0.289348	0.997146	0.0419	0.087943	no
Gfod1	0.289318	1.38037	0.0069	0.018824	yes
Kdm6a	0.289281	1.00016	0.04915	0.100769	no
Dhrsx	0.289116	0.750628	0.1717	0.278409	no
Ppm1a	0.289012	1.46565	0.00455	0.013069	yes
Naaa	0.288964	1.12342	0.02365	0.054228	no
Sart1	0.288786	1.2439	0.01485	0.036518	yes
Snhg1	0.288748	0.534579	0.3921	0.523761	no
Pcdha11	0.288568	0.163465	0.7508	0.835082	no
Mrps23	0.288561	0.856841	0.0874	0.160868	no
Dhx16	0.28853	1.04055	0.05105	0.103925	no
Slc25a19	0.288261	0.995474	0.0442	0.092245	no
Arl6ip4	0.28822	1.17305	0.0494	0.10114	no
Hp1bp3	0.288016	1.34346	0.00785	0.021108	yes
Katna1	0.287971	0.768606	0.16615	0.271333	no
Psme3	0.287945	1.37988	0.00895	0.023578	yes
Zc4h2	0.287939	0.886188	0.07065	0.136099	no
Mettl7a3	0.287712	1.12948	0.0508	0.103512	no
Oplah	0.287492	0.993027	0.0443	0.092396	no
Slc37a2	0.287001	0.53026	0.2899	0.416786	no
Zfand6	0.28687	1.36859	0.0165	0.03999	yes
Mypop	0.286602	1.18817	0.0301	0.066634	no

Slc9a4	0.286535	0	1	1	no
Gnb1l	0.286478	0.504563	0.29555	0.423258	no
Pbx2	0.286467	1.255	0.01755	0.042165	yes
Slbp	0.286317	0.936545	0.05915	0.117564	no
Eno1b	0.286309	1.19401	0.0155	0.037857	yes
Ttll11	0.286062	0.803203	0.1081	0.191349	no
Nxt1	0.285948	0.508394	0.30675	0.435723	no
Zfc3h1	0.285905	1.19772	0.02065	0.048455	yes
Alox12b	0.28589	0	1	1	no
Dhps	0.285877	1.03226	0.08085	0.151289	no
Hdgfrp2	0.285866	1.07815	0.04775	0.098385	no
Pgap1	0.285764	1.19902	0.02	0.047096	yes
C2cd2l	0.285615	1.26332	0.01595	0.038863	yes
Cdc34	0.285533	1.24085	0.0349	0.075361	no
3110040N11Rik	0.28523	0.714924	0.2709	0.395775	no
Trim43c	0.285109	0	1	1	no
Mtch1	0.285108	1.48945	0.0072	0.01953	yes
Rrp9	0.284907	0.752795	0.1844	0.294787	no
Eapp	0.284652	1.07235	0.07985	0.150031	no
Gm11992	0.284479	0.351886	0.48305	0.611568	no
Dusp9	0.284477	0	1	1	no
Tmem62	0.284248	1.16638	0.0293	0.065156	no
Ncbp2	0.284219	1.27728	0.0215	0.050104	no
Fam207a	0.28417	1.07754	0.04805	0.09888	no
2610008E11Rik	0.284148	0.916656	0.0771	0.145876	no
Ino80	0.284078	0.963192	0.05745	0.114718	no
Tspan17	0.284024	1.51238	0.00705	0.019182	yes
Coro1c	0.284022	1.36819	0.00795	0.021355	yes
Gabarap	0.283872	1.62504	0.0072	0.01953	yes
Tnrc6c	0.28385	1.19264	0.0214	0.049915	yes
Gm1673	0.28384	1.06653	0.25545	0.378412	no
Fam76a	0.283681	1.01686	0.04075	0.085923	no
Nae1	0.283501	1.19235	0.03335	0.07251	no
Mier3	0.283479	0.970505	0.0573	0.114471	no
Bmyc	0.28345	1.11489	0.08745	0.160893	no
Hip1r	0.283371	1.18533	0.01675	0.040507	yes
Npat	0.28337	0.930132	0.0673	0.130766	no
Suco	0.283009	1.25604	0.01365	0.033938	yes
Vmac	0.282923	0.630479	0.20185	0.316131	no
Cxxc1	0.282876	0.981121	0.0707	0.136116	no
Tmem237	0.282809	0.968045	0.0503	0.102698	no
Irak2	0.282641	0.67228	0.17385	0.281071	no
Fam214b	0.282626	1.08044	0.02915	0.064877	no
Med17	0.28256	1.03437	0.0501	0.102368	no
Alcam	0.282466	1.36786	0.0081	0.021701	yes
Thoc5	0.282332	0.957206	0.0531	0.10721	no
Ube2g2	0.282291	1.13061	0.02285	0.052694	no
Ier5l	0.282207	0.519893	0.3625	0.494477	no
Micu2	0.282005	1.07766	0.0477	0.098297	no
Klhl7	0.281827	0.882702	0.0772	0.146045	no
Nemf	0.281759	1.18967	0.0242	0.055365	no
Trmt1l	0.28161	1.0516	0.03455	0.074739	no
Zer1	0.281428	1.1894	0.0158	0.038533	yes

Usp19	0.281363	1.30365	0.00865	0.022947	yes
Krt75	0.281295	0	1	1	no
Scaper	0.281156	1.20722	0.01815	0.043387	yes
Luc7l	0.28104	1.07259	0.03025	0.066899	no
Cfl1	0.281018	1.54843	0.0093	0.024365	yes
Wasf3	0.280982	1.11225	0.0399	0.084373	no
Dgka	0.280906	0.787053	0.11065	0.194823	no
Ttpal	0.280879	1.16587	0.0192	0.045454	yes
Rchy1	0.280823	1.03487	0.06155	0.121299	no
Aim1	0.280807	0	1	1	no
Avl9	0.280761	1.27075	0.01345	0.03351	yes
1810030007Rik	0.280691	1.09143	0.0425	0.08909	no
Olf658	0.280671	0	1	1	no
Sprtn	0.280634	0.627331	0.25385	0.376588	no
Apip	0.280526	0.86788	0.1698	0.276104	no
Ebp	0.280474	1.12415	0.0457	0.094928	no
Ttll1	0.280472	1.30601	0.01735	0.041791	yes
Ddx49	0.28037	0.863355	0.08235	0.153576	no
AU041133	0.280254	0.576257	0.2785	0.404207	no
Fut11	0.280246	1.09624	0.0391	0.082906	no
Fam136a	0.280133	0.918689	0.1039	0.185374	no
Tmsb15l	0.280066	0.623091	0.207	0.322559	no
Ddx50	0.279969	1.09398	0.04205	0.088216	no
Casp3	0.279903	0.799676	0.11055	0.194751	no
Zfp788	0.279873	1.03747	0.0494	0.10114	no
Inpp5k	0.27984	1.24129	0.02185	0.050786	no
Tcf20	0.27973	1.23747	0.01595	0.038863	yes
37134	0.279718	1.28022	0.01025	0.026534	yes
Pick1	0.279676	0.997007	0.04645	0.096139	no
Abce1	0.279081	1.36189	0.00975	0.025413	yes
Ccdc107	0.279053	1.03072	0.119	0.207134	no
Htatip2	0.27901	1.13299	0.0224	0.051828	no
Sh3glb2	0.278977	1.27876	0.01005	0.026082	yes
Tmem251	0.278852	0.46764	0.4409	0.572462	no
Hpse2	0.278664	0	1	1	no
Ercc6l2	0.278646	0.887964	0.0742	0.141296	no
Adprm	0.278645	0.865451	0.13	0.222888	no
Gm9833	0.278587	1.09478	0.05285	0.106884	no
Polr2d	0.278345	0.699688	0.15475	0.256505	no
Ascc3	0.278327	1.06286	0.03665	0.078514	no
Ifi203	0.278308	0.511832	0.3048	0.433557	no
Rbm6	0.2782	0.983638	0.04995	0.102109	no
Spag6	0.278166	0	1	1	no
Scamp4	0.277852	0.961976	0.0519	0.1053	no
Ddhd2	0.277338	1.24356	0.01825	0.043587	yes
Mta1	0.277223	1.18603	0.0265	0.059771	no
Zscan18	0.277046	0.747573	0.15515	0.257008	no
Mitd1	0.276923	0.672815	0.2564	0.379353	no
Eif4a1	0.276918	1.05393	0.0348	0.075182	no
Cpne1	0.27686	1.12596	0.02285	0.052694	no
Hpx	0.27681	0	1	1	no
Rasgef1b	0.276806	0.75627	0.12665	0.21833	no
Ap1m1	0.276764	1.40111	0.01115	0.02853	yes

Invs	0.276719	0.362646	0.46685	0.596236	no
Ireb2	0.276697	1.30833	0.0107	0.027543	yes
Mex3c	0.276548	1.21524	0.02165	0.0504	no
Kcnma1	0.276509	1.05006	0.0302	0.066822	no
Zfp386	0.276484	0.825296	0.09665	0.17467	no
Zfp94	0.27644	0.480802	0.3356	0.466905	no
Gpatch1	0.276416	0.864364	0.10365	0.185003	no
Nim1k	0.276404	0.689157	0.18455	0.294955	no
Uts2r	0.276345	0	1	1	no
Tsg101	0.276321	1.20553	0.03195	0.070005	no
Ndst1	0.276266	1.2785	0.01095	0.028083	yes
Coq2	0.275988	1.1813	0.03505	0.075623	no
Orc2	0.275844	1.01691	0.04285	0.089752	no
Ifi205	0.275726	0	1	1	no
Cep57l1	0.275663	0.455319	0.35555	0.487453	no
Gm15421	0.275652	0.702309	0.16025	0.263613	no
Als2cl	0.275549	0.463544	0.3507	0.482799	no
Aarsd1	0.275318	1.12071	0.05495	0.110491	no
Fra10ac1	0.27518	0.791957	0.1729	0.280013	no
Stk11	0.275119	0.144856	0.781	0.857529	no
Mrps24	0.274835	0.92613	0.1352	0.230257	no
BC005537	0.274823	1.40211	0.0091	0.023921	yes
Ankrd61	0.274794	0	1	1	no
Zfp236	0.274629	1.06016	0.03785	0.080629	no
Rltpr	0.274615	1.10514	0.0413	0.086959	no
Igip	0.274567	1.23707	0.0333	0.072437	no
Lin37	0.274544	0.581646	0.24205	0.363678	no
Nlgn3	0.27454	1.20913	0.0223	0.05166	no
Zfp710	0.274334	0.873952	0.0791	0.14896	no
Acbd5	0.274272	1.26652	0.01085	0.02787	yes
Arvcf	0.274007	0.911589	0.08115	0.151807	no
Usp7	0.273908	1.33241	0.0092	0.024131	yes
Ccdc117	0.273877	0.91126	0.08015	0.150488	no
Prr5	0.273833	0.937366	0.0898	0.164169	no
Oip5	0.273748	0.218391	0.63505	0.74146	no
2610020H08Rik	0.273725	0	1	1	no
Anapc5	0.273634	1.27188	0.0103	0.026643	yes
Zfp874b	0.273468	0.92357	0.0759	0.144079	no
Slc38a9	0.27325	1.21479	0.01775	0.042546	yes
Lrrcc1	0.273248	0.789065	0.10825	0.191564	no
Kctd13	0.273233	1.07974	0.0527	0.10663	no
Zmynd19	0.273192	0.819122	0.16415	0.268629	no
Brwd1	0.273178	0.815666	0.10205	0.18254	no
Brd1	0.273135	1.11994	0.02955	0.065646	no
Smarcd2	0.273047	0.978197	0.05095	0.103753	no
Icos	0.273006	0	1	1	no
Acot7	0.27285	1.2577	0.0099	0.025759	yes
Gprc5d	0.27278	0	1	1	no
Taf1a	0.272698	0.783157	0.11405	0.19967	no
4932416H05Rik	0.272635	0.321019	0.54775	0.669276	no
Chsy1	0.272406	0.981372	0.0594	0.117885	no
Fam219b	0.272265	1.06016	0.037	0.079136	no
Myo9b	0.272252	1.06132	0.033	0.071902	no

Setd1b	0.272139	1.08363	0.03125	0.068732	no
Ogt	0.272088	1.24045	0.01135	0.028969	yes
Gbp4	0.272067	0.447678	0.36965	0.501344	no
Eif3e	0.272013	1.19265	0.0373	0.079688	no
Rrp15	0.271999	0.554229	0.34785	0.479922	no
Psma3	0.271968	0.842858	0.15205	0.252883	no
Hoxb2	0.271827	0.545612	0.33495	0.466294	no
Hnrnpu	0.271785	1.35183	0.01045	0.026983	yes
Hnrnpr	0.271775	1.0888	0.02885	0.064274	no
Zdhhc16	0.271733	0.651376	0.24785	0.370129	no
Scaf4	0.271732	0.960791	0.06695	0.130162	no
Capn8	0.271602	0	1	1	no
Zfp768	0.271542	0.621073	0.2561	0.379036	no
Pih1d1	0.271356	0.774157	0.12145	0.210873	no
Mpv17l2	0.271228	0.265146	0.58565	0.701184	no
Med25	0.271204	1.11679	0.0404	0.085267	no
Slmo2	0.271201	1.15494	0.04525	0.094111	no
Zrsr2	0.271089	1.05014	0.0353	0.076064	no
Pde7a	0.271067	0.895802	0.0719	0.137926	no
Cyb561	0.270883	1.26489	0.02095	0.049046	yes
Efcab10	0.270823	0.48285	0.49445	0.621671	no
Zbtb20	0.270787	0.67505	0.1817	0.291524	no
Klf13	0.270696	1.26217	0.0114	0.029069	yes
Pdzrn3	0.270651	0.532211	0.3061	0.434986	no
Tmem107	0.270442	0.449465	0.36505	0.497002	no
Xndc1	0.270373	0.636337	0.22985	0.350106	no
Adam19	0.27037	1.22428	0.0139	0.034515	yes
Alox12	0.270229	0.382015	0.47315	0.602311	no
Rhno1	0.270088	0.593071	0.22645	0.346438	no
H2-M5	0.270067	0	1	1	no
Acap1	0.270033	0	1	1	no
Stradb	0.269794	0.783632	0.1477	0.246948	no
Gabbr2	0.269764	1.3219	0.01205	0.030463	yes
Wrnip1	0.269755	1.1836	0.02675	0.060243	no
H2afx	0.269733	0.879752	0.1298	0.222661	no
Edc3	0.269646	0.984082	0.06225	0.122387	no
Robo2	0.269609	1.2669	0.0102	0.026436	yes
Eif5a	0.269345	1.26437	0.011	0.0282	yes
Cdan1	0.268998	0.726258	0.15865	0.261402	no
McpH1	0.268828	0.719576	0.1645	0.269036	no
Exosc7	0.268436	0.86222	0.16795	0.2737	no
6330408A02Rik	0.268418	0.713371	0.17955	0.288948	no
3300002I08Rik	0.268371	0.381668	0.6021	0.714879	no
Ctu2	0.268279	0.557049	0.2945	0.42221	no
Chmp4b	0.268273	1.43896	0.0102	0.026436	yes
Fam45a	0.268193	1.0237	0.037	0.079136	no
Mcat	0.268065	0.762876	0.17135	0.277978	no
DbnDD1	0.268016	0.827374	0.09395	0.170511	no
Abca7	0.267997	0.290409	0.5634	0.682488	no
Adcy6	0.267856	0.975113	0.05785	0.11543	no
Trappc8	0.267732	1.22237	0.0134	0.033404	yes
Pgm1	0.267293	0.555213	0.3113	0.440723	no
Lix1	0.267147	1.34145	0.01145	0.029174	yes

1700094D03Rik	0.267063	0	1	1	no
AK129341	0.267003	0.786301	0.13515	0.230201	no
Mphosph10	0.266938	0.866103	0.10925	0.192845	no
1700061G19Rik	0.26682	0	1	1	no
Stac2	0.266739	1.21026	0.02355	0.054046	no
Mplkip	0.266703	0.560312	0.3025	0.430747	no
Prcp	0.266561	1.0391	0.0539	0.108627	no
Zfp212	0.266542	0.712198	0.15555	0.257477	no
Srrm1	0.26631	1.11416	0.0249	0.056683	no
Wdr4	0.26623	0.878585	0.08895	0.16302	no
Mzf1	0.266168	0	1	1	no
D430042O09Rik	0.266009	0.850139	0.09755	0.175985	no
Ccdc115	0.265975	0.898577	0.10955	0.193246	no
Klra8	0.26597	0	1	1	no
Atp5g2	0.265862	0.503294	0.48085	0.609597	no
Ubxn6	0.265859	1.26165	0.0247	0.056353	no
Topbp1	0.265823	0.978758	0.06	0.118738	no
Setd8	0.265791	1.25666	0.01965	0.046379	yes
Txn14a	0.265739	1.2051	0.01485	0.036518	yes
Dido1	0.265677	1	0.0431	0.090233	no
Arf6	0.265665	1.22382	0.02095	0.049046	yes
Dph7	0.265611	0.428214	0.42675	0.558032	no
Ptprg	0.265557	1.24802	0.01235	0.031108	yes
Pih1d2	0.265467	0	1	1	no
Atpaf2	0.265311	0.862527	0.12075	0.209904	no
Ffar1	0.265292	0	1	1	no
Tbk1	0.265227	1.1862	0.02555	0.057954	no
Snrnp27	0.26506	0.959453	0.1406	0.237441	no
Las1l	0.265018	1.1251	0.03735	0.079756	no
Dmrta2	0.264959	0	1	1	no
Ddx39	0.264888	0.454669	0.42505	0.556348	no
Ninl	0.264685	0.490368	0.3408	0.472702	no
Stk16	0.264369	0.49888	0.3168	0.446604	no
Cul4a	0.264224	1.15091	0.0185	0.044088	yes
Wdr36	0.264156	1.01175	0.04055	0.085556	no
Erc1	0.263635	1.03715	0.03585	0.077099	no
Armc6	0.263562	0.78972	0.1469	0.246076	no
Rbm42	0.26347	1.16329	0.03865	0.082096	no
Osbpl10	0.263445	1.13955	0.04025	0.085004	no
Smarcc2	0.263323	1.19744	0.0152	0.037255	yes
Cd70	0.263317	0	1	1	no
Spef1	0.263186	0.132183	0.79895	0.86911	no
Slc16a2	0.263131	1.03404	0.0484	0.099477	no
Gcn1l1	0.262989	1.14514	0.018	0.043098	yes
Creld2	0.262888	0.626718	0.2797	0.405638	no
Taok2	0.26277	1.18031	0.01805	0.043202	yes
Elmod1	0.262711	0.797359	0.13555	0.230675	no
Dynlt1c,Dynlt1f	0.262647	0	1	1	no
Mapk3	0.262636	1.23638	0.0263	0.059381	no
Eif2s3y	0.262632	0.963297	0.08435	0.15647	no
Zfp2	0.262507	0.7643	0.1249	0.215733	no
Senp7	0.26249	0.772492	0.1159	0.202508	no
Usp16	0.262461	0.408369	0.44875	0.579253	no

Zwint	0.262334	1.33233	0.012	0.030371	yes
Crlf3	0.26231	0.905826	0.0653	0.127402	no
Pold3	0.262235	0.714706	0.18035	0.289919	no
Pde12	0.262194	0.876324	0.0797	0.149834	no
Whsc1	0.26213	1.18277	0.01935	0.045761	yes
Parp4	0.261971	1.13737	0.02685	0.060427	no
Hint1	0.261857	1.83935	0.0164	0.039806	yes
Bcor	0.261705	0.693001	0.1759	0.283832	no
Mdm4	0.26161	0.868825	0.0935	0.169857	no
Tmem259	0.261535	0.169094	0.7367	0.824654	no
Rraga	0.261531	1.36573	0.0153	0.037465	yes
Recql	0.261503	0.711893	0.1534	0.254777	no
Cenpp	0.261482	0	1	1	no
Rce1	0.261318	0.68257	0.17105	0.277593	no
Ppp2r2c	0.261182	1.18846	0.01455	0.035893	yes
Svop	0.261137	1.26005	0.01605	0.039064	yes
Ywhab	0.261002	1.17373	0.0287	0.063994	no
BC025920	0.260995	0	1	1	no
Denr	0.26099	1.16153	0.03415	0.074019	no
Mknk2	0.260967	1.08812	0.0417	0.087634	no
Idua	0.260943	0.418239	0.42565	0.556858	no
Smad4	0.26091	1.14939	0.0306	0.067572	no
Acad12	0.260874	0.469673	0.39075	0.522273	no
Rpp21	0.260699	0.746692	0.3764	0.507851	no
Fam21	0.260655	1.24113	0.0176	0.042247	yes
Mthfr	0.260655	0.9747	0.0508	0.103512	no
Hoxb3	0.260534	0.563857	0.2572	0.380282	no
Colec10	0.260437	0	1	1	no
Thyn1	0.260433	0.498497	0.4346	0.566389	no
Apba3	0.259987	0.755276	0.14975	0.249621	no
Nat1	0.259944	0	1	1	no
Dph3	0.259813	0.933196	0.05915	0.117564	no
Dnaaf1	0.25979	0	1	1	no
Capns1	0.259711	1.36128	0.0181	0.043291	yes
Ythdc2	0.259292	0.993541	0.05585	0.112063	no
Pim2	0.259261	0.946606	0.0838	0.155711	no
Hmha1	0.259107	0.0286511	0.92135	0.952138	no
4933431E20Rik	0.259026	0.85953	0.0968	0.174846	no
Cdipt	0.259024	1.32628	0.015	0.036839	yes
Ash2l	0.259012	1.00263	0.045	0.093694	no
Tat	0.25901	0	1	1	no
Tcp10c	0.258968	0	1	1	no
Ccdc51	0.258948	0.558584	0.3082	0.437314	no
S100pbp	0.258884	0.742035	0.19375	0.306192	no
Tstd2	0.258812	0.35286	0.48315	0.611578	no
Prim1	0.258701	0.580776	0.30715	0.436104	no
Hist1h2bp	0.258583	0	1	1	no
B3gnt4	0.258562	0	1	1	no
AW554918	0.258544	0.707337	0.1732	0.280293	no
Fam129c	0.258485	0	1	1	no
Rab23	0.258469	0.848407	0.0886	0.162535	no
Tmem57	0.258404	1.15632	0.0296	0.065724	no
Rnf214	0.258341	0.95591	0.06945	0.134196	no

Gnaz	0.258196	1.05481	0.035	0.075528	no
Zfp385c	0.258125	0	1	1	no
Ssb	0.258067	1.24133	0.0236	0.054132	no
B3gnt3	0.257768	0	1	1	no
Surf2	0.25764	0.366822	0.5486	0.670068	no
Szt2	0.25746	0.823849	0.09805	0.176815	no
Ern1	0.257327	0.609723	0.2418	0.363467	no
Gapdh	0.257306	0.652698	0.18775	0.29881	no
Sifnl1	0.257198	0	1	1	no
Hgs	0.257107	1.14923	0.01985	0.046793	yes
Zswim8	0.257015	1.18266	0.017	0.04103	yes
Mill2	0.256971	0.318102	0.5204	0.645368	no
Bloc1s2	0.256924	0.659834	0.306	0.434937	no
Uggt2	0.256869	0.737455	0.14785	0.247075	no
Rps27a	0.256821	0.424421	0.4412	0.572684	no
Zfp133-ps	0.256719	0.298545	0.57155	0.689969	no
Wibg	0.256653	0.591009	0.23755	0.358909	no
Fcf1	0.256507	0.546681	0.4237	0.555183	no
Fam117b	0.256464	1.20132	0.0192	0.045454	yes
1600014C10Rik	0.256411	1.03066	0.0399	0.084373	no
Ppp1r16a	0.256326	1.00735	0.06405	0.125314	no
Ift57	0.256257	0.873366	0.10315	0.184234	no
Kif3b	0.256226	1.21969	0.01915	0.045377	yes
Oma1	0.256182	0.598726	0.27715	0.402689	no
Gtf2ird2	0.256175	0.776381	0.1414	0.238519	no
Ercc8	0.256066	0.532609	0.33075	0.461804	no
Capn11	0.255798	0.355482	0.5091	0.635393	no
Zscan20	0.255725	0.466371	0.36545	0.497359	no
Smc3	0.255555	1.07563	0.03705	0.079204	no
Rangap1	0.255521	1.20037	0.01545	0.037763	yes
Ppid	0.255433	1.01372	0.0743	0.141466	no
Agtppb1	0.255405	1.18019	0.0174	0.041888	yes
Srp68	0.255366	1.16211	0.03115	0.068581	no
Pcnt	0.255319	0.869881	0.08055	0.151004	no
Telo2	0.255166	0.73587	0.13705	0.232661	no
Elmod2	0.255082	0.970598	0.0518	0.105129	no
R3hcc1l	0.254928	0.729295	0.1637	0.268058	no
Usp11	0.2546	0.974301	0.06405	0.125314	no
Cbx1	0.254524	0.724095	0.18295	0.292892	no
Fam174a	0.254502	1.15663	0.03405	0.073814	no
Snx1	0.254314	1.20314	0.02915	0.064877	no
Lsm4	0.254313	1.01426	0.1097	0.193484	no
Csnk1g2	0.254244	1.14213	0.0218	0.050705	no
Ccdc61	0.254155	0.603379	0.2786	0.404264	no
C2	0.254127	0.477237	0.36755	0.499006	no
Bcdin3d	0.254076	0.46135	0.4381	0.569719	no
Chrb1	0.25406	0	1	1	no
Tbcel	0.253741	1.17881	0.02365	0.054228	no
Os9	0.253731	1.16013	0.0192	0.045454	yes
Gpr139	0.25371	0.534288	0.39125	0.522783	no
Rpl3	0.253641	0.785602	0.1129	0.198101	no
Prrg2	0.253557	0.5662	0.32575	0.456456	no
Stk25	0.25352	1.1064	0.02525	0.057371	no

Fam63b	0.253482	1.2097	0.0172	0.041459	yes
Prdm1	0.253473	0	1	1	no
Pithd1	0.253461	1.16811	0.0436	0.091122	no
Cage1	0.253442	0.423241	0.4368	0.568586	no
Elmo2	0.253364	1.12046	0.0227	0.052403	no
Arl1	0.253308	1.03662	0.11155	0.1962	no
Cdk20	0.253294	0.737156	0.19335	0.305705	no
Rb1cc1	0.253231	1.20759	0.0164	0.039806	yes
Csnk2a1	0.2531	1.22619	0.01805	0.043202	yes
Capn5	0.253049	1.2236	0.01875	0.04458	yes
Vps33a	0.252824	1.22544	0.01835	0.043778	yes
Ap1s1	0.252767	1.31333	0.02655	0.059874	no
2700060E02Rik	0.252754	0.544175	0.2681	0.392592	no
Dkk3	0.252621	1.24081	0.01745	0.041986	yes
Zfp59	0.252607	0.555184	0.291	0.418096	no
Gdi1	0.252589	1.21719	0.0228	0.052607	no
Eif2b3	0.252547	0.706707	0.1539	0.255415	no
Gm10509	0.252331	0.537043	0.32705	0.457794	no
Srsf10	0.252325	1.01641	0.04145	0.087178	no
Dus4l	0.252292	0.406133	0.4716	0.600856	no
Erc2	0.252242	1.18668	0.0211	0.049362	yes
Nsmce1	0.252185	0.822847	0.1826	0.292508	no
Pop4	0.252119	0.940779	0.11115	0.195574	no
Map4k3	0.252079	1.0664	0.0385	0.081803	no
Klk6	0.251973	0	1	1	no
Zrsr1	0.25195	0.967597	0.05085	0.103582	no
Ly6g5b	0.251884	0	1	1	no
Nov	0.251809	0.915159	0.0947	0.171637	no
Fig4	0.251805	1.17717	0.02635	0.059484	no
Akr1a1	0.251761	1.34906	0.02065	0.048455	yes
Rpl22l1	0.251734	0.804726	0.34905	0.481227	no
B3gnt8	0.251657	0.809154	0.1074	0.190262	no
Cct4	0.251543	1.29474	0.01835	0.043778	yes
Snrpd3	0.251427	1.32295	0.07495	0.14252	no
Eif3a	0.251163	1.1793	0.017	0.04103	yes
Gm20605,Lrch4	0.251062	0.266435	0.56685	0.685353	no
Med21	0.25101	1.18687	0.07805	0.147401	no
Dctn3	0.250806	1.11918	0.0241	0.055165	no
Urod	0.25047	1.17058	0.04975	0.101747	no
Zfp251	0.250439	0.91037	0.08135	0.152096	no
Gm11110	0.250433	0	1	1	no
Mtcp1	0.250256	0.445033	0.3645	0.496644	no
Rpl37a	0.25023	0.518679	0.496	0.623029	no
Frs3	0.250197	0.702159	0.15545	0.257344	no
Tpm3	0.250053	0.964906	0.04905	0.10061	no
Colgalt2	0.250015	1.1057	0.037	0.079136	no
Daxx	0.249971	0.748441	0.1318	0.22545	no
Mrps18c	0.249939	1.21146	0.1492	0.249017	no
Lsm2	0.249884	0.486313	0.3164	0.446134	no
Kif21a	0.249865	0.940658	0.0598	0.118501	no
Ppp6r1	0.249846	1.22556	0.0183	0.043682	yes
Ppp1r9b	0.249771	1.22945	0.01665	0.040309	yes
Phf14	0.249608	0.849265	0.0905	0.165267	no

Taz	0.249602	0.745442	0.1345	0.22927	no
Mettl5	0.249515	0.264012	0.5987	0.712432	no
Snx12	0.249406	1.02499	0.03635	0.077997	no
2410127L17Rik	0.249217	0.33481	0.54215	0.664269	no
Acot13	0.248777	1.18065	0.0912	0.166385	no
Baz2b	0.24861	0.942372	0.06375	0.124874	no
Pam	0.248582	1.2281	0.019	0.045077	yes
Myl7	0.248521	0	1	1	no
Cc2d1a	0.248476	0.937737	0.07365	0.140451	no
Zgpat	0.248445	0.530771	0.29625	0.424032	no
Gnpnat1	0.248365	0.430064	0.3895	0.520917	no
Lrp1b	0.248244	0.653392	0.18745	0.298476	no
Ldb1	0.248164	1.01436	0.0388	0.082348	no
Tpra1	0.2481	0.931481	0.0943	0.171006	no
Mars2	0.247864	0.628877	0.23815	0.359283	no
Phf10	0.247832	0.520755	0.35425	0.486173	no
Rybp	0.247765	0.730309	0.15755	0.259945	no
Mybl1	0.247649	0.517467	0.3019	0.430216	no
Gnl2	0.247538	1.04208	0.04385	0.091587	no
Snw1	0.247524	0.896267	0.0733	0.139884	no
Osm	0.24735	0	1	1	no
Lin7c	0.247282	1.11838	0.03405	0.073814	no
Ppil2	0.247124	0.84785	0.0892	0.16332	no
Dhcr24	0.246995	1.14086	0.0281	0.062846	no
Vps54	0.246892	0.521421	0.31855	0.448356	no
Cep128	0.246874	0.48919	0.3257	0.456434	no
Vasp	0.246847	1.06173	0.0336	0.07297	no
Arnt	0.246745	0.830236	0.0984	0.177254	no
36950	0.24656	0.797779	0.1052	0.187316	no
Vps37c	0.246431	1.07754	0.0455	0.094571	no
Xrcc6bp1	0.246292	0.353752	0.47895	0.607769	no
Sf1	0.246244	1.08522	0.0294	0.065346	no
Ints8	0.246164	0.784417	0.1164	0.203248	no
D030045P18Rik	0.246155	0	1	1	no
Wdr89	0.246154	0.228989	0.64595	0.750875	no
C78339	0.246101	1.04383	0.0718	0.137854	no
Usp48	0.246001	1.14072	0.02455	0.056069	no
Golm1	0.245993	0.693164	0.1627	0.26675	no
Sugp1	0.245936	0.975881	0.07305	0.139527	no
Mier1	0.245887	0.864547	0.0824	0.153626	no
Mzt2	0.245876	0.848304	0.1692	0.275365	no
Gcat	0.245767	0.55816	0.27735	0.402891	no
Hace1	0.245692	1.03164	0.05135	0.104392	no
Rpp25l	0.245638	0.653265	0.31895	0.448871	no
Gdap10	0.245509	0	1	1	no
Tmem55a	0.245463	1.17497	0.03105	0.068417	no
Mettl3	0.245378	0.419958	0.40405	0.535678	no
Gm12942	0.245233	0.36321	0.54935	0.670428	no
Mff	0.245177	1.25687	0.0242	0.055365	no
Sh3bgrl2	0.245158	1.20948	0.0231	0.053179	no
Banf1	0.245102	0.84232	0.19335	0.305705	no
Gda	0.245097	1.10354	0.0331	0.072073	no
B4galnt1	0.245054	0.828618	0.09885	0.177847	no

Ddx11	0.244624	0	1	1	no
Peo1	0.244621	0.666743	0.20325	0.317798	no
Slc25a28	0.244393	0.756963	0.18525	0.295789	no
38411	0.244266	0.777442	0.1614	0.265176	no
Slc4a5	0.244139	0	1	1	no
1810011H11Rik	0.244072	0	1	1	no
Klhl24	0.243956	1.07933	0.035	0.075528	no
0610009B22Rik	0.243783	1.00663	0.12715	0.218992	no
Cbx7	0.243723	0.933463	0.08065	0.151072	no
Tmem65	0.243709	1.20417	0.02005	0.047189	yes
Lactb2	0.243458	0.948356	0.0884	0.162281	no
Gtf2f2	0.243456	0.716794	0.2093	0.325493	no
Tbc1d10c	0.243435	0	1	1	no
Gskip	0.243374	1.0906	0.0425	0.08909	no
Trp53inp2	0.243357	1.19966	0.0194	0.045862	yes
Thap2	0.243298	0.686484	0.19765	0.310874	no
Thrap3	0.243294	1.07986	0.03975	0.084136	no
Ywhah	0.24322	0.998555	0.0766	0.145096	no
Zfp668	0.243122	0.612901	0.24295	0.364617	no
Smarca2	0.243111	0.846534	0.0876	0.161057	no
Ralgs2	0.243047	1.01252	0.04385	0.091587	no
Dcun1d5	0.243014	1.11099	0.06255	0.122904	no
Gm10778	0.242798	0	1	1	no
Nudt10	0.242595	0.745435	0.18235	0.292214	no
Raver1	0.242593	0.816104	0.1028	0.183708	no
Mtmr11	0.242229	0.608402	0.25095	0.373665	no
Cdc20b	0.242133	0	1	1	no
Fam133b	0.242117	0.825275	0.1316	0.225166	no
Lsm12	0.242056	0.860177	0.14775	0.247001	no
Polr2h	0.241945	0.707178	0.2884	0.415079	no
Chrac1	0.241928	0.699436	0.2869	0.413324	no
Gm10791	0.241829	0	1	1	no
Tbpl1	0.2418	0.997847	0.0449	0.093515	no
Dhx15	0.241715	1.10744	0.0279	0.062451	no
Mfsd7b	0.241678	0.922924	0.0612	0.120681	no
Hltf	0.24136	0.810715	0.10175	0.182126	no
Perp	0.241327	0.6362	0.252	0.37464	no
Tigd5	0.241298	0.39993	0.44505	0.57644	no
Gadd45gip1	0.241199	0.584345	0.3012	0.429356	no
Dnaaf2	0.241132	0.330752	0.52625	0.65001	no
Tmem199	0.241122	1.00874	0.085	0.157499	no
Gclc	0.241103	1.05862	0.0478	0.098473	no
Mier2	0.24108	0.749233	0.16485	0.269509	no
Lrrc3b	0.241015	0.731892	0.19515	0.307671	no
Lztfl1	0.240971	0.889365	0.0902	0.164787	no
Zfp707	0.240773	0.421161	0.4575	0.587348	no
Rnf220	0.240751	1.06282	0.04805	0.09888	no
Znhit2	0.240682	0.890659	0.1316	0.225166	no
Pstpip1	0.240652	0.607154	0.27365	0.39852	no
Ppp4r1l-ps	0.240576	0.483048	0.35285	0.485054	no
Camkmt	0.240572	0.68755	0.23425	0.354933	no
Nupl2	0.240497	0.60464	0.2524	0.375066	no
Qrs1	0.240453	0.849357	0.12285	0.212969	no

Rnf5	0.240295	1.04626	0.0881	0.16182	no
Hspa2	0.24025	0.858999	0.08335	0.155005	no
Yrdc	0.24025	0.421887	0.463	0.592745	no
Lzts3	0.240116	0.938232	0.0594	0.117885	no
Eif2s1	0.239886	0.989304	0.06205	0.122067	no
Ksr2	0.239644	0.788711	0.1214	0.210813	no
Sp2	0.239625	0.637661	0.20025	0.31407	no
Uba1	0.239434	1.02329	0.04185	0.087894	no
Parvb	0.239419	1.17287	0.02465	0.056249	no
Aimp1	0.23923	1.08108	0.07365	0.140451	no
6430706D22Rik	0.239227	0.82804	0.0954	0.172741	no
Hspbp1	0.239202	1.10549	0.05575	0.111896	no
Snrnp40	0.23918	0.752401	0.18715	0.298141	no
Zdhhc5	0.239179	0.63393	0.20085	0.314788	no
Cpped1	0.23911	0.955089	0.05075	0.103473	no
Mad2l1bp	0.239006	0.733955	0.21805	0.335989	no
Sertad3	0.239003	0.555355	0.3463	0.47838	no
Dohh	0.238927	0.942261	0.05685	0.113691	no
Cfdp1	0.238851	1.16413	0.05155	0.104718	no
Arxes1	0.238769	0.732617	0.1968	0.309721	no
Gabpb1	0.238698	0.607345	0.2155	0.33326	no
Ptprf	0.238697	1.09357	0.0272	0.061122	no
2310047M10Rik	0.238678	0.97703	0.0808	0.151216	no
Armc10	0.238605	0.779756	0.15545	0.257344	no
Polr1c	0.238605	0.800249	0.1705	0.277039	no
Cdc37	0.238554	1.18532	0.0275	0.061691	no
Tnks	0.238481	1.14204	0.0248	0.056514	no
Uchl1	0.238346	0.817174	0.09825	0.177056	no
Arl6ip5	0.238314	1.31392	0.0238	0.054535	no
Ankrd32	0.238294	0.740029	0.15885	0.261634	no
BC055324	0.238273	0	1	1	no
Kcns2	0.238228	0.41368	0.4012	0.532897	no
Hoxd3os1	0.238091	0	1	1	no
Pdzd7	0.237966	0.292031	0.55345	0.674124	no
Rps6ka4	0.237857	0.87228	0.07825	0.147652	no
Ak6	0.237752	0.389899	0.5319	0.655402	no
Mdm2	0.237748	0.854665	0.0863	0.15933	no
Tgtp1	0.237736	0	1	1	no
Gm15455	0.237482	0.425833	0.4228	0.554223	no
Hdac2	0.237436	1.18138	0.03125	0.068732	no
Stard13	0.237424	1.05251	0.03385	0.073452	no
Xab2	0.237334	0.923931	0.0853	0.157989	no
Gm13375	0.237235	0.6009	0.2994	0.427367	no
Plk3	0.237228	0.643919	0.1918	0.303834	no
Psmc9	0.237085	0.800265	0.1357	0.230901	no
Myo1e	0.237004	1.15319	0.02415	0.05527	no
Rnf19a	0.236851	1.0954	0.02525	0.057371	no
Nhlrc1	0.236774	0.674561	0.22	0.338207	no
Araf	0.236771	0.499262	0.38105	0.512457	no
As3mt	0.236686	0.648564	0.25135	0.374134	no
1110004F10Rik	0.236661	1.15876	0.0467	0.096627	no
Eif5	0.236646	1.1428	0.0243	0.055565	no
Slc25a39	0.236614	1.03959	0.03345	0.07268	no

Wdr13	0.23655	1.08246	0.0304	0.067208	no
Pot1a	0.236424	0.820843	0.12135	0.210754	no
Rps15a	0.236325	0.88483	0.08645	0.159518	no
Ano8	0.23599	0.760187	0.1266	0.218329	no
Gabbr1	0.235972	1.08709	0.03785	0.080629	no
Pim1	0.23596	0.720199	0.19715	0.310198	no
Nrbf2	0.235951	0.746656	0.1857	0.296436	no
Grb2	0.235866	1.17208	0.02865	0.063915	no
Zc3h13	0.235778	0.445466	0.36385	0.49586	no
Zmiz1	0.235705	1.05921	0.031	0.06833	no
Ncoa2	0.235572	1.05251	0.0359	0.077156	no
Ict1	0.235546	0.930873	0.1731	0.2802	no
Cdc45	0.235527	0.347415	0.4843	0.612625	no
Dmwd	0.235365	1.07347	0.0485	0.099652	no
Gm12657	0.235357	0.0970285	0.84915	0.904583	no
Fam188b	0.235195	0.396274	0.4214	0.552934	no
Bcor1	0.235083	0.7475	0.1457	0.244746	no
Zfp943	0.234856	0.763535	0.15365	0.255096	no
Oas1c	0.234808	0.636164	0.2422	0.363821	no
Trim28	0.234755	1.07048	0.0459	0.095283	no
Ap5b1	0.23455	0.63969	0.22835	0.348742	no
Cdc42bpb	0.234536	1.12128	0.02855	0.063713	no
Rfx3	0.234357	0.566847	0.25475	0.377586	no
1700123020Rik	0.234342	0.465212	0.35345	0.485477	no
Bank1	0.234281	0.345933	0.51585	0.641585	no
Fam162a	0.234111	1.05259	0.14365	0.241761	no
Mrpl9	0.234102	1.01089	0.07865	0.148196	no
Neil2	0.234076	0.411941	0.45715	0.587069	no
Sft2d3	0.234048	0.416537	0.4347	0.566408	no
Arih1	0.233776	1.12468	0.02815	0.062947	no
Chst5	0.233776	0.401447	0.46895	0.597997	no
Myl12b	0.233699	1.38304	0.0276	0.061884	no
Kdm5c	0.233527	1.03541	0.0423	0.088712	no
Kcna5	0.233515	0.354498	0.5012	0.627837	no
Cntrob	0.233469	0.546028	0.30475	0.433557	no
Ctnnb1	0.233385	1.02725	0.0381	0.081096	no
Ranbp17	0.233335	0.634926	0.2057	0.320948	no
Ndufaf7	0.233136	0.951444	0.0826	0.153912	no
Mndal	0.233118	0.360153	0.51805	0.643416	no
Hps6	0.232947	0.65739	0.22095	0.339433	no
Efr3b	0.232781	1.08395	0.0362	0.077738	no
Taf15	0.232775	0.962055	0.07995	0.150198	no
Rpusd3	0.232771	0.464362	0.4286	0.56001	no
Exoc1	0.232621	1.00043	0.0429	0.089843	no
Zmym3	0.232418	0.856656	0.0819	0.152908	no
Mrpl2	0.232402	0.913994	0.1345	0.22927	no
Pisd-ps2	0.23233	0.483099	0.4011	0.532885	no
Rdh13	0.23219	0.73636	0.1383	0.234393	no
Hdac1	0.232181	0.465751	0.3929	0.52446	no
Rfc2	0.232168	0.854572	0.13735	0.232991	no
Stmn2	0.232032	0.954571	0.0855	0.158293	no
Ppp2r5b	0.232009	1.07904	0.02625	0.059298	no
Panx1	0.231998	1.09679	0.0479	0.098648	no

Map1lc3a	0.231843	1.08241	0.0277	0.062088	no
Rrp1b	0.231762	0.535247	0.2808	0.406873	no
Zfp628	0.231601	0.621042	0.24015	0.361766	no
Rpusd4	0.231494	0.638094	0.25255	0.375247	no
Kdm4b	0.231472	0.936606	0.06965	0.134465	no
Rnf10	0.231228	1.16174	0.02685	0.060427	no
Ece2	0.231224	0.840052	0.08975	0.164101	no
Setd5	0.231085	1.037	0.04265	0.089376	no
Rnf168	0.231083	0.997856	0.0531	0.10721	no
Chmp5	0.230742	1.21276	0.0366	0.078483	no
Sh3d21	0.230663	0	1	1	no
Hoxd8	0.230408	0.780055	0.11625	0.203066	no
Cutc	0.230358	0.336512	0.4963	0.623347	no
Rad21	0.230344	1.12081	0.0319	0.069919	no
Tmtc3	0.229754	0.794675	0.10605	0.188298	no
Mir22hg	0.229727	0.750117	0.1301	0.223031	no
Rnf25	0.229634	0.745654	0.1921	0.304128	no
Edem1	0.229579	0.972257	0.05755	0.114901	no
BC028528	0.229481	0.192306	0.70675	0.801612	no
Zfp90	0.229182	0.634906	0.23745	0.358798	no
Rbm14	0.229175	0.65153	0.18675	0.297575	no
Mettl4	0.229124	0.650578	0.23325	0.3541	no
Tank	0.229115	0.714597	0.156	0.258061	no
Pus10	0.22905	0.289599	0.55175	0.672491	no
Lrch1	0.229033	0.71193	0.15365	0.255096	no
Gtf2ird1	0.228981	0.733217	0.1401	0.236778	no
Zfp808	0.228963	0	1	1	no
Tymp	0.228887	0.144013	0.77495	0.852792	no
Esyt1	0.228852	1.06244	0.03015	0.066733	no
Rxbp	0.228771	0.876696	0.07915	0.149011	no
Nrap	0.22866	0	1	1	no
Ppp1r21	0.228623	1.00506	0.0591	0.117518	no
Cebpz	0.228549	0.761586	0.12905	0.221661	no
Rbm18	0.228503	0.901514	0.0971	0.175269	no
Syt6	0.228408	0.545141	0.2986	0.426659	no
Armcx5	0.228366	0.227178	0.64775	0.75211	no
Slx4ip	0.228361	0.294714	0.54855	0.670068	no
Dbnl	0.228329	1.02685	0.0406	0.085621	no
Pdzrn4	0.228258	0	1	1	no
Ikbke	0.228244	0	1	1	no
Narf	0.228218	0.940214	0.07165	0.137646	no
Srp14	0.228114	1.34162	0.04555	0.09466	no
Jmjd7	0.228101	0.324629	0.59875	0.712432	no
Eid2	0.227908	0.894171	0.12245	0.212359	no
Frmd4a	0.227899	0.975733	0.0508	0.103512	no
Crnk11	0.227882	0.814967	0.1223	0.212126	no
Phka2	0.227759	0.73931	0.1399	0.23653	no
Tmprss11bnl	0.227755	0	1	1	no
Rps7	0.2277	0.265012	0.68155	0.780166	no
Txnrd1	0.227558	1.09372	0.03335	0.07251	no
Terf2	0.227544	0.764949	0.12545	0.216571	no
Rnf135	0.227459	0.466257	0.3877	0.519138	no
Tet3	0.227365	0.878086	0.0795	0.149543	no

Zbtb17	0.227356	0.479142	0.3739	0.505455	no
Vps72	0.227287	0.767287	0.1818	0.291579	no
Llgl2	0.226855	0	1	1	no
Ppp2r2d	0.226797	1.04307	0.0587	0.116845	no
Zfp595	0.226767	0.375489	0.4766	0.60554	no
Mcee	0.226713	0.807138	0.2487	0.371148	no
Srrm2	0.226691	1.00831	0.04695	0.097053	no
Ankrd34a	0.226612	0.414152	0.44205	0.573394	no
Gar1	0.226556	0.661458	0.2591	0.382665	no
Fbxo4	0.226503	0.485277	0.34955	0.481816	no
Gins1	0.22647	0.263804	0.5939	0.707995	no
D8Erttd738e	0.226434	1.23407	0.0829	0.154341	no
Galnt12	0.22638	0	1	1	no
Gabra3	0.226244	0.643903	0.1983	0.311638	no
Rab37	0.226157	0.8753	0.0786	0.148123	no
Gpr4	0.225966	0	1	1	no
Rbm3	0.225937	0.712851	0.22895	0.349336	no
Ttc9	0.225847	1.17823	0.03295	0.071817	no
Cript	0.225671	1.12758	0.0631	0.12382	no
Med13l	0.225479	0.955141	0.0618	0.121719	no
Mettl1	0.225462	0.674769	0.29565	0.423355	no
Rlf	0.225384	0.807834	0.1114	0.195962	no
Limd2	0.225271	0.818873	0.12745	0.219395	no
Cmb1	0.225266	0.737646	0.2333	0.3541	no
Ankmy2	0.225102	0.867493	0.106	0.18826	no
Ncald	0.225054	1.09829	0.0336	0.07297	no
Otud4	0.225048	0.995349	0.04505	0.093768	no
Acap2	0.225045	0.300451	0.53205	0.655526	no
Plekha1	0.225019	0.996401	0.04395	0.091767	no
Zfp420	0.22487	0.542722	0.3055	0.434459	no
Ppfbp1	0.224482	0.925854	0.06595	0.128519	no
Mtf2	0.224452	0.625818	0.20605	0.321456	no
Zfp664	0.224392	1.09703	0.03495	0.075457	no
Sstr2	0.224324	0.362072	0.46795	0.597302	no
Sars2	0.22427	0.619394	0.26625	0.390702	no
Ibtk	0.224166	0.811372	0.11275	0.197864	no
Rasa1	0.223946	1.02686	0.04725	0.097597	no
Wrn	0.223946	0.65005	0.19035	0.302078	no
Mzt1	0.223776	1.01313	0.0637	0.124813	no
Slc52a2	0.2236	0.703039	0.18835	0.299549	no
Trnt1	0.223491	0.478709	0.37845	0.510046	no
Selplg	0.223471	0	1	1	no
Omp	0.223469	0.161984	0.766	0.846408	no
Hfm1	0.223438	0.332465	0.47895	0.607769	no
Aanat	0.223341	0	1	1	no
Spats2l	0.223339	0.767494	0.12285	0.212969	no
Kank3	0.223328	0.594001	0.27215	0.396902	no
Enkd1	0.223288	0.284703	0.63105	0.738538	no
Gnb1	0.223061	0.887995	0.07405	0.141071	no
Cyfip2	0.223024	0.973435	0.05935	0.117821	no
Sel1l3	0.223012	0.971562	0.06085	0.120133	no
Tbccd1	0.223006	0.761659	0.15455	0.25627	no
Rfx1	0.222946	0.516485	0.2984	0.426419	no

Snora64	0.222838	0.0381063	0.82525	0.887604	no
Ncoa5	0.222787	0.859241	0.10735	0.190199	no
Dxo	0.222642	0.442253	0.375	0.506735	no
Psmb5	0.222406	0.882701	0.07235	0.138509	no
Cars2	0.222352	0.628118	0.2595	0.383085	no
Pcgf2	0.222351	0.523438	0.2948	0.422458	no
Ppp4r2	0.222161	0.713667	0.16875	0.274734	no
Ttc5	0.222101	0.617159	0.21405	0.331172	no
Dhrs1	0.221729	1.16708	0.0442	0.092245	no
Alg5	0.221679	0.781424	0.1675	0.273101	no
Syap1	0.22167	0.361293	0.5068	0.633357	no
Sepsecs	0.22148	0.532998	0.3347	0.466044	no
Map3k12	0.221249	0.564524	0.25665	0.379638	no
Tmem161b	0.221222	0.550526	0.27025	0.395086	no
Flii	0.221009	0.961027	0.05175	0.105044	no
Bccip	0.220918	0.567283	0.3428	0.474583	no
Npdc1	0.22091	1.19708	0.0349	0.075361	no
Fam118b	0.220908	0.29296	0.55435	0.674669	no
Sike1	0.220758	0.790711	0.14115	0.238249	no
Ncbp1	0.220616	0.977183	0.0668	0.129889	no
Bmper	0.220557	0.73707	0.1575	0.259927	no
1700029J07Rik	0.220458	0	1	1	no
H2-K2	0.220326	0.292556	0.6198	0.729303	no
Hnrnpul2	0.220291	1.07442	0.03305	0.071987	no
Chchd5	0.220184	0.540089	0.3624	0.494392	no
Fam173b	0.220018	0.547976	0.3607	0.492952	no
Cct3	0.220016	1.15409	0.0382	0.081257	no
2410004B18Rik	0.219975	0.728155	0.2428	0.364433	no
Ncaph2	0.219948	0.929273	0.0803	0.150663	no
Gm3500	0.219946	0	1	1	no
Cytip	0.219846	0	1	1	no
C1galt1c1	0.219749	0.873174	0.12885	0.22146	no
Nosip	0.21949	0.881981	0.0773	0.146192	no
Nip7	0.219225	0.573932	0.2468	0.368976	no
Plekhm1	0.219038	0.710519	0.1632	0.267471	no
Nup37	0.218985	0.374189	0.4514	0.581655	no
Elavl2	0.218983	1.00752	0.0447	0.093142	no
Zfp229	0.218853	0.62692	0.22695	0.347123	no
Gm4944	0.218707	0.562688	0.2809	0.406873	no
Hdac5	0.218626	0.894613	0.0727	0.138979	no
Dnajc4	0.218618	0.489086	0.45975	0.58921	no
Mgarp	0.2186	0	1	1	no
Cyb5r4	0.218498	0.804085	0.1326	0.226643	no
Fam103a1	0.218474	1.01431	0.0798	0.14998	no
Dnal4	0.218449	0.688521	0.2301	0.350446	no
Idh1	0.218373	1.01359	0.0403	0.085096	no
Ing1	0.218263	0.67734	0.19995	0.313748	no
Kcnu1	0.218252	0.423356	0.41945	0.551084	no
Wbscr16	0.217987	0.616185	0.26115	0.384641	no
Cacybp	0.217985	1.07359	0.0511	0.104011	no
Map2k7	0.217969	0.915136	0.0654	0.127522	no
Ndufv3	0.2177	0.768327	0.11885	0.206927	no
Atxn3	0.217649	0.817179	0.0941	0.17069	no

Snhg12	0.217588	0.478977	0.4044	0.535981	no
Narg2	0.21752	0.478042	0.3649	0.496985	no
Vwde	0.217469	0	1	1	no
Zcchc6	0.217391	0.908024	0.06635	0.129185	no
Zfyve27	0.217354	0.978069	0.0498	0.101834	no
Zfp512	0.21724	0.890477	0.0923	0.168068	no
Adck4	0.216909	0.595112	0.27555	0.400788	no
Clec9a	0.216867	0	1	1	no
4933404O12Rik	0.216764	0.451161	0.38665	0.518269	no
Cuedc2	0.216742	0.88507	0.0742	0.141296	no
Atl2	0.216404	0.899214	0.0706	0.136022	no
Bst1	0.216373	0	1	1	no
Exd2	0.216348	0.765124	0.14695	0.246129	no
Ndn12	0.216297	0.494762	0.3119	0.441337	no
Sipa1	0.216262	0.546911	0.2705	0.395364	no
Prcc	0.216062	0.932759	0.0922	0.167955	no
Cdc23	0.216049	0.587118	0.2371	0.358351	no
Csf2rb	0.216024	0.338981	0.48565	0.613806	no
Psmc3	0.216003	1.08729	0.0473	0.097655	no
Oaz2	0.215998	1.1106	0.0452	0.094021	no
Paip2	0.21586	1.00422	0.0414	0.0871	no
Mrps10	0.215783	0.586635	0.2349	0.355674	no
Ppp1r15a	0.215637	0.879305	0.10575	0.187942	no
Rbm41	0.215611	0.48436	0.3282	0.458968	no
Eif1ad	0.215559	0.607447	0.2244	0.343738	no
Hoxa7	0.215504	0.647757	0.23785	0.358994	no
Slx4	0.21549	0.480224	0.3486	0.480756	no
Tbc1d17	0.215465	0.431654	0.3807	0.51209	no
Kmt2b	0.215401	0.806009	0.10645	0.188832	no
Ankrd44	0.215377	0.663314	0.1878	0.298854	no
Ttll12	0.215286	0.786213	0.1343	0.229018	no
Hspe1	0.215156	0.829508	0.2177	0.335528	no
Tjp3	0.215092	0	1	1	no
Stam	0.214993	1.02335	0.05225	0.105913	no
Cox16	0.214903	0.671321	0.2241	0.343437	no
Capn1	0.214889	1.07044	0.04145	0.087178	no
Galnt18	0.214874	0.874886	0.10645	0.188832	no
Fgfr1op2	0.214849	1.02075	0.056	0.112279	no
Ppp1r11	0.214807	0.9847	0.08025	0.150591	no
Inpp4a	0.214734	0.956028	0.05675	0.113577	no
Tex2	0.214674	1.04866	0.04015	0.084847	no
Ankrd26	0.21461	0.677522	0.1855	0.296153	no
Gramd1a	0.214585	0.939227	0.07785	0.147086	no
1810043G02Rik	0.214342	0.772145	0.16195	0.265816	no
Cachd1	0.214338	0.856255	0.09925	0.178349	no
Pknx1	0.214314	0.61034	0.21365	0.330746	no
Spry3	0.214001	0.778347	0.13845	0.234557	no
Slc31a2	0.213981	0.601089	0.2275	0.34772	no
Ptpn18	0.21372	0	1	1	no
Mustn1	0.213602	0.41661	0.482	0.610472	no
Ntpcr	0.213567	0.679714	0.2597	0.383167	no
Romo1	0.213474	0.547359	0.2715	0.396389	no
Leprotil1	0.213431	1.08354	0.0397	0.084043	no

1700030J22Rik	0.213279	0.419763	0.4321	0.563684	no
Nabp2	0.213187	0.918074	0.1313	0.224769	no
Edc4	0.213122	0.847615	0.10245	0.183206	no
Ppm1j	0.213103	1.08414	0.0513	0.104322	no
OTTMUSG0000001	0.212862	0	1	1	no
4930426L09Rik	0.212753	0	1	1	no
Mkln1	0.212742	0.986447	0.05675	0.113577	no
Uck1	0.212595	0.610127	0.2179	0.335797	no
Axin2	0.212438	0.570558	0.27415	0.39916	no
Ap3d1	0.212406	1.04165	0.0434	0.090775	no
Dnajb1	0.212323	0.958858	0.0806	0.151013	no
Ppfia1	0.21201	0.810904	0.108	0.191249	no
Tnip2	0.211995	0.356624	0.51755	0.642915	no
Gga1	0.211991	0.886378	0.07655	0.145043	no
Rnf19b	0.211733	0.956847	0.0768	0.145392	no
Fut7	0.211601	0	1	1	no
Fam118a	0.211579	0.639599	0.237	0.358322	no
Rpl36	0.211471	0.292862	0.7747	0.852643	no
Eef1e1	0.211467	0.892432	0.1446	0.243083	no
Pitpnb	0.211352	0.942848	0.08015	0.150488	no
Rnpep	0.211247	0.724186	0.14565	0.244693	no
Ddx46	0.211117	0.927186	0.074	0.141017	no
Gng4	0.211106	0.581868	0.2717	0.396507	no
Cldn12	0.211069	0.711875	0.1571	0.259428	no
Zfp12	0.211061	0.640033	0.19965	0.313425	no
Rc3h2	0.210965	0.97368	0.05015	0.102455	no
Pbdc1	0.210708	0.458928	0.3558	0.487663	no
Znrd1	0.210624	0.547932	0.43115	0.562556	no
Cep76	0.210606	0.508603	0.32125	0.451486	no
4930529M08Rik	0.210584	0	1	1	no
Tmem255a	0.210452	0.917162	0.0676	0.131272	no
Map7d1	0.210392	0.976499	0.0521	0.105657	no
Nhp2l1	0.210365	0.929309	0.11515	0.201383	no
Otulin	0.210353	0.621334	0.2821	0.407915	no
Gm10069	0.210311	0.206375	0.68855	0.785795	no
Rcc1	0.209969	0.466777	0.3512	0.483287	no
Gm19345	0.209785	0.32056	0.56135	0.680752	no
Ranbp9	0.209556	0.78571	0.1094	0.193032	no
Atpif1	0.209228	1.52004	0.0561	0.112429	no
Tex10	0.209147	0.56395	0.2464	0.368544	no
Gpr108	0.209081	0.877409	0.11185	0.196545	no
Isyna1	0.208868	0.765632	0.16805	0.273796	no
Snf8	0.208852	0.736031	0.2487	0.371148	no
Nell1	0.208846	0.464294	0.3461	0.478203	no
Hexa	0.208702	1.00002	0.07255	0.138752	no
Mri1	0.208692	0.57209	0.3006	0.428731	no
Arhgap27	0.208682	0.78303	0.12405	0.214489	no
Arid1a	0.208623	0.93431	0.0593	0.117792	no
Ccdc17	0.208548	0	1	1	no
Stag3	0.208515	0	1	1	no
Pik3r2	0.208511	0.915081	0.0848	0.157151	no
Irf3	0.208504	0.599877	0.22915	0.349348	no
Hnrnpul1	0.208471	0.877182	0.07615	0.14445	no

Phc2	0.20846	0.893958	0.07115	0.136863	no
Nrd1	0.20837	0.782472	0.1369	0.232555	no
Iws1	0.208304	0.825172	0.1029	0.183862	no
Numb	0.208289	0.832197	0.095	0.172134	no
Higd1a	0.208096	0.867379	0.1206	0.209699	no
Slc35e2	0.208004	0.839124	0.0971	0.175269	no
Lrrtm2	0.208001	0.437507	0.37735	0.508822	no
Ccl28	0.207999	0	1	1	no
Aldoart2	0.207842	0	1	1	no
Xpot	0.20784	0.914442	0.07515	0.142859	no
Acbd3	0.207761	0.961725	0.069	0.133502	no
Ap3b2	0.207753	1.02868	0.0475	0.097961	no
Ogg1	0.207748	0.359758	0.53525	0.658185	no
Zdhhc24	0.207663	0.736029	0.14005	0.236724	no
Mterf1a	0.207597	0.271016	0.58665	0.702061	no
Wdr53	0.207589	0.485242	0.32485	0.455676	no
Med28	0.207502	0.897393	0.08655	0.159658	no
Dcp1b	0.207478	0.15922	0.73715	0.824713	no
Klhl8	0.207349	0.624896	0.2354	0.35635	no
Kat7	0.207302	0.946047	0.05885	0.117091	no
Zfr	0.207255	0.973497	0.05245	0.106172	no
Rabep2	0.207201	0.621817	0.2346	0.355261	no
Gnb2l1	0.206884	0.93045	0.0582	0.116007	no
Wapal	0.206609	0.851119	0.10185	0.182231	no
Poc5	0.206497	0.784237	0.1403	0.237056	no
Ppp1r12c	0.20648	0.9514	0.07165	0.137646	no
Dnajc3	0.206381	0.967768	0.0549	0.110441	no
Emc2	0.206372	1.03248	0.0819	0.152908	no
Ints9	0.206292	0.673942	0.17355	0.28062	no
Sde2	0.206225	0.678333	0.1941	0.306526	no
Celf4	0.206158	0.938566	0.05925	0.11771	no
Crls1	0.206109	0.67183	0.17805	0.286917	no
Uqcc2	0.205998	1.18759	0.16265	0.266701	no
1110054M08Rik	0.205928	0.137519	0.83955	0.897238	no
Fndc5	0.205773	0.896079	0.09555	0.172965	no
Steap2	0.20576	0.707942	0.15275	0.253856	no
Ssrp1	0.205759	0.873324	0.0794	0.149418	no
Nbeal1	0.205596	0.877712	0.0846	0.156824	no
Cpeb1	0.205441	0.966921	0.05065	0.103333	no
Gripap1	0.205439	0.918821	0.0644	0.12585	no
Emd	0.205418	0.833238	0.1442	0.242533	no
Mettl6	0.205368	0.534333	0.3447	0.476865	no
Psrc1	0.205204	0	1	1	no
Cisd1	0.205161	1.14189	0.0696	0.134408	no
Irak1	0.205117	0.805152	0.10655	0.188959	no
Serinc5	0.204487	0.992852	0.055	0.110575	no
Alg10b	0.204349	0.765317	0.1235	0.213788	no
Zbtb1	0.204341	0.725694	0.16725	0.272861	no
Hmg20a	0.204015	0.910895	0.0859	0.158856	no
Reps1	0.203766	0.732343	0.1394	0.235865	no
Dock2	0.20366	0	1	1	no
Nfatc3	0.203479	0.818763	0.109	0.192634	no
Srrm4	0.203444	0.613875	0.2164	0.334223	no

Tbc1d10b	0.203404	0.956065	0.0712	0.13692	no
Cdh11	0.203331	0.989638	0.05785	0.11543	no
Rit1	0.203331	0.837874	0.0913	0.166544	no
Usf2	0.203311	0.766729	0.1567	0.258961	no
Mrps28	0.202934	0.579035	0.4074	0.539257	no
Eif2ak2	0.202812	0.792723	0.1289	0.22146	no
Etfa	0.202643	0.956726	0.09815	0.176947	no
Oprm1	0.202541	0.53828	0.314	0.443457	no
C1d	0.202274	0.8723	0.10275	0.183643	no
Il10ra	0.202251	0.333435	0.50015	0.626936	no
Tprkb	0.201805	0.729036	0.1408	0.237719	no
Elof1	0.201748	0.370277	0.54695	0.668483	no
Prkcz	0.201725	0.842035	0.0897	0.164032	no
Fam188a	0.201661	1.02249	0.0592	0.117629	no
Aoc2	0.201657	0	1	1	no
4930579G24Rik	0.201651	0.353898	0.5207	0.645499	no
Taf2	0.20153	0.77716	0.1312	0.224626	no
Kpna3	0.201524	0.943723	0.06895	0.133444	no
Kdm1b	0.201476	0.327792	0.512	0.638112	no
Haus1	0.201475	0.575321	0.35235	0.484618	no
Zfp358	0.20147	0.654318	0.2311	0.351566	no
Ddx28	0.201195	0.564494	0.3074	0.436319	no
Pex11g	0.201146	0.314388	0.60495	0.717428	no
Ssx2ip	0.201131	0.898251	0.06895	0.133444	no
A230056J06Rik	0.201034	0	1	1	no
Pxk	0.200755	0.785789	0.11325	0.198558	no
Timm21	0.200631	0.397725	0.42775	0.559109	no
Twf1	0.20062	0.851238	0.11045	0.194626	no
Bzw2	0.20057	0.686254	0.21375	0.330862	no
A330040F15Rik	0.200538	0	1	1	no
Uba2	0.200468	0.965211	0.0707	0.136116	no
Zbtb34	0.200428	0.478756	0.3368	0.468133	no
Brsk2	0.200371	0.904251	0.07185	0.13791	no
Mrpl53	0.200336	0.560551	0.2585	0.381991	no
Cul7	0.200154	0.885597	0.08755	0.161032	no
Eci1	0.200124	0.668669	0.27265	0.397456	no
Naglu	0.200067	0.588816	0.28215	0.407943	no
Nupr1l	0.200052	0	1	1	no
Bud31	0.199997	0.652146	0.3516	0.483787	no
Psmc2	0.199985	1.03974	0.06345	0.124397	no
Ddx23	0.199929	0.867002	0.1058	0.18798	no
Gna11	0.199911	0.933424	0.07675	0.145339	no
Ofd1	0.199794	0.517839	0.3166	0.446369	no
Mvb12a	0.199685	0.780263	0.20025	0.31407	no
Hmgb3	0.199646	0.5735	0.3058	0.434746	no
Zfp850	0.199603	0.46431	0.3605	0.492813	no
Csgalnact1	0.199346	0.682929	0.16975	0.276091	no
2610306M01Rik	0.199198	0.343512	0.57535	0.692788	no
Srp54b,Srp54c	0.199119	0.588453	0.26125	0.384641	no
Klf16	0.199014	0.699966	0.189	0.300403	no
Fam13c	0.19888	0.436425	0.4067	0.538492	no
Zfp622	0.19865	0.783032	0.14815	0.24742	no
Rtp4	0.19861	0.399606	0.47515	0.604219	no

Usf1	0.198533	0.721639	0.19785	0.311115	no
1700029I15Rik	0.198257	0	1	1	no
Gpc1	0.198176	0.929647	0.061	0.12034	no
Rusc2	0.198139	0.925358	0.06285	0.123366	no
Gtl3	0.197953	0.751914	0.19865	0.312077	no
Hexdc	0.197931	0.303357	0.5775	0.694746	no
Zbtb40	0.197886	0.526335	0.30495	0.433723	no
Ggnbp2	0.197876	0.927749	0.0841	0.156137	no
Adarb1	0.197875	0.852977	0.0868	0.159985	no
Psma1	0.197853	1.06266	0.07205	0.138094	no
Vps8	0.197835	0.81612	0.1035	0.18476	no
Tspan4	0.197752	0.57324	0.3244	0.455189	no
Setdb2	0.197701	0.416016	0.4387	0.57022	no
Cmas	0.19753	1.02253	0.0685	0.132709	no
Mapk6	0.197416	0.729506	0.14245	0.239985	no
Upf1	0.1974	0.763858	0.12345	0.213758	no
Prosc	0.197104	0.657677	0.1808	0.290502	no
St3gal6	0.197087	0.752554	0.1832	0.293222	no
Hira	0.197001	0.770036	0.14135	0.238496	no
Enthd2	0.196999	0.529754	0.3231	0.453749	no
Sssca1	0.196997	0.713528	0.3107	0.440297	no
Atg14	0.196736	0.597043	0.25095	0.373665	no
Zfp942	0.196629	0.573582	0.2821	0.407915	no
Fam32a	0.196427	0.935892	0.0931	0.169292	no
Twistnb	0.196318	0.565117	0.3021	0.430362	no
Apbb1ip	0.196318	0	1	1	no
Ubtf	0.196301	0.837328	0.09105	0.166203	no
Snx31	0.196101	0	1	1	no
Mroh1	0.195753	0.738311	0.1526	0.25367	no
Oas2	0.19554	0	1	1	no
Nudt16	0.195404	0.666707	0.2456	0.367638	no
A230046K03Rik	0.195351	0.927886	0.0682	0.132243	no
Rapgef6	0.195337	0.765631	0.12135	0.210754	no
Nqo1	0.195189	0.49121	0.3875	0.518975	no
Dot1l	0.195148	0.553473	0.28035	0.406359	no
Cyp4f16	0.195134	0.396203	0.468	0.597302	no
Plcg1	0.195047	0.649885	0.211	0.327446	no
Stoml1	0.194943	0.890511	0.07485	0.142371	no
Tfe3	0.194786	0.752491	0.1302	0.223145	no
Zfp661	0.194759	0.310653	0.5252	0.64944	no
Tgfb1i1	0.194707	0.782676	0.1146	0.200554	no
Eif6	0.194646	0.894613	0.11765	0.20508	no
Ppp2r3d	0.194607	0.468336	0.3894	0.520836	no
Sdad1	0.194605	0.715934	0.1735	0.280573	no
Bcl2l13	0.194599	0.897964	0.07645	0.144895	no
Prickle3	0.194573	0	1	1	no
Rab9b	0.194559	0.847471	0.1092	0.192782	no
Ptpn23	0.194544	0.867836	0.0935	0.169857	no
Ndufs4	0.194467	0.912898	0.1136	0.199014	no
Srrd	0.194404	0.22222	0.6478	0.75211	no
Gpd2	0.194381	0.845478	0.092	0.16766	no
Ccndbp1	0.194282	0.935005	0.1019	0.182296	no
Psmg1	0.194258	0.526097	0.4045	0.53606	no

Ist1	0.194205	0.849474	0.0872	0.160567	no
3110021N24Rik	0.194187	0	1	1	no
Scaf1	0.193989	0.879889	0.07405	0.141071	no
Aen	0.193916	0.629758	0.2013	0.315418	no
Cyp2c65	0.193753	0	1	1	no
Bms1	0.193631	0.713003	0.1711	0.277606	no
Wsb2	0.193521	0.972146	0.0694	0.134159	no
Pank2	0.193421	0.28708	0.56545	0.683974	no
Btbd1	0.193406	0.805579	0.1264	0.21804	no
Usp45	0.193079	0.849964	0.0864	0.15947	no
Dab2ip	0.193006	0.876759	0.07645	0.144895	no
Suds3	0.193003	0.85359	0.0856	0.158412	no
Rpl7	0.192939	0.794986	0.20505	0.32016	no
Arrb1	0.192926	0.883061	0.0778	0.147012	no
Ldoc1l	0.1927	0.806455	0.11705	0.204141	no
9330020H09Rik	0.192646	0	1	1	no
Mepce	0.192528	0.751464	0.1599	0.263102	no
Tuba1a	0.192506	0.791344	0.16205	0.265947	no
Cpe	0.192477	0.870745	0.11335	0.198654	no
Cby1	0.192425	0.765853	0.2023	0.316649	no
Lrg1	0.192388	0.299683	0.60365	0.71639	no
Scn5a	0.192372	0.521483	0.29575	0.423453	no
Nfs1	0.192326	0.66967	0.2274	0.347651	no
Ccdc137	0.192293	0.584436	0.27435	0.399276	no
Qsox2	0.192117	0.631059	0.2414	0.363113	no
Tmem203	0.192034	0.485224	0.44715	0.577919	no
Zfp764	0.191948	0.351949	0.4788	0.607695	no
Osbpl7	0.191929	0.525297	0.29	0.416885	no
Herc4	0.191834	0.684299	0.1714	0.278025	no
Hoxa3	0.191814	0.198421	0.71655	0.809425	no
Ptk2	0.191781	0.742915	0.1336	0.228117	no
Rabac1	0.191682	0.89563	0.0707	0.136116	no
Pisd-ps1	0.191672	0.252138	0.63775	0.744088	no
Nrxn1	0.191577	0.889309	0.072	0.138078	no
Rnf32	0.191542	0.326759	0.51385	0.639817	no
Rnf180	0.191444	0.469563	0.3753	0.506831	no
Gm20939	0.191223	0.306204	0.5692	0.68782	no
Serinc3	0.191206	0.848717	0.0883	0.16212	no
Gppb1	0.191118	0.824357	0.0995	0.17875	no
Erf	0.191048	0.735113	0.1646	0.269167	no
35854	0.191045	0.791373	0.11175	0.196447	no
Sirt1	0.191024	0.513979	0.29765	0.42553	no
Rpusd2	0.190918	0.458699	0.3789	0.510445	no
Preli1	0.190809	1.02665	0.0916	0.167023	no
Psma4	0.190788	0.675099	0.17045	0.276992	no
Eif2a	0.190736	0.581668	0.23785	0.358994	no
Dkc1	0.19057	0.422751	0.43835	0.569932	no
Zfp316	0.190482	0.650125	0.2018	0.31609	no
Rad50	0.190456	0.686216	0.18025	0.289829	no
Zfp445	0.190433	0.891202	0.0801	0.150458	no
Nkap	0.190431	0.600162	0.2287	0.349156	no
Dut	0.190376	0.575831	0.24725	0.369483	no
Mynn	0.19026	0.56551	0.2557	0.378571	no

Cops5	0.189999	0.872561	0.07825	0.147652	no
E130307A14Rik	0.189909	0.296923	0.556	0.675995	no
Zc3h10	0.189861	0.514197	0.3466	0.478545	no
Tmem134	0.189821	0.567251	0.255	0.377872	no
Rad18	0.189796	0.40301	0.42395	0.555401	no
Trak1	0.189465	0.922811	0.06985	0.134793	no
Psmc1	0.189287	0.981097	0.0872	0.160567	no
Srsf3	0.189269	0.773798	0.1223	0.212126	no
Stag1	0.189241	0.68427	0.1827	0.292598	no
Plrg1	0.18886	0.817767	0.14785	0.247075	no
Gusb	0.188836	0.623517	0.24405	0.365978	no
Fdx1l	0.188789	0.457015	0.4939	0.621215	no
Ercc4	0.188531	0.664996	0.19045	0.302165	no
Secisbp2	0.188482	0.461729	0.38755	0.518989	no
Lsm14b	0.188468	0.875759	0.10575	0.187942	no
Acot9	0.188303	0.69264	0.22265	0.34157	no
Dynlrb2	0.188276	0	1	1	no
Ywhae	0.188259	0.880001	0.1083	0.191601	no
Esyt2	0.188235	0.876435	0.08635	0.1594	no
D19Bwg1357e	0.188219	0.783239	0.14055	0.237387	no
Camsap3	0.188161	0.703325	0.16145	0.265192	no
Zmat2	0.187808	0.928926	0.0876	0.161057	no
Igtp	0.187794	0.650326	0.23675	0.358026	no
Shcbp1l	0.18777	0	1	1	no
Mrpl52	0.187604	0.927424	0.3306	0.461692	no
Fam216a	0.18759	0.62662	0.3184	0.44824	no
D15Ert621e	0.187519	0.902022	0.0823	0.153504	no
Phf21a	0.187264	0.601495	0.2241	0.343437	no
Atp2c1	0.187193	0.816539	0.1	0.179526	no
Sfxn1	0.187079	0.748638	0.1638	0.268156	no
Nat10	0.187049	0.634363	0.22295	0.341833	no
Arhgap36	0.186951	0.714838	0.18105	0.290798	no
Atp13a1	0.18673	0.735309	0.1589	0.261652	no
Psmg4	0.186715	0.307619	0.53695	0.659848	no
Isoc2b	0.186277	0.361883	0.5641	0.683022	no
Zfr2	0.18618	0.708002	0.1755	0.283324	no
Prpf18	0.186161	0.793714	0.1336	0.228117	no
Sharpin	0.186159	0.766455	0.179	0.288238	no
Zmym2	0.186119	0.851101	0.0945	0.171345	no
Mrpl51	0.186024	0.735204	0.1947	0.307218	no
Cherp	0.185927	0.659898	0.18595	0.296728	no
Dph1	0.185764	0.410736	0.4068	0.538571	no
Kif17	0.185675	0.296985	0.5583	0.678231	no
Zfp677	0.185495	0.335553	0.5161	0.641715	no
Csrp2bp	0.185411	0.650679	0.1956	0.308234	no
Ccdc25	0.185403	0.79397	0.1485	0.247974	no
Vars2	0.185308	0.635278	0.2195	0.337714	no
Slc4a1ap	0.18528	0.722973	0.1792	0.288525	no
Pex14	0.185029	0.818619	0.13945	0.23592	no
Acd	0.184986	0.324092	0.51465	0.640452	no
Ly6c1	0.184956	0.520312	0.2948	0.422458	no
Gm19434	0.18487	0	1	1	no
Padi3	0.184867	0	1	1	no

Dph2	0.18465	0.509342	0.3475	0.479588	no
Tdp1	0.184519	0.45242	0.40865	0.540588	no
Ddx25	0.184403	0.734679	0.1905	0.302208	no
Ly6a	0.184403	0.49188	0.3134	0.442893	no
Uba52	0.18435	0.660963	0.4294	0.560769	no
Actn4	0.184157	0.862213	0.081	0.151548	no
Diexf	0.184122	0.53952	0.29335	0.420925	no
Tmem38a	0.184012	0.879376	0.10855	0.191967	no
Dync1li1	0.184003	0.956569	0.0818	0.152765	no
Med22	0.183953	0.569064	0.25235	0.375066	no
Snrpe	0.183908	0.573967	0.49355	0.62101	no
Mboat7	0.183897	0.804683	0.1299	0.222774	no
Foxj2	0.183824	0.670809	0.17095	0.277532	no
Zfp606	0.183784	0.392534	0.438	0.569645	no
Apopt1	0.183357	0.469726	0.3459	0.478076	no
Zfp280c	0.183072	0.503817	0.31095	0.440463	no
4921507P07Rik	0.182977	0	1	1	no
Kat5	0.18279	0.731105	0.1414	0.238519	no
Rpia	0.182775	0.469979	0.4027	0.534155	no
Lsm1	0.182708	0.52034	0.34285	0.474603	no
Zfp689	0.182509	0.314039	0.55485	0.675029	no
Plcd4	0.182441	0.507055	0.34445	0.476569	no
Zfp619	0.182341	0	1	1	no
Ubl7	0.182254	0.687733	0.16625	0.27143	no
Pycl	0.182145	0.523449	0.3697	0.501361	no
Calcoco1	0.182141	0.74583	0.16195	0.265816	no
Dlgap3	0.182136	0.820585	0.11735	0.204638	no
Tmem214	0.182028	0.714895	0.1849	0.295408	no
Polr2e	0.182017	0.0573443	0.91595	0.948035	no
Zfp105	0.18192	0.338323	0.5373	0.660033	no
Tsc1	0.181884	0.753752	0.12955	0.222318	no
Clip4	0.181875	0.808928	0.106	0.18826	no
Snap47	0.181677	0.945468	0.0881	0.16182	no
Pnp0	0.181565	0.694951	0.2093	0.325493	no
Them4	0.181531	0.712198	0.19985	0.313665	no
Zfp458	0.181247	0.355457	0.50115	0.627834	no
Nars2	0.181111	0.543646	0.2993	0.427337	no
Akirin1	0.181033	0.878455	0.1053	0.187393	no
Trim69	0.180996	0	1	1	no
Rbm15	0.180735	0.428337	0.4171	0.54892	no
Ypel5	0.180718	0.906868	0.08985	0.164238	no
Acot8	0.180617	0.231488	0.64495	0.750048	no
Mctp2	0.180599	0.721729	0.15915	0.261998	no
Mlc1	0.180594	0.705809	0.1945	0.307048	no
Clpp	0.180508	0.647213	0.27465	0.399625	no
Stk35	0.180265	0.642229	0.19655	0.309401	no
Tiparp	0.180255	0.688657	0.16245	0.266472	no
Kdm4c	0.179958	0.584814	0.23815	0.359283	no
Eef2k	0.179935	0.68831	0.16535	0.27026	no
Ushbp1	0.179903	0.37193	0.4878	0.615585	no
Ubn1	0.179813	0.751965	0.145	0.243693	no
Tmem55b	0.179798	0.720035	0.1521	0.252903	no
D230025D16Rik	0.179631	0.691855	0.20195	0.316213	no

6330549D23Rik	0.179596	0.142891	0.7744	0.85247	no
Gm715	0.179558	0.253249	0.6681	0.76855	no
Prdx2	0.179345	1.05845	0.0951	0.172268	no
Zbtb8a	0.178868	0.360564	0.50675	0.633354	no
Ifit3	0.178833	0.537157	0.3325	0.463662	no
L2hgdh	0.17864	0.368442	0.49275	0.620121	no
Pydc4	0.178614	0	1	1	no
37680	0.178557	0.709799	0.1901	0.301826	no
Maf1	0.178299	0.650202	0.19485	0.307345	no
Ddx5	0.178275	0.814542	0.09865	0.177583	no
Pdf	0.178188	0.646937	0.2612	0.384641	no
Kat8	0.177994	0.472257	0.3406	0.472474	no
Naa35	0.177962	0.755042	0.1678	0.273489	no
Aff4	0.177546	0.834205	0.0856	0.158412	no
Smg1	0.177533	0.809576	0.10805	0.191312	no
Gpr85	0.177459	0.511283	0.34125	0.473128	no
Gm5126	0.177446	0	1	1	no
Nsfl1c	0.177332	0.675154	0.17425	0.28158	no
Ilf3	0.177294	0.770714	0.14395	0.242174	no
Ppp1r12a	0.177236	0.739731	0.157	0.259328	no
Gm9199	0.17716	0	1	1	no
Add1	0.176985	0.820566	0.10075	0.180506	no
Tulp3	0.176982	0.650029	0.21705	0.334565	no
Skap1	0.176922	0	1	1	no
Mettl2	0.176881	0.501241	0.3549	0.486813	no
Srd5a3	0.176817	0.709056	0.2078	0.323578	no
Nup155	0.176816	0.692356	0.17955	0.288948	no
Rai14	0.176696	0.523758	0.2875	0.414054	no
Prr33	0.176607	0	1	1	no
Thoc2	0.176427	0.700411	0.16925	0.275413	no
Hnrnpl	0.176418	0.876348	0.11305	0.198286	no
Ric8b	0.17625	0.72424	0.1493	0.24909	no
Mettl16	0.176217	0.63715	0.2292	0.349348	no
Cebpb	0.176185	0.414151	0.4734	0.602455	no
Ola1	0.176157	0.78498	0.1108	0.195062	no
3010026O09Rik	0.176153	0.488935	0.4139	0.545955	no
Immnp2l	0.176088	0.20116	0.7483	0.833	no
Ybx3	0.175883	0.576809	0.24685	0.369009	no
Rbm8a	0.175832	0.642877	0.20085	0.314788	no
Bcam	0.175684	0.843295	0.11875	0.20678	no
Lim2	0.175647	0	1	1	no
Rrm2b	0.175608	0.771624	0.13865	0.234866	no
Zmat1	0.175572	0.449918	0.39075	0.522273	no
Dnajc8	0.175539	0.802245	0.1645	0.269036	no
Cyth1	0.175435	0.721853	0.1468	0.246033	no
Stat5a	0.175428	0.385446	0.44065	0.572194	no
Dll4	0.175313	0.298845	0.5503	0.671279	no
Wipi2	0.17518	0.853436	0.1008	0.180523	no
Adam25	0.175126	0	1	1	no
Diap3	0.175087	0.448834	0.3945	0.526225	no
Tbc1d32	0.175086	0.576956	0.25995	0.383366	no
Pdia3	0.175054	0.878049	0.1008	0.180523	no
Sp100	0.174952	0.323559	0.5585	0.678349	no

Psma7	0.174915	0.780214	0.1155	0.201889	no
Rfesd	0.174727	0.505471	0.3091	0.438451	no
Pik3c3	0.174723	0.811874	0.1216	0.211078	no
Chd9	0.174711	0.757056	0.13415	0.22885	no
Gira1	0.174694	0	1	1	no
Tmem160	0.174688	0.780164	0.23395	0.354722	no
Gucy2d	0.174639	0	1	1	no
Cep89	0.174597	0.394591	0.4585	0.588119	no
Chchd6	0.17457	0.587028	0.23635	0.357584	no
Lrit1	0.174445	0	1	1	no
Zswim7	0.174387	0.473901	0.4826	0.611057	no
Matr3	0.174346	0.85643	0.1001	0.179584	no
Tmem180	0.17433	0.607326	0.25815	0.381517	no
Eef2	0.174266	0.700163	0.1573	0.259726	no
Zbtb4	0.174237	0.841216	0.0926	0.168522	no
A630072M18Rik	0.174178	0.270838	0.58835	0.703591	no
Zfp639	0.174123	0.526301	0.29415	0.421891	no
Hipk3	0.174061	0.803079	0.10575	0.187942	no
Msmo1	0.173917	0.914515	0.10345	0.184695	no
Cox11	0.173883	0.469429	0.3936	0.52513	no
Gm4827	0.173869	0	1	1	no
Lrrtm3	0.173786	0.417164	0.39285	0.524446	no
Irf2bpl	0.173785	0.80294	0.127	0.218763	no
Ggn	0.17377	0	1	1	no
Keap1	0.173734	0.729582	0.144	0.242227	no
Jmjd1c	0.173577	0.686176	0.1706	0.2771	no
Taf8	0.173533	0.496161	0.36205	0.494168	no
Fam149a	0.173428	0.677509	0.191	0.30282	no
Trim26	0.173345	0.647485	0.19375	0.306192	no
Chchd1	0.173256	0.457697	0.35455	0.486383	no
Slc17a5	0.17316	0.653455	0.18455	0.294955	no
D10Wsu102e	0.172982	0.690683	0.19195	0.303999	no
Sarnp	0.172966	0.304558	0.6189	0.728631	no
Syn1	0.172949	0.730412	0.1709	0.277485	no
H3f3a	0.172944	0.600508	0.32615	0.45692	no
Apaf1	0.172783	0.467768	0.34655	0.478545	no
Ipp	0.17262	0.448037	0.41015	0.542032	no
Katnb1	0.172578	0.603212	0.2512	0.373995	no
Sdf2l1	0.17256	0.489299	0.41855	0.550174	no
Amacr	0.172223	0.518506	0.3362	0.467446	no
Phlda2	0.172217	0.187298	0.7882	0.862011	no
Tmem192	0.172214	0.499572	0.31385	0.44334	no
Mecr	0.172088	0.635789	0.2728	0.397631	no
Pink1	0.172014	0.803586	0.10715	0.189896	no
Anapc16	0.172	0.673852	0.25415	0.376897	no
Nup88	0.171955	0.393983	0.4308	0.562154	no
Slc35a5	0.17193	0.812811	0.12	0.208765	no
Sec22c	0.171863	0.696954	0.15825	0.260873	no
Ldlr	0.171732	0.803069	0.1058	0.18798	no
D16Ert472e	0.171689	0	1	1	no
Clnk	0.171303	0	1	1	no
Triqk	0.171294	0.578712	0.2411	0.362908	no
Bpnt1	0.17108	0.800706	0.1407	0.23758	no

Vwce	0.17099	0	1	1	no
Sqle	0.170908	0.861043	0.1065	0.188895	no
Tada3	0.170811	0.649639	0.24745	0.369698	no
Tcerg1	0.170746	0.728842	0.1463	0.245443	no
Npr2	0.170658	0.831014	0.1105	0.194688	no
Ttc7	0.170641	0.378663	0.4657	0.595283	no
Vps33b	0.17058	0.597439	0.2646	0.38884	no
Prune	0.170534	0.758705	0.15375	0.255198	no
Hhex	0.170505	0	1	1	no
Gopc	0.170504	0.746542	0.132	0.225705	no
Ppp1r3b	0.170347	0.348469	0.50785	0.63431	no
Bcl2l1	0.170275	0.700469	0.15675	0.259011	no
Necab2	0.170272	0.515511	0.35195	0.484118	no
Cep192	0.169929	0.355454	0.48635	0.614398	no
1810013L24Rik	0.169889	0.803312	0.1209	0.21011	no
Atg101	0.169848	0.688471	0.24205	0.363678	no
Blm	0.169746	0.382035	0.44705	0.577846	no
Zfp655	0.169639	0.567895	0.2554	0.378412	no
Rnaseh2b	0.169601	0.435393	0.4466	0.577748	no
Ccser2	0.169528	0.732486	0.1405	0.237333	no
Col4a3bp	0.169482	0.797979	0.11165	0.196297	no
Rragc	0.169449	0.841104	0.1133	0.198619	no
Ncf4	0.169387	0	1	1	no
Nudt18	0.169339	0.629207	0.22885	0.349224	no
Tmem50b	0.169325	0.86961	0.11375	0.19925	no
Topors	0.169136	0.555895	0.28855	0.415205	no
2610307P16Rik	0.169128	0.288651	0.5588	0.67859	no
Zfp933	0.169058	0.458837	0.37865	0.510212	no
Cd72	0.168976	0	1	1	no
Gprasp1	0.168829	0.766035	0.1229	0.213	no
Tep1	0.168507	0.693177	0.17085	0.277438	no
Baiap2	0.168476	0.462191	0.3537	0.485669	no
Mfsd9	0.168451	0.527217	0.3182	0.448101	no
Zeb1	0.168429	0.727835	0.14145	0.238573	no
Map3k5	0.16833	0.695829	0.17425	0.28158	no
3110021A11Rik	0.168307	0	1	1	no
Zfp781	0.168269	0	1	1	no
Ippk	0.168219	0.471986	0.3384	0.469963	no
Stap2	0.168208	0	1	1	no
Xrn1	0.168048	0.495026	0.33615	0.467425	no
Tax1bp1	0.168031	0.841091	0.1056	0.187826	no
Tmem14c	0.168005	0.832303	0.18965	0.301364	no
Adprh	0.167829	0.867799	0.12955	0.222318	no
Tbc1d25	0.167773	0.517358	0.2967	0.424492	no
Clip3	0.16772	0.807012	0.12355	0.213847	no
5430427O19Rik	0.167603	0	1	1	no
2510039O18Rik	0.167457	0.686405	0.20275	0.317166	no
Smchd1	0.167415	0.65808	0.2045	0.319414	no
Tnip1	0.167341	0.656341	0.1831	0.293097	no
Csnk1g1	0.167258	0.683149	0.18105	0.290798	no
Tra2b	0.16719	0.653963	0.2332	0.3541	no
Ascc1	0.167098	0.378344	0.4457	0.577057	no
Zcchc14	0.167074	0.598719	0.2413	0.363003	no

Psmf1	0.167052	0.740693	0.1589	0.261652	no
Bin3	0.166873	0.36814	0.5219	0.646624	no
AU023762	0.16674	0	1	1	no
Ubr1	0.166693	0.745528	0.1287	0.221317	no
Gm21284	0.166596	0	1	1	no
Rc3h1	0.166515	0.789415	0.1179	0.205381	no
D030047H15Rik	0.166504	0	1	1	no
Il7	0.166472	0.326367	0.5432	0.665433	no
Serpina3n	0.166266	0.852481	0.1195	0.207977	no
Hsf2	0.166169	0.653381	0.2282	0.348553	no
B230217C12Rik	0.166139	0.495281	0.4083	0.540287	no
Lypd1	0.166048	0.440611	0.3793	0.510829	no
Taf11	0.166003	0.632619	0.2834	0.409171	no
Brms1l	0.165995	0.774701	0.14975	0.249621	no
Mmaa	0.165661	0.439761	0.41075	0.542555	no
Wtap	0.165649	0.576287	0.24945	0.372016	no
Zbtb7c	0.165549	0.306023	0.53885	0.661203	no
Kidins220	0.16529	0.778394	0.1267	0.218359	no
Suz12	0.165187	0.70602	0.15705	0.259378	no
Fpgt	0.165173	0.601672	0.2517	0.374403	no
Ppp2r5d	0.164984	0.428416	0.39195	0.523613	no
Pcgf3	0.16492	0.699903	0.1838	0.29404	no
Zfp335	0.164612	0.512691	0.3178	0.44768	no
Rictor	0.164534	0.706067	0.17105	0.277593	no
Rsl1d1	0.164501	0.676061	0.2328	0.353584	no
Exosc5	0.164454	0.409025	0.41235	0.544289	no
N6amt2	0.16441	0.573672	0.383	0.514246	no
37864	0.164389	0.770527	0.11875	0.20678	no
Brd3	0.163995	0.609472	0.21705	0.334565	no
Gnai3	0.163873	0.770995	0.146	0.245095	no
Cdk5	0.16381	0.800257	0.1417	0.238904	no
BC051142	0.163549	0	1	1	no
Cnpy4	0.163456	0.491435	0.3822	0.513535	no
Cdk9	0.163426	0.645734	0.2221	0.340884	no
Paxip1	0.16332	0.574275	0.26	0.383397	no
Brd4	0.163318	0.676635	0.1732	0.280293	no
Tmod2	0.163255	0.722317	0.14615	0.245284	no
Slc18b1	0.163093	0.482801	0.365	0.497002	no
Ubl5	0.162922	0.646028	0.1947	0.307218	no
Thap1	0.162855	0.412302	0.44685	0.577756	no
Zfx	0.162849	0.531873	0.2818	0.407748	no
Nucb1	0.162728	0.717776	0.14805	0.247347	no
Ptp4a3	0.162687	0.56167	0.25935	0.382992	no
Csnk2a2	0.162566	0.599381	0.26045	0.383932	no
Stx7	0.162436	0.825883	0.12225	0.212095	no
Snx32	0.16238	0.741873	0.19135	0.303302	no
Cd2bp2	0.162313	0.688804	0.17145	0.278072	no
Morn1	0.162247	0.230044	0.68065	0.779587	no
Farsa	0.162201	0.551108	0.2599	0.383334	no
Fam92a	0.162136	0.572972	0.32	0.449967	no
Thsd7a	0.161982	0.757482	0.12815	0.220543	no
A930011G23Rik	0.161908	0	1	1	no
Dis3l2	0.161886	0.540521	0.28175	0.407748	no

Tctn3	0.161682	0.393515	0.4646	0.59422	no
Dpp7	0.161563	0.644664	0.2545	0.377299	no
Papd5	0.161503	0.577683	0.2504	0.373013	no
Mat2b	0.161496	0.714046	0.14965	0.249517	no
Thumpd3	0.161483	0.514845	0.3426	0.474405	no
Dr1	0.161467	0.675993	0.20195	0.316213	no
Kmt2a	0.161456	0.737793	0.1394	0.235865	no
Rnf41	0.161288	0.744916	0.1291	0.221718	no
Tceal1	0.161209	0.626366	0.2912	0.418338	no
Skp2	0.161116	0	1	1	no
Cox6b2	0.160988	0.111005	0.8172	0.882218	no
Jakmip2	0.160942	0.709686	0.1784	0.287411	no
Maats1	0.160911	0	1	1	no
Brd7	0.160862	0.584552	0.2809	0.406873	no
Zfp324	0.160839	0.431141	0.41265	0.544576	no
Zswim4	0.160595	0.592652	0.25635	0.379321	no
Utp23	0.160451	0.331856	0.5358	0.658617	no
Depdc7	0.160446	0.357989	0.5307	0.654288	no
Slc35d1	0.160381	0.389106	0.465	0.59456	no
Brix1	0.16021	0.483857	0.37435	0.506011	no
Josd2	0.159959	0.46066	0.35245	0.484706	no
Arfip1	0.159919	0.695277	0.19395	0.306399	no
Psmd10	0.159886	0.472042	0.35065	0.482799	no
Cep164	0.159629	0.531362	0.2949	0.42251	no
Sod1	0.15949	0.926774	0.2049	0.320001	no
Foxq1	0.159422	0	1	1	no
BC053749	0.159305	0	1	1	no
Ergic2	0.1593	0.233757	0.65735	0.759674	no
Rnf8	0.159198	0.582384	0.2944	0.422158	no
Dnajc13	0.159094	0.765201	0.13315	0.227495	no
BC002163	0.158952	0.738324	0.38055	0.511992	no
Gmfb	0.15891	0.754969	0.1498	0.249673	no
Pds5b	0.158791	0.706255	0.1654	0.270308	no
Map3k1	0.158773	0.607123	0.23095	0.351378	no
Gle1	0.158697	0.663538	0.20825	0.324164	no
Slc13a1	0.15836	0	1	1	no
Rtn2	0.158266	0.697747	0.15575	0.25768	no
Cox17	0.158248	1.01029	0.275	0.40009	no
Ercc5	0.15806	0.543023	0.29825	0.42625	no
Adipor1	0.157966	0.823776	0.1347	0.229552	no
Cct6a	0.15787	0.742111	0.13875	0.234945	no
Xrcc6	0.157643	0.448163	0.42	0.551533	no
Hoxc4	0.157601	0.267164	0.63475	0.74135	no
Shmt2	0.157596	0.488822	0.32515	0.455952	no
Smad2	0.157588	0.693535	0.15945	0.262427	no
Map3k2	0.157454	0.62469	0.2188	0.33691	no
Slc7a8	0.157409	0.613545	0.2413	0.363003	no
Nudcd2	0.157408	0.382254	0.4382	0.569793	no
Pclo	0.157317	0.733937	0.1425	0.240009	no
Cep120	0.157258	0.72781	0.14105	0.23811	no
Dusp3	0.157107	0.7756	0.13655	0.232109	no
Inip	0.157042	0.465582	0.37775	0.50931	no
Cxcl12	0.156823	0.528953	0.2809	0.406873	no

Serbp1	0.156777	0.717368	0.15275	0.253856	no
Hist1h2bj	0.156767	0.223378	0.8215	0.885365	no
Cyp4x1	0.156682	0.490665	0.3902	0.521748	no
Gpr173	0.156546	0.496037	0.3478	0.479903	no
Rbm11	0.156515	0.665781	0.21085	0.32729	no
1810032O08Rik	0.156446	0.166554	0.73265	0.821646	no
Gtf2h5	0.15615	0.752423	0.2113	0.327758	no
Sp4	0.155982	0.516614	0.29415	0.421891	no
Tbc1d22b	0.155964	0.542428	0.27335	0.39817	no
Cdk5rap2	0.155922	0.56376	0.27435	0.399276	no
Cul2	0.155896	0.737302	0.15685	0.259144	no
Necab1	0.15579	0.717884	0.1475	0.24677	no
Mrps15	0.15564	0.628243	0.3116	0.441007	no
Vopp1	0.155611	0.727489	0.1716	0.278281	no
Rnf20	0.155447	0.667007	0.1782	0.287124	no
Rap2a	0.155435	0.733903	0.1583	0.26089	no
Cpt1c	0.155418	0.642947	0.19645	0.309353	no
Cr1l	0.155309	0.523342	0.3502	0.482461	no
Prmt3	0.155248	0.658419	0.2272	0.347425	no
Peg3	0.154896	0.746698	0.1353	0.230368	no
Noc3l	0.154873	0.564511	0.2816	0.407636	no
Jak1	0.154805	0.667962	0.17985	0.289256	no
Zfp275	0.15473	0.609131	0.2183	0.336297	no
Tnk2	0.154716	0.714348	0.1541	0.255715	no
Tex261	0.154621	0.697814	0.2314	0.351901	no
Cnot7	0.154451	0.397418	0.4651	0.594631	no
Sorbs2	0.154426	0.582906	0.2503	0.373013	no
Mlycd	0.154416	0.520075	0.34385	0.475788	no
Heatr6	0.154347	0.614511	0.23885	0.360134	no
Mrps36	0.154296	0.192875	0.689	0.786117	no
Pmf1	0.154292	0.29373	0.6445	0.749591	no
Fam120c	0.154251	0.645235	0.2054	0.320593	no
Tpr	0.154229	0.549551	0.2818	0.407748	no
Khdrbs3	0.154179	0.664574	0.23265	0.353478	no
Rnf6	0.154138	0.660657	0.18625	0.2971	no
Ttyh3	0.154081	0.696628	0.18145	0.291229	no
Mrpl50	0.154036	0.629989	0.25225	0.374969	no
Jak2	0.154033	0.545799	0.27345	0.398272	no
Nat9	0.153949	0.475056	0.4376	0.569292	no
Ctage5	0.153931	0.650006	0.1953	0.307835	no
Ddx39b	0.153542	0.682852	0.1662	0.271382	no
Zfp120	0.153517	0.401613	0.42015	0.551621	no
Fam185a	0.153445	0.486379	0.3589	0.491183	no
Flcn	0.153444	0.497535	0.3164	0.446134	no
Tk2	0.153237	0.546446	0.278	0.40357	no
Rab1b	0.152992	0.793774	0.1548	0.256556	no
2010315B03Rik	0.152958	0.398539	0.41715	0.548932	no
Bcas2	0.15295	0.679402	0.2415	0.363222	no
Tagap1	0.152811	0.561567	0.30085	0.428996	no
Vcp	0.152807	0.763809	0.145	0.243693	no
Rpn1	0.152798	0.688915	0.16345	0.267781	no
Bag4	0.152787	0.610613	0.2346	0.355261	no
Il11	0.152785	0	1	1	no

Atp6v1e1	0.152769	0.862591	0.14595	0.245073	no
Nrp1	0.152714	0.703824	0.15235	0.253287	no
Mov10	0.152635	0.284444	0.5689	0.68752	no
Brip1	0.152622	0	1	1	no
Tcp11l2	0.152612	0.599256	0.26805	0.392562	no
Rrp7a	0.152599	0.603496	0.22715	0.347389	no
Cenpt	0.152568	0.333379	0.5418	0.663963	no
Zfyve1	0.152521	0.668499	0.198	0.311314	no
Zfp523	0.15247	0.532193	0.31835	0.448217	no
Afg3l1	0.152457	0.543091	0.273	0.397879	no
Rnf122	0.152393	0.381883	0.46895	0.597997	no
Hcfc2	0.152275	0.444953	0.41575	0.547578	no
Sgsm3	0.152249	0.48583	0.35655	0.488471	no
Ppapdc1a	0.152195	0.318426	0.59795	0.711863	no
Ripk2	0.152189	0.345708	0.534	0.657196	no
Klhdc8a	0.15215	0.611278	0.2413	0.363003	no
Psmd4	0.152064	0.669562	0.1769	0.285272	no
Lins	0.152047	0.459957	0.35345	0.485477	no
Rere	0.152039	0.703352	0.16745	0.273053	no
Wdr77	0.1519	0.501346	0.31335	0.442893	no
Cars	0.151859	0.496543	0.32105	0.4513	no
Mrpl40	0.151852	0.556638	0.361	0.493243	no
Phax	0.151847	0.3339	0.49675	0.623676	no
Fmn2	0.151836	0.619856	0.21975	0.337981	no
Nupr1	0.151812	0.32927	0.65035	0.754147	no
Chmp1b	0.151472	0.141988	0.7798	0.856637	no
1110034G24Rik	0.151457	0.377624	0.5081	0.634384	no
Mcm8	0.15141	0.302237	0.53975	0.662185	no
Klhdc1	0.151263	0.357511	0.5253	0.649441	no
Rab28	0.151214	0.629886	0.27	0.394851	no
Rsbn1	0.151155	0.306611	0.5484	0.669947	no
Fbxo6	0.151116	0.35533	0.4781	0.606923	no
Ptdss2	0.151068	0.631154	0.2472	0.369449	no
Pdik1l	0.150967	0.376315	0.4505	0.580778	no
Vps37a	0.15082	0.294521	0.5663	0.684815	no
Ascl4	0.15074	0	1	1	no
Crk	0.150674	0.705664	0.157	0.259328	no
Rif1	0.150632	0.472346	0.3448	0.476954	no
Polr1d	0.150499	0.51879	0.29695	0.424759	no
Lhfp15	0.150392	0.461627	0.43555	0.567348	no
2900011O08Rik	0.150329	0.685416	0.16575	0.270747	no
Nhp2	0.150293	0.43219	0.48695	0.614922	no
Mis12	0.150276	0.38043	0.44135	0.572766	no
Eif3m	0.150263	0.37303	0.45165	0.581864	no
1110038F14Rik	0.150218	0.455773	0.45625	0.586197	no
Fnip2	0.150177	0.414328	0.40645	0.538268	no
Ctla2a	0.150154	0.27604	0.58285	0.69908	no
Smg5	0.150067	0.696839	0.1799	0.289301	no
Pnma2	0.150055	0.704506	0.1742	0.281568	no
N4bp2l2	0.149901	0.55286	0.28415	0.409986	no
Dlg5	0.14974	0.59062	0.23395	0.354722	no
Gm3258	0.149685	0.402321	0.4217	0.553218	no
Phlpp2	0.149677	0.625759	0.21645	0.334223	no

Gss	0.149517	0.482983	0.33115	0.462168	no
Rpl26	0.149442	0	1	1	no
Synrg	0.149353	0.70936	0.1638	0.268156	no
Mospd3	0.149128	0.396883	0.4241	0.555543	no
Top3b	0.149039	0.509643	0.3333	0.464533	no
Cnot6	0.148979	0.590656	0.2385	0.359729	no
Cct2	0.148779	0.777443	0.15835	0.26094	no
Rrn3	0.148646	0.719575	0.1698	0.276105	no
Thnsl1	0.148623	0.474515	0.3411	0.473069	no
Tars	0.148519	0.593721	0.27375	0.398622	no
Pfdn5	0.148488	0.693361	0.31635	0.446134	no
Homer3	0.148474	0.26737	0.62225	0.731077	no
C030037D09Rik	0.148389	0.17945	0.7709	0.849588	no
Capza1	0.148367	0.630246	0.2316	0.352124	no
Slc7a6	0.14836	0.591125	0.259	0.38256	no
9030624J02Rik	0.148287	0.690463	0.1847	0.29516	no
Ampd2	0.14824	0.622722	0.21215	0.328846	no
Lin9	0.148119	0.203255	0.67515	0.774578	no
Tspyl2	0.148118	0.644635	0.23115	0.351601	no
Zbtb25	0.148108	0.329505	0.50335	0.629995	no
Acbd7	0.148025	0	1	1	no
Decr2	0.14795	0.569123	0.2987	0.426756	no
Cd151	0.147934	0.684087	0.173	0.280072	no
Zswim5	0.147889	0.572534	0.26665	0.391073	no
Eif3b	0.14783	0.681211	0.16745	0.273053	no
Ddx21	0.147778	0.565537	0.2776	0.403122	no
Aes	0.147774	0.689989	0.1645	0.269036	no
Adam33	0.147689	0	1	1	no
Osgp	0.147641	0.377104	0.50945	0.63571	no
Casp9	0.147526	0.591573	0.232	0.352571	no
Hinfp	0.147512	0.341885	0.53565	0.658555	no
Pcdha7	0.147482	0.0803905	0.86905	0.918407	no
Arhgef25	0.147455	0.644847	0.1939	0.306392	no
Zfp598	0.14743	0.515589	0.33135	0.462398	no
Apc2	0.147328	0.158046	0.75105	0.83515	no
Srebf2	0.147258	0.690127	0.16435	0.26889	no
Ocr1	0.147233	0.681529	0.18415	0.294458	no
Mrps17	0.147054	0.530874	0.36295	0.494989	no
Sf3b1	0.146427	0.702654	0.16775	0.273441	no
2310011J03Rik	0.146104	0.0547384	0.9164	0.948426	no
0610037L13Rik	0.146036	0.529005	0.35095	0.483043	no
Slc38a3	0.145852	0	1	1	no
Abtb1	0.145797	0.626015	0.2597	0.383167	no
Cnm3	0.145778	0.503797	0.3111	0.440487	no
1110059G10Rik	0.145535	0.401816	0.45045	0.580778	no
Nelfb	0.145534	0.675278	0.21075	0.327211	no
4632434I11Rik	0.14546	0	1	1	no
Grn	0.145403	0.684565	0.2079	0.323695	no
Hsbp1	0.145324	0.771539	0.19615	0.308991	no
Actr6	0.14517	0.438967	0.44115	0.572675	no
Zbed3	0.145151	0.260777	0.59325	0.707601	no
Tle6	0.145027	0.207571	0.7035	0.79895	no
Numa1	0.144989	0.678362	0.18325	0.293266	no

Zc3h14	0.144747	0.57729	0.27565	0.400816	no
Oacyl	0.144673	0	1	1	no
Ip6k1	0.144492	0.710172	0.16685	0.272342	no
Tmem161a	0.144426	0.521572	0.327	0.457794	no
Wdr73	0.144422	0.391845	0.42865	0.56001	no
Uty	0.144201	0.502583	0.32585	0.456548	no
Swi5	0.144025	0.617865	0.21225	0.328963	no
Ttll7	0.143999	0.576898	0.26065	0.384056	no
Spata5	0.143923	0.380031	0.44635	0.577729	no
Rars2	0.143856	0.460757	0.4024	0.533971	no
Trmt2b	0.143849	0.446782	0.36665	0.498498	no
AA474331	0.143837	0.220446	0.7414	0.828238	no
Nop16	0.14376	0.471471	0.39685	0.528562	no
Cxcl5	0.143638	0	1	1	no
Pgrmc1	0.143599	0.748305	0.1786	0.287699	no
Itpk1	0.143548	0.583689	0.2377	0.358994	no
Slc38a10	0.14349	0.652299	0.1875	0.298519	no
Cep97	0.143301	0.323055	0.4853	0.61348	no
Gorasp1	0.143232	0.315412	0.52605	0.649945	no
Ankrd13a	0.143141	0.589717	0.2633	0.387273	no
D430019H16Rik	0.143112	0.60368	0.24025	0.361875	no
Pomgnt2	0.142964	0.571087	0.24905	0.371545	no
Irgm2	0.142879	0.434786	0.40585	0.537635	no
Gga3	0.142847	0.618949	0.2138	0.330901	no
Atp6v0e	0.142704	0.598049	0.3668	0.498549	no
Armcx3	0.142657	0.601116	0.22585	0.34568	no
BC037034	0.142604	0.662936	0.22185	0.34054	no
Prom1	0.142579	0.469703	0.3401	0.472076	no
Zfp277	0.142541	0.368887	0.4533	0.583254	no
Cdkn2aip	0.142402	0.392806	0.4573	0.587148	no
Supt5	0.142396	0.7011	0.1776	0.286296	no
Stim1	0.14228	0.651574	0.21545	0.333222	no
Krcc1	0.142019	0.438727	0.43695	0.568725	no
Zfp433	0.141998	0.190073	0.72665	0.81753	no
Prmt8	0.141927	0.607073	0.25965	0.383167	no
Nap1l4	0.141907	0.658462	0.18475	0.295204	no
Tssc1	0.141818	0.548943	0.32535	0.456088	no
Zdhhc21	0.141726	0.675565	0.18035	0.289919	no
Gm20759	0.141649	0	1	1	no
Tmem87b	0.141433	0.642589	0.21345	0.330552	no
Gm12070	0.141253	0.43616	0.4366	0.568437	no
Utp3	0.141087	0.603777	0.28665	0.413009	no
Fam192a	0.141072	0.568466	0.31095	0.440463	no
Zfp317	0.140953	0.498694	0.3352	0.466593	no
Cd3eap	0.140949	0.280565	0.5824	0.698806	no
Cdadcl	0.140914	0.565846	0.2528	0.375525	no
Rprm	0.140851	0.66662	0.24625	0.368403	no
Hs2st1	0.140684	0.632128	0.2193	0.337524	no
Mau2	0.140652	0.604493	0.2293	0.349348	no
Vamp7	0.140589	0.634311	0.2409	0.362731	no
Dnaja2	0.140559	0.707937	0.17975	0.2892	no
Vps18	0.140467	0.639834	0.2201	0.338245	no
Ubr5	0.140414	0.659208	0.1815	0.291239	no

Cdc42	0.140409	0.634831	0.2025	0.31685	no
Hnrnp2	0.140365	0.682936	0.21085	0.32729	no
Tmx3	0.140348	0.685795	0.18745	0.298476	no
Cyb5r1	0.140233	0.718525	0.20365	0.318386	no
Tuba1c	0.140213	0.733713	0.1745	0.281881	no
Colec11	0.14007	0	1	1	no
Zfp53	0.14005	0.284678	0.5913	0.706101	no
Casc3	0.139952	0.415221	0.3984	0.530148	no
Cyb5d1	0.13985	0.425146	0.53595	0.658741	no
Ccnt1	0.139809	0.400395	0.46975	0.598787	no
Ifitm7	0.139799	0	1	1	no
Ate1	0.139795	0.610695	0.2199	0.338172	no
Slc19a3	0.139748	0	1	1	no
Arsb	0.139739	0.587063	0.23285	0.35362	no
Fktn	0.139664	0.540936	0.31615	0.445924	no
Slc25a14	0.139595	0.487219	0.32385	0.454536	no
Zkscan8	0.139587	0.313346	0.4401	0.571647	no
Eps15l1	0.139552	0.576275	0.24215	0.363787	no
Asnsd1	0.139542	0.513952	0.29885	0.426878	no
Hist1h2bf	0.139518	0	1	1	no
Rfc3	0.139266	0.28185	0.6399	0.746006	no
Cep112	0.139041	0.213971	0.64585	0.750875	no
Fam160a2	0.13904	0.572749	0.2458	0.367896	no
Hmga1	0.139015	0.31623	0.51115	0.637412	no
Khk	0.138955	0.471119	0.4329	0.564506	no
Slc17a6	0.138913	0.682251	0.19075	0.302568	no
Tbc1d31	0.138686	0.238012	0.6337	0.740796	no
Dram1	0.138621	0	1	1	no
Madd	0.138545	0.644822	0.1936	0.306028	no
Mif	0.138472	0.643434	0.4075	0.539336	no
Gps1	0.138454	0.278483	0.5728	0.690975	no
Adar	0.138451	0.392809	0.44345	0.574873	no
Eif3l	0.138446	0.681314	0.22295	0.341833	no
Txnrd3	0.138329	0.41043	0.4125	0.544433	no
Pabpc5	0.138248	0	1	1	no
Chd4	0.138177	0.647986	0.18395	0.294209	no
Iqsec3	0.138153	0.5661	0.25185	0.374543	no
Aspcr1	0.138117	0.519077	0.2947	0.422405	no
Zswim6	0.138086	0.555615	0.25945	0.383054	no
Wdr5	0.138033	0.490128	0.3579	0.490067	no
Nr1h2	0.137862	0.539425	0.2801	0.40613	no
Camk1	0.137793	0.454421	0.3591	0.491406	no
Plekhg3	0.137627	0.480464	0.3466	0.478545	no
Atp6v1d	0.137561	0.725946	0.2078	0.323578	no
Tmem60	0.137533	0.555817	0.39035	0.521896	no
Tmco6	0.137528	0.244366	0.66115	0.763069	no
Ap4e1	0.137478	0.501288	0.3272	0.457956	no
Wdr26	0.137443	0.648826	0.19675	0.309679	no
Psen2	0.137255	0.53827	0.2772	0.402717	no
Rab5c	0.137155	0.704675	0.2125	0.329235	no
Eid2b	0.137093	0.367915	0.49485	0.621879	no
Tubd1	0.137031	0.233052	0.63455	0.74135	no
Mkln1os	0.136874	0.203667	0.7505	0.834959	no

R3hdm4	0.136872	0.071698	0.8842	0.928333	no
Cox20	0.136842	0.461093	0.609	0.72075	no
Pnma3	0.136824	0.225309	0.6658	0.766968	no
Atrnl1	0.136788	0.624342	0.2042	0.31902	no
Tecta	0.136662	0.375733	0.4633	0.593072	no
Zfp326	0.136508	0.397311	0.42625	0.557533	no
Gm16515	0.136367	0.344116	0.5119	0.638047	no
Zc3h8	0.13618	0.293779	0.60735	0.719374	no
Zfp958	0.136174	0.341073	0.52425	0.648869	no
Gm6251	0.135896	0.165288	0.7395	0.826728	no
2610002J02Rik	0.135811	0.483213	0.33565	0.466926	no
Ykt6	0.135667	0.665585	0.2117	0.32834	no
Pex5	0.135665	0.541322	0.27335	0.39817	no
Tmem218	0.135643	0.416283	0.50485	0.631515	no
Farsb	0.135611	0.302738	0.53455	0.65763	no
Clec2d	0.135345	0.306283	0.6056	0.717814	no
Tssc4	0.135291	0.372879	0.4551	0.585059	no
Hdc	0.135167	0	1	1	no
Hotair	0.135126	0	1	1	no
Bdp1	0.13495	0.523567	0.2978	0.425653	no
Rbms3	0.134905	0.600737	0.22255	0.341496	no
Nkapl	0.134905	0	1	1	no
Svopl	0.134842	0	1	1	no
1110001J03Rik	0.134675	0.437827	0.63035	0.737986	no
Bsn	0.134619	0.637155	0.20255	0.31689	no
Rhog	0.134563	0.436884	0.4505	0.580778	no
Jrkl	0.13456	0.402279	0.45565	0.585539	no
Ulk3	0.134553	0.451428	0.3931	0.524621	no
Cst6	0.134481	0.305749	0.56075	0.680273	no
Paf1	0.134394	0.515177	0.35015	0.482461	no
Adra2b	0.134384	0	1	1	no
Smek1	0.134349	0.455929	0.37895	0.510461	no
Eif4e	0.134303	0.551559	0.2651	0.389402	no
Itga4	0.134181	0.385874	0.44595	0.577268	no
Ostm1	0.1341	0.608683	0.25285	0.375525	no
Fem1b	0.134064	0.649856	0.20955	0.325806	no
Mtg1	0.133833	0.265472	0.63885	0.745175	no
Hmox2	0.133824	0.485598	0.41815	0.549702	no
Tex264	0.133725	0.549374	0.2716	0.396478	no
Dgkeos	0.133706	0	1	1	no
E430025E21Rik	0.133542	0.628818	0.22545	0.345267	no
Sv2a	0.133466	0.622084	0.23165	0.35216	no
Urb1	0.133404	0.352884	0.48545	0.613611	no
Atxn1	0.133311	0.556177	0.2639	0.388026	no
Nadk2	0.133222	0.311605	0.5284	0.652059	no
Ubxn1	0.133074	0.676305	0.2687	0.39334	no
Per2	0.132875	0.349321	0.5071	0.633612	no
Foxp1	0.132813	0.476036	0.3395	0.471293	no
Ndufa6	0.132809	0.767409	0.32505	0.45586	no
Synpo2	0.132712	0.274582	0.59205	0.706678	no
Rundc1	0.132677	0.41049	0.40965	0.541533	no
Kcnmb4	0.132621	0.378625	0.45235	0.58254	no
Sec61a1	0.132585	0.653838	0.2144	0.331675	no

Wdr6	0.132581	0.533254	0.2821	0.407915	no
36403	0.132416	0.638811	0.216	0.333722	no
Exoc2	0.132362	0.589399	0.24555	0.367605	no
Becn1	0.132125	0.59916	0.2291	0.349348	no
Ppap2c	0.132098	0.381903	0.4465	0.577748	no
6330419J24Rik	0.132	0.379309	0.47555	0.604554	no
Ap4s1	0.131982	0.229004	0.6473	0.751777	no
Mrpl41	0.131973	0.441237	0.3761	0.507633	no
Fnip1	0.131905	0.453008	0.3762	0.507633	no
Pradc1	0.131855	0.0999669	0.87395	0.92219	no
Ndufaf3	0.131829	0.488093	0.4222	0.55371	no
Amn1	0.131805	0.452836	0.4635	0.593214	no
Anxa7	0.131762	0.621793	0.211	0.327446	no
Ccdc32	0.131672	0.511429	0.35305	0.485179	no
Gm6623	0.131436	0.238147	0.6563	0.759056	no
Cox19	0.131178	0.556004	0.40625	0.538057	no
Nadk	0.131099	0.514642	0.30245	0.430747	no
Zfp322a	0.130879	0.454571	0.36075	0.492952	no
Ank2	0.130662	0.527798	0.29495	0.422536	no
Ankrd50	0.130371	0.586097	0.2556	0.378465	no
Abcc5	0.13018	0.517759	0.29305	0.420586	no
Gtf3c6	0.130121	0.43987	0.48155	0.610193	no
Eif3k	0.130107	0.543145	0.27015	0.394983	no
Shq1	0.130068	0.225597	0.6869	0.784577	no
Polr1b	0.129999	0.359773	0.49195	0.619349	no
Nono	0.129991	0.574277	0.2481	0.370377	no
Tmem67	0.129949	0.260318	0.60755	0.719542	no
Gm5124	0.129933	0.421088	0.43965	0.571231	no
Rbm26	0.12986	0.303989	0.51475	0.640517	no
Gm15787	0.129797	0	1	1	no
Tceb1	0.129599	0.700206	0.27065	0.395497	no
Zfp97	0.129562	0.216316	0.687	0.784577	no
Zfp446	0.129419	0.286392	0.566	0.684577	no
Agtrap	0.129323	0.539884	0.304	0.432651	no
D830026I12Rik	0.129265	0	1	1	no
Eml4	0.129213	0.481312	0.3311	0.462147	no
Taf1b	0.129203	0.355906	0.47545	0.604484	no
Dlgap4	0.129197	0.55305	0.2683	0.392841	no
Rad51	0.129166	0.179858	0.7428	0.829523	no
Ppm1l	0.129073	0.604949	0.24825	0.370559	no
Stx16	0.129017	0.530295	0.281	0.406901	no
Stard3nl	0.128795	0.667159	0.25555	0.378433	no
Smim20	0.128593	0.532665	0.3969	0.528576	no
Nup205	0.128533	0.447725	0.3753	0.506831	no
Pgap3	0.128245	0.33301	0.5443	0.666411	no
Trim23	0.128221	0.510545	0.3274	0.458139	no
1110057K04Rik	0.128218	0.480716	0.33525	0.466614	no
Ilf2	0.128197	0.411258	0.45875	0.58827	no
App	0.128101	0.521523	0.3125	0.44195	no
Spata7	0.12792	0.316975	0.5246	0.64912	no
Trappc1	0.127888	0.699711	0.3012	0.429356	no
Mecom	0.127852	0	1	1	no
Carm1	0.127664	0.380942	0.47545	0.604484	no

4930506C21Rik	0.12762	0	1	1	no
Hbp1	0.127571	0.387431	0.44255	0.573987	no
2700029M09Rik	0.127354	0.496958	0.40205	0.533667	no
Mok	0.127197	0.187354	0.7389	0.82628	no
Zfp101	0.126896	0.277367	0.6066	0.718807	no
Tbc1d15	0.126326	0.509445	0.3282	0.458968	no
Parm1	0.126274	0.654756	0.22915	0.349348	no
Glra2	0.126273	0	1	1	no
Slain2	0.126269	0.496441	0.3211	0.451323	no
Alkbh1	0.126211	0.116258	0.83455	0.893766	no
Ttc9c	0.126159	0.527138	0.31345	0.442916	no
Pts	0.126064	0.457013	0.4583	0.588033	no
Zfp932	0.125906	0.338991	0.53845	0.660956	no
Mpdz	0.125799	0.591145	0.2423	0.36393	no
R3hdm1	0.12578	0.517938	0.29595	0.423694	no
Ccdc58	0.12575	0.178085	0.71665	0.809425	no
Nans	0.125661	0.492913	0.37345	0.505001	no
Zfp820	0.125625	0.252277	0.63465	0.74135	no
Tmc6	0.125366	0.452775	0.35795	0.490085	no
Yipf4	0.125293	0.592854	0.28935	0.416131	no
Grcc10	0.12524	0.77271	0.3136	0.443081	no
Prdm4	0.124993	0.512488	0.323	0.453705	no
Hspa5	0.124978	0.584702	0.2344	0.35512	no
Vwa5b2	0.124921	0.473558	0.3404	0.472394	no
Sh3bgrl	0.124886	0.600938	0.26055	0.383994	no
A830010M20Rik	0.124815	0.464982	0.3449	0.477042	no
Zfp109	0.124607	0.235526	0.6546	0.7578	no
Pigw	0.124587	0.191559	0.72295	0.814416	no
Phf12	0.124447	0.4057	0.4302	0.561648	no
Zfp800	0.124414	0.325255	0.53135	0.654968	no
Ilk	0.124323	0.548869	0.3257	0.456434	no
Rpa2	0.12424	0.311266	0.5781	0.695219	no
Cbfa2t3	0.124238	0.296978	0.55205	0.672795	no
Atp6v1c1	0.124216	0.639609	0.2397	0.361211	no
Rpap2	0.124079	0.338493	0.4885	0.616117	no
Tcf19	0.123716	0.222426	0.64985	0.753765	no
Exosc4	0.123668	0.406291	0.46795	0.597302	no
Znhit3	0.123628	0.284695	0.5709	0.68943	no
Ubr2	0.123456	0.562415	0.2619	0.385385	no
Srfbp1	0.123417	0.300946	0.6028	0.715582	no
Elp5	0.123261	0.460638	0.4226	0.554015	no
Gkap1	0.123189	0.318644	0.5754	0.692788	no
Kcnj11	0.12301	0.309374	0.52575	0.649695	no
Abcc1	0.122863	0.440643	0.38775	0.519152	no
Slc26a11	0.122837	0.278055	0.59855	0.712381	no
Mrpl37	0.122809	0.512642	0.3738	0.505371	no
Crtc2	0.122719	0.470278	0.388	0.51933	no
Orc4	0.122718	0.290734	0.5594	0.679132	no
Tmem35	0.122577	0.568045	0.3082	0.437314	no
Camsap2	0.122275	0.590291	0.24445	0.366454	no
Litaf	0.122271	0.447383	0.4094	0.541257	no
Zkscan3	0.122171	0.345446	0.488	0.615661	no
Trim35	0.12213	0.571626	0.24915	0.371652	no

Slc8a2	0.122113	0.2764	0.5917	0.706451	no
Usp31	0.122105	0.583473	0.24255	0.364223	no
0610011F06Rik	0.122103	0.395935	0.5492	0.670368	no
Fam195b	0.121967	0.575608	0.3316	0.462553	no
Ddx51	0.121965	0.352891	0.4942	0.621474	no
Fance	0.121825	0.270912	0.58555	0.701184	no
Hint2	0.121746	0.465965	0.5439	0.666044	no
Mbd4	0.121736	0.246739	0.6322	0.739564	no
Eif2ak1	0.121598	0.501276	0.3498	0.482111	no
Ttc27	0.121467	0.432529	0.41755	0.549295	no
Capn7	0.121349	0.549283	0.29315	0.420684	no
Cav2	0.121292	0.517199	0.2908	0.417944	no
Abcb1a	0.12113	0.469542	0.36755	0.499006	no
Stk17b	0.121111	0.256043	0.6264	0.734723	no
9130221H12Rik	0.121099	0.100392	0.8407	0.898033	no
Arhgef15	0.12097	0.299866	0.5654	0.683974	no
Rabggta	0.120801	0.454093	0.3995	0.531345	no
Dgke	0.120678	0.520666	0.31065	0.440297	no
Ubp2	0.120613	0.582886	0.254	0.376726	no
Smc6	0.120539	0.475802	0.33305	0.464233	no
Pias1	0.120493	0.471166	0.37535	0.506847	no
Exosc10	0.120315	0.424158	0.4199	0.551511	no
Gon4l	0.120254	0.328703	0.52525	0.64944	no
Edn1	0.120133	0.166537	0.761	0.84295	no
Gng10	0.120123	0.427296	0.47645	0.605408	no
Ercc2	0.12009	0.392951	0.4576	0.587419	no
Cmip	0.120043	0.55381	0.26355	0.387555	no
Sgta	0.119889	0.53351	0.3326	0.463752	no
Psmb4	0.119874	0.705103	0.2598	0.38323	no
Zfp362	0.119805	0.369373	0.4858	0.613937	no
Zbtb3	0.119755	0.176173	0.71675	0.809425	no
Bcr	0.119717	0.56576	0.27135	0.396258	no
Cwc25	0.119622	0.438319	0.4042	0.53577	no
BC018242	0.119589	0.46349	0.35585	0.487663	no
Ube2q1	0.119494	0.547997	0.30165	0.429906	no
Htra2	0.119341	0.377679	0.4479	0.578607	no
Cyth2	0.119268	0.463099	0.34655	0.478545	no
Mea1	0.119267	0.336738	0.58455	0.700373	no
Epb4.1l4a	0.119252	0.325602	0.5306	0.654288	no
Klc1	0.119211	0.475578	0.3751	0.506767	no
Bsdc1	0.119093	0.512712	0.33815	0.469714	no
B4galt3	0.119028	0.445822	0.4177	0.549383	no
Ccser1	0.118998	0.24757	0.62225	0.731077	no
Rbfox2	0.118984	0.549214	0.2657	0.390025	no
Ddb1	0.118813	0.579556	0.2618	0.38528	no
Prkg1	0.118812	0.509721	0.32475	0.455584	no
Dynlrb1	0.118774	0.537876	0.2755	0.400774	no
Intu	0.118677	0.229162	0.65255	0.756103	no
Atp5sl	0.118628	0.345054	0.4948	0.621875	no
Tppp	0.118507	0.45532	0.3792	0.510746	no
Ube2z	0.118501	0.582982	0.25585	0.37875	no
Eno1,Eno1b	0.118411	0.0439834	0.93555	0.960082	no
Alkbh2	0.118275	0.196545	0.7508	0.835082	no

Sf3a3	0.118186	0.376514	0.4516	0.581857	no
Fam96b	0.11817	0.43989	0.5399	0.662246	no
Cep250	0.118012	0.492741	0.31925	0.449198	no
Polr3b	0.118001	0.492485	0.34525	0.477427	no
Chd8	0.117945	0.528334	0.2809	0.406873	no
Dzip3	0.117768	0.479664	0.33415	0.465327	no
Extl3	0.117715	0.573216	0.26505	0.389372	no
Arid2	0.11771	0.446288	0.38145	0.512631	no
Srgap1	0.117538	0.526253	0.28565	0.411881	no
C330018D20Rik	0.117409	0.2607	0.6347	0.74135	no
2810428I15Rik	0.117276	0.582625	0.41525	0.547257	no
Lingo1	0.117214	0.535856	0.31595	0.445832	no
Baz1b	0.117211	0.511289	0.3174	0.447212	no
Fam208a	0.117158	0.391295	0.4404	0.571981	no
Rabgap1	0.117041	0.551051	0.2858	0.412008	no
Asxl2	0.11696	0.414338	0.4022	0.533812	no
Rab5a	0.11694	0.554819	0.283	0.408771	no
Hsf2bp	0.116827	0	1	1	no
Gpatch2	0.116653	0.357202	0.49035	0.617804	no
Sbf1	0.116545	0.54167	0.2776	0.403122	no
Spred2	0.116536	0.531107	0.3231	0.453749	no
Hemk1	0.116451	0.238414	0.6688	0.769155	no
Adh5	0.11645	0.476398	0.3375	0.469056	no
Gm5148	0.116348	0	1	1	no
Wdr43	0.116307	0.378176	0.4431	0.574475	no
Fiz1	0.116012	0.310178	0.5295	0.653295	no
Grina	0.116008	0.531346	0.28385	0.409642	no
Cdk13	0.115988	0.441849	0.37615	0.507633	no
Tmod3	0.115953	0.451864	0.3869	0.518447	no
Elf2	0.115937	0.381602	0.44555	0.576919	no
Ptges3	0.115919	0.58755	0.28385	0.409642	no
Zfp871	0.11582	0.544563	0.2833	0.409115	no
Neu1	0.115768	0.46618	0.37355	0.505084	no
Herpud1	0.115766	0.514567	0.35395	0.485862	no
Fam131a	0.115712	0.450562	0.41105	0.542897	no
Ankib1	0.115655	0.503188	0.3134	0.442893	no
Ildr2	0.115653	0.323364	0.52975	0.653481	no
Kremen1	0.115633	0.406165	0.41685	0.548755	no
Hivep2	0.115613	0.528031	0.29655	0.424369	no
Nolc1	0.115589	0.450281	0.35915	0.491424	no
Mttp	0.115543	0.223508	0.6532	0.756584	no
Tmem151a	0.115533	0.56673	0.26845	0.393018	no
Tcp1	0.115442	0.588406	0.2796	0.405538	no
Tubg2	0.115315	0.417434	0.4488	0.579262	no
Anapc10	0.115284	0.28962	0.59255	0.707076	no
Spred3	0.115245	0.339536	0.51485	0.640521	no
Stx5a	0.115174	0.403692	0.41805	0.549625	no
Spata13	0.11502	0.545535	0.2803	0.406359	no
Tsen2	0.11497	0.329165	0.56035	0.680037	no
Tgs1	0.114805	0.410304	0.4292	0.560563	no
Mettl14	0.114725	0.434804	0.4188	0.550339	no
Slc7a14	0.114404	0.54931	0.2711	0.39598	no
Ccl4	0.113868	0	1	1	no

Surf4	0.113831	0.448173	0.37015	0.501561	no
Synm	0.113823	0.499637	0.311	0.440486	no
Cnot8	0.113532	0.450342	0.4198	0.551434	no
Pygo2	0.113468	0.466988	0.3866	0.518269	no
Akip1	0.113407	0.179715	0.71615	0.809092	no
Med30	0.113065	0.398823	0.538	0.660526	no
Mfsd11	0.113059	0.494548	0.3529	0.485073	no
A530072M11Rik	0.113058	0	1	1	no
Areg	0.11301	0	1	1	no
Fam206a	0.112945	0.163522	0.74485	0.830805	no
Nmnat2	0.112853	0.554578	0.2816	0.407636	no
Cacna1s	0.112799	0	1	1	no
Msto1	0.112511	0.297436	0.5489	0.670311	no
Rab7	0.11239	0.560973	0.4467	0.577748	no
Ccng1	0.112364	0.54339	0.2944	0.422158	no
Hnrnp11	0.112341	0.467852	0.3803	0.511812	no
Bcas3	0.112297	0.504446	0.3412	0.473128	no
Parp6	0.112261	0.502482	0.31595	0.445832	no
Tma16	0.112154	0.200727	0.742	0.828769	no
Atxn7l3b	0.112013	0.556878	0.28895	0.415691	no
Ssu72	0.111949	0.539972	0.35805	0.490171	no
Pcdhb17	0.111834	0.0550607	0.91115	0.944718	no
Stub1	0.111741	0.453631	0.35655	0.488471	no
Pex19	0.111666	0.499912	0.31275	0.44221	no
Rtf1	0.111619	0.467517	0.36735	0.498939	no
Vtcn1	0.11153	0	1	1	no
Lamtor5	0.111498	0.487539	0.44505	0.57644	no
Bbs4	0.111422	0.466979	0.38615	0.517951	no
Surf6	0.111393	0.344255	0.52185	0.646622	no
Rhot2	0.11136	0.491957	0.36215	0.494203	no
Nampt	0.111319	0.4634	0.37005	0.501561	no
Cuedc1	0.111269	0.327435	0.54405	0.666166	no
Mapk8	0.111265	0.502648	0.3284	0.459199	no
Zfp763	0.111195	0.326624	0.53355	0.656765	no
Gmpr2	0.111101	0.439888	0.4418	0.573294	no
Pkn2	0.111008	0.409468	0.42565	0.556858	no
Pex1	0.110944	0.256641	0.6053	0.717651	no
Ap2a2	0.110927	0.503658	0.3122	0.441667	no
Psm11	0.110909	0.458107	0.418	0.549625	no
Tmx1	0.110907	0.349156	0.47425	0.603479	no
Cdk10	0.110871	0.330149	0.5058	0.632524	no
Tm7sf2	0.110769	0.416299	0.47325	0.60238	no
Strn3	0.110765	0.460288	0.37985	0.511414	no
Atl1	0.110744	0.477005	0.37225	0.503686	no
Tceanc2	0.110735	0.400397	0.43315	0.564777	no
Zdhhc8	0.110685	0.528275	0.29905	0.427026	no
Papalg	0.110481	0.352303	0.5004	0.627131	no
Zcchc11	0.110282	0.333192	0.51425	0.640255	no
Mrps34	0.110265	0.47251	0.45905	0.58854	no
Gab3	0.110213	0	1	1	no
Zfp930	0.110095	0.312494	0.5617	0.681052	no
Stmn4	0.109834	0.347332	0.5603	0.680037	no
Yme1l1	0.109814	0.529583	0.30565	0.434626	no

Trim43a	0.109683	0	1	1	no
Gal	0.109581	0.382207	0.58445	0.700316	no
D330050I16Rik	0.10946	0	1	1	no
Slc5a6	0.109331	0.0707873	0.8887	0.930795	no
Rae1	0.109318	0.39793	0.47245	0.601708	no
Zfand3	0.109281	0.54728	0.30575	0.434721	no
Zfp51	0.109227	0.21885	0.6823	0.780822	no
Psemb3	0.108957	0.341678	0.6115	0.722929	no
Vps28	0.108892	0.606519	0.34265	0.474425	no
Pskh1	0.108885	0.334074	0.52475	0.649185	no
Ndufb4	0.108822	0.294548	0.7439	0.830387	no
Tesk1	0.108695	0.445639	0.40135	0.532897	no
Zc3h15	0.108615	0.517635	0.3507	0.482799	no
Htr5a	0.108552	0.22714	0.65615	0.758949	no
Alkbh8	0.108496	0.276227	0.61485	0.725408	no
Npm1	0.108208	0.366431	0.4584	0.588048	no
Tekt3	0.108174	0	1	1	no
Atic	0.108122	0.490497	0.3651	0.497002	no
Trappc2l	0.108083	0.525017	0.48025	0.609011	no
Ddr1	0.107852	0.450812	0.36215	0.494203	no
Dhx35	0.107753	0.344923	0.4883	0.615981	no
Guk1	0.107729	0.433686	0.38	0.511564	no
Slc35b4	0.107713	0.477629	0.3699	0.501561	no
Kcnmb2	0.107707	0.22776	0.6731	0.772818	no
C430049B03Rik	0.107702	0	1	1	no
Ppp1r8	0.1077	0.347509	0.4811	0.609798	no
Tcf15	0.107606	0	1	1	no
Tmem87a	0.107557	0.413565	0.44125	0.572693	no
Antxr2	0.107491	0.477759	0.3687	0.50026	no
1700113A16Rik	0.107473	0	1	1	no
Rbbp6	0.107331	0.379388	0.44665	0.577748	no
Csnk1g3	0.107297	0.482852	0.35085	0.482956	no
Olfm1	0.107212	0.425261	0.39565	0.527335	no
Timm8a1	0.107208	0.246319	0.6836	0.781703	no
Lrfn5	0.10712	0.473711	0.36655	0.498464	no
Papd4	0.107059	0.186306	0.73035	0.820176	no
Nupl1	0.107057	0.426852	0.38665	0.518269	no
Ube2h	0.106994	0.480757	0.33015	0.461209	no
Cd109	0.106931	0.255942	0.61455	0.725178	no
Gm12216	0.106929	0	1	1	no
Npepps	0.10691	0.526489	0.31035	0.439942	no
Etv3	0.106851	0.396957	0.42155	0.553076	no
Rplp0	0.106711	0.492288	0.39645	0.528136	no
Chaf1b	0.106711	0.13987	0.8055	0.873925	no
Utp15	0.106702	0.378357	0.46885	0.597984	no
Ccdc86	0.106683	0.229635	0.6445	0.749591	no
Cyb561d1	0.106682	0.375993	0.44195	0.573377	no
Mras	0.106581	0.49384	0.3405	0.472434	no
Dnajc14	0.10655	0.474026	0.36705	0.498701	no
Zfp330	0.106523	0.297626	0.6008	0.713842	no
Hoxa6	0.106521	0.0490577	0.9295	0.956463	no
Psmd7	0.106506	0.551766	0.3266	0.457357	no
Txn1l	0.106493	0.527886	0.32625	0.457012	no

Spast	0.106445	0.43767	0.37975	0.511331	no
Patz1	0.106378	0.106834	0.83675	0.895183	no
Hdac11	0.106264	0.5081	0.3435	0.475403	no
Wdr3	0.106255	0.306661	0.5372	0.660033	no
Pik3ca	0.106234	0.492861	0.3298	0.460817	no
Fam43b	0.106233	0.482422	0.37505	0.506751	no
Rab24	0.106224	0.454888	0.4094	0.541257	no
Agbl5	0.106188	0.122434	0.8227	0.885848	no
Fchsd2	0.106163	0.448552	0.3648	0.4969	no
Psenen	0.1061	0.207459	0.7756	0.85335	no
Fam65a	0.106083	0.443848	0.36395	0.495945	no
Nrbp1	0.106036	0.177428	0.72115	0.813217	no
Rab6a	0.106019	0.456149	0.35945	0.4917	no
Fbxl17	0.105998	0.466442	0.3584	0.490549	no
Prpf31	0.1057	0.405214	0.4091	0.540968	no
Mrpl32	0.105649	0.37781	0.5812	0.697805	no
Btaf1	0.105597	0.406953	0.4257	0.556869	no
Enox2	0.105545	0.334597	0.50145	0.628031	no
Fam221a	0.10543	0.128625	0.79065	0.863622	no
Rnf114	0.105306	0.325864	0.50965	0.635843	no
Cd48	0.105294	0	1	1	no
BC003331	0.105244	0.290267	0.5828	0.69908	no
Scoc	0.105243	0.480997	0.3292	0.460172	no
Ttc12	0.105227	0.25091	0.62895	0.736997	no
Ucp2	0.105108	0.42524	0.40905	0.540956	no
Isoc1	0.105084	0.4683	0.37875	0.510295	no
Pcdh1	0.105068	0.475826	0.36755	0.499006	no
Stx18	0.105037	0.237171	0.6578	0.760062	no
Itgb7	0.104976	0.152346	0.77565	0.85335	no
Mbd3	0.10496	0.436924	0.44935	0.579802	no
Cetn3	0.104936	0.470582	0.44355	0.574947	no
Ss18l1	0.104822	0.324084	0.52455	0.649119	no
Bptf	0.104715	0.478415	0.33785	0.469395	no
Gins3	0.104687	0.255433	0.6391	0.745401	no
Smc1a	0.104609	0.499451	0.34195	0.473653	no
Nap1l5	0.104606	0.383987	0.4362	0.568028	no
Sema4f	0.104539	0.478713	0.3334	0.464575	no
Hspa8	0.10438	0.526836	0.3315	0.462462	no
Eaf1	0.104306	0.477937	0.35825	0.490394	no
Bcl7a	0.104165	0.406342	0.4431	0.574475	no
Naa38	0.104107	0.468977	0.5651	0.6838	no
Akr1e1	0.104056	0.352538	0.52485	0.649248	no
Psmc14	0.104027	0.549019	0.33635	0.467605	no
Snrpb	0.103929	0.49677	0.4186	0.550185	no
Cyb5b	0.10389	0.512641	0.3233	0.453934	no
Aktip	0.103804	0.413358	0.4029	0.534367	no
Alg1	0.103711	0.378901	0.5026	0.629115	no
Slc35c2	0.103703	0.378232	0.4497	0.580085	no
Psmc3	0.103637	0.554512	0.3252	0.455974	no
Mad2l2	0.103609	0.235223	0.6916	0.788337	no
Wac	0.103493	0.440315	0.3886	0.519871	no
Rad23b	0.103469	0.513362	0.3229	0.45366	no
Kansl2	0.10341	0.29149	0.5565	0.676478	no

Gm11545	0.103322	0	1	1	no
Stambp	0.103312	0.416851	0.4465	0.577748	no
Csmd1	0.103298	0.454047	0.3616	0.493707	no
Arg1	0.10292	0	1	1	no
Ep300	0.102873	0.419012	0.40475	0.536338	no
1110059E24Rik	0.102829	0.353167	0.53725	0.660033	no
Fkbp15	0.10278	0.452863	0.38715	0.518611	no
Mapk12	0.10271	0.376812	0.4971	0.623938	no
Aprt	0.102673	0.430538	0.5086	0.634889	no
Ak2	0.102667	0.31438	0.52725	0.651124	no
Haus5	0.102356	0.143471	0.7958	0.867034	no
Tigd3	0.102241	0	1	1	no
Irf2bp1	0.102198	0.368967	0.4891	0.616697	no
Bbs2	0.102191	0.358925	0.49855	0.625403	no
Cog5	0.102186	0.272287	0.61135	0.722822	no
Rfwd3	0.10218	0.327083	0.5182	0.643482	no
Magt1	0.102166	0.422677	0.4007	0.532567	no
Rabep1	0.102141	0.421206	0.41285	0.544786	no
Lemd2	0.102132	0.370677	0.4866	0.614655	no
Ranbp3	0.102117	0.385882	0.43605	0.567888	no
Lamtor2	0.102065	0.560994	0.46405	0.593689	no
Rnaseh2c	0.102019	0.346908	0.6295	0.737381	no
Dock9	0.101971	0.452102	0.3598	0.492009	no
Dclre1c	0.101879	0.237217	0.6555	0.758329	no
2010012005Rik	0.101877	0.353178	0.51585	0.641585	no
Gtf3c5	0.101848	0.338637	0.4934	0.62088	no
Ssbp1	0.10148	0.188977	0.7041	0.799346	no
Cwc15	0.101355	0.475606	0.42435	0.55576	no
Med4	0.101351	0.320492	0.58755	0.702884	no
Akt1	0.101234	0.475608	0.33545	0.466794	no
Rn45s	0.101212	0.364951	0.4734	0.602455	no
Trim15	0.101025	0	1	1	no
Bysl	0.100861	0.2648	0.60085	0.713842	no
Srgap3	0.100853	0.481815	0.3358	0.467085	no
Pcdhga11	0.100834	0.0699362	0.88955	0.93137	no
Gtf2a1	0.100717	0.439459	0.3753	0.506831	no
Uggt1	0.100666	0.46628	0.3502	0.482461	no
Sptlc1	0.100641	0.406818	0.4509	0.58118	no
Man1b1	0.10063	0.484805	0.3567	0.488575	no
Sgip1	0.100545	0.439529	0.3982	0.529988	no
Angel2	0.100321	0.322038	0.5172	0.642781	no
Ehmt1	0.100287	0.324259	0.51975	0.644984	no
Sp3	0.100255	0.397285	0.44375	0.57515	no
Prmt1	0.100111	0.383562	0.43715	0.568874	no
Tmem39b	0.0999612	0.181068	0.71575	0.808777	no
Pnrc2	0.0999397	0.377227	0.4919	0.619345	no
Ube2m	0.099737	0.448078	0.37285	0.504292	no
Wdr31	0.0996558	0.134015	0.7794	0.856481	no
Mfsd6	0.0996328	0.468227	0.3489	0.48112	no
Fbxw8	0.0995486	0.44762	0.3872	0.518625	no
LOC101056043	0.0994559	0.102274	0.83175	0.891992	no
Foxp4	0.0994181	0.253185	0.60705	0.719147	no
Eif2b2	0.0992446	0.399699	0.48165	0.610262	no

Exoc7	0.0990885	0.407628	0.41615	0.547996	no
Lyrn4	0.0990504	0.383027	0.50155	0.628097	no
Ctnnbl1	0.0990212	0.399387	0.4587	0.588262	no
Akt3	0.0989433	0.48568	0.34545	0.477653	no
Syf2	0.0989325	0.410185	0.48225	0.610672	no
Rnf139	0.098874	0.382163	0.4637	0.593355	no
Epn1	0.0988686	0.449958	0.3615	0.493689	no
2500004C02Rik	0.0987252	0.142589	0.7971	0.867935	no
Nsun6	0.0987206	0.236007	0.63595	0.742445	no
Wdr74	0.098663	0.336916	0.5699	0.688352	no
Armc5	0.0985485	0.330763	0.506	0.632655	no
Mrps30	0.0984924	0.362355	0.52065	0.645497	no
Traf4	0.0984669	0.180854	0.7354	0.823685	no
Lrrfip2	0.098462	0.357186	0.4692	0.598258	no
2410004P03Rik	0.0984319	0	1	1	no
Dip2c	0.0983925	0.472767	0.35395	0.485862	no
Txlnb	0.0983557	0	1	1	no
Cul9	0.0982616	0.428448	0.39825	0.530001	no
Pcsk7	0.0982406	0.211923	0.6945	0.790963	no
Med26	0.0980421	0.200598	0.7097	0.803721	no
Pgam5	0.0979831	0.338592	0.49865	0.625469	no
Fam73a	0.0979102	0.459963	0.3533	0.485422	no
Orai1	0.0978972	0.272547	0.6328	0.740005	no
Pcdhga12	0.0977495	0.0456394	0.9321	0.95795	no
Fam203a	0.09765	0.224764	0.6858	0.783611	no
Ptplad1	0.0975616	0.492305	0.35555	0.487453	no
Slc7a3	0.0974572	0.213636	0.69895	0.794667	no
D030056L22Rik	0.0973771	0.321078	0.57265	0.690975	no
Gnb5	0.097324	0.428937	0.38695	0.518447	no
Dnmt3a	0.0972686	0.365728	0.45995	0.58941	no
Ufm1	0.097239	0.435585	0.40905	0.540956	no
Ubxn4	0.0972261	0.457145	0.38405	0.515499	no
Tmem136	0.0970248	0.224423	0.67095	0.770692	no
AI597479	0.0969509	0.374704	0.47785	0.606664	no
Ctif	0.0967072	0.462507	0.35265	0.48488	no
Spef2	0.0962892	0	1	1	no
Zranb1	0.0962736	0.379236	0.49145	0.619013	no
Dstn	0.0962473	0.506066	0.35535	0.48733	no
Slc30a6	0.0961528	0.253797	0.61155	0.722929	no
Drg1	0.0960477	0.220782	0.6993	0.794929	no
Abhd16a	0.0959967	0.461423	0.40395	0.535653	no
Spg11	0.0959692	0.309077	0.53305	0.656332	no
Neto2	0.0959615	0.377716	0.4659	0.595424	no
Hist1h2an	0.0959131	0	1	1	no
Zbtb14	0.0958622	0.309286	0.55325	0.673948	no
Brms1	0.0957121	0.35304	0.5396	0.662062	no
Rnf170	0.0956033	0.339832	0.52145	0.646187	no
Rab35	0.0954112	0.394471	0.4242	0.555619	no
Bcmo1	0.0953927	0	1	1	no
Larp1	0.0952969	0.456407	0.3651	0.497002	no
Memo1	0.0952395	0.409289	0.4712	0.600462	no
Chchd4	0.0951356	0.295918	0.6211	0.730508	no
Polr2k	0.0950569	0.180574	0.80945	0.876777	no

9530082P21Rik	0.0949561	0	1	1	no
Lamtor1	0.0948335	0.346478	0.48695	0.614922	no
Ctbp1	0.0947735	0.444547	0.3721	0.503586	no
L3mbtl2	0.0945204	0.311742	0.54995	0.670914	no
Ppp4c	0.0944744	0.382316	0.51135	0.637542	no
Cct5	0.0940254	0.498068	0.36745	0.499006	no
Gm2061	0.0940182	0	1	1	no
Creb3	0.0939327	0.290944	0.6083	0.720114	no
Odc1	0.093356	0.301779	0.58025	0.697043	no
C1qtnf4	0.093333	0.12918	0.8273	0.889016	no
Trem12	0.0930123	0	1	1	no
Ufl1	0.0930008	0.340387	0.5044	0.631071	no
Tor1a	0.0928613	0.319183	0.5761	0.693379	no
Sema3c	0.0927175	0.352182	0.4957	0.62277	no
Zfp451	0.0925823	0.29334	0.5514	0.672188	no
Cep95	0.0924879	0.145369	0.76935	0.84853	no
4930432K21Rik	0.0924151	0	1	1	no
Minos1	0.0920402	0.38382	0.438	0.569645	no
Ctr9	0.0919104	0.41208	0.43025	0.561658	no
4930539M17Rik	0.0918534	0	1	1	no
Capn15	0.0917184	0.291123	0.58105	0.697754	no
Klhl15	0.0916855	0.194206	0.6928	0.789366	no
Pcsk2os1	0.0916436	0.0446529	0.93455	0.959404	no
Wdr12	0.091623	0.252558	0.6318	0.739227	no
Dmap1	0.0916002	0.292384	0.6106	0.722063	no
Chst8	0.0915144	0.348945	0.5171	0.642717	no
Tnfrsf18	0.0914982	0	1	1	no
Abcf1	0.0914924	0.391282	0.4268	0.558032	no
Actr2	0.0913995	0.444154	0.39555	0.527254	no
Wdr5b	0.0912803	0.147457	0.7898	0.863049	no
Zfp784	0.0912718	0.14694	0.7886	0.862235	no
Pls3	0.0910422	0.428053	0.39145	0.522998	no
Ttc26	0.091014	0.195254	0.70785	0.802448	no
Mnat1	0.0909922	0.33169	0.54585	0.667507	no
Polr3gl	0.0909374	0.258079	0.6595	0.761545	no
2210013021Rik	0.0908634	0.451245	0.49105	0.618568	no
Tdrkh	0.0908026	0.365144	0.50165	0.628163	no
Dhx32	0.0907937	0.282533	0.59915	0.712716	no
Zswim1	0.0907671	0.293758	0.5787	0.695751	no
Dnaja1	0.09074	0.374935	0.47235	0.601639	no
Il1r1	0.0906598	0	1	1	no
Psmc6	0.0906485	0.466699	0.42915	0.560553	no
Ptges2	0.0906433	0.326808	0.549	0.670368	no
Klf17	0.0906145	0	1	1	no
Dhcr7	0.0905319	0.44159	0.4058	0.537622	no
AI987944	0.0905181	0.208645	0.6724	0.772291	no
Gm5089	0.0903844	0	1	1	no
Anks3	0.0903213	0.292433	0.58465	0.700429	no
Tnik	0.0902867	0.381446	0.44455	0.575961	no
Insrr	0.090267	0.156885	0.76195	0.843665	no
Zfand1	0.0902401	0.216633	0.6977	0.793518	no
Ppp3r2	0.0902236	0	1	1	no
Ndufv1	0.0902138	0.474118	0.4013	0.532897	no

Bclaf1	0.0901615	0.401104	0.42015	0.551621	no
Atad3a	0.0897887	0.263255	0.62985	0.737726	no
Prkci	0.0895348	0.379406	0.4373	0.568957	no
Ube2i	0.0895265	0.379659	0.482	0.610472	no
Rrp1	0.0893712	0.416461	0.40125	0.532897	no
1700102P08Rik	0.0893019	0	1	1	no
Abcc4	0.0891281	0.330941	0.5131	0.639183	no
Spryd7	0.0891079	0.424368	0.4573	0.587148	no
Arpp19	0.0889481	0.404631	0.4146	0.546606	no
Tmem253	0.0888587	0	1	1	no
Ercc1	0.0888547	0.236017	0.6955	0.791854	no
Ube2q2	0.0888166	0.407979	0.44985	0.580222	no
Zfp62	0.0887869	0.292905	0.56245	0.68165	no
Mlst8	0.0887307	0.337274	0.4899	0.617295	no
Nop2	0.0886794	0.295987	0.58025	0.697043	no
Anapc7	0.0886478	0.36139	0.4944	0.621667	no
Ucn	0.0886003	0	1	1	no
Fam114a2	0.0885379	0.36931	0.46055	0.58995	no
Piezo1	0.088485	0.157275	0.74775	0.832667	no
BC061194	0.0882383	0	1	1	no
Otud3	0.0880282	0.20767	0.71575	0.808777	no
Kmt2d	0.0879352	0.39479	0.42775	0.559109	no
4930404N11Rik	0.087845	0	1	1	no
Pef1	0.0875599	0.443198	0.4367	0.568511	no
Il27ra	0.0875457	0	1	1	no
Bola2	0.0874632	0.531327	0.6571	0.759625	no
Jade2	0.0874527	0.348376	0.4959	0.622962	no
Eif3d	0.087398	0.418755	0.4531	0.58311	no
Mob4	0.0873793	0.422019	0.42835	0.559838	no
Sumo1	0.0871209	0.370593	0.5307	0.654288	no
Pgd	0.0869764	0.415477	0.44825	0.578777	no
Scg5	0.0869147	0.428111	0.4731	0.602305	no
Gm5434	0.0869015	0	1	1	no
Wdr75	0.0868881	0.337422	0.52835	0.652058	no
Pblid2	0.0868559	0.16394	0.7638	0.845008	no
Tnfaip1	0.0868261	0.36407	0.4663	0.59582	no
Foxj3	0.0867133	0.354534	0.48765	0.615513	no
Gm11127	0.0866749	0	1	1	no
Vps29	0.0865949	0.465891	0.46125	0.590676	no
Hr	0.086558	0.3177	0.5333	0.656518	no
Hsf4	0.0864978	0.302625	0.5436	0.6658	no
Arhgap12	0.0862633	0.379363	0.44515	0.576514	no
Zdhhc9	0.0860107	0.404366	0.4472	0.577927	no
Gtf2e2	0.0860087	0.27826	0.62935	0.737335	no
Plekhm3	0.0859654	0.411849	0.4171	0.54892	no
Ndufaf6	0.0859615	0.20067	0.7433	0.830011	no
Slc35a3	0.0859614	0.348471	0.50205	0.628605	no
Galnt10	0.085671	0.323943	0.5327	0.656023	no
Prdm2	0.0855259	0.380615	0.447	0.577846	no
Nol7	0.0854645	0.198866	0.7237	0.815192	no
Snx25	0.0854432	0.36903	0.47775	0.606653	no
Akap11	0.085402	0.403117	0.42765	0.559089	no
Timm9	0.0853951	0.217139	0.6551	0.758131	no

Psmg3	0.0853711	0.28607	0.66665	0.767414	no
Pum1	0.0852437	0.362972	0.468	0.597302	no
Smarce1	0.0852261	0.267029	0.6146	0.725178	no
Hnrnpc	0.0851773	0.384388	0.4388	0.570294	no
Sfr1	0.0851186	0.425062	0.4542	0.584185	no
Rps14	0.0849622	0.453828	0.5388	0.661202	no
Ube2d3	0.0849413	0.432068	0.41785	0.549526	no
Gm16287	0.0849136	0	1	1	no
Ybx1	0.0849001	0.35464	0.5146	0.64045	no
Ccnd3	0.0848865	0.170772	0.7631	0.844586	no
Emc9	0.0848737	0.263932	0.59325	0.707601	no
Nrip1	0.0847976	0.333482	0.52815	0.651871	no
Trip12	0.0847937	0.407437	0.4141	0.546164	no
Hmgb1	0.0845464	0.30386	0.57405	0.691979	no
Mettl23	0.0845377	0.184743	0.76555	0.846408	no
Olf917	0.0843045	0	1	1	no
Larp4	0.0843009	0.371116	0.4564	0.586276	no
Zfp777	0.0841491	0.27229	0.60005	0.713403	no
Tnpo2	0.0841369	0.395146	0.4497	0.580085	no
Sec23b	0.0840685	0.350892	0.4815	0.610188	no
Supt3	0.0840027	0.250428	0.6128	0.72395	no
Tigit	0.0839814	0	1	1	no
C130050O18Rik	0.0838904	0	1	1	no
Fbxo38	0.0837643	0.343138	0.50395	0.630567	no
Thap6	0.0837199	0.0957852	0.84175	0.898774	no
Reep2	0.0836129	0.39159	0.42905	0.560477	no
1600002H07Rik	0.0835028	0.193292	0.72775	0.818212	no
Smim7	0.0834398	0.393905	0.4586	0.588191	no
Rad9b	0.0833441	0	1	1	no
Nprl2	0.083335	0.29586	0.60375	0.71639	no
Frs2	0.0832199	0.331629	0.5175	0.642913	no
Dirc2	0.0831296	0.384612	0.45315	0.583117	no
Hist1h2bg	0.0830399	0.149757	0.86575	0.915722	no
Ccdc159	0.0829621	0.113141	0.81855	0.883334	no
Olf1167	0.0828953	0	1	1	no
Surf1	0.0828011	0.207842	0.73105	0.820462	no
Ckmt2	0.0826842	0	1	1	no
Sec24a	0.0826078	0.291269	0.56255	0.681709	no
Rab3gap2	0.0826038	0.309572	0.54475	0.666716	no
Fchsd1	0.0824645	0.166692	0.7363	0.824345	no
Nudt11	0.0822874	0.29913	0.5793	0.696157	no
Hmgxb3	0.0822729	0.317665	0.5241	0.648806	no
Hsph1	0.082253	0.40742	0.4322	0.563759	no
Rcan2	0.0821471	0.379578	0.44405	0.575426	no
Ahsa1	0.0821399	0.442427	0.4518	0.582001	no
Tinagl1	0.0821343	0.206163	0.67445	0.774042	no
Pdzd11	0.0821147	0.371542	0.54925	0.670368	no
Slc9a7	0.0820807	0.302845	0.5751	0.692736	no
Psma2	0.0820505	0.450066	0.47485	0.604011	no
H2-Ke6	0.0819626	0.252187	0.68455	0.78252	no
Rusc1	0.0818746	0.36263	0.4668	0.596229	no
Slc34a2	0.0815604	0	1	1	no
Zbtb22	0.0815021	0.315374	0.55685	0.67678	no

Lonp2	0.0814723	0.353248	0.48315	0.611578	no
Map2k2	0.0813369	0.372176	0.4938	0.621148	no
Optn	0.0812341	0.346566	0.5146	0.64045	no
Arid1b	0.0811981	0.358901	0.47745	0.606504	no
Dnmbp	0.081027	0.222505	0.66725	0.767905	no
Prkacb	0.0809341	0.374531	0.4513	0.581583	no
Slu7	0.0808701	0.330685	0.50525	0.631955	no
BC005624	0.0808574	0.331331	0.57475	0.692506	no
Arhgap9	0.0808554	0	1	1	no
Tmem130	0.0806797	0.405059	0.45205	0.58221	no
Ccl2	0.0806622	0.119579	0.8573	0.910487	no
Zfp39	0.0806462	0.14463	0.78415	0.859407	no
Fbxo42	0.0806147	0.340086	0.51325	0.63919	no
BC068281	0.0805607	0.169397	0.7311	0.820462	no
Dusp28	0.080546	0.224215	0.6914	0.788177	no
Cdc42bpa	0.0805426	0.373747	0.4637	0.593355	no
Skiv2l2	0.0804968	0.294142	0.55115	0.671945	no
Anapc2	0.0804878	0.397354	0.4529	0.582909	no
Gmeb2	0.0804708	0.241192	0.6375	0.743862	no
Klhl26	0.0804045	0.30564	0.53155	0.655154	no
EU599041	0.0804043	0	1	1	no
Fsd1	0.080296	0.347416	0.52625	0.65001	no
Pvr	0.0802168	0.226582	0.6697	0.769895	no
Ticam1	0.0801118	0.182987	0.73505	0.823432	no
Sox17	0.080111	0.159549	0.7508	0.835082	no
Gpx3	0.0800991	0.362263	0.5275	0.651372	no
Pigc	0.0800707	0.247222	0.62205	0.731042	no
Plxna4os1	0.0800459	0	1	1	no
Tbc1d8	0.0799743	0.25079	0.61535	0.725863	no
Blcap	0.0799691	0.320871	0.561	0.680452	no
Dync2li1	0.0799543	0.248864	0.67675	0.775876	no
Sfxn3	0.0799055	0.36401	0.46935	0.598392	no
Slc5a4b	0.0796815	0	1	1	no
Ubxn8	0.0796424	0.144385	0.77275	0.851077	no
Trim47	0.0792516	0.134507	0.79345	0.865042	no
Fastk	0.0792361	0.352496	0.52775	0.65156	no
Polrmt	0.0792347	0.0244508	0.9638	0.977953	no
Nsmce4a	0.0790378	0.29993	0.5964	0.7104	no
Lrit2	0.0789801	0	1	1	no
Fstl3	0.0788729	0.0139232	0.98055	0.988498	no
Lad1	0.0788225	0	1	1	no
Eif4a2	0.0787848	0.378936	0.47945	0.608229	no
Btbd2	0.0787353	0.382917	0.46625	0.595814	no
Papola	0.0785912	0.363085	0.4871	0.614994	no
Lin28a	0.0785358	0	1	1	no
Mettl10	0.0784178	0.206887	0.7267	0.81753	no
Ch25h	0.0783956	0.111269	0.85335	0.907745	no
Khynyn	0.0783523	0.277261	0.59255	0.707076	no
Cluap1	0.078327	0.243375	0.6672	0.767905	no
Hmga2	0.0782489	0	1	1	no
Anapc4	0.0782225	0.375316	0.4798	0.608615	no
Pogz	0.078124	0.298271	0.5516	0.67237	no
Rpl7l1	0.078005	0.307512	0.5726	0.690975	no

Itpa	0.0779631	0.272748	0.65655	0.759147	no
Wwp2	0.0779574	0.325193	0.51435	0.640319	no
Sco2	0.0779527	0.104444	0.83725	0.895357	no
Zfp839	0.0778131	0.166607	0.73855	0.825958	no
B4galt2	0.0777228	0.227981	0.6409	0.746779	no
Smek2	0.0776624	0.309561	0.54565	0.667325	no
Gm8221	0.0775507	0	1	1	no
Zbtb11	0.0775218	0.302267	0.53835	0.660895	no
Pcdhb12	0.0774459	0.0217609	0.9658	0.97926	no
Rhoa	0.0774248	0.401224	0.4618	0.591323	no
Zfp937	0.077409	0.181635	0.7174	0.810021	no
Tbc1d20	0.0773796	0.28256	0.60675	0.718856	no
Cyhr1	0.0773431	0.300272	0.54965	0.670671	no
Casp8ap2	0.0773269	0.218171	0.6622	0.763948	no
Zfp786	0.077242	0	1	1	no
Usp25	0.0771463	0.359798	0.48345	0.611841	no
Nup50	0.0771128	0.325187	0.53	0.653729	no
Apex1	0.0770398	0.171512	0.7707	0.849509	no
Maea	0.0768455	0.387478	0.4771	0.606118	no
Wdr83	0.0768264	0.152023	0.7606	0.842803	no
Lhcgr	0.0767922	0.126124	0.8185	0.883334	no
Wdr61	0.0767494	0.241268	0.63465	0.74135	no
Ccnk	0.0767477	0.245196	0.64625	0.751099	no
Paip1	0.0766263	0.325872	0.5148	0.640519	no
Socs4	0.0765632	0.229906	0.6766	0.775876	no
Asb3	0.0765116	0.184378	0.7243	0.815426	no
Slc39a3	0.0765102	0.337018	0.52535	0.649443	no
Ncf2	0.0764964	0	1	1	no
Bdh1	0.0764125	0.258116	0.6005	0.713618	no
Mxd4	0.0763283	0.280316	0.63625	0.742723	no
Sdhaf1	0.0762187	0.196147	0.7514	0.8354	no
I830012O16Rik	0.0761097	0.170034	0.7526	0.836313	no
Gins2	0.0759707	0.0546969	0.9139	0.946504	no
Thap11	0.0759543	0.230617	0.67615	0.775524	no
Acsl1	0.0759468	0.328245	0.53255	0.656021	no
Mdc1	0.0758966	0.256757	0.6123	0.723493	no
Gcc1	0.0758424	0.282391	0.59255	0.707076	no
Iqcb1	0.0758269	0.217161	0.6547	0.7578	no
Dtnbp1	0.0757406	0.297065	0.6158	0.726066	no
2810403A07Rik	0.075548	0.266189	0.6214	0.730714	no
Cchr1	0.0754782	0	1	1	no
Prrc2a	0.0754223	0.353631	0.48395	0.612357	no
Fancg	0.0754099	0.200706	0.692	0.788658	no
Ccdc178	0.0753946	0	1	1	no
Dmtf1	0.0753375	0.271617	0.58115	0.697805	no
Trappc4	0.0752026	0.388321	0.52455	0.649119	no
Rnf123	0.0751343	0.23787	0.64985	0.753765	no
Angel1	0.0750679	0.355481	0.49255	0.619987	no
Serpinb8	0.0750011	0.190291	0.70075	0.796236	no
Gemin6	0.0749876	0.125995	0.82945	0.890386	no
Fbxl20	0.0748994	0.34321	0.4937	0.621081	no
Ebf4	0.074868	0.199912	0.7091	0.803384	no
Zpr1	0.074709	0.294808	0.577	0.69421	no

Usp36	0.0746004	0.248636	0.63035	0.737986	no
Stag2	0.0744312	0.321668	0.5144	0.640321	no
Krr1	0.0743713	0.246204	0.6315	0.738941	no
Nipa2	0.0743666	0.196202	0.69015	0.78709	no
Fbxo25	0.074327	0.326348	0.54915	0.670368	no
Milt1	0.0742433	0.253849	0.62945	0.737381	no
Clic3	0.0741122	0	1	1	no
Tmem170b	0.0741108	0.266737	0.5962	0.710226	no
Zfp708	0.0740776	0.115856	0.82545	0.887675	no
Ypel4	0.0740689	0.219691	0.74135	0.828238	no
Mterfd1	0.0739993	0.11512	0.8429	0.899422	no
Pias4	0.0739641	0.263106	0.6411	0.74688	no
Mmd	0.0739491	0.252773	0.6261	0.734436	no
Nsd1	0.0739079	0.350273	0.4847	0.613014	no
Fmr1	0.0738989	0.312713	0.53275	0.656023	no
Ccdc22	0.0738936	0.162728	0.74665	0.832001	no
Zfp260	0.0738311	0.32737	0.5301	0.653792	no
Ocln	0.0738275	0.115357	0.8304	0.890832	no
Ccdc114	0.0737792	0	1	1	no
Atp6v0c	0.0737503	0.293435	0.54955	0.670611	no
Cry2	0.0735499	0.336743	0.50765	0.63418	no
Tgds	0.0735447	0.132818	0.8113	0.877795	no
Tssk1	0.0733609	0	1	1	no
Upf2	0.0732909	0.269025	0.6006	0.713673	no
Eif4h	0.0731987	0.373428	0.48585	0.613942	no
Naa60	0.07311	0.308034	0.5327	0.656023	no
Nfe2l1	0.0730987	0.309783	0.5346	0.65763	no
Zfp11	0.0730014	0.19027	0.70595	0.800841	no
Zfp407	0.0727973	0.241994	0.6363	0.742723	no
Pla2g4c	0.0727824	0	1	1	no
Mamdc4	0.0727504	0	1	1	no
Pianp	0.072581	0.220818	0.65645	0.759147	no
1200014J11Rik	0.0725215	0.260508	0.61295	0.723998	no
Fam204a	0.0722339	0.238146	0.6596	0.761545	no
Dsn1	0.072154	0.109542	0.84205	0.898896	no
Zfp507	0.072107	0.251423	0.6123	0.723493	no
Zc3h12c	0.0721067	0.205787	0.683	0.781287	no
Gart	0.0720521	0.301949	0.5642	0.683022	no
Letm1	0.0720385	0.335835	0.52495	0.649311	no
Gatsl2	0.0719884	0.304128	0.559	0.678709	no
Copb1	0.0719866	0.339652	0.5221	0.646811	no
Rnf181	0.0719748	0.297302	0.5479	0.669398	no
Taf9	0.0718371	0.260162	0.6004	0.713563	no
Hyou1	0.071764	0.338612	0.5159	0.641587	no
Mars	0.071757	0.232986	0.6349	0.74135	no
Zcchc4	0.071548	0.16277	0.76495	0.845927	no
Med12	0.0715015	0.269202	0.60305	0.715815	no
4933426M11Rik	0.0714838	0.334289	0.4971	0.623938	no
Fopnl	0.07147	0.306955	0.5951	0.709234	no
Tfb1m	0.0712202	0.157304	0.76855	0.847859	no
Rab8a	0.0712191	0.280242	0.6099	0.721557	no
Vps9d1	0.0711959	0.231898	0.64315	0.748611	no
2810429I04Rik	0.0711138	0	1	1	no

Gne	0.070968	0.278249	0.5803	0.697043	no
Gabra1	0.0709089	0.326408	0.52415	0.648806	no
Map3k8	0.0708313	0	1	1	no
CcpG1	0.0707887	0.348165	0.50605	0.632658	no
Zbed6	0.0707534	0.135446	0.7848	0.85978	no
Nfx1	0.0707173	0.282337	0.57065	0.689196	no
Mien1	0.0706545	0.270595	0.5807	0.697397	no
Tmed5	0.0705429	0.281025	0.5994	0.71295	no
Ccdc93	0.0705108	0.272411	0.5794	0.696214	no
Rhou	0.0704852	0.313535	0.55095	0.671825	no
Klhl1	0.0703724	0	1	1	no
Exosc8	0.0702919	0.136804	0.7824	0.858356	no
Mrpl19	0.070281	0.247646	0.6247	0.733118	no
Gsto1	0.0702257	0.287943	0.62285	0.731658	no
2210018M11Rik	0.0702157	0.220252	0.66665	0.767414	no
Orc3	0.0701095	0.181364	0.72035	0.812591	no
Fam213a	0.0700551	0.314325	0.5807	0.697397	no
Timm44	0.0700345	0.258864	0.6433	0.748713	no
Stx12	0.0697947	0.357214	0.51315	0.639185	no
Ecd	0.0697107	0.293639	0.58135	0.697862	no
Alpk1	0.069701	0.157936	0.76095	0.84295	no
Mon1b	0.0695617	0.274353	0.5767	0.693973	no
Med9	0.0694688	0.290501	0.5876	0.702884	no
Jmjd4	0.0694103	0.23939	0.63455	0.74135	no
Cnot11	0.0690385	0.254333	0.631	0.738538	no
Ybey	0.0688913	0.0694086	0.89405	0.934481	no
Kptn	0.0687612	0.175812	0.7514	0.8354	no
Gm6682	0.0686913	0.330242	0.5724	0.690806	no
Miip	0.0685913	0.136035	0.8095	0.876777	no
Camsap1	0.068478	0.305084	0.53785	0.660464	no
Trim41	0.0684012	0.267187	0.61205	0.723391	no
Strip2	0.0680487	0.210876	0.6778	0.776745	no
AU019823	0.0679722	0.107529	0.8397	0.897254	no
Tmem183a	0.067954	0.298992	0.5492	0.670368	no
Wdr60	0.067938	0.168756	0.7481	0.832917	no
Zfp759	0.0679045	0.137689	0.79295	0.864907	no
Ddx60	0.0677371	0.128241	0.80125	0.870542	no
Adamts15	0.0677084	0.236623	0.6423	0.748081	no
Rgp1	0.0676625	0.184044	0.71485	0.808036	no
Fam175b	0.067541	0.282808	0.5962	0.710226	no
Zfp790	0.0675267	0.20777	0.67465	0.774128	no
Map4k1	0.0674508	0	1	1	no
Ing4	0.0672379	0.233963	0.68075	0.779587	no
1300002E11Rik	0.0669337	0.076072	0.87375	0.922052	no
Aimp2	0.066903	0.135085	0.78885	0.862437	no
Ncoa6	0.0669013	0.265024	0.59035	0.705347	no
Lrp10	0.0666047	0.329653	0.5319	0.655402	no
Cln5	0.0665687	0.269413	0.6244	0.732954	no
Commd10	0.06654	0.221976	0.6977	0.793518	no
Smyd5	0.0665346	0.261801	0.62495	0.733281	no
Ccdc104	0.0662649	0.321685	0.57475	0.692506	no
Ppil3	0.0662341	0.188	0.70875	0.803056	no
Arf5	0.0662339	0.365417	0.5623	0.68165	no

Ube2w	0.0662228	0.269029	0.59405	0.70811	no
Gemin8	0.0661854	0.113398	0.84005	0.897555	no
Dhx57	0.0661587	0.298508	0.57505	0.692736	no
Dync1li2	0.0661508	0.309377	0.559	0.678709	no
Cmtm4	0.0660444	0.296964	0.56235	0.68165	no
Zcchc10	0.0658073	0.167822	0.7746	0.852619	no
Lars	0.0657509	0.301091	0.56115	0.680572	no
Dynlt3	0.0656908	0.33482	0.5354	0.658309	no
Zfp873	0.0656655	0.0974574	0.8564	0.909948	no
Heatr2	0.0654474	0.168822	0.74695	0.832126	no
Gsk3a	0.0652809	0.31476	0.56085	0.680333	no
Tomm6	0.0652606	0.328084	0.60475	0.717255	no
Poglut1	0.0652333	0.30196	0.57225	0.690688	no
Hars2	0.0651916	0.210992	0.6891	0.786163	no
Hbs1l	0.0651601	0.285868	0.5825	0.698863	no
Khsrp	0.0651432	0.289857	0.5827	0.69904	no
2700046G09Rik	0.0650461	0	1	1	no
Trim24	0.0649957	0.228849	0.64665	0.751367	no
Ndor1	0.0649493	0.207866	0.67745	0.776468	no
Hcfc1	0.0648655	0.307184	0.5433	0.665494	no
A430033K04Rik	0.0647647	0.124244	0.81705	0.882217	no
1810022K09Rik	0.0645773	0.0665492	0.8938	0.934366	no
6030458C11Rik	0.0644522	0.250661	0.61045	0.72201	no
Chmp1a	0.0644289	0.315199	0.5661	0.684635	no
Gm14057	0.0643763	0.0452405	0.9318	0.95779	no
Ndufa2	0.0643141	0.210021	0.67375	0.773306	no
1110058L19Rik	0.0642004	0.251933	0.7221	0.813804	no
Kbtbd11	0.0641732	0.303043	0.54975	0.670731	no
Astn1	0.0640722	0.296632	0.55275	0.673463	no
Arih2	0.0640398	0.241205	0.64805	0.752335	no
Chordc1	0.0640139	0.300872	0.582	0.698453	no
Reep1	0.0634149	0.286844	0.5838	0.699853	no
Shfm1	0.0633666	0.421891	0.61555	0.725911	no
Hnrnpa0	0.0633483	0.314103	0.5554	0.675389	no
Lin7a	0.0633318	0.265651	0.58485	0.700542	no
Fbxo46	0.0632611	0.129588	0.8142	0.879999	no
Msl2	0.0632267	0.251834	0.6248	0.73317	no
Zfp960	0.063007	0.0838727	0.8586	0.911211	no
Asns	0.0629071	0.324652	0.5559	0.675935	no
Polr2j	0.0627675	0.262709	0.72525	0.816245	no
B020018J22Rik	0.062646	0	1	1	no
A230072E10Rik	0.0625845	0	1	1	no
Dusp7	0.062512	0.207049	0.6946	0.791009	no
Kctd20	0.0622795	0.276018	0.61005	0.721606	no
Sirt5	0.0622669	0.148931	0.79955	0.869407	no
Cap1	0.0622015	0.318528	0.55475	0.675029	no
Uba6	0.0621616	0.282384	0.58165	0.698159	no
Terf2ip	0.062123	0.259757	0.6165	0.726504	no
Tollip	0.0620969	0.30853	0.55215	0.672855	no
Clip1	0.0620615	0.259844	0.6002	0.713453	no
Khdrbs1	0.062048	0.279422	0.57195	0.690389	no
Uqcr11	0.0619547	0.320144	0.72285	0.814373	no
Syvn1	0.0618907	0.225788	0.67085	0.770644	no

St8sia3	0.0618057	0.286882	0.5576	0.677567	no
Dak	0.0617818	0.16989	0.76185	0.843624	no
Larp4b	0.0617483	0.292471	0.5669	0.685353	no
Aptx	0.0617234	0.231411	0.6431	0.748611	no
Gars	0.06164	0.315133	0.5553	0.675329	no
Mlxip	0.0616245	0.244319	0.6175	0.727306	no
Lcmt1	0.0615721	0.272792	0.63925	0.745503	no
Nmrk1	0.0615397	0.142845	0.7993	0.869332	no
Cct7	0.061492	0.285726	0.5648	0.683624	no
Ipo7	0.0614134	0.271306	0.58435	0.700259	no
Tmub2	0.0613988	0.154208	0.7824	0.858356	no
Ptpra	0.06139	0.284917	0.56285	0.681886	no
Rab11fip2	0.0613895	0.252954	0.6058	0.717987	no
Map3k7	0.0613874	0.247686	0.6166	0.726504	no
Samd4b	0.061319	0.267532	0.6095	0.721213	no
Nsun5	0.0612976	0.094702	0.8615	0.912788	no
Dcaf7	0.0612375	0.297642	0.5561	0.676054	no
Tada2a	0.0610908	0.178002	0.74395	0.830387	no
Gabarapl2	0.0610079	0.286748	0.6459	0.750875	no
Naa30	0.0609691	0.256965	0.622	0.731042	no
Hoxc6	0.0608453	0.126318	0.82	0.884395	no
Ift20	0.0606141	0.26011	0.689	0.786117	no
Bub3	0.0605614	0.280952	0.61795	0.727771	no
Gaa	0.0604959	0.283961	0.5624	0.68165	no
Gnptg	0.0604765	0.163468	0.7447	0.830805	no
Ing2	0.0603781	0.140068	0.7952	0.866523	no
Otud6b	0.0603009	0.276154	0.60095	0.713897	no
Mid1ip1	0.0602891	0.28139	0.5735	0.691565	no
Hist2h3c1,Hist2h3c	0.0602813	0	1	1	no
Tnnt1	0.0601887	0	1	1	no
Foxk2	0.0600246	0.264344	0.6131	0.724052	no
Pop7	0.0599705	0.18576	0.7842	0.859407	no
Sfmbt1	0.0599357	0.225731	0.6529	0.756311	no
Zbtb45	0.0598182	0.17222	0.7547	0.838436	no
Mprp	0.0595732	0.280043	0.57675	0.693973	no
Zscan22	0.0594629	0.118169	0.81195	0.878283	no
Ankrd13c	0.0594473	0.240392	0.65345	0.756683	no
Mat2a	0.0594103	0.290162	0.5906	0.705519	no
Arpc5l	0.0593891	0.26884	0.64995	0.753815	no
Ankrd11	0.0592526	0.273928	0.5779	0.695041	no
Dap3	0.0592122	0.24526	0.6154	0.725863	no
Gspt2	0.0590146	0.201466	0.70545	0.800411	no
Zscan25	0.058988	0.153477	0.78125	0.857575	no
Ankle2	0.0588923	0.220483	0.6551	0.758131	no
Smdt1	0.0588804	0.376783	0.6236	0.732345	no
1810026J23Rik	0.058775	0.180806	0.7218	0.813742	no
36219	0.0587719	0.0921149	0.87115	0.920114	no
Cyp4f13	0.0586703	0.146531	0.7913	0.863823	no
Tmem258	0.0586349	0.177474	0.7192	0.811695	no
Pfas	0.0583712	0.17144	0.72945	0.819304	no
Cnot10	0.0581127	0.219183	0.6828	0.781192	no
Dctn5	0.0580483	0.303099	0.59265	0.707076	no
Naa15	0.057955	0.26752	0.5986	0.712381	no

Abhd17b	0.0579446	0.261083	0.6327	0.739953	no
Timm17b	0.0578786	0.17804	0.75865	0.841626	no
Smarca4	0.0578773	0.268182	0.58685	0.702177	no
Ehd1	0.0578547	0.243309	0.6421	0.747914	no
Nostrin	0.0577597	0.0814634	0.88495	0.928648	no
Commd4	0.0577227	0.241151	0.70695	0.80177	no
Plaa	0.0576931	0.268481	0.60555	0.717814	no
Ubqln2	0.0575823	0.28428	0.5917	0.706451	no
Entpd3	0.0575703	0.284253	0.58295	0.69908	no
Gm7534	0.057547	0	1	1	no
Noa1	0.0573866	0.198464	0.72025	0.812547	no
Snrpg	0.0572708	0.0790264	0.95015	0.969292	no
Ptp4a1	0.0572233	0.132137	0.79485	0.866284	no
Comt	0.0572003	0.183754	0.73695	0.824711	no
Tmem115	0.0571358	0.219329	0.68185	0.780375	no
Atp9a	0.0571138	0.253023	0.61495	0.725462	no
Ppp1r3f	0.0569866	0.165039	0.75895	0.841818	no
Polr3f	0.0569353	0.186173	0.71315	0.806664	no
Hps4	0.0566681	0.157112	0.74745	0.832473	no
Mettl22	0.0564708	0.174891	0.75975	0.842213	no
Socs6	0.0564288	0.148384	0.7795	0.85652	no
Slc35f2	0.0562964	0.14764	0.7861	0.860636	no
Asphd1	0.0562346	0.152781	0.85315	0.907605	no
Tmem11	0.0562276	0.162868	0.74875	0.833291	no
Cep162	0.0561608	0.140224	0.78625	0.860642	no
Cdk11b	0.0560162	0.244948	0.646	0.750875	no
Sphk2	0.0559325	0.207131	0.6812	0.7799	no
LOC106740	0.0559014	0.079682	0.8716	0.920516	no
Unc119b	0.0558288	0.219266	0.6805	0.779587	no
Ankfy1	0.055812	0.259323	0.613	0.723998	no
Adsl	0.055808	0.211937	0.68715	0.784613	no
Utp20	0.055735	0.206223	0.683	0.781287	no
Gna12	0.0557035	0.255029	0.6474	0.751777	no
Glrx2	0.0556163	0.217107	0.66665	0.767414	no
Nmrk2	0.0553925	0	1	1	no
Wdr20	0.0553309	0.153808	0.77835	0.855682	no
Cdk5rap3	0.055326	0.184816	0.73855	0.825958	no
Elp6	0.0552855	0.150307	0.78715	0.861272	no
Nup188	0.055169	0.166249	0.7459	0.831584	no
Ccdc113	0.0550691	0	1	1	no
Map3k9	0.0549647	0.251132	0.61745	0.727306	no
Usp46	0.0549223	0.260181	0.62375	0.732456	no
H2-T10	0.054834	0	1	1	no
Gm6194	0.054819	0.0881373	0.87335	0.921809	no
5730507C01Rik	0.0547823	0	1	1	no
Crym	0.0547767	0.124669	0.8298	0.890386	no
Rab4b	0.0547654	0.23662	0.6341	0.741133	no
Cntn2	0.0547621	0.259998	0.60435	0.716973	no
Prpf4	0.0547275	0.177755	0.7308	0.820377	no
1810044D09Rik	0.0546848	0.0687382	0.9479	0.967741	no
Nom1	0.0546593	0.210995	0.6856	0.78345	no
Zfp385b	0.0545838	0.208852	0.6775	0.776468	no
Klhl42	0.0545273	0.210211	0.68515	0.783071	no

Ciapin1	0.0544582	0.235477	0.6517	0.75525	no
Med24	0.0543978	0.231947	0.65945	0.761545	no
Tomm7	0.0543864	0.130602	0.8313	0.891653	no
Prkar1a	0.0543514	0.224794	0.67315	0.772818	no
Amd2	0.054325	0	1	1	no
Clasp2	0.0542792	0.430394	0.62445	0.732954	no
Dnrtip2	0.0542219	0.189836	0.72855	0.81857	no
Ccng2	0.0541606	0.209974	0.69555	0.791854	no
Pdpf	0.0538846	0.202387	0.75935	0.84198	no
Phf20	0.0538522	0.253591	0.6198	0.729303	no
Bbip1	0.0537996	0.0847193	0.8741	0.922254	no
Zfp213	0.0537608	0.115479	0.8295	0.890386	no
Gm5127	0.0537124	0	1	1	no
Cep131	0.0536819	0.144293	0.7836	0.859104	no
Poli	0.0535278	0.106526	0.82985	0.890386	no
Kbtbd2	0.0534783	0.256647	0.61945	0.729079	no
Kctd2	0.0534612	0.253917	0.6565	0.759147	no
A330041J22Rik	0.0534353	0	1	1	no
4931414P19Rik	0.0533891	0.0946773	0.86045	0.912259	no
Mon1a	0.0533799	0.197628	0.727	0.817659	no
A330102I10Rik	0.0533501	0.0758287	0.88985	0.931558	no
Panx2	0.0533074	0.244927	0.6464	0.751208	no
Coq10a	0.0533069	0.196852	0.717	0.809638	no
Trp53i13	0.0532503	0.134941	0.813	0.879114	no
Npy4r	0.0531492	0	1	1	no
Cnep1r1	0.0531346	0.208625	0.70405	0.799346	no
Hmga1-rs1	0.053017	0	1	1	no
Porcn	0.0529564	0.183096	0.71325	0.806708	no
Wdr16	0.0529402	0	1	1	no
Aasdhpt	0.0529246	0.208039	0.6911	0.78797	no
Dpagt1	0.0528496	0.207253	0.70785	0.802448	no
Amer3	0.0528301	0.201091	0.6998	0.795361	no
Zfp426	0.0527513	0.193295	0.7011	0.796554	no
Tspyl1	0.0526041	0.267689	0.6166	0.726504	no
1600012H06Rik	0.0524871	0.174027	0.74435	0.830596	no
Mief1	0.0523571	0.222498	0.6678	0.768338	no
Rasl11a	0.0523257	0.0831703	0.89225	0.933408	no
Morf4l1	0.0521986	0.19	0.6961	0.792241	no
Lats1	0.0518699	0.210083	0.68415	0.782197	no
Bmx	0.0518351	0.0790324	0.88335	0.927755	no
Cggbp1	0.0517037	0.229164	0.65905	0.761175	no
Mcts1	0.0515229	0.239281	0.71065	0.804522	no
Adal	0.0515117	0.132273	0.79025	0.863256	no
Rsrc1	0.0514661	0.2189	0.6804	0.779587	no
Gatc	0.0514346	0.177365	0.7518	0.835634	no
Ngrn	0.0514205	0.177808	0.722	0.813804	no
Tmem167b	0.0513721	0.237657	0.6502	0.754039	no
Ehbp1	0.0512752	0.225772	0.6466	0.751367	no
Ino80e	0.0509828	0.132482	0.7895	0.863005	no
Kmt2c	0.0509817	0.225852	0.65325	0.756584	no
Wasl	0.0509609	0.237713	0.6311	0.738538	no
A730017L22Rik	0.0508711	0.0799356	0.88235	0.927271	no
Sesn1	0.0508019	0.194125	0.69555	0.791854	no

Wdr47	0.0506987	0.245002	0.63465	0.74135	no
Tmem145	0.0506717	0.123834	0.819	0.883604	no
Tmem231	0.0506635	0.172758	0.74755	0.832515	no
Zfp658	0.0505003	0.093198	0.86005	0.912093	no
Dapp1	0.0504478	0	1	1	no
Klhl28	0.0503145	0.183155	0.7244	0.815426	no
2310035C23Rik	0.0502945	0.223832	0.6555	0.758329	no
Pcm1	0.0502254	0.234889	0.64305	0.748611	no
Zfp558	0.0501753	0	1	1	no
9130019O22Rik	0.0501586	0.0851798	0.8701	0.919371	no
Mob2	0.0501237	0.215627	0.70845	0.802854	no
Hddc2	0.0500822	0.1549	0.82395	0.886709	no
Gemin7	0.0499534	0.213262	0.74575	0.831487	no
Fbxo45	0.0497842	0.233437	0.65095	0.754711	no
Ccdc71l	0.0497578	0.145064	0.7771	0.854717	no
Rragb	0.049694	0.218298	0.68635	0.784104	no
Cops7a	0.0496577	0.210547	0.673	0.772779	no
Ahrr	0.0496257	0	1	1	no
Ovca2	0.0496013	0.131589	0.7915	0.863823	no
Pdap1	0.0495171	0.225081	0.68455	0.78252	no
Glce	0.0494662	0.22331	0.66555	0.766813	no
Gpalpp1	0.0493711	0.210239	0.68775	0.785231	no
2310034O05Rik	0.0493608	0	1	1	no
Det1	0.0493491	0.098618	0.85185	0.906513	no
Ap4b1	0.0490105	0.0666694	0.9039	0.940457	no
Lancl2	0.0489969	0.219437	0.6708	0.770644	no
AI854703	0.048991	0.154307	0.76395	0.845103	no
Vps16	0.048765	0.178479	0.7218	0.813742	no
Phf5a	0.0486273	0.18846	0.7343	0.822801	no
Unc5b	0.0485589	0.144303	0.7771	0.854717	no
Arhgap4	0.0484436	0	1	1	no
BC003965	0.0484418	0.162426	0.75735	0.840747	no
Sec31b	0.0484333	0	1	1	no
Ppp2r1b	0.0484242	0.0858184	0.87345	0.921809	no
Rdx	0.0483906	0.223914	0.65265	0.756153	no
Myzap	0.048357	0	1	1	no
Cltb	0.0482872	0.256894	0.64565	0.750797	no
Zpbp	0.0482705	0	1	1	no
Ugp2	0.0482575	0.195856	0.6992	0.794883	no
Bnip1	0.048236	0.152166	0.8014	0.870545	no
Golph3l	0.0481962	0.158485	0.7462	0.831849	no
Clcn7	0.0481827	0.202159	0.6956	0.791854	no
Tcea2	0.0479518	0.169606	0.7718	0.850172	no
Tmem86a	0.0477754	0.165746	0.75835	0.841505	no
9830147E19Rik	0.0477623	0	1	1	no
A230065H16Rik	0.0477235	0	1	1	no
Rabepk	0.0476855	0.145365	0.79715	0.867935	no
Prps1	0.0476772	0.205954	0.7081	0.802651	no
Mapk1ip1l	0.047673	0.213081	0.67675	0.775876	no
Lemd3	0.0475824	0.180499	0.7337	0.822337	no
Fabp5	0.047353	0.167845	0.7287	0.818669	no
Gde1	0.0472959	0.252185	0.65725	0.759625	no
Cog7	0.0472611	0.201157	0.7047	0.799765	no

Ncln	0.0472064	0.189718	0.72205	0.813804	no
Fbf1	0.0471742	0.161278	0.7555	0.838974	no
Mrpl43	0.0470558	0.198556	0.7392	0.826532	no
Golga5	0.0468855	0.161652	0.74855	0.833139	no
Clcn1	0.0468432	0	1	1	no
Thumpd2	0.0467883	0.0661562	0.90515	0.941262	no
Kcmf1	0.0467602	0.219705	0.68115	0.7799	no
E130309D02Rik	0.046602	0.147242	0.7824	0.858356	no
Hif1a	0.0465593	0.219785	0.6747	0.774128	no
Stxbp5	0.0464581	0.208025	0.67345	0.773095	no
Tiprl	0.0464498	0.195757	0.71175	0.805355	no
Ciao1	0.0464463	0.201684	0.70415	0.799346	no
Dzip1	0.0462139	0.126727	0.80525	0.873797	no
Zfp142	0.0461414	0.0842285	0.86285	0.913602	no
Med23	0.0460407	0.155432	0.75175	0.835634	no
4930402H24Rik	0.0458846	0.182073	0.72745	0.818027	no
Vwa3a	0.0458811	0	1	1	no
D17Wsu92e	0.0458577	0.21455	0.66475	0.766224	no
Timm50	0.045832	0.165567	0.783	0.858714	no
Fkrp	0.0457028	0.124859	0.8164	0.881731	no
Kcnn2	0.0456453	0.125004	0.8215	0.885365	no
St7	0.0456442	0.108815	0.82575	0.887889	no
Pa2g4	0.0456383	0.190545	0.727	0.817659	no
Sass6	0.0454286	0.094275	0.8417	0.898774	no
Slc25a51	0.0454157	0.220767	0.6681	0.76855	no
Mira	0.0453578	0.158317	0.8099	0.876923	no
Dbr1	0.0449189	0.0976154	0.8576	0.910659	no
Inpp5a	0.044858	0.154345	0.77845	0.855721	no
Mbd1	0.0446629	0.153948	0.7711	0.849683	no
Mapt	0.0445578	0.197077	0.6886	0.785795	no
Rnasek	0.0444291	0.300817	0.68085	0.779634	no
Gtf2h2	0.0441455	0.145227	0.7934	0.865042	no
Pddc1	0.0441426	0.183054	0.74735	0.832432	no
Npcd	0.0440301	0.0765487	0.87415	0.922254	no
Map4	0.0438528	0.180698	0.7185	0.811056	no
Slc25a40	0.0438486	0.123949	0.80695	0.875123	no
Bop1	0.0436945	0.111871	0.83695	0.895252	no
Ddx10	0.0436641	0.172529	0.74485	0.830805	no
St3gal1	0.0433921	0.137447	0.7915	0.863823	no
D930048N14Rik	0.0433708	0	1	1	no
Ndufaf4	0.043325	0.1459	0.77885	0.85609	no
Gdi2	0.0432641	0.206616	0.69705	0.793119	no
Baz2a	0.0431292	0.18945	0.7092	0.803429	no
Tekt4	0.0430643	0	1	1	no
Gnl3l	0.0430261	0.200459	0.68935	0.786313	no
Slc11a2	0.0430141	0.153341	0.76095	0.84295	no
Mcur1	0.0429861	0.14749	0.78015	0.856951	no
Ddrk1	0.0429338	0.191252	0.74985	0.834446	no
Trim12c	0.0428556	0.100298	0.8403	0.897678	no
Zbtb49	0.0427573	0.0760534	0.8862	0.929057	no
Fam49b	0.0427566	0.18272	0.7255	0.816318	no
Pno1	0.0425035	0.164269	0.7697	0.848775	no
Ftsj3	0.0424468	0.154139	0.7671	0.847175	no

F8	0.0421511	0.103408	0.8337	0.893216	no
Peli1	0.0420983	0.156915	0.76255	0.844259	no
Nmt1	0.0420218	0.212839	0.70365	0.798984	no
Harbi1	0.0420005	0.0974682	0.85615	0.909775	no
Trrap	0.0418279	0.194489	0.7044	0.79955	no
Mon2	0.041818	0.185292	0.70585	0.800796	no
Hcfc1r1	0.0417992	0.1926	0.74695	0.832126	no
Mrps11	0.0416961	0.140954	0.82085	0.885096	no
Mboat4	0.0416708	0	1	1	no
Fbxl18	0.0416619	0.109989	0.8411	0.898388	no
Tasp1	0.0415167	0.117633	0.81025	0.877231	no
Mrpl24	0.0414062	0.131805	0.83505	0.894085	no
Ttc9b	0.0413828	0.189334	0.76165	0.843473	no
Hmg20b	0.0413061	0.125797	0.80345	0.872218	no
Erv3	0.0412994	0	1	1	no
Imp4	0.0411059	0.110154	0.84395	0.9002	no
Zw10	0.0410987	0.129337	0.80975	0.876904	no
Atg2a	0.0410383	0.172306	0.7372	0.824713	no
Fam13b	0.0409949	0.182526	0.70845	0.802854	no
Rbm27	0.0409537	0.153506	0.7661	0.846408	no
Cstf2	0.0409289	0.16993	0.7362	0.824303	no
Vps53	0.0406405	0.191097	0.71555	0.808689	no
Ylpm1	0.0406174	0.178779	0.7278	0.818212	no
Psmg2	0.0405469	0.144056	0.8099	0.876924	no
Vstm2l	0.0404806	0.187973	0.74355	0.830206	no
Gm10825	0.0404733	0	1	1	no
Fdxr	0.0403645	0.0996419	0.8589	0.911383	no
Ppp2r3c	0.0402909	0.071484	0.8924	0.933491	no
Zbtb41	0.0402835	0.160502	0.7483	0.833	no
Parp1	0.0402622	0.184679	0.70955	0.80362	no
Gm11747	0.0402553	0	1	1	no
Ficd	0.0402496	0.12247	0.81445	0.880198	no
Ccdc15	0.0402318	0	1	1	no
4930519F09Rik	0.0402295	0	1	1	no
Ik	0.0401902	0.199437	0.7167	0.809425	no
Cops4	0.0401203	0.195526	0.72695	0.817659	no
Gpr156	0.0399523	0.092931	0.8616	0.912788	no
Tpd52l2	0.0399293	0.171578	0.72725	0.817871	no
Rnf34	0.0398532	0.163203	0.7676	0.847586	no
Ndufs6	0.0398481	0.126187	0.79905	0.869148	no
Gpr98	0.0398217	0	1	1	no
Zfml	0.0394125	0.172828	0.72915	0.819036	no
Slc2a6	0.0393612	0.15172	0.7631	0.844586	no
Cyp46a1	0.0393484	0.116566	0.83575	0.894474	no
Sugp2	0.0392544	0.128928	0.79645	0.867529	no
Sirt4	0.0390638	0.0702844	0.8854	0.928732	no
Api5	0.0389871	0.178356	0.7324	0.821504	no
Unc5a	0.0389757	0.108216	0.8356	0.894457	no
Stau1	0.0388785	0.169654	0.73235	0.821504	no
Cyld	0.038802	0.165528	0.7372	0.824713	no
Atf1	0.0387833	0.0855739	0.875	0.92269	no
Snd1	0.0387789	0.176934	0.737	0.824711	no
Pcdhb4	0.0386675	0.0123454	0.98135	0.988803	no

Tomm40	0.0386261	0.156434	0.7454	0.831222	no
Pnrc1	0.0386207	0.168079	0.7648	0.845927	no
Klhdc3	0.0385939	0.1328	0.8081	0.875958	no
Rsl1	0.0385704	0	1	1	no
Csk	0.0385348	0.184472	0.7361	0.824261	no
Ap2s1	0.0384822	0.22622	0.73335	0.822222	no
Atp6v0d1	0.0383686	0.206294	0.7098	0.803766	no
Pfkm	0.0382614	0.175249	0.7282	0.818385	no
S1pr5	0.0381701	0	1	1	no
Cgrf1	0.0381203	0.128374	0.8233	0.886153	no
Arxes2	0.0380276	0.156787	0.7829	0.858692	no
Ctps2	0.0380203	0.0716546	0.8918	0.933084	no
Lig3	0.0379331	0.100381	0.84315	0.899563	no
Bola3	0.0379329	0.147582	0.856	0.909775	no
Tstd3	0.0378252	0.0883155	0.8579	0.910832	no
Zfp866	0.037651	0.123501	0.80915	0.876612	no
Zfp568	0.0376384	0.0736009	0.8824	0.927271	no
B3galt6	0.0374057	0.0884354	0.8708	0.91989	no
Arap3	0.0373849	0.0816037	0.86445	0.914838	no
Rttn	0.037323	0	1	1	no
Vps51	0.0371563	0.10403	0.83365	0.893216	no
Dnah11	0.0371272	0	1	1	no
Xpnpep1	0.0371188	0.134012	0.7901	0.863256	no
2810021J22Rik	0.0369874	0.0809017	0.8767	0.923769	no
Slc3a2	0.0368772	0.168021	0.7337	0.822337	no
Wdr59	0.0366182	0.138934	0.7777	0.855164	no
Dusp19	0.0365713	0.0734639	0.88555	0.928816	no
Nat14	0.036569	0.0887259	0.87875	0.924974	no
Pcdh15	0.0365509	0	1	1	no
Traf3ip3	0.03654	0	1	1	no
Pyroxd1	0.0364838	0.0834774	0.8773	0.924181	no
Prickle4	0.0364712	0.027626	0.95745	0.974416	no
Zfp248	0.0363795	0.109066	0.8372	0.895357	no
Exosc3	0.0363699	0.0799718	0.89805	0.936669	no
Kdm4a	0.0362902	0.148436	0.7659	0.846408	no
Abcc12	0.0362562	0	1	1	no
Zfp143	0.0362428	0.0884919	0.865	0.915148	no
Mmadhc	0.0361393	0.160497	0.78405	0.859407	no
Fam149b	0.036049	0.110834	0.81945	0.884017	no
Zfp961	0.0360442	0.0707297	0.8953	0.93505	no
Higd2a	0.0358062	0.204334	0.78585	0.860433	no
Aldoa	0.035801	0.130588	0.78855	0.862235	no
1700056E22Rik	0.0358007	0	1	1	no
Clip2	0.0357855	0.168788	0.73515	0.823475	no
Ppp1r37	0.0355535	0.158343	0.77005	0.848949	no
Micu1	0.0355221	0.161724	0.74135	0.828238	no
Tmub1	0.0354387	0.106232	0.85845	0.911197	no
Pglyrp1	0.0353674	0.0414238	0.96475	0.978692	no
Zfp637	0.0352295	0.117769	0.84635	0.902397	no
Ncl	0.0351327	0.165292	0.73315	0.822137	no
Nop10	0.0350634	0.180266	0.7934	0.865042	no
Polr2m	0.0350308	0.160804	0.74445	0.830596	no
Cul3	0.0349576	0.173398	0.741	0.828	no

Zfp280b	0.0349185	0.114247	0.82255	0.885848	no
Rfc1	0.0349048	0.150217	0.77145	0.849998	no
Spint2	0.0348349	0.0463493	0.9238	0.953704	no
Zfp11	0.0347757	0.0731906	0.89065	0.932249	no
Pitpna	0.0347474	0.156199	0.76645	0.846669	no
Zfp623	0.0347227	0.082534	0.87525	0.922807	no
Gpn2	0.0346872	0.0676696	0.8886	0.930795	no
3830406C13Rik	0.034606	0.129184	0.7969	0.867877	no
Wdr41	0.034172	0.14028	0.793	0.864907	no
Disp1	0.0341001	0.108503	0.83125	0.891653	no
Brwd3	0.0340629	0.0692695	0.8939	0.934397	no
S1pr1	0.0337874	0.118968	0.8221	0.885669	no
Tomm40l	0.0337001	0.13169	0.7944	0.865865	no
Vps13b	0.033522	0.149936	0.7638	0.845008	no
Kif13b	0.0335138	0.13581	0.79155	0.863823	no
Gm4925	0.0334901	0	1	1	no
Dhx36	0.033463	0.156613	0.76485	0.845927	no
Gm7008	0.0333734	0	1	1	no
Tmed3	0.0331066	0.134116	0.82275	0.885848	no
Braf	0.0329306	0.146804	0.7737	0.851911	no
Usp30	0.032926	0.117436	0.82405	0.886744	no
Xpnpep3	0.0328547	0.0824846	0.8725	0.921173	no
E130311K13Rik	0.0328052	0.0744057	0.8997	0.937579	no
Cacnb4	0.0327238	0.152636	0.7543	0.838062	no
Setd2	0.0327	0.1349	0.78935	0.862913	no
Arfip2	0.0326839	0.145505	0.7879	0.861863	no
Zic3	0.0326053	0	1	1	no
Dctn4	0.0325536	0.162152	0.7585	0.84153	no
Zfp654	0.0323032	0.0990642	0.84155	0.898774	no
Mrps16	0.0322733	0.117255	0.87835	0.924627	no
Rras2	0.032267	0.084595	0.87475	0.922667	no
Acyp1	0.0322497	0.126121	0.8612	0.912729	no
Gls	0.0321661	0.149817	0.76495	0.845927	no
Slc22a7	0.032103	0	1	1	no
Pum2	0.0320506	0.147873	0.7671	0.847175	no
Cops3	0.0318163	0.132009	0.7863	0.860642	no
Scfd2	0.0317911	0.0987286	0.84585	0.901936	no
Sugt1	0.0317771	0.151523	0.7851	0.859896	no
Ppie	0.0317679	0.087555	0.8851	0.928648	no
Gxy1t1	0.0316889	0.0870471	0.8652	0.915287	no
Gtf3c1	0.0316458	0.149027	0.77025	0.849099	no
Avpi1	0.0315985	0.0921826	0.88195	0.927166	no
Pdrg1	0.0313837	0.155389	0.79555	0.866833	no
Med19	0.0313091	0.0640158	0.9071	0.942256	no
Tnks2	0.0311624	0.147636	0.77	0.848949	no
Csde1	0.0310588	0.142574	0.78055	0.857248	no
Ercc3	0.0310267	0.129828	0.8066	0.874921	no
Nisch	0.0309369	0.14858	0.7716	0.850022	no
Atf6b	0.0308597	0.131637	0.80815	0.875958	no
Lrrn3	0.0306972	0.113595	0.8147	0.880253	no
Cdkn2d	0.0306595	0.152373	0.79215	0.864264	no
Mecp2	0.0303786	0.136775	0.78665	0.860954	no
Rps27l	0.0303121	0.121425	0.8909	0.932363	no

Rsc1a1	0.0302671	0.0249405	0.9631	0.977691	no
Eef1a2	0.0301621	0.133888	0.811	0.877613	no
9430016H08Rik	0.0301225	0.0549955	0.9045	0.940933	no
Thap4	0.0300766	0.0910296	0.8706	0.919752	no
Acot10	0.0300642	0.075169	0.89875	0.936957	no
Tcaim	0.0300437	0.10531	0.8397	0.897254	no
Jkamp	0.0300066	0.132547	0.80185	0.870766	no
Icam2	0.0299786	0.041817	0.9479	0.967741	no
Cul4b	0.0299726	0.129205	0.79395	0.865445	no
Zbed4	0.0299663	0.0591588	0.9077	0.942562	no
Gpaa1	0.0299365	0.114321	0.8301	0.890582	no
Vapb	0.0298381	0.143419	0.78125	0.857575	no
Laptm4a	0.0298331	0.15249	0.7827	0.858614	no
Prkcsh	0.0297776	0.133489	0.8106	0.87736	no
Abhd17c	0.029655	0.109062	0.83845	0.896423	no
Commd3	0.0296223	0.133923	0.83485	0.894015	no
Ggps1	0.0295106	0.121262	0.82475	0.88721	no
Nek11	0.02948	0	1	1	no
Tbc1d13	0.0294555	0.137662	0.7928	0.864831	no
Ctsb	0.029441	0.0989203	0.848	0.90372	no
Sumo2	0.0293755	0.0626092	0.9005	0.938044	no
Ythdf3	0.0293736	0.129875	0.79355	0.86508	no
Tmlhe	0.0293018	0.0738865	0.89105	0.932447	no
Srp72	0.02915	0.141927	0.7857	0.860411	no
Exosc1	0.0291025	0.0666286	0.8953	0.93505	no
Gm561	0.0289487	0.108919	0.8996	0.937549	no
Ccdc85b	0.0288383	0.114744	0.8141	0.879963	no
Ccpg1os	0.0287978	0.0596759	0.93405	0.959136	no
Smarcd1	0.0287444	0.12664	0.80845	0.876051	no
U2surp	0.0286031	0.119103	0.81305	0.879114	no
Myo9a	0.0285664	0.136603	0.78555	0.860318	no
Myo7b	0.0284535	0	1	1	no
Mrpl36	0.0283987	0.114566	0.8561	0.909775	no
Hnrnpa3	0.0283936	0.11667	0.81605	0.881424	no
2610044O15Rik8	0.0283408	0.0714165	0.89785	0.936669	no
Creb1	0.0282468	0.111886	0.81725	0.882218	no
Minpp1	0.0281855	0.116327	0.82875	0.890069	no
Dguok	0.0280742	0.0728581	0.88305	0.92766	no
Esf1	0.0280387	0.105222	0.84295	0.899422	no
Top2b	0.0279585	0.12712	0.80235	0.871237	no
Xpo6	0.027884	0.127258	0.8018	0.870766	no
Nifk	0.027821	0.097765	0.8589	0.911383	no
Rabl3	0.0276445	0.105531	0.8428	0.899422	no
Trmt10c	0.0275907	0.0823857	0.88205	0.927176	no
Sec13	0.0274902	0.128229	0.82705	0.888819	no
Gstm7	0.0273725	0.0616054	0.9154	0.947591	no
Fam173a	0.027278	0.0979219	0.845	0.901156	no
Cd7	0.027129	0	1	1	no
Get4	0.0270746	0.095494	0.84995	0.905197	no
Calm2	0.0270228	0.139472	0.81355	0.879512	no
Sdf2	0.0269105	0.131688	0.81955	0.884053	no
Ccdc50	0.0268874	0.115006	0.8227	0.885848	no
Men1	0.026789	0.108789	0.8293	0.890372	no

Slc37a3	0.0267728	0.108209	0.8319	0.892008	no
Tlk2	0.0266965	0.105285	0.8291	0.890229	no
Parg	0.0266612	0.11525	0.826	0.887978	no
Tmem194b	0.0264841	0.0376784	0.938	0.961286	no
Casp8	0.0264741	0.0340172	0.94605	0.96667	no
Atp6v1a	0.0261212	0.123242	0.81295	0.879114	no
Sap18	0.0261133	0.101613	0.84195	0.898861	no
Aig1	0.0260431	0.0987418	0.87185	0.920686	no
Map3k10	0.0260087	0.111863	0.82135	0.885365	no
Eif1	0.0259592	0.137433	0.8219	0.885669	no
Lrnf3	0.0259509	0.0836202	0.8719	0.920686	no
Trub2	0.0258439	0.0800822	0.872	0.920718	no
Man1a	0.0258325	0.0643172	0.8978	0.936669	no
Hipk1	0.0256952	0.0682669	0.89625	0.935726	no
Ap2m1	0.0256354	0.121613	0.82815	0.889713	no
Smarcc1	0.0255505	0.116464	0.8175	0.882344	no
Poldip3	0.0254654	0.115668	0.8279	0.889516	no
Rnmtl1	0.0254405	0.0642464	0.90845	0.942846	no
Dus1l	0.0254078	0.0898446	0.86775	0.91718	no
Lamtor4	0.0253767	0.11499	0.85805	0.910919	no
Pea15a	0.0251336	0.126017	0.81655	0.881803	no
Bad	0.0250348	0.0437581	0.9295	0.956463	no
1700001O22Rik	0.024954	0	1	1	no
Fkbp5	0.0248122	0.105912	0.83915	0.896883	no
Sybu	0.0246396	0.112461	0.8335	0.8932	no
Slc35c1	0.0245328	0.0869946	0.8631	0.913794	no
Ifih1	0.0244845	0.0599361	0.90655	0.941832	no
Igfbpl1	0.024393	0	1	1	no
Zhx3	0.0243477	0.0517722	0.9167	0.948589	no
D11Wsu47e	0.024081	0.0504259	0.9262	0.95477	no
Smyd4	0.0240356	0.0678882	0.8972	0.936255	no
Fez2	0.024019	0.0886789	0.86015	0.912126	no
Uvssa	0.0240177	0.0563053	0.90775	0.942562	no
Mapre1	0.0240092	0.116105	0.81895	0.883604	no
Atg10	0.023878	0.0752176	0.89545	0.935112	no
Tbc1d9	0.0238693	0.112941	0.81735	0.882254	no
Neu3	0.0238118	0.0358172	0.94345	0.964831	no
Foxf1	0.0237226	0	1	1	no
Bcar1	0.0235124	0.091789	0.8547	0.908744	no
Tbc1d16	0.0234367	0.0943669	0.84875	0.904302	no
C1galt1	0.0233798	0.0628931	0.90765	0.942562	no
Stard7	0.0233217	0.107972	0.83575	0.894474	no
Iars	0.0231171	0.109177	0.83185	0.892008	no
Slc35e4	0.0230891	0.0860183	0.8711	0.920114	no
D130043K22Rik	0.0230817	0.110739	0.82975	0.890386	no
Tti2	0.0229772	0.0626283	0.909	0.943196	no
Cd9	0.0228949	0.117993	0.83885	0.896741	no
Slc28a1	0.0228646	0	1	1	no
Derl2	0.0227556	0.0797363	0.8775	0.924288	no
Tsen15	0.02254	0.0743123	0.90295	0.939859	no
Cox7c	0.0221991	0.0681044	0.9403	0.962723	no
Wdr92	0.0221865	0.0534081	0.91925	0.950634	no
Mrto4	0.0221659	0.0484355	0.9235	0.953624	no

Eif3f	0.0221497	0.115575	0.8365	0.89506	no
Atl3	0.0221198	0.104112	0.8341	0.893501	no
Bahcc1	0.0221101	0.0638764	0.90195	0.939186	no
Narfl	0.0220616	0.0499445	0.9267	0.955063	no
Acp6	0.0220428	0.0439863	0.93785	0.961286	no
Wdr11	0.0220075	0.0943338	0.85745	0.910573	no
Aifm1	0.0219968	0.0792992	0.8757	0.923082	no
Rbm48	0.0219624	0.0335325	0.95155	0.970272	no
Vegfb	0.0219378	0.0741556	0.87945	0.925564	no
Cyth3	0.0218228	0.0925395	0.85275	0.907398	no
Eif2s3x	0.0216682	0.0733735	0.88865	0.930795	no
Dnajb2	0.0216389	0.0929434	0.8529	0.907412	no
Slc30a7	0.0215919	0.0717221	0.88755	0.930031	no
Trim33	0.0215232	0.0374356	0.9427	0.96451	no
Cerk	0.0214086	0.103493	0.84015	0.89759	no
Sdcbp2	0.0212962	0	1	1	no
Ubr7	0.0210462	0.0815109	0.87785	0.92432	no
Hsd17b12	0.0209828	0.106652	0.85115	0.905986	no
Larp1b	0.0206713	0.0692447	0.90335	0.940127	no
9930021J03Rik	0.0206372	0.0790502	0.8753	0.922807	no
Trp53	0.0205566	0.0586105	0.90755	0.942562	no
Ormdl3	0.0204423	0.0893349	0.8676	0.917167	no
Smarcal1	0.0203553	0.0920579	0.8592	0.91141	no
Ccdc59	0.0202611	0.0542707	0.92885	0.956239	no
Crhbp	0.0202272	0	1	1	no
Ppp2r2a	0.0202061	0.0893725	0.8541	0.908324	no
Mob3c	0.0200013	0.0340646	0.94695	0.967068	no
Napa	0.0199964	0.102709	0.8485	0.904181	no
Polr2a	0.0198302	0.0922082	0.85	0.905197	no
Chchd7	0.0196119	0.0430672	0.92705	0.95535	no
Smox	0.0196088	0.0207262	0.96285	0.977512	no
Proser1	0.0195822	0.0678426	0.89805	0.936669	no
Arfgap1	0.0195457	0.0730092	0.8821	0.927176	no
Cnrip1	0.0194746	0.0797342	0.88945	0.93136	no
Mei4	0.0192924	0	1	1	no
Alg11	0.0192663	0.0762759	0.8759	0.923199	no
Myo19	0.019152	0	1	1	no
Rps28	0.0190809	0.0300158	0.9517	0.970351	no
Fgd1	0.0190755	0.0352711	0.9454	0.966304	no
Ensa	0.0188125	0.0850892	0.8637	0.914316	no
Mut	0.0187057	0.0816946	0.88345	0.927787	no
Rbak	0.0185962	0.0336566	0.94185	0.963938	no
Psm1	0.0185845	0.0898421	0.85715	0.9104	no
Frd5	0.0184804	0	1	1	no
Ppp3cb	0.0184061	0.086986	0.8684	0.917794	no
Bmi1	0.0182404	0.0667665	0.8951	0.935041	no
Spata2	0.0182403	0.0596384	0.90835	0.942846	no
Actg1	0.0182119	0.0827564	0.8676	0.917167	no
6720489N17Rik	0.0182071	0.0366272	0.94385	0.965166	no
Mlf2	0.018101	0.0847246	0.86145	0.912788	no
Tsr3	0.0180006	0.0624186	0.9151	0.947451	no
Gnpda2	0.0177551	0.0787218	0.88285	0.927597	no
Gimap6	0.0177544	0.0478923	0.933	0.958577	no

Rars	0.0177516	0.0800029	0.8828	0.927597	no
Stat1	0.0176333	0.0738797	0.8805	0.926375	no
Rpl15	0.0174736	0.0811583	0.886	0.928921	no
2210408I21Rik	0.0174432	0.0350872	0.94045	0.962802	no
Ddx42	0.0173192	0.0801108	0.8782	0.924542	no
Calr	0.0173075	0.0900141	0.86985	0.91918	no
Snx17	0.0172053	0.0225348	0.96485	0.978719	no
Rela	0.0171869	0.0647928	0.9057	0.941392	no
Prpf40b	0.0171493	0.0611136	0.9086	0.942928	no
Rnf144b	0.0171441	0.0465833	0.9248	0.954291	no
Cpsf3l	0.0169402	0.0533221	0.9236	0.953624	no
Polr2g	0.0168571	0.0839307	0.89825	0.93673	no
Appl1	0.016739	0.0783463	0.8761	0.923284	no
Ccdc132	0.0167307	0.0710957	0.88425	0.928333	no
Sgsm1	0.0167072	0.0732697	0.8836	0.927871	no
Vapa	0.0166472	0.0874255	0.87345	0.921809	no
Tmed8	0.0164515	0.0768613	0.87595	0.923199	no
Otub1	0.0163389	0.0849252	0.87765	0.924288	no
Wnk1	0.0163201	0.0755561	0.8777	0.924288	no
Amotl1	0.0159337	0.0761354	0.8833	0.927755	no
Ssh1	0.0158837	0.0549455	0.9165	0.948456	no
Rin2	0.0158819	0.0565554	0.91545	0.947591	no
Csl	0.0158351	0.0437209	0.93955	0.962229	no
St7l	0.015835	0.0583168	0.90465	0.940942	no
Coro2b	0.0155246	0.0773284	0.87995	0.926017	no
Zfp617	0.0154477	0.0476652	0.9287	0.956239	no
Atp6v0a1	0.0154459	0.0711205	0.8873	0.929916	no
Atp6v1g1	0.0153887	0.0813847	0.8896	0.93137	no
Cdk2ap2	0.0152123	0.0539546	0.9309	0.95731	no
B4galt4	0.0152004	0.0425662	0.9343	0.959319	no
Galnt7	0.0151715	0.0349879	0.94625	0.966707	no
Zbtb38	0.0151322	0.056838	0.91375	0.946504	no
Rbmxl1	0.0150877	0.0426601	0.92875	0.956239	no
Glo1	0.0150346	0.0647475	0.8938	0.934366	no
Sec62	0.0150259	0.0741994	0.88855	0.930795	no
Acox1	0.0149427	0.0702698	0.89515	0.935041	no
Vdac3	0.0149228	0.0605959	0.90455	0.940933	no
Ttc4	0.0148573	0.0506715	0.9192	0.950634	no
Psmb6	0.0147825	0.0799744	0.89925	0.937405	no
Eif4e2	0.0146345	0.0599559	0.90395	0.940457	no
Snx3	0.0145498	0.0764683	0.8934	0.934221	no
St13	0.0144934	0.0751424	0.8982	0.93673	no
Ccnyl1	0.0144018	0.0312036	0.9521	0.970511	no
Hspa14	0.0141827	0.0471158	0.92335	0.953611	no
Tsta3	0.0141774	0.0504755	0.93015	0.956738	no
Dock7	0.0141098	0.0634657	0.8994	0.937487	no
Bloc1s5	0.0140752	0.0526645	0.9264	0.954902	no
Fasn	0.0140664	0.0641224	0.89835	0.936761	no
Apol9a	0.0139709	0	1	1	no
Cog1	0.013854	0.052357	0.9229	0.953324	no
Wasf2	0.0138335	0.0555742	0.9084	0.942846	no
Asxl1	0.0137742	0.0583275	0.9103	0.944176	no
Zfp646	0.013734	0.0432019	0.9332	0.958634	no

Pigs	0.013653	0.0658836	0.90565	0.941392	no
Zfp81	0.0134807	0.0305687	0.952	0.970511	no
Slc7a5	0.0134695	0.0614881	0.9058	0.9414	no
Bicd1	0.0134012	0.05924	0.9002	0.937879	no
Acad8	0.013246	0.047757	0.92965	0.956469	no
Setmar	0.0132114	0.0245214	0.95865	0.975039	no
Snx6	0.0131834	0.0667258	0.90275	0.939724	no
Myo1c	0.0130722	0.0512202	0.91955	0.950796	no
Pqlc1	0.0129454	0.0588211	0.90395	0.940457	no
Txn2	0.012924	0.0613656	0.9143	0.94677	no
Pigq	0.0128823	0.0571226	0.90945	0.943589	no
Tysnd1	0.0127656	0.0293446	0.9499	0.969162	no
Lrig2	0.0126103	0.057602	0.9087	0.942958	no
Brd8	0.0124987	0.0398427	0.93615	0.960401	no
Gorasp2	0.0123784	0.0549564	0.91295	0.945963	no
Zbtb26	0.0123431	0.0289747	0.95465	0.972611	no
Emc3	0.012323	0.0595922	0.9143	0.94677	no
Arpc4	0.0123102	0.0605713	0.90785	0.942571	no
Rab5b	0.0120973	0.0607037	0.9104	0.944206	no
Chst15	0.0120969	0.0549698	0.90995	0.943938	no
Usp1	0.0120937	0.0457429	0.9251	0.954459	no
Taf6	0.0119522	0.0341857	0.94645	0.966707	no
Cacfd1	0.0119483	0.0426004	0.93165	0.957761	no
Obfc1	0.011826	0.0317428	0.95045	0.969449	no
Fbxo33	0.0117914	0.041556	0.93655	0.960662	no
Polr2c	0.0117046	0.00657629	0.99125	0.994624	no
Rfx7	0.0116512	0.0411955	0.93445	0.959399	no
Actr8	0.0116186	0.0428641	0.9322	0.957978	no
Polr1e	0.0115736	0.0193787	0.96925	0.981756	no
Prmt7	0.0115701	0.0462456	0.9331	0.958606	no
Epn2	0.0115452	0.0505627	0.92015	0.95132	no
Pomt1	0.0114767	0.0266523	0.9602	0.975772	no
Tmem150cos	0.0114612	0	1	1	no
Edem2	0.0114509	0.0415438	0.9371	0.960981	no
Caprin1	0.0113341	0.0500445	0.92195	0.95261	no
Ift74	0.011236	0.0355979	0.9426	0.964482	no
Ptbp2	0.0110792	0.0535485	0.91835	0.949852	no
Pla2r1	0.0110412	0.0262647	0.95855	0.975012	no
Ntsr2	0.0109502	0.01598	0.98435	0.990672	no
Morc2a	0.0108549	0.0391367	0.9381	0.961286	no
AU040320	0.0108389	0.0360544	0.9433	0.964752	no
Neurod1	0.0105954	0	1	1	no
Rtn4r	0.0104893	0.0281737	0.9593	0.975326	no
Manbal	0.0104476	0.0425303	0.943	0.964594	no
Ints2	0.0104406	0.0317701	0.94925	0.968746	no
Qrich1	0.010417	0.0451317	0.9294	0.956463	no
Rasa2	0.0103809	0.0389995	0.9396	0.962229	no
Trappc3	0.0103049	0.0476064	0.9346	0.959404	no
Ctcf	0.0102846	0.0413123	0.93735	0.961112	no
Zfp93	0.0102696	0.0227489	0.96505	0.978847	no
C430002N11Rik	0.0102584	0.0100489	0.98275	0.989612	no
4933439C10Rik	0.0102551	0.0141506	0.9747	0.98487	no
Hnrnpk	0.0100217	0.0464207	0.9348	0.959461	no

Arl4a	0.00996466	0.0351789	0.9442	0.9653	no
Zar1	0.00992562	0	1	1	no
Nudt5	0.00984775	0.0341917	0.9524	0.970617	no
Flywch1	0.00970739	0.0491331	0.92865	0.956239	no
Coq4	0.00946365	0.0242759	0.9645	0.978588	no
Pepd	0.00943083	0.0401095	0.93935	0.962196	no
Nhs	0.00938451	0.0225931	0.9646	0.978615	no
Ppcs	0.0093493	0.0296037	0.9604	0.975772	no
Sac3d1	0.00924655	0.0279054	0.95975	0.97556	no
Fancl	0.00903759	0.0127354	0.9817	0.989056	no
Mpped1	0.00877948	0.0185193	0.9747	0.98487	no
Snx13	0.00872195	0.0405396	0.93675	0.960719	no
Gm4952	0.00861636	0	1	1	no
Ubxn10	0.00858711	0	1	1	no
Faxc	0.00849104	0.0405591	0.93605	0.960372	no
Htatsf1	0.0081647	0.0323759	0.9477	0.967741	no
Rab9	0.00796945	0.0315447	0.9554	0.973076	no
Gosr1	0.00794966	0.0350097	0.9489	0.968515	no
Bbs12	0.00792019	0.0113116	0.98475	0.990774	no
Fam110b	0.0078847	0.0280534	0.9577	0.974521	no
Atp2b1	0.00785718	0.03747	0.9422	0.964147	no
Zfp169	0.00785467	0.0169596	0.9715	0.983059	no
Creb3l1	0.0077912	0.0231943	0.9668	0.979849	no
Fgfbp1	0.00772872	0	1	1	no
Ugdh	0.00766216	0.027647	0.95915	0.975323	no
Trim30a	0.00751964	0.0125481	0.98515	0.991002	no
Trerf1	0.0075128	0.0157714	0.9734	0.984231	no
Lamtor3	0.00740796	0.0260623	0.9659	0.97926	no
Usp3	0.00734118	0.0184649	0.9722	0.983394	no
Tapt1	0.00713272	0.0277082	0.95515	0.972971	no
Lsm7	0.00701667	0	1	1	no
Phkg2	0.00693229	0.029236	0.96035	0.975772	no
Sars	0.00682806	0.0318623	0.95075	0.96968	no
Dgat1	0.00673989	0.0190327	0.9757	0.985505	no
Strap	0.00672299	0.0335813	0.94995	0.969162	no
R74862	0.00666422	0	1	1	no
Arfrp1	0.00661054	0.0157948	0.97685	0.986216	no
Cacul1	0.00657299	0.0297485	0.95235	0.970617	no
Rab18	0.00644405	0.0300199	0.95035	0.969421	no
Edrf1	0.00639736	0.0192344	0.9708	0.982851	no
Cbll1	0.00629947	0.0196332	0.96735	0.980206	no
Arl2	0.00629466	0.0307775	0.9624	0.977205	no
Gm996	0.00626391	0.0209384	0.9656	0.979231	no
Morn2	0.00608706	0.00623742	0.9893	0.993393	no
Rhoh	0.00593434	0	1	1	no
Aaas	0.0058282	0.0166662	0.9757	0.985505	no
Crip1	0.00576025	0.0279332	0.97755	0.986423	no
Sf3b3	0.00566086	0.0234993	0.9619	0.976847	no
4932435022Rik	0.00563214	0	1	1	no
Npepl1	0.00526808	0.0191738	0.96985	0.982139	no
G3bp2	0.00508063	0.0230662	0.96175	0.976769	no
Vta1	0.0048764	0.0209174	0.97145	0.983059	no
Cyp2r1	0.00482187	0	1	1	no

Scg2	0.00480536	0.0237685	0.96565	0.979231	no
Etnk1	0.00477087	0.0211481	0.9679	0.980613	no
Abhd8	0.00464395	0.0226012	0.9679	0.980613	no
Vps13c	0.00463104	0.0209638	0.9665	0.979718	no
Pemt	0.00462551	0.00763937	0.9879	0.992764	no
H2-Q1	0.00458278	0	1	1	no
Cox6a1	0.0045072	0.03282	0.96285	0.977512	no
Pdlim5	0.00447409	0.0165713	0.9739	0.984437	no
Pphln1	0.00444677	0.018189	0.97095	0.982878	no
Efnb1	0.00440216	0.0161749	0.97515	0.9851	no
Nme7	0.00430453	0.00166713	0.99705	0.997576	no
Ttc21a	0.00429672	0	1	1	no
Bet1l	0.00426973	0.0151679	0.9779	0.986601	no
Clcn6	0.00417078	0.0197621	0.97135	0.983059	no
Cdk4	0.00413601	0.0164394	0.9772	0.986345	no
Orai2	0.00396966	0.0163871	0.97695	0.986218	no
4732471J01Rik	0.00396646	0.00459361	0.99335	0.995526	no
Fam161b	0.00394074	0.00984504	0.9838	0.990294	no
Galnt11	0.00389228	0.0142338	0.9776	0.986423	no
Slc25a46	0.00372468	0.0180576	0.97425	0.98464	no
Pfkfb3	0.00370059	0.0164502	0.97425	0.98464	no
Dnm1l	0.00357405	0.0166307	0.9749	0.984997	no
4933427E11Rik	0.00321231	0	1	1	no
Timm17a	0.00317652	0.0155476	0.981	0.988751	no
Golgb1	0.0031735	0.014478	0.977	0.986218	no
Usp39	0.00314329	0.0110115	0.9852	0.991002	no
Sephs1	0.00310485	0.0111984	0.98175	0.989056	no
Yars2	0.00308355	0.00827048	0.98805	0.992839	no
Ubap2l	0.00301446	0.0130991	0.9795	0.98799	no
D1Erttd622e	0.00299255	0.0121596	0.98045	0.988498	no
Mrps7	0.00288131	0.011684	0.9831	0.989815	no
Tinf2	0.00277312	0.00674204	0.9921	0.9951	no
Aasdh	0.00267585	0.00562969	0.993	0.995401	no
Mcm3ap	0.00264053	0.0102134	0.9835	0.990067	no
Mark4	0.00259281	0.0113002	0.98415	0.990571	no
Zfp874a	0.00253555	0.00813835	0.98825	0.992965	no
Ankrd46	0.00247494	0.0125887	0.9807	0.988524	no
Cic	0.00242404	0.0112824	0.9811	0.988776	no
Pip5k1a	0.00241133	0.00795736	0.98955	0.993419	no
C030046E11Rik	0.0023777	0.00846709	0.9884	0.992966	no
Cd300lg	0.0021843	0.00429907	0.9935	0.995526	no
Snapi	0.0021517	0.00686821	0.98835	0.992966	no
Tmem182	0.00198885	0	1	1	no
Fam179b	0.00195909	0.00890111	0.9859	0.99128	no
Eif4g1	0.0019325	0.00885356	0.9856	0.991279	no
Pnpla2	0.00189391	0.00682728	0.99005	0.993795	no
Trim8	0.00188851	0.00812296	0.98875	0.993167	no
Syt16	0.00188331	0.00432641	0.9937	0.995601	no
Pnpla6	0.0018353	0.0080234	0.9867	0.991759	no
Tmem88	0.00173078	0.00144594	0.9943	0.995876	no
Gm19299	0.00169743	0	1	1	no
Fis1	0.00159588	0.00694476	0.98935	0.993393	no
Naga	0.00153206	0.00555971	0.9903	0.993971	no

Ddx1	0.00140409	0.00710633	0.9892	0.993393	no
Fbxw15	0.00137578	0	1	1	no
Ube2d2a	0.00137515	0.00660669	0.9906	0.994197	no
Polr3g	0.00132861	0.00634112	0.9896	0.993419	no
Gfra1	0.0012762	0.00594339	0.99135	0.994649	no
Sap30	0.00125786	0.00190603	0.9847	0.990774	no
Dnajc11	0.00125234	0.00550223	0.99235	0.995125	no
C1qbp	0.00116778	0.00450233	0.99375	0.995601	no
Mfsd1	0.00115597	0.0052282	0.9916	0.994824	no
Ammechr1l	0.00100602	0.00424745	0.9926	0.995301	no
Ppp6c	0.00098953	0.00445092	0.9939	0.995626	no
Scfd1	0.00093104	0.00393139	0.9938	0.995601	no
Nubp2	0.00087278	0.00352781	0.99685	0.997527	no
Rspry1	0.00082045	0.00336814	0.99415	0.995801	no
Asphd2	0.00081597	0.00297455	0.9968	0.997527	no
Hiat1	0.00070944	0.00315784	0.99545	0.996502	no
Acer3	0.00068203	0.00252943	0.99735	0.997651	no
Fmn1	0.00055617	0.00247041	0.99615	0.997127	no
Drosha	0.00051456	0.00227478	0.9975	0.997726	no
Zfp956	0.00050679	0.00093478	0.99275	0.995301	no
Acad11	0.00047848	0.00163117	0.99695	0.997552	no
Tusc1	0.00047054	0.0007529	0.9859	0.99128	no
D10Jhu81e	0.00042222	0.0020339	0.99845	0.99845	no
Asb14	5.61E-05	0	1	1	no
0610005C13Rik	0	0	1	1	no
0610031O16Rik	0	0	1	1	no
0610039K10Rik	0	0	1	1	no
1010001N08Rik	0	0	1	1	no
1110025L11Rik	0	0	1	1	no
1110028F11Rik	0	0	1	1	no
1110036E04Rik	0	0	1	1	no
1190003K10Rik	0	0	1	1	no
1500015L24Rik	0	0	1	1	no
1600002D24Rik	0	0	1	1	no
1600014C23Rik	0	0	1	1	no
1600014K23Rik	0	0	1	1	no
1600015I10Rik	0	0	1	1	no
1600025M17Rik	0	0	1	1	no
1700001C02Rik	0	0	1	1	no
1700001D01Rik	0	0	1	1	no
1700001F09Rik	0	0	1	1	no
1700001J03Rik	0	0	1	1	no
1700001K19Rik	0	0	1	1	no
1700001P01Rik	0	0	1	1	no
1700003C15Rik	0	0	1	1	no
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4930529K09Rik	0	0	1	1	no
4930529L06Rik	0	0	1	1	no
4930532M18Rik	0	0	1	1	no

4930533B01Rik	0	0	1	1	no
4930533P14Rik	0	0	1	1	no
4930539C22Rik	0	0	1	1	no
4930539N22Rik	0	0	1	1	no
4930540M03Rik	0	0	1	1	no
4930542D17Rik	0	0	1	1	no
4930543E12Rik	0	0	1	1	no
4930544D05Rik	0	0	1	1	no
4930544G11Rik	0	0	1	1	no
4930545E07Rik	0	0	1	1	no
4930545H06Rik	0	0	1	1	no
4930547E08Rik	0	0	1	1	no
4930547E14Rik	0	0	1	1	no
4930548G14Rik	0	0	1	1	no
4930548H24Rik	0	0	1	1	no
4930548J01Rik	0	0	1	1	no
4930548K13Rik	0	0	1	1	no
4930549C01Rik	0	0	1	1	no
4930549G23Rik	0	0	1	1	no
4930552N02Rik	0	0	1	1	no
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4930553E22Rik	0	0	1	1	no
4930554C24Rik	0	0	1	1	no
4930555G01Rik	0	0	1	1	no
4930556C24Rik	0	0	1	1	no
4930556G01Rik	0	0	1	1	no
4930556J02Rik	0	0	1	1	no
4930557A04Rik	0	0	1	1	no
4930557J02Rik	0	0	1	1	no
4930558C23Rik	0	0	1	1	no
4930558G05Rik	0	0	1	1	no
4930558K02Rik	0	0	1	1	no
4930562C15Rik	0	0	1	1	no
4930562F07Rik	0	0	1	1	no
4930563D23Rik	0	0	1	1	no
4930563F08Rik	0	0	1	1	no
4930563M20Rik	0	0	1	1	no
4930564B18Rik	0	0	1	1	no
4930564C03Rik	0	0	1	1	no
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4930565N06Rik	0	0	1	1	no
4930567H12Rik	0	0	1	1	no
4930567H17Rik	0	0	1	1	no
4930567J20Rik	0	0	1	1	no
4930567K20Rik	0	0	1	1	no
4930568D16Rik	0	0	1	1	no
4930568E12Rik	0	0	1	1	no
4930571K23Rik	0	0	1	1	no
4930571O06Rik	0	0	1	1	no
4930572K03Rik	0	0	1	1	no
4930572O03Rik	0	0	1	1	no
4930572O13Rik	0	0	1	1	no

4930573O16Rik	0	0	1	1	no
4930578E11Rik	0	0	1	1	no
4930578I06Rik	0	0	1	1	no
4930578N18Rik	0	0	1	1	no
4930583P06Rik	0	0	1	1	no
4930584F24Rik	0	0	1	1	no
4930590L20Rik	0	0	1	1	no
4930591A17Rik	0	0	1	1	no
4930592A05Rik	0	0	1	1	no
4930592I03Rik	0	0	1	1	no
4930593A02Rik	0	0	1	1	no
4930593C16Rik	0	0	1	1	no
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4930597G03Rik	0	0	1	1	no
4930598F16Rik	0	0	1	1	no
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4931403E22Rik	0	0	1	1	no
4931403G20Rik	0	0	1	1	no
4931408C20Rik	0	0	1	1	no
4931412M21	0	0	1	1	no
4931417E11Rik	0	0	1	1	no
4931419H13Rik	0	0	1	1	no
4931420L22Rik	0	0	1	1	no
4931428L18Rik	0	0	1	1	no
4931429L15Rik	0	0	1	1	no
4931430N09Rik	0	0	1	1	no
4931431B13Rik	0	0	1	1	no
4931431F19Rik	0	0	1	1	no
4931440L10Rik	0	0	1	1	no
4932411N23Rik	0	0	1	1	no
4932413F04Rik	0	0	1	1	no
4932414J04Rik	0	0	1	1	no
4932415M13Rik	0	0	1	1	no
4932416K20Rik	0	0	1	1	no
4932429P05Rik	0	0	1	1	no
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4933402P03Rik	0	0	1	1	no
4933404G15Rik	0	0	1	1	no
4933404K08Rik	0	0	1	1	no
4933405E24Rik	0	0	1	1	no
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4933406D12Rik	0	0	1	1	no
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4933406J10Rik	0	0	1	1	no
4933406K04Rik	0	0	1	1	no
4933407E24Rik	0	0	1	1	no
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4933417A18Rik	0	0	1	1	no
4933417E11Rik	0	0	1	1	no
4933417G07Rik	0	0	1	1	no
4933417O13Rik	0	0	1	1	no
4933421I07Rik	0	0	1	1	no
4933425B07Rik	0	0	1	1	no
4933427E13Rik	0	0	1	1	no
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4933428G20Rik	0	0	1	1	no
4933429K18Rik	0	0	1	1	no
4933429O19Rik	0	0	1	1	no
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4933440M02Rik	0	0	1	1	no
5031410I06Rik	0	0	1	1	no
5031434C07Rik	0	0	1	1	no
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5033404E19Rik	0	0	1	1	no
5133400J02Rik	0	0	1	1	no
5330411J11Rik	0	0	1	1	no
5330439B14Rik	0	0	1	1	no
5430401F13Rik	0	0	1	1	no
5430402E10Rik	0	0	1	1	no
5430403N17Rik	0	0	1	1	no
5430425K12Rik	0	0	1	1	no

5430427M07Rik	0	0	1	1	no
5430428K19Rik	0	0	1	1	no
5430434I15Rik	0	0	1	1	no
5530400C23Rik	0	0	1	1	no
5730412P04Rik	0	0	1	1	no
5730416F02Rik	0	0	1	1	no
5730457N03Rik	0	0	1	1	no
5730488B01Rik	0	0	1	1	no
5830411N06Rik	0	0	1	1	no
6030440G07Rik	0	0	1	1	no
6030469F06Rik	0	0	1	1	no
6330407A03Rik	0	0	1	1	no
6430503K07Rik	0	0	1	1	no
6430584L05Rik	0	0	1	1	no
7420426K07Rik	0	0	1	1	no
7420461P10Rik	0	0	1	1	no
7420700N18Rik	0	0	1	1	no
7420701I03Rik	0	0	1	1	no
7530416G11Rik	0	0	1	1	no
8030411F24Rik	0	0	1	1	no
8030442B05Rik	0	0	1	1	no
8030443G20Rik	0	0	1	1	no
8430423G03Rik	0	0	1	1	no
8430436N08Rik	0	0	1	1	no
8430437L04Rik	0	0	1	1	no
9030204H09Rik	0	0	1	1	no
9030625G05Rik	0	0	1	1	no
9130015A21Rik	0	0	1	1	no
9130015L21Rik	0	0	1	1	no
9130209A04Rik	0	0	1	1	no
9130221F21Rik	0	0	1	1	no
9130230L23Rik	0	0	1	1	no
9230009I02Rik	0	0	1	1	no
9230102K24Rik	0	0	1	1	no
9230102O04Rik	0	0	1	1	no
9230104L09Rik	0	0	1	1	no
9230110F15Rik	0	0	1	1	no
9230112D13Rik	0	0	1	1	no
9330162B11Rik	0	0	1	1	no
9330178D15Rik	0	0	1	1	no
9330182O14Rik	0	0	1	1	no
9430007A20Rik	0	0	1	1	no
9430014N10Rik	0	0	1	1	no
9430019J16Rik	0	0	1	1	no
9430069I07Rik	0	0	1	1	no
9530002B09Rik	0	0	1	1	no
9530003J23Rik	0	0	1	1	no
9530026F06Rik	0	0	1	1	no
9630028H03Rik	0	0	1	1	no
9830166K06Rik	0	0	1	1	no
9930111H07Rik	0	0	1	1	no
9930111J21Rik2	0	0	1	1	no
A1bg	0	0	1	1	no

A230108P19Rik	0	0	1	1	no
A430088P11Rik	0	0	1	1	no
A430089I19Rik	0	0	1	1	no
A430107P09Rik	0	0	1	1	no
A4gnt	0	0	1	1	no
A530006G24Rik	0	0	1	1	no
A530013C23Rik	0	0	1	1	no
A530046M15Rik	0	0	1	1	no
A530053G22Rik	0	0	1	1	no
A530065N20Rik	0	0	1	1	no
A630010A05Rik	0	0	1	1	no
A630012P03Rik	0	0	1	1	no
A630019I02Rik	0	0	1	1	no
A630073D07Rik	0	0	1	1	no
A630076J17Rik	0	0	1	1	no
A630095E13Rik	0	0	1	1	no
A630095N17Rik	0	0	1	1	no
A730006G06Rik	0	0	1	1	no
A730018C14Rik	0	0	1	1	no
A730090H04Rik	0	0	1	1	no
A930018P22Rik	0	0	1	1	no
A930041C12Rik	0	0	1	1	no
AA413626	0	0	1	1	no
AA543401	0	0	1	1	no
AA545190	0	0	1	1	no
AA619741	0	0	1	1	no
AA792892	0	0	1	1	no
AF067061	0	0	1	1	no
AF067063	0	0	1	1	no
AF357355	0	0	1	1	no
AF357359	0	0	1	1	no
AF357399	0	0	1	1	no
AF357425	0	0	1	1	no
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AF366264	0	0	1	1	no
AI314278	0	0	1	1	no
AI507597	0	0	1	1	no
AI606473	0	0	1	1	no
AI646519	0	0	1	1	no
AI747448	0	0	1	1	no
AU015228	0	0	1	1	no
AU015791	0	0	1	1	no
AU016765	0	0	1	1	no
AU018091	0	0	1	1	no
AU018829,Gm1636	0	0	1	1	no
AU021063	0	0	1	1	no
AU022751	0	0	1	1	no
AV320801,Gm1502	0	0	1	1	no
AY074887	0	0	1	1	no
AY512915	0	0	1	1	no
AY512931	0	0	1	1	no
AY761184	0	0	1	1	no
AY761185	0	0	1	1	no

Aadac	0	0	1	1	no
Aadacl2	0	0	1	1	no
Aadacl3	0	0	1	1	no
Abca15	0	0	1	1	no
Abca16	0	0	1	1	no
Abcb5	0	0	1	1	no
Abhd12b	0	0	1	1	no
Ace3	0	0	1	1	no
Acer1	0	0	1	1	no
Acnat1	0	0	1	1	no
Acnat2	0	0	1	1	no
Acpt	0	0	1	1	no
Acrv1	0	0	1	1	no
Acsbg2	0	0	1	1	no
Acsm1	0	0	1	1	no
Acsm2	0	0	1	1	no
Acsm4	0	0	1	1	no
Acsm5	0	0	1	1	no
Acss2os	0	0	1	1	no
Actl11	0	0	1	1	no
Actl7a	0	0	1	1	no
Actrt1	0	0	1	1	no
Actrt2	0	0	1	1	no
Adad1	0	0	1	1	no
Adad2	0	0	1	1	no
Adam1b	0	0	1	1	no
Adam20	0	0	1	1	no
Adam26a	0	0	1	1	no
Adam26b	0	0	1	1	no
Adam29	0	0	1	1	no
Adam3	0	0	1	1	no
Adam30	0	0	1	1	no
Adam34	0	0	1	1	no
Adam39	0	0	1	1	no
Adam6a	0	0	1	1	no
Adam6b	0	0	1	1	no
Adh4	0	0	1	1	no
Adh6-ps1	0	0	1	1	no
Adh6a	0	0	1	1	no
Afm	0	0	1	1	no
Agr3	0	0	1	1	no
Agxt	0	0	1	1	no
Agxt2	0	0	1	1	no
Aipl1	0	0	1	1	no
Akap4	0	0	1	1	no
Akp3	0	0	1	1	no
Akr1c12	0	0	1	1	no
Akr1c18	0	0	1	1	no
Akr1c20	0	0	1	1	no
Akr1c21	0	0	1	1	no
Akr1c6	0	0	1	1	no
Akr1cl	0	0	1	1	no
Akr1d1	0	0	1	1	no

Alb	0	0	1	1	no
Allc	0	0	1	1	no
Alms1-ps2	0	0	1	1	no
Alox12e	0	0	1	1	no
Alpi	0	0	1	1	no
Alpl2	0	0	1	1	no
Ambp	0	0	1	1	no
Amelx	0	0	1	1	no
Amtn	0	0	1	1	no
Amy2a2,Amy2a5	0	0	1	1	no
Amy2a5	0	0	1	1	no
Amy2b	0	0	1	1	no
Ang2	0	0	1	1	no
Ang3,Ang5	0	0	1	1	no
Ang4	0	0	1	1	no
Ang5	0	0	1	1	no
Ang6	0	0	1	1	no
Angptl3	0	0	1	1	no
Ankar	0	0	1	1	no
Ankrd36	0	0	1	1	no
Ankrd53	0	0	1	1	no
Anks4b	0	0	1	1	no
Antxrl	0	0	1	1	no
Anxa13	0	0	1	1	no
Apcs	0	0	1	1	no
Apoa4	0	0	1	1	no
Apoa5	0	0	1	1	no
Apobec4	0	0	1	1	no
Apoc3	0	0	1	1	no
Apoc4	0	0	1	1	no
Apol7c	0	0	1	1	no
Apom	0	0	1	1	no
Apoo-ps	0	0	1	1	no
Aqp6	0	0	1	1	no
Arhgap20os	0	0	1	1	no
Arhgap27os3	0	0	1	1	no
Arhgef38	0	0	1	1	no
Arid3c	0	0	1	1	no
Arl13a	0	0	1	1	no
Arl14	0	0	1	1	no
Armc12	0	0	1	1	no
Arrdc5	0	0	1	1	no
Art2a-ps	0	0	1	1	no
Ascl1	0	0	1	1	no
Ascl5	0	0	1	1	no
Asic5	0	0	1	1	no
Asmt	0	0	1	1	no
Astl	0	0	1	1	no
Asz1	0	0	1	1	no
Atcayos	0	0	1	1	no
Atf7ip2	0	0	1	1	no
Atoh1	0	0	1	1	no
Atoh7	0	0	1	1	no

Atp6v0c-ps2	0	0	1	1	no
Atp6v1b1	0	0	1	1	no
Atp6v1e2	0	0	1	1	no
Atp6v1g3	0	0	1	1	no
Aurkc	0	0	1	1	no
Avp	0	0	1	1	no
Avpr2	0	0	1	1	no
Awat1	0	0	1	1	no
Aym1	0	0	1	1	no
B020004C17Rik	0	0	1	1	no
B020004J07Rik	0	0	1	1	no
B020014A21Rik	0	0	1	1	no
B020031M17Rik	0	0	1	1	no
B930025P03Rik	0	0	1	1	no
BB014433	0	0	1	1	no
BB019430	0	0	1	1	no
BB031773	0	0	1	1	no
BB287469	0	0	1	1	no
BC030499	0	0	1	1	no
BC039966	0	0	1	1	no
BC048502	0	0	1	1	no
BC048507	0	0	1	1	no
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BC048602	0	0	1	1	no
BC048609	0	0	1	1	no
BC048671	0	0	1	1	no
BC049730	0	0	1	1	no
BC051537	0	0	1	1	no
BC051665	0	0	1	1	no
BC052688	0	0	1	1	no
BC053393	0	0	1	1	no
BC055402	0	0	1	1	no
BC061195	0	0	1	1	no
BC061212	0	0	1	1	no
BC061237	0	0	1	1	no
BC080695	0	0	1	1	no
BC100530	0	0	1	1	no
BC117090	0	0	1	1	no
Banf2	0	0	1	1	no
Bc1	0	0	1	1	no
Bcas1os2	0	0	1	1	no
Bcas3os1	0	0	1	1	no
Bcas3os2	0	0	1	1	no
Bcl2a1a	0	0	1	1	no
Bcl2a1c	0	0	1	1	no
Becn2	0	0	1	1	no
Bex6	0	0	1	1	no
Bglap3	0	0	1	1	no
Birc7	0	0	1	1	no
Bmp10	0	0	1	1	no
Boll	0	0	1	1	no
Bpi	0	0	1	1	no
Bpifa1	0	0	1	1	no

Bpifa3	0	0	1	1	no
Bpifa6	0	0	1	1	no
Bpifb2	0	0	1	1	no
Bpifb3	0	0	1	1	no
Bpifb9a	0	0	1	1	no
Bpifb9b	0	0	1	1	no
Brs3	0	0	1	1	no
Bsnd	0	0	1	1	no
Bsph1	0	0	1	1	no
Bsph2	0	0	1	1	no
Btg4	0	0	1	1	no
Btnl2	0	0	1	1	no
Btnl4	0	0	1	1	no
C030007H22Rik	0	0	1	1	no
C030013G03Rik	0	0	1	1	no
C030018K13Rik	0	0	1	1	no
C030029H02Rik	0	0	1	1	no
C130026I21Rik	0	0	1	1	no
C130079G13Rik	0	0	1	1	no
C1rb	0	0	1	1	no
C230024C17Rik	0	0	1	1	no
C230079O03Rik	0	0	1	1	no
C330011F03Rik	0	0	1	1	no
C330013F16Rik	0	0	1	1	no
C330022C24Rik	0	0	1	1	no
C330046G13Rik	0	0	1	1	no
C430002E04Rik	0	0	1	1	no
C4bp	0	0	1	1	no
C630028M04Rik	0	0	1	1	no
C86187	0	0	1	1	no
C86695	0	0	1	1	no
C87198	0	0	1	1	no
C87414	0	0	1	1	no
C87499	0	0	1	1	no
C87977	0	0	1	1	no
Cabp2	0	0	1	1	no
Cabs1	0	0	1	1	no
Cacng6	0	0	1	1	no
Calcr	0	0	1	1	no
Calhm1	0	0	1	1	no
Calm4	0	0	1	1	no
Calm5	0	0	1	1	no
Calml3	0	0	1	1	no
Capza3	0	0	1	1	no
Casp14	0	0	1	1	no
Catsper1	0	0	1	1	no
Catsperb	0	0	1	1	no
Catsperg2	0	0	1	1	no
Ccdc110	0	0	1	1	no
Ccdc135	0	0	1	1	no
Ccdc144b	0	0	1	1	no
Ccdc152	0	0	1	1	no
Ccdc154	0	0	1	1	no

Ccdc183	0	0	1	1	no
Ccdc34os	0	0	1	1	no
Ccdc42b	0	0	1	1	no
Ccdc70	0	0	1	1	no
Ccl17	0	0	1	1	no
Ccl20	0	0	1	1	no
Ccl26	0	0	1	1	no
Ccl27b	0	0	1	1	no
Ccr11l	0	0	1	1	no
Ccr6	0	0	1	1	no
Cd209c	0	0	1	1	no
Cd209d	0	0	1	1	no
Cd300c	0	0	1	1	no
Cd300lh,Gm11710	0	0	1	1	no
Cd40lg	0	0	1	1	no
Cdh16	0	0	1	1	no
Cdhr5	0	0	1	1	no
Cdx2	0	0	1	1	no
Cdx4	0	0	1	1	no
Ceacam-ps1	0	0	1	1	no
Ceacam11	0	0	1	1	no
Ceacam12	0	0	1	1	no
Ceacam13	0	0	1	1	no
Ceacam14	0	0	1	1	no
Ceacam18	0	0	1	1	no
Ceacam19	0	0	1	1	no
Ceacam5	0	0	1	1	no
Ceacam9	0	0	1	1	no
Cela2a	0	0	1	1	no
Cela3b	0	0	1	1	no
Celrr	0	0	1	1	no
Ces1b	0	0	1	1	no
Ces1c	0	0	1	1	no
Ces1e	0	0	1	1	no
Ces1f	0	0	1	1	no
Ces1g	0	0	1	1	no
Ces2a	0	0	1	1	no
Ces2b	0	0	1	1	no
Ces2d-ps	0	0	1	1	no
Ces2f	0	0	1	1	no
Ces2h	0	0	1	1	no
Ces3a	0	0	1	1	no
Ces3b	0	0	1	1	no
Cetn1	0	0	1	1	no
Cfc1	0	0	1	1	no
Cfhr1	0	0	1	1	no
Cga	0	0	1	1	no
Chat	0	0	1	1	no
Chil4	0	0	1	1	no
Chrna9	0	0	1	1	no
Chst13	0	0	1	1	no
Cib4	0	0	1	1	no
Cistr-act	0	0	1	1	no

Cks1brt	0	0	1	1	no
Clcnka	0	0	1	1	no
Cldn17	0	0	1	1	no
Cldn18	0	0	1	1	no
Cldn24	0	0	1	1	no
Cldn4	0	0	1	1	no
Cldnd2	0	0	1	1	no
Clec2f	0	0	1	1	no
Clec2g	0	0	1	1	no
Clec4a4	0	0	1	1	no
Clec4g	0	0	1	1	no
Clps	0	0	1	1	no
Clpsl2	0	0	1	1	no
Clrn3	0	0	1	1	no
Cma2	0	0	1	1	no
Cml5	0	0	1	1	no
Cmtm1	0	0	1	1	no
Cmtm2a	0	0	1	1	no
Cmtm2b	0	0	1	1	no
Cngb3	0	0	1	1	no
Cnpy1	0	0	1	1	no
Cort	0	0	1	1	no
Cox8c	0	0	1	1	no
Cpa1	0	0	1	1	no
Cpa5	0	0	1	1	no
Cpb2	0	0	1	1	no
Cpsf4l	0	0	1	1	no
Cpxcr1	0	0	1	1	no
Crisp2	0	0	1	1	no
Crisp3	0	0	1	1	no
Crisp4	0	0	1	1	no
Crnn	0	0	1	1	no
Crxos	0	0	1	1	no
Cryaa	0	0	1	1	no
Cryba1	0	0	1	1	no
Crygb	0	0	1	1	no
Crygc	0	0	1	1	no
Crygd	0	0	1	1	no
Cryge	0	0	1	1	no
Crygf	0	0	1	1	no
Csf2	0	0	1	1	no
Csmd2os	0	0	1	1	no
Csn1s1	0	0	1	1	no
Csn1s2b	0	0	1	1	no
Csn2	0	0	1	1	no
Csn3	0	0	1	1	no
Csnka2ip	0	0	1	1	no
Cst10	0	0	1	1	no
Cst11	0	0	1	1	no
Cst13	0	0	1	1	no
Cst8	0	0	1	1	no
Cst9	0	0	1	1	no
Csta1	0	0	1	1	no

Ctag2	0	0	1	1	no
Ctf2	0	0	1	1	no
Ctrc	0	0	1	1	no
Ctrcos	0	0	1	1	no
Cts3	0	0	1	1	no
Cts6	0	0	1	1	no
Cts7	0	0	1	1	no
Cts8	0	0	1	1	no
Cts8-ps	0	0	1	1	no
Ctsj	0	0	1	1	no
Ctsll3	0	0	1	1	no
Ctsm	0	0	1	1	no
Ctsq	0	0	1	1	no
Ctsr	0	0	1	1	no
Cxcl15	0	0	1	1	no
Cxcl17	0	0	1	1	no
Cxcl3	0	0	1	1	no
Cylc1	0	0	1	1	no
Cylc2	0	0	1	1	no
Cym	0	0	1	1	no
Cyp11b1	0	0	1	1	no
Cyp11b2	0	0	1	1	no
Cyp19a1	0	0	1	1	no
Cyp1a2	0	0	1	1	no
Cyp21a1	0	0	1	1	no
Cyp2a12	0	0	1	1	no
Cyp2a22	0	0	1	1	no
Cyp2a4	0	0	1	1	no
Cyp2a5	0	0	1	1	no
Cyp2b13	0	0	1	1	no
Cyp2b19	0	0	1	1	no
Cyp2b23	0	0	1	1	no
Cyp2b9	0	0	1	1	no
Cyp2c29	0	0	1	1	no
Cyp2c37	0	0	1	1	no
Cyp2c38	0	0	1	1	no
Cyp2c39	0	0	1	1	no
Cyp2c40	0	0	1	1	no
Cyp2c50	0	0	1	1	no
Cyp2c53-ps	0	0	1	1	no
Cyp2c54	0	0	1	1	no
Cyp2c67	0	0	1	1	no
Cyp2c68	0	0	1	1	no
Cyp2c69	0	0	1	1	no
Cyp2c70	0	0	1	1	no
Cyp2d10	0	0	1	1	no
Cyp2d11	0	0	1	1	no
Cyp2d12	0	0	1	1	no
Cyp2d13	0	0	1	1	no
Cyp2d34	0	0	1	1	no
Cyp2d37-ps	0	0	1	1	no
Cyp2d40	0	0	1	1	no
Cyp2d9	0	0	1	1	no

Cyp2g1	0	0	1	1	no
Cyp2j11	0	0	1	1	no
Cyp2j5	0	0	1	1	no
Cyp2t4	0	0	1	1	no
Cyp2w1	0	0	1	1	no
Cyp3a11	0	0	1	1	no
Cyp3a16	0	0	1	1	no
Cyp3a25	0	0	1	1	no
Cyp3a41a	0	0	1	1	no
Cyp3a41b	0	0	1	1	no
Cyp3a44	0	0	1	1	no
Cyp3a57	0	0	1	1	no
Cyp3a59	0	0	1	1	no
Cyp4a10	0	0	1	1	no
Cyp4a12a	0	0	1	1	no
Cyp4a12b	0	0	1	1	no
Cyp4a14	0	0	1	1	no
Cyp4a29	0	0	1	1	no
Cyp4a30b	0	0	1	1	no
Cyp4a31	0	0	1	1	no
Cyp4a32	0	0	1	1	no
Cyp4f37	0	0	1	1	no
Cyp4f40	0	0	1	1	no
Cyp7a1	0	0	1	1	no
Cyp8b1	0	0	1	1	no
Cypt1,Cypt8	0	0	1	1	no
Cypt12	0	0	1	1	no
Cypt14	0	0	1	1	no
Cypt15	0	0	1	1	no
Cypt3	0	0	1	1	no
Cypt4,Cypt9	0	0	1	1	no
Cypt7	0	0	1	1	no
Cypt8	0	0	1	1	no
Cypt9	0	0	1	1	no
D030024E09Rik	0	0	1	1	no
D030040B21Rik	0	0	1	1	no
D130058E03	0	0	1	1	no
D14Erttd670e	0	0	1	1	no
D16Erttd519e	0	0	1	1	no
D17Erttd648e	0	0	1	1	no
D530049I02Rik	0	0	1	1	no
D5Erttd577e,Gm328	0	0	1	1	no
D630010B17Rik	0	0	1	1	no
D630013N20Rik	0	0	1	1	no
D730001G18Rik	0	0	1	1	no
D730048I06Rik	0	0	1	1	no
D730050B12Rik	0	0	1	1	no
D7Erttd143e	0	0	1	1	no
D830005E20Rik	0	0	1	1	no
D830015G02Rik	0	0	1	1	no
D930007P13Rik	0	0	1	1	no
D930032P07Rik	0	0	1	1	no
DQ267100	0	0	1	1	no

DQ267101	0	0	1	1	no
DQ267102	0	0	1	1	no
DXBay18,Gm14685	0	0	1	1	no
Dao	0	0	1	1	no
Dbx1	0	0	1	1	no
Dcdc2c	0	0	1	1	no
Dcpp1	0	0	1	1	no
Dcpp2	0	0	1	1	no
Dcpp3	0	0	1	1	no
Dcst1	0	0	1	1	no
Ddi1	0	0	1	1	no
Defa-ps1	0	0	1	1	no
Defa-ps12	0	0	1	1	no
Defa-ps13	0	0	1	1	no
Defa-rs1	0	0	1	1	no
Defa-rs7,Defa23	0	0	1	1	no
Defa17	0	0	1	1	no
Defa2	0	0	1	1	no
Defa20	0	0	1	1	no
Defa21	0	0	1	1	no
Defa22	0	0	1	1	no
Defa23	0	0	1	1	no
Defa24,Defa6	0	0	1	1	no
Defa25	0	0	1	1	no
Defa26	0	0	1	1	no
Defa3	0	0	1	1	no
Defa4	0	0	1	1	no
Defa5	0	0	1	1	no
Defa6	0	0	1	1	no
Defb1	0	0	1	1	no
Defb10	0	0	1	1	no
Defb11	0	0	1	1	no
Defb12	0	0	1	1	no
Defb13	0	0	1	1	no
Defb14	0	0	1	1	no
Defb15	0	0	1	1	no
Defb18	0	0	1	1	no
Defb19	0	0	1	1	no
Defb2	0	0	1	1	no
Defb21	0	0	1	1	no
Defb22	0	0	1	1	no
Defb23	0	0	1	1	no
Defb25	0	0	1	1	no
Defb26	0	0	1	1	no
Defb29	0	0	1	1	no
Defb3	0	0	1	1	no
Defb33	0	0	1	1	no
Defb34	0	0	1	1	no
Defb35	0	0	1	1	no
Defb36	0	0	1	1	no
Defb37	0	0	1	1	no
Defb38	0	0	1	1	no
Defb39	0	0	1	1	no

Defb4	0	0	1	1	no
Defb40	0	0	1	1	no
Defb41	0	0	1	1	no
Defb43	0	0	1	1	no
Defb44-ps	0	0	1	1	no
Defb45	0	0	1	1	no
Defb46	0	0	1	1	no
Defb47	0	0	1	1	no
Defb48	0	0	1	1	no
Defb5	0	0	1	1	no
Defb50	0	0	1	1	no
Defb6	0	0	1	1	no
Defb7	0	0	1	1	no
Defb8	0	0	1	1	no
Defb9	0	0	1	1	no
Dgat2l6	0	0	1	1	no
Dio1	0	0	1	1	no
Dkk1	0	0	1	1	no
Dkk4	0	0	1	1	no
Dlx1as	0	0	1	1	no
Dlx6as2	0	0	1	1	no
Dlx6os1	0	0	1	1	no
Dmrt3	0	0	1	1	no
Dmrta1b	0	0	1	1	no
Dmrta1c2	0	0	1	1	no
Dmrta2	0	0	1	1	no
Dnajb8	0	0	1	1	no
Dnajc5g	0	0	1	1	no
Dnase1	0	0	1	1	no
Dnmt3aos	0	0	1	1	no
Doxl2	0	0	1	1	no
Dpcr1	0	0	1	1	no
Dppa1	0	0	1	1	no
Dppa3	0	0	1	1	no
Dppa4	0	0	1	1	no
Drd4	0	0	1	1	no
Dreh	0	0	1	1	no
Dsg3	0	0	1	1	no
Dsg4	0	0	1	1	no
Dthd1	0	0	1	1	no
Dusp21	0	0	1	1	no
Dux	0	0	1	1	no
Dydc1	0	0	1	1	no
E030002O03Rik	0	0	1	1	no
E030018B13Rik	0	0	1	1	no
E030019B13Rik	0	0	1	1	no
E030025P04Rik	0	0	1	1	no
E030044B06Rik	0	0	1	1	no
E130218I03Rik	0	0	1	1	no
E230019M04Rik	0	0	1	1	no
E330012B07Rik	0	0	1	1	no
E330014E10Rik,Gn	0	0	1	1	no
E330020D12Rik	0	0	1	1	no

E330023G01Rik	0	0	1	1	no
Ear10	0	0	1	1	no
Ear14	0	0	1	1	no
Ear4	0	0	1	1	no
Efcab8	0	0	1	1	no
Egfbp2	0	0	1	1	no
Elovl3	0	0	1	1	no
Emx1	0	0	1	1	no
Emx2	0	0	1	1	no
Emx2os	0	0	1	1	no
En2	0	0	1	1	no
Enam	0	0	1	1	no
Enpp7	0	0	1	1	no
Enthd1	0	0	1	1	no
Entpd8	0	0	1	1	no
Eras	0	0	1	1	no
Ereg	0	0	1	1	no
Erich5	0	0	1	1	no
Erp27	0	0	1	1	no
Esp1	0	0	1	1	no
Esp15	0	0	1	1	no
Esp16	0	0	1	1	no
Esp18	0	0	1	1	no
Esp23	0	0	1	1	no
Esp24	0	0	1	1	no
Esp3	0	0	1	1	no
Esp31	0	0	1	1	no
Esp34	0	0	1	1	no
Esp36	0	0	1	1	no
Esp38	0	0	1	1	no
Esp4	0	0	1	1	no
Esp5	0	0	1	1	no
Esp6	0	0	1	1	no
Esp6-esp5	0	0	1	1	no
Esx1	0	0	1	1	no
Etd	0	0	1	1	no
Etv2	0	0	1	1	no
Evx1	0	0	1	1	no
Evx2	0	0	1	1	no
F10	0	0	1	1	no
F11	0	0	1	1	no
F13b	0	0	1	1	no
F630111L10Rik	0	0	1	1	no
F630206G17Rik	0	0	1	1	no
F730035M05Rik	0	0	1	1	no
F830045P16Rik	0	0	1	1	no
Fabp12	0	0	1	1	no
Fabp2	0	0	1	1	no
Fabp6	0	0	1	1	no
Fabp9	0	0	1	1	no
Fam115e	0	0	1	1	no
Fam122c	0	0	1	1	no
Fam150a	0	0	1	1	no

Fam151a	0	0	1	1	no
Fam154a	0	0	1	1	no
Fam162b	0	0	1	1	no
Fam170a	0	0	1	1	no
Fam170b	0	0	1	1	no
Fam209	0	0	1	1	no
Fam24a	0	0	1	1	no
Fam25c	0	0	1	1	no
Fam46d	0	0	1	1	no
Fam47c	0	0	1	1	no
Fam50b	0	0	1	1	no
Fam71b	0	0	1	1	no
Fam71d	0	0	1	1	no
Fam71f1	0	0	1	1	no
Fam83c	0	0	1	1	no
Fancd2os	0	0	1	1	no
Fbxo39	0	0	1	1	no
Fbxw13	0	0	1	1	no
Fbxw14	0	0	1	1	no
Fbxw18	0	0	1	1	no
Fbxw19	0	0	1	1	no
Fbxw20	0	0	1	1	no
Fbxw21	0	0	1	1	no
Fbxw22	0	0	1	1	no
Fbxw24	0	0	1	1	no
Fbxw26	0	0	1	1	no
Fbxw28	0	0	1	1	no
Fcrl5	0	0	1	1	no
Fcrl6	0	0	1	1	no
Ferd3l	0	0	1	1	no
Fezf1	0	0	1	1	no
Fezf2	0	0	1	1	no
Ffar2	0	0	1	1	no
Fgb	0	0	1	1	no
Fgf15	0	0	1	1	no
Fgf20	0	0	1	1	no
Fgf6	0	0	1	1	no
Fhad1os1	0	0	1	1	no
Flg2	0	0	1	1	no
Fmo3	0	0	1	1	no
Fnd3c2	0	0	1	1	no
Fndc8	0	0	1	1	no
Foxa2	0	0	1	1	no
Foxa3	0	0	1	1	no
Foxb1	0	0	1	1	no
Foxb2	0	0	1	1	no
Foxe1	0	0	1	1	no
Foxg1	0	0	1	1	no
Foxi1	0	0	1	1	no
Foxr1	0	0	1	1	no
Fpr-rs3	0	0	1	1	no
Fpr-rs4	0	0	1	1	no
Fpr-rs6	0	0	1	1	no

Fpr3	0	0	1	1	no
Frem3	0	0	1	1	no
Frmpd1os	0	0	1	1	no
Fscb	0	0	1	1	no
Fscn3	0	0	1	1	no
Fshb	0	0	1	1	no
Ftcd	0	0	1	1	no
Fthl17	0	0	1	1	no
Ftmt	0	0	1	1	no
Fut4-ps1	0	0	1	1	no
G630055G22Rik	0	0	1	1	no
G630071F17Rik	0	0	1	1	no
G630093K05Rik	0	0	1	1	no
G6bos	0	0	1	1	no
G6pc	0	0	1	1	no
G6pc2	0	0	1	1	no
Gabra6	0	0	1	1	no
Galnt15	0	0	1	1	no
Galp	0	0	1	1	no
Gas2l2	0	0	1	1	no
Gast	0	0	1	1	no
Gata5	0	0	1	1	no
Gata5os	0	0	1	1	no
Gbp2b	0	0	1	1	no
Gcgr	0	0	1	1	no
Gckr	0	0	1	1	no
Gcm1	0	0	1	1	no
Gcm2	0	0	1	1	no
Gcnt3	0	0	1	1	no
Gdf3	0	0	1	1	no
Gfi1	0	0	1	1	no
Gh	0	0	1	1	no
Ghrh	0	0	1	1	no
Ghrhr	0	0	1	1	no
Ghrl	0	0	1	1	no
Gif	0	0	1	1	no
Gip	0	0	1	1	no
Gipr	0	0	1	1	no
Gja8	0	0	1	1	no
Gjd3	0	0	1	1	no
Gjd4	0	0	1	1	no
Gje1	0	0	1	1	no
Gk2	0	0	1	1	no
Gkn1	0	0	1	1	no
Gkn2	0	0	1	1	no
Glipr1l1	0	0	1	1	no
Glipr1l2	0	0	1	1	no
Glrp1	0	0	1	1	no
Glt6d1	0	0	1	1	no
Glycam1	0	0	1	1	no
Gm10007	0	0	1	1	no
Gm10024	0	0	1	1	no
Gm10052	0	0	1	1	no

Gm10057	0	0	1	1	no
Gm10058,Gm1009	0	0	1	1	no
Gm10081	0	0	1	1	no
Gm10094,Sap18	0	0	1	1	no
Gm10096,Gm1048	0	0	1	1	no
Gm101	0	0	1	1	no
Gm10100	0	0	1	1	no
Gm10104	0	0	1	1	no
Gm10142	0	0	1	1	no
Gm10147,Gm1481	0	0	1	1	no
Gm10220	0	0	1	1	no
Gm10228	0	0	1	1	no
Gm10229	0	0	1	1	no
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Gpx5	0	0	1	1	no
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Grip1os2	0	0	1	1	no
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Gsx2	0	0	1	1	no
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Guca2a	0	0	1	1	no
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Gucy1b2	0	0	1	1	no
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Gykl1	0	0	1	1	no
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H1fnt	0	0	1	1	no
H2-B1	0	0	1	1	no
H2-Ea-ps	0	0	1	1	no
H2-L	0	0	1	1	no
H2-M10.1	0	0	1	1	no
H2-M10.3	0	0	1	1	no
H2-M10.4	0	0	1	1	no
H2-M10.6	0	0	1	1	no
H2-M2	0	0	1	1	no
H2afb1	0	0	1	1	no
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H2afb3	0	0	1	1	no
H2bfm	0	0	1	1	no
H60c	0	0	1	1	no
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Hamp	0	0	1	1	no
Hamp2	0	0	1	1	no
Hand1	0	0	1	1	no
Hand2	0	0	1	1	no
Havcr1	0	0	1	1	no
Hba-x	0	0	1	1	no
Hbb-bh1	0	0	1	1	no
Hbb-bh2	0	0	1	1	no
Hbb-y	0	0	1	1	no
Hcrt	0	0	1	1	no
Hdgfl1	0	0	1	1	no
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Helt	0	0	1	1	no
Hes2	0	0	1	1	no
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Hist1h1t	0	0	1	1	no
Hist1h2aa	0	0	1	1	no
Hist1h2ab	0	0	1	1	no
Hist1h2ba	0	0	1	1	no
Hist1h3h	0	0	1	1	no
Hist1h4b	0	0	1	1	no
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Hmgb1-rs17	0	0	1	1	no
Hnf1a	0	0	1	1	no
Hnf4a	0	0	1	1	no
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Hyal4	0	0	1	1	no
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I730028E13Rik	0	0	1	1	no
Iapp	0	0	1	1	no
Idi2	0	0	1	1	no
Ido1	0	0	1	1	no
Ifi202b	0	0	1	1	no
Ifi2712b	0	0	1	1	no
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Igfl3	0	0	1	1	no
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Il10	0	0	1	1	no
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Il2	0	0	1	1	no
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Il23r	0	0	1	1	no
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Il27	0	0	1	1	no
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Il9	0	0	1	1	no
Itifb	0	0	1	1	no
Inhbc	0	0	1	1	no
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Ins1	0	0	1	1	no
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Irs4	0	0	1	1	no
Irx1	0	0	1	1	no
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Isx	0	0	1	1	no
Itgb1bp2	0	0	1	1	no
Itln1	0	0	1	1	no
Ivl	0	0	1	1	no
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Keg1	0	0	1	1	no
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Kis2	0	0	1	1	no
Klf14	0	0	1	1	no
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Klrb1-ps1	0	0	1	1	no
Kpna7	0	0	1	1	no
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Krt12	0	0	1	1	no
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Ldhc	0	0	1	1	no
Ldlrad2	0	0	1	1	no
Leap2	0	0	1	1	no
Lect2	0	0	1	1	no
Lefty2	0	0	1	1	no
Lelp1	0	0	1	1	no
Lep	0	0	1	1	no

Lgsn	0	0	1	1	no
Lhb	0	0	1	1	no
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Lhx1os	0	0	1	1	no
Lhx2	0	0	1	1	no
Lhx5	0	0	1	1	no
Lipf	0	0	1	1	no
Lkaaear1	0	0	1	1	no
Lmod2	0	0	1	1	no
Lmx1a	0	0	1	1	no
Lpcat2b	0	0	1	1	no
Lrcol1	0	0	1	1	no
Lrit3	0	0	1	1	no
Lrrc19	0	0	1	1	no
Lrrc43	0	0	1	1	no
Lrrc66	0	0	1	1	no
Lrrc74	0	0	1	1	no
Lrtm1	0	0	1	1	no
Luzp4	0	0	1	1	no
Ly6f	0	0	1	1	no
Ly6g5c	0	0	1	1	no
Ly6g6c	0	0	1	1	no
Lyg1	0	0	1	1	no
Lypd3	0	0	1	1	no
Lypd5	0	0	1	1	no
Lypd8	0	0	1	1	no
Lym7os	0	0	1	1	no
Lyzl1	0	0	1	1	no
Lyzl4os	0	0	1	1	no
Lyzl6	0	0	1	1	no
Magea1	0	0	1	1	no
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Marco	0	0	1	1	no
Matn1	0	0	1	1	no
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Mbl1	0	0	1	1	no
Mc2r	0	0	1	1	no
Mcoln3	0	0	1	1	no
Mcpt-ps1	0	0	1	1	no

Mcpt2	0	0	1	1	no
Mcpt9	0	0	1	1	no
Mepe	0	0	1	1	no
Mettl11b	0	0	1	1	no
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Mill1	0	0	1	1	no
Miox	0	0	1	1	no
Mip	0	0	1	1	no
Mir100	0	0	1	1	no
Mir101a	0	0	1	1	no
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Mir105	0	0	1	1	no
Mir106a	0	0	1	1	no
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Mir1224	0	0	1	1	no
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Mir1231	0	0	1	1	no
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Mir124a-1	0	0	1	1	no
Mir124a-2	0	0	1	1	no
Mir124a-3	0	0	1	1	no
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Mir1258	0	0	1	1	no
Mir125a	0	0	1	1	no
Mir125b-1	0	0	1	1	no
Mir125b-2	0	0	1	1	no
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Mir1264	0	0	1	1	no
Mir126b	0	0	1	1	no
Mir127	0	0	1	1	no
Mir128-1	0	0	1	1	no
Mir128-2	0	0	1	1	no
Mir129-1	0	0	1	1	no
Mir129-2	0	0	1	1	no
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Mir130b	0	0	1	1	no
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Mir138-2	0	0	1	1	no
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Mir19b-1	0	0	1	1	no
Mir19b-2	0	0	1	1	no
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Mir1a-2	0	0	1	1	no
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Mir26a-2	0	0	1	1	no
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Mroh4	0	0	1	1	no
Mroh9	0	0	1	1	no
Ms4a10	0	0	1	1	no
Ms4a15	0	0	1	1	no
Ms4a18	0	0	1	1	no

Ms4a5	0	0	1	1	no
Msgn1	0	0	1	1	no
Msemb	0	0	1	1	no
Msx1os	0	0	1	1	no
Msx3	0	0	1	1	no
Mtnr1b	0	0	1	1	no
Muc19	0	0	1	1	no
Muc20	0	0	1	1	no
Muc4	0	0	1	1	no
Muc5ac	0	0	1	1	no
Muc5b	0	0	1	1	no
Muc6	0	0	1	1	no
Muc11	0	0	1	1	no
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Mybphl	0	0	1	1	no
Mycs	0	0	1	1	no
Myod1	0	0	1	1	no
Nags	0	0	1	1	no
Nctc1	0	0	1	1	no
Nek10	0	0	1	1	no
Nell1os	0	0	1	1	no
Neurod2	0	0	1	1	no
Neurod6	0	0	1	1	no
Nipal4	0	0	1	1	no
Nipsnap3a	0	0	1	1	no
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Nkx1-2	0	0	1	1	no
Nkx2-1	0	0	1	1	no
Nkx2-3	0	0	1	1	no
Nkx2-4	0	0	1	1	no
Nkx2-5	0	0	1	1	no
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Nkx2-9	0	0	1	1	no
Nkx3-1	0	0	1	1	no
Nkx3-2	0	0	1	1	no
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Nlrp9c	0	0	1	1	no
Nme9	0	0	1	1	no
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Noto	0	0	1	1	no
Nox3	0	0	1	1	no
Noxa1	0	0	1	1	no
Nphs1os	0	0	1	1	no
Npsr1	0	0	1	1	no
Npvf	0	0	1	1	no
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Nrg3os	0	0	1	1	no
Nron	0	0	1	1	no
Nt5c1b	0	0	1	1	no
Ntf5	0	0	1	1	no
Nup62cl	0	0	1	1	no
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Nutm1	0	0	1	1	no
Nxf7	0	0	1	1	no
Oas1d	0	0	1	1	no
Oaz1-ps	0	0	1	1	no
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Obp2a	0	0	1	1	no
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Odf3l2	0	0	1	1	no
Odf4	0	0	1	1	no
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Olfr827	0	0	1	1	no
Olfr828	0	0	1	1	no
Olfr829	0	0	1	1	no
Olfr830	0	0	1	1	no
Olfr832	0	0	1	1	no
Olfr834	0	0	1	1	no
Olfr835	0	0	1	1	no
Olfr836	0	0	1	1	no
Olfr837	0	0	1	1	no
Olfr843	0	0	1	1	no
Olfr845	0	0	1	1	no
Olfr846	0	0	1	1	no
Olfr847	0	0	1	1	no
Olfr849	0	0	1	1	no

Olfr850	0	0	1	1	no
Olfr851	0	0	1	1	no
Olfr853	0	0	1	1	no
Olfr854	0	0	1	1	no
Olfr855	0	0	1	1	no
Olfr856-ps1	0	0	1	1	no
Olfr857	0	0	1	1	no
Olfr860	0	0	1	1	no
Olfr862	0	0	1	1	no
Olfr866	0	0	1	1	no
Olfr867	0	0	1	1	no
Olfr868	0	0	1	1	no
Olfr869	0	0	1	1	no
Olfr870	0	0	1	1	no
Olfr871	0	0	1	1	no
Olfr872	0	0	1	1	no
Olfr873	0	0	1	1	no
Olfr874	0	0	1	1	no
Olfr875	0	0	1	1	no
Olfr876	0	0	1	1	no
Olfr877	0	0	1	1	no
Olfr878	0	0	1	1	no
Olfr881	0	0	1	1	no
Olfr883	0	0	1	1	no
Olfr884	0	0	1	1	no
Olfr885	0	0	1	1	no
Olfr887	0	0	1	1	no
Olfr888	0	0	1	1	no
Olfr889	0	0	1	1	no
Olfr890	0	0	1	1	no
Olfr891	0	0	1	1	no
Olfr893	0	0	1	1	no
Olfr894	0	0	1	1	no
Olfr895	0	0	1	1	no
Olfr899	0	0	1	1	no
Olfr9	0	0	1	1	no
Olfr90	0	0	1	1	no
Olfr900	0	0	1	1	no
Olfr901	0	0	1	1	no
Olfr902	0	0	1	1	no
Olfr904	0	0	1	1	no
Olfr905	0	0	1	1	no
Olfr906	0	0	1	1	no
Olfr907	0	0	1	1	no
Olfr908	0	0	1	1	no
Olfr91	0	0	1	1	no
Olfr910	0	0	1	1	no
Olfr911-ps1	0	0	1	1	no
Olfr912	0	0	1	1	no
Olfr913	0	0	1	1	no
Olfr914	0	0	1	1	no
Olfr915	0	0	1	1	no
Olfr916	0	0	1	1	no

Olfr918	0	0	1	1	no
Olfr919	0	0	1	1	no
Olfr92	0	0	1	1	no
Olfr921	0	0	1	1	no
Olfr922	0	0	1	1	no
Olfr923	0	0	1	1	no
Olfr924	0	0	1	1	no
Olfr926	0	0	1	1	no
Olfr93	0	0	1	1	no
Olfr930	0	0	1	1	no
Olfr933	0	0	1	1	no
Olfr934	0	0	1	1	no
Olfr935	0	0	1	1	no
Olfr936	0	0	1	1	no
Olfr937	0	0	1	1	no
Olfr938	0	0	1	1	no
Olfr94	0	0	1	1	no
Olfr943	0	0	1	1	no
Olfr944	0	0	1	1	no
Olfr945	0	0	1	1	no
Olfr947-ps1	0	0	1	1	no
Olfr948	0	0	1	1	no
Olfr95	0	0	1	1	no
Olfr951	0	0	1	1	no
Olfr952	0	0	1	1	no
Olfr954	0	0	1	1	no
Olfr955	0	0	1	1	no
Olfr957	0	0	1	1	no
Olfr958	0	0	1	1	no
Olfr959	0	0	1	1	no
Olfr96	0	0	1	1	no
Olfr960	0	0	1	1	no
Olfr961	0	0	1	1	no
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Olfr967	0	0	1	1	no
Olfr968	0	0	1	1	no
Olfr969	0	0	1	1	no
Olfr97	0	0	1	1	no
Olfr970	0	0	1	1	no
Olfr971	0	0	1	1	no
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Olfr975	0	0	1	1	no
Olfr976	0	0	1	1	no
Olfr978	0	0	1	1	no
Olfr979	0	0	1	1	no
Olfr98	0	0	1	1	no
Olfr980	0	0	1	1	no
Olfr981	0	0	1	1	no
Olfr982	0	0	1	1	no
Olfr983	0	0	1	1	no
Olfr984	0	0	1	1	no

Olfr985	0	0	1	1	no
Olfr986	0	0	1	1	no
Olfr987	0	0	1	1	no
Olfr988	0	0	1	1	no
Olfr99	0	0	1	1	no
Olfr992	0	0	1	1	no
Olfr993	0	0	1	1	no
Olfr994	0	0	1	1	no
Olfr995	0	0	1	1	no
Olfr996	0	0	1	1	no
Olfr998	0	0	1	1	no
Omt2a	0	0	1	1	no
Omt2b	0	0	1	1	no
Oog1	0	0	1	1	no
Oog2	0	0	1	1	no
Oog3	0	0	1	1	no
Oog4	0	0	1	1	no
Oosp1	0	0	1	1	no
Oosp2	0	0	1	1	no
Oosp3	0	0	1	1	no
Opalin	0	0	1	1	no
Orm1	0	0	1	1	no
Orm2	0	0	1	1	no
Otc	0	0	1	1	no
Otor	0	0	1	1	no
Ott	0	0	1	1	no
Otud6a	0	0	1	1	no
Otx1	0	0	1	1	no
Otx2	0	0	1	1	no
Otx2os1	0	0	1	1	no
Ovch2	0	0	1	1	no
Ovol1	0	0	1	1	no
Oxct2b	0	0	1	1	no
Oxt	0	0	1	1	no
P2ry4	0	0	1	1	no
Pabpc2	0	0	1	1	no
Pabpc6	0	0	1	1	no
Pabpn1l	0	0	1	1	no
Padi6	0	0	1	1	no
Pate4	0	0	1	1	no
Paupar	0	0	1	1	no
Pax4	0	0	1	1	no
Pax6	0	0	1	1	no
Pax6os1	0	0	1	1	no
Pbp2	0	0	1	1	no
Pbsn	0	0	1	1	no
Pcdha4-g	0	0	1	1	no
Pcdhb1	0	0	1	1	no
Pcp2	0	0	1	1	no
Pcsk2os2	0	0	1	1	no
Pdc	0	0	1	1	no
Pdcd1	0	0	1	1	no
Pdcl2	0	0	1	1	no

Pdha2	0	0	1	1	no
Pdx1	0	0	1	1	no
Pea15b	0	0	1	1	no
Pebp4	0	0	1	1	no
Peril	0	0	1	1	no
Pet2	0	0	1	1	no
Pfn3	0	0	1	1	no
Pfpl	0	0	1	1	no
Pga5	0	0	1	1	no
Pgc	0	0	1	1	no
Pgk2	0	0	1	1	no
Pglyrp3	0	0	1	1	no
Phgr1	0	0	1	1	no
Phox2a	0	0	1	1	no
Phox2b	0	0	1	1	no
Pih1d3	0	0	1	1	no
Pinc	0	0	1	1	no
Pinlyp	0	0	1	1	no
Pip	0	0	1	1	no
Pitpnm2os1	0	0	1	1	no
Pitx1	0	0	1	1	no
Pitx2	0	0	1	1	no
Pla2g10	0	0	1	1	no
Pla2g10os	0	0	1	1	no
Pla2g1b	0	0	1	1	no
Pla2g2a	0	0	1	1	no
Pla2g2e	0	0	1	1	no
Pla2g2f	0	0	1	1	no
Pldi	0	0	1	1	no
Plet1os	0	0	1	1	no
Plin5	0	0	1	1	no
Pmch	0	0	1	1	no
Pmis2	0	0	1	1	no
Pnliprp1	0	0	1	1	no
Pnmt	0	0	1	1	no
Pnpla1	0	0	1	1	no
Pom121l12	0	0	1	1	no
Pom121l2	0	0	1	1	no
Poteg	0	0	1	1	no
Pou5f1	0	0	1	1	no
Ppp1r17	0	0	1	1	no
Ppp1r2-ps7	0	0	1	1	no
Ppp1r2-ps9	0	0	1	1	no
Ppp1r27	0	0	1	1	no
Ppp2r2cos	0	0	1	1	no
Ppy	0	0	1	1	no
Prame	0	0	1	1	no
Pramef12	0	0	1	1	no
Pramef17	0	0	1	1	no
Pramef25	0	0	1	1	no
Pramef6	0	0	1	1	no
Pramel1	0	0	1	1	no
Pramel3	0	0	1	1	no

Pramel4	0	0	1	1	no
Pramel5	0	0	1	1	no
Pramel6	0	0	1	1	no
Prap1	0	0	1	1	no
Prb1	0	0	1	1	no
Prdm13	0	0	1	1	no
Prdm14	0	0	1	1	no
Prdx6b	0	0	1	1	no
Prh1	0	0	1	1	no
Prkag2os1	0	0	1	1	no
Prl	0	0	1	1	no
Prl2a1	0	0	1	1	no
Prl2b1	0	0	1	1	no
Prl2c1	0	0	1	1	no
Prl2c2	0	0	1	1	no
Prl2c3,Prl2c4	0	0	1	1	no
Prl2c4	0	0	1	1	no
Prl2c5	0	0	1	1	no
Prl3a1	0	0	1	1	no
Prl3b1	0	0	1	1	no
Prl3c1	0	0	1	1	no
Prl3d1	0	0	1	1	no
Prl3d2	0	0	1	1	no
Prl3d3	0	0	1	1	no
Prl4a1	0	0	1	1	no
Prl5a1	0	0	1	1	no
Prl6a1	0	0	1	1	no
Prl7a2	0	0	1	1	no
Prl7b1	0	0	1	1	no
Prl7c1	0	0	1	1	no
Prl7d1	0	0	1	1	no
Prl8a1	0	0	1	1	no
Prl8a2	0	0	1	1	no
Prl8a6	0	0	1	1	no
Prl8a8	0	0	1	1	no
Prl8a9	0	0	1	1	no
Prlh	0	0	1	1	no
Prlhr	0	0	1	1	no
Prm1	0	0	1	1	no
Prm2	0	0	1	1	no
Prm3	0	0	1	1	no
Prn	0	0	1	1	no
Prodh2	0	0	1	1	no
Prok1	0	0	1	1	no
Prol1	0	0	1	1	no
Prop1	0	0	1	1	no
Prp2	0	0	1	1	no
Prpmp5	0	0	1	1	no
Prps1l1	0	0	1	1	no
Prr23a	0	0	1	1	no
Prr27	0	0	1	1	no
Prr30	0	0	1	1	no
Prr9	0	0	1	1	no

Prss1	0	0	1	1	no
Prss16	0	0	1	1	no
Prss2	0	0	1	1	no
Prss21	0	0	1	1	no
Prss22	0	0	1	1	no
Prss28	0	0	1	1	no
Prss29	0	0	1	1	no
Prss3	0	0	1	1	no
Prss30	0	0	1	1	no
Prss33	0	0	1	1	no
Prss37	0	0	1	1	no
Prss39	0	0	1	1	no
Prss40	0	0	1	1	no
Prss42	0	0	1	1	no
Prss43	0	0	1	1	no
Prss46	0	0	1	1	no
Prss48	0	0	1	1	no
Prss51	0	0	1	1	no
Prss52	0	0	1	1	no
Prss54	0	0	1	1	no
Prss55	0	0	1	1	no
Prss56	0	0	1	1	no
Prss58	0	0	1	1	no
Prss8	0	0	1	1	no
Pzca	0	0	1	1	no
Psg-ps1	0	0	1	1	no
Psg18	0	0	1	1	no
Psg20	0	0	1	1	no
Psg21	0	0	1	1	no
Psg22	0	0	1	1	no
Psg23	0	0	1	1	no
Psg25	0	0	1	1	no
Psg26	0	0	1	1	no
Psg27	0	0	1	1	no
Psg28	0	0	1	1	no
Psg29	0	0	1	1	no
Psors1c2	0	0	1	1	no
Ptchd3	0	0	1	1	no
Ptf1a	0	0	1	1	no
Pth	0	0	1	1	no
Pth2	0	0	1	1	no
Ptprt0s	0	0	1	1	no
Ptx4	0	0	1	1	no
Pxt1	0	0	1	1	no
Pyy	0	0	1	1	no
R3hdml	0	0	1	1	no
Rab11fip4os1	0	0	1	1	no
Rab11fip4os2	0	0	1	1	no
Raet1a,Raet1b	0	0	1	1	no
Rag2	0	0	1	1	no
Rax	0	0	1	1	no
Rbakdn	0	0	1	1	no
Rbbp8nl	0	0	1	1	no

Rbm31y	0	0	1	1	no
Rbm46os	0	0	1	1	no
Rbmx12	0	0	1	1	no
Rbmy	0	0	1	1	no
Rbp3	0	0	1	1	no
Rcvrn	0	0	1	1	no
Rd3l	0	0	1	1	no
Rdh16	0	0	1	1	no
Rdh19	0	0	1	1	no
Rdh8	0	0	1	1	no
Reg1	0	0	1	1	no
Reg2	0	0	1	1	no
Reg3a	0	0	1	1	no
Reg3d	0	0	1	1	no
Reg3g	0	0	1	1	no
Retn	0	0	1	1	no
Retnb	0	0	1	1	no
Rfp13s	0	0	1	1	no
Rfp14	0	0	1	1	no
Rfp14b	0	0	1	1	no
Rfx6	0	0	1	1	no
Rgr	0	0	1	1	no
Rgs21	0	0	1	1	no
Rhbd12	0	0	1	1	no
Rhbg	0	0	1	1	no
Rhox1	0	0	1	1	no
Rhox10	0	0	1	1	no
Rhox11	0	0	1	1	no
Rhox12	0	0	1	1	no
Rhox13	0	0	1	1	no
Rhox2a	0	0	1	1	no
Rhox2b	0	0	1	1	no
Rhox2c	0	0	1	1	no
Rhox2d	0	0	1	1	no
Rhox2e	0	0	1	1	no
Rhox2f	0	0	1	1	no
Rhox2g	0	0	1	1	no
Rhox2h	0	0	1	1	no
Rhox3a,Rhox3e	0	0	1	1	no
Rhox3c	0	0	1	1	no
Rhox3e	0	0	1	1	no
Rhox3f	0	0	1	1	no
Rhox3g	0	0	1	1	no
Rhox3h	0	0	1	1	no
Rhox4a	0	0	1	1	no
Rhox4b	0	0	1	1	no
Rhox4c	0	0	1	1	no
Rhox4d	0	0	1	1	no
Rhox4e	0	0	1	1	no
Rhox4f	0	0	1	1	no
Rhox4g	0	0	1	1	no
Rhox6	0	0	1	1	no
Rhox7	0	0	1	1	no

Rhox9	0	0	1	1	no
Rln3	0	0	1	1	no
Rmst	0	0	1	1	no
Rn4.5s	0	0	1	1	no
Rnase1	0	0	1	1	no
Rnase11	0	0	1	1	no
Rnase12	0	0	1	1	no
Rnase13	0	0	1	1	no
Rnase2a	0	0	1	1	no
Rnase2b	0	0	1	1	no
Rnase9	0	0	1	1	no
Rnf133	0	0	1	1	no
Rnf148	0	0	1	1	no
Rnf151	0	0	1	1	no
Rnf183	0	0	1	1	no
Rnf186	0	0	1	1	no
Rnf224	0	0	1	1	no
Rnu11	0	0	1	1	no
Rnu6	0	0	1	1	no
Rnu7	0	0	1	1	no
Rnu73b	0	0	1	1	no
Rp11	0	0	1	1	no
Rpl10l	0	0	1	1	no
Rpl34-ps1	0	0	1	1	no
Rpr1	0	0	1	1	no
Rpr2	0	0	1	1	no
Rpr3	0	0	1	1	no
Rps27rt	0	0	1	1	no
Rptn	0	0	1	1	no
Rptoros	0	0	1	1	no
Rsph6a	0	0	1	1	no
Rxfp4	0	0	1	1	no
S100a2	0	0	1	1	no
Saa3	0	0	1	1	no
Saa4	0	0	1	1	no
Sall3	0	0	1	1	no
Samd7	0	0	1	1	no
Samt2	0	0	1	1	no
Samt3	0	0	1	1	no
Samt4	0	0	1	1	no
Satl1	0	0	1	1	no
Sbp	0	0	1	1	no
Sbpl	0	0	1	1	no
Scarletltr	0	0	1	1	no
Scarna10	0	0	1	1	no
Scarna17	0	0	1	1	no
Scarna2	0	0	1	1	no
Scarna3a	0	0	1	1	no
Scarna3b	0	0	1	1	no
Scarna6	0	0	1	1	no
Scarna8	0	0	1	1	no
Scarna9	0	0	1	1	no
Scgb1b19	0	0	1	1	no

Scgb1b2	0	0	1	1	no
Scgb1b20	0	0	1	1	no
Scgb1b24	0	0	1	1	no
Scgb1b27	0	0	1	1	no
Scgb1b29	0	0	1	1	no
Scgb1b3	0	0	1	1	no
Scgb1b30	0	0	1	1	no
Scgb1b7	0	0	1	1	no
Scgb1c1	0	0	1	1	no
Scgb2b12	0	0	1	1	no
Scgb2b15	0	0	1	1	no
Scgb2b17	0	0	1	1	no
Scgb2b19	0	0	1	1	no
Scgb2b2	0	0	1	1	no
Scgb2b20	0	0	1	1	no
Scgb2b23-ps	0	0	1	1	no
Scgb2b24	0	0	1	1	no
Scgb2b26	0	0	1	1	no
Scgb2b27	0	0	1	1	no
Scgb2b3	0	0	1	1	no
Scgb2b7	0	0	1	1	no
Scgb3a2	0	0	1	1	no
Scp2d1	0	0	1	1	no
Scpep1os	0	0	1	1	no
Sctr	0	0	1	1	no
Sdr16c5	0	0	1	1	no
Sdr16c6	0	0	1	1	no
Sds	0	0	1	1	no
Sec14I3	0	0	1	1	no
39691	0	0	1	1	no
40421	0	0	1	1	no
Serpina1f	0	0	1	1	no
Serpina3a	0	0	1	1	no
Serpina3b	0	0	1	1	no
Serpina3j	0	0	1	1	no
Serpina4-ps1	0	0	1	1	no
Serpina6	0	0	1	1	no
Serpina7	0	0	1	1	no
Serpinb11	0	0	1	1	no
Serpinb13	0	0	1	1	no
Serpinb3b	0	0	1	1	no
Serpinb3c	0	0	1	1	no
Serpinb3d	0	0	1	1	no
Serpinb6d	0	0	1	1	no
Serpinb9c	0	0	1	1	no
Serpinb9d	0	0	1	1	no
Serpinb9e	0	0	1	1	no
Serpinb9f	0	0	1	1	no
Serpinb9g	0	0	1	1	no
Serpini2	0	0	1	1	no
Sftpd	0	0	1	1	no
Sh2d1b2	0	0	1	1	no
Shbg	0	0	1	1	no

Siglec15	0	0	1	1	no
Sim1	0	0	1	1	no
Sim2	0	0	1	1	no
Skint1	0	0	1	1	no
Skint10	0	0	1	1	no
Skint11	0	0	1	1	no
Skint2	0	0	1	1	no
Skint4	0	0	1	1	no
Skint5	0	0	1	1	no
Skint6	0	0	1	1	no
Skint7	0	0	1	1	no
Skint9	0	0	1	1	no
Slain1os	0	0	1	1	no
Slc10a1	0	0	1	1	no
Slc13a2os	0	0	1	1	no
Slc16a8	0	0	1	1	no
Slc17a1	0	0	1	1	no
Slc17a2	0	0	1	1	no
Slc17a3	0	0	1	1	no
Slc22a14	0	0	1	1	no
Slc22a16	0	0	1	1	no
Slc22a19	0	0	1	1	no
Slc22a20	0	0	1	1	no
Slc22a26	0	0	1	1	no
Slc22a27	0	0	1	1	no
Slc22a28	0	0	1	1	no
Slc22a30	0	0	1	1	no
Slc23a1	0	0	1	1	no
Slc25a41	0	0	1	1	no
Slc25a54	0	0	1	1	no
Slc26a9	0	0	1	1	no
Slc28a3	0	0	1	1	no
Slc2a7	0	0	1	1	no
Slc30a3	0	0	1	1	no
Slc34a1	0	0	1	1	no
Slc34a3	0	0	1	1	no
Slc35g3	0	0	1	1	no
Slc36a3	0	0	1	1	no
Slc51b	0	0	1	1	no
Slc5a12	0	0	1	1	no
Slc6a14	0	0	1	1	no
Slc6a19os	0	0	1	1	no
Slc6a3	0	0	1	1	no
Slc7a12	0	0	1	1	no
Slc7a9	0	0	1	1	no
Slc9c1	0	0	1	1	no
Slco1a1	0	0	1	1	no
Slco1b2	0	0	1	1	no
Slco6b1	0	0	1	1	no
Slco6d1	0	0	1	1	no
Sln	0	0	1	1	no
Slx	0	0	1	1	no

Slx1l	0	0	1	1	no
Sly	0	0	1	1	no
Smc1b	0	0	1	1	no
Smcp	0	0	1	1	no
Smgc	0	0	1	1	no
Smim23	0	0	1	1	no
Smlr1	0	0	1	1	no
Smok2a	0	0	1	1	no
Smok2b	0	0	1	1	no
Smok3a	0	0	1	1	no
Smok3b	0	0	1	1	no
Smok4a	0	0	1	1	no
Smr3a	0	0	1	1	no
Snora15	0	0	1	1	no
Snora17	0	0	1	1	no
Snora19	0	0	1	1	no
Snora20	0	0	1	1	no
Snora21	0	0	1	1	no
Snora24	0	0	1	1	no
Snora26	0	0	1	1	no
Snora2b	0	0	1	1	no
Snora3	0	0	1	1	no
Snora30	0	0	1	1	no
Snora31	0	0	1	1	no
Snora33	0	0	1	1	no
Snora34	0	0	1	1	no
Snora35	0	0	1	1	no
Snora36b	0	0	1	1	no
Snora41	0	0	1	1	no
Snora43	0	0	1	1	no
Snora44	0	0	1	1	no
Snora47	0	0	1	1	no
Snora52	0	0	1	1	no
Snora5c	0	0	1	1	no
Snora61	0	0	1	1	no
Snora62	0	0	1	1	no
Snora68	0	0	1	1	no
Snora69	0	0	1	1	no
Snora75	0	0	1	1	no
Snora78	0	0	1	1	no
Snora81	0	0	1	1	no
Snord100	0	0	1	1	no
Snord104	0	0	1	1	no
Snord11	0	0	1	1	no
Snord110	0	0	1	1	no
Snord111	0	0	1	1	no
Snord116	0	0	1	1	no
Snord11611	0	0	1	1	no
Snord11612	0	0	1	1	no
Snord118	0	0	1	1	no
Snord12	0	0	1	1	no
Snord123	0	0	1	1	no
Snord14a	0	0	1	1	no

Snord14c	0	0	1	1	no
Snord14d	0	0	1	1	no
Snord15a	0	0	1	1	no
Snord16a	0	0	1	1	no
Snord17	0	0	1	1	no
Snord19	0	0	1	1	no
Snord1a	0	0	1	1	no
Snord1b	0	0	1	1	no
Snord1c	0	0	1	1	no
Snord2	0	0	1	1	no
Snord23	0	0	1	1	no
Snord32a	0	0	1	1	no
Snord33	0	0	1	1	no
Snord34	0	0	1	1	no
Snord35a	0	0	1	1	no
Snord35b	0	0	1	1	no
Snord37	0	0	1	1	no
Snord38a	0	0	1	1	no
Snord42a	0	0	1	1	no
Snord42b	0	0	1	1	no
Snord43	0	0	1	1	no
Snord45b	0	0	1	1	no
Snord45c	0	0	1	1	no
Snord47	0	0	1	1	no
Snord49a	0	0	1	1	no
Snord49b	0	0	1	1	no
Snord4a	0	0	1	1	no
Snord52	0	0	1	1	no
Snord53	0	0	1	1	no
Snord55	0	0	1	1	no
Snord57	0	0	1	1	no
Snord58b	0	0	1	1	no
Snord61	0	0	1	1	no
Snord64	0	0	1	1	no
Snord65	0	0	1	1	no
Snord66	0	0	1	1	no
Snord67	0	0	1	1	no
Snord68	0	0	1	1	no
Snord69	0	0	1	1	no
Snord7	0	0	1	1	no
Snord70	0	0	1	1	no
Snord71	0	0	1	1	no
Snord72	0	0	1	1	no
Snord73a	0	0	1	1	no
Snord8	0	0	1	1	no
Snord82	0	0	1	1	no
Snord83b	0	0	1	1	no
Snord85	0	0	1	1	no
Snord87	0	0	1	1	no
Snord88a	0	0	1	1	no
Snord88c	0	0	1	1	no
Snord89	0	0	1	1	no
Snord90	0	0	1	1	no

Snord91a	0	0	1	1	no
Snord92	0	0	1	1	no
Snord93	0	0	1	1	no
Snord95	0	0	1	1	no
Snord96a	0	0	1	1	no
Snord98	0	0	1	1	no
Snord99	0	0	1	1	no
Sntn	0	0	1	1	no
Sohlh1	0	0	1	1	no
Sohlh2	0	0	1	1	no
Sox14	0	0	1	1	no
Sox15	0	0	1	1	no
Sox21	0	0	1	1	no
Sox5os3	0	0	1	1	no
Sp8	0	0	1	1	no
Spaca3	0	0	1	1	no
Spaca4	0	0	1	1	no
Spaca5	0	0	1	1	no
Spaca7	0	0	1	1	no
Spag11a	0	0	1	1	no
Spag11b	0	0	1	1	no
Spam1	0	0	1	1	no
Spata16	0	0	1	1	no
Spata21	0	0	1	1	no
Spata3	0	0	1	1	no
Spata31d1b	0	0	1	1	no
Spata45	0	0	1	1	no
Spatc1	0	0	1	1	no
Speer1-ps1	0	0	1	1	no
Speer2	0	0	1	1	no
Speer3	0	0	1	1	no
Speer4b	0	0	1	1	no
Speer4c	0	0	1	1	no
Speer4d	0	0	1	1	no
Speer4e	0	0	1	1	no
Speer4f	0	0	1	1	no
Speer5-ps1	0	0	1	1	no
Speer6-ps1	0	0	1	1	no
Speer7-ps1	0	0	1	1	no
Speer8-ps1	0	0	1	1	no
Speer9-ps1	0	0	1	1	no
Spert	0	0	1	1	no
Spic	0	0	1	1	no
Spin2-ps1	0	0	1	1	no
Spin2d	0	0	1	1	no
Spink11	0	0	1	1	no
Spink12	0	0	1	1	no
Spink13	0	0	1	1	no
Spink14	0	0	1	1	no
Spink3	0	0	1	1	no
Spink4	0	0	1	1	no
Spink6	0	0	1	1	no
Spink7	0	0	1	1	no

Spink8	0	0	1	1	no
Spinkl	0	0	1	1	no
Spint3	0	0	1	1	no
Spint4	0	0	1	1	no
Spn-ps	0	0	1	1	no
Sppl2c	0	0	1	1	no
Sprr1b	0	0	1	1	no
Sprr2a1	0	0	1	1	no
Sprr2a2	0	0	1	1	no
Sprr2b	0	0	1	1	no
Sprr2d	0	0	1	1	no
Sprr2e	0	0	1	1	no
Sprr2f	0	0	1	1	no
Sprr2g	0	0	1	1	no
Sprr2h	0	0	1	1	no
Sprr2i	0	0	1	1	no
Sprr2j-ps	0	0	1	1	no
Sprr2k	0	0	1	1	no
Sprr3	0	0	1	1	no
Sprr4	0	0	1	1	no
Spt1	0	0	1	1	no
Sptlc3	0	0	1	1	no
Spz1	0	0	1	1	no
Sry	0	0	1	1	no
Ssty1	0	0	1	1	no
Ssty2	0	0	1	1	no
Ssx9	0	0	1	1	no
Ssxb1	0	0	1	1	no
Ssxb10	0	0	1	1	no
Ssxb2	0	0	1	1	no
Ssxb3	0	0	1	1	no
Ssxb5	0	0	1	1	no
Ssxb6	0	0	1	1	no
Ssxb8	0	0	1	1	no
Ssxb9	0	0	1	1	no
St6galnac1	0	0	1	1	no
Stfa2	0	0	1	1	no
Stfa2l1	0	0	1	1	no
Stfa3	0	0	1	1	no
Stra8	0	0	1	1	no
Stx19	0	0	1	1	no
Sult1b1	0	0	1	1	no
Sult1c1	0	0	1	1	no
Sult1c2	0	0	1	1	no
Sult1d1	0	0	1	1	no
Sult1e1	0	0	1	1	no
Sult2a1	0	0	1	1	no
Sult2a2	0	0	1	1	no
Sult2a3	0	0	1	1	no
Sult2a4	0	0	1	1	no
Sult2a5	0	0	1	1	no
Sult2a6	0	0	1	1	no
Sult2a7	0	0	1	1	no

Sult3a1	0	0	1	1	no
Sun5	0	0	1	1	no
Sva	0	0	1	1	no
Sval1	0	0	1	1	no
Sval2	0	0	1	1	no
Sval3	0	0	1	1	no
Svs1	0	0	1	1	no
Svs2	0	0	1	1	no
Svs3b	0	0	1	1	no
Svs4	0	0	1	1	no
Svs5	0	0	1	1	no
Svs6	0	0	1	1	no
Syce3	0	0	1	1	no
Sycn	0	0	1	1	no
Sycp1	0	0	1	1	no
Sycp1-ps1	0	0	1	1	no
Synb	0	0	1	1	no
Syt8	0	0	1	1	no
Taar1	0	0	1	1	no
Taar2	0	0	1	1	no
Taar3	0	0	1	1	no
Taar4	0	0	1	1	no
Taar5	0	0	1	1	no
Taar6	0	0	1	1	no
Taar7a	0	0	1	1	no
Taar7b	0	0	1	1	no
Taar7d	0	0	1	1	no
Taar7e	0	0	1	1	no
Taar7f	0	0	1	1	no
Taar8a	0	0	1	1	no
Taar8b	0	0	1	1	no
Taar8c	0	0	1	1	no
Taar9	0	0	1	1	no
Tac4	0	0	1	1	no
Taf7l	0	0	1	1	no
Tas1r2	0	0	1	1	no
Tas2r102	0	0	1	1	no
Tas2r103	0	0	1	1	no
Tas2r104	0	0	1	1	no
Tas2r105	0	0	1	1	no
Tas2r106	0	0	1	1	no
Tas2r107	0	0	1	1	no
Tas2r108	0	0	1	1	no
Tas2r109	0	0	1	1	no
Tas2r110	0	0	1	1	no
Tas2r113	0	0	1	1	no
Tas2r114	0	0	1	1	no
Tas2r115	0	0	1	1	no
Tas2r116	0	0	1	1	no
Tas2r117	0	0	1	1	no
Tas2r118	0	0	1	1	no
Tas2r119	0	0	1	1	no
Tas2r120	0	0	1	1	no

Tas2r121	0	0	1	1	no
Tas2r122	0	0	1	1	no
Tas2r123	0	0	1	1	no
Tas2r124	0	0	1	1	no
Tas2r125	0	0	1	1	no
Tas2r126	0	0	1	1	no
Tas2r129	0	0	1	1	no
Tas2r130	0	0	1	1	no
Tas2r131	0	0	1	1	no
Tas2r134	0	0	1	1	no
Tas2r135	0	0	1	1	no
Tas2r136	0	0	1	1	no
Tas2r137	0	0	1	1	no
Tas2r138	0	0	1	1	no
Tas2r139	0	0	1	1	no
Tas2r140	0	0	1	1	no
Tas2r143	0	0	1	1	no
Tas2r144	0	0	1	1	no
Tbata	0	0	1	1	no
Tbc1d21	0	0	1	1	no
Tbc1d22bos	0	0	1	1	no
Tbr1	0	0	1	1	no
Tbx10	0	0	1	1	no
Tbx22	0	0	1	1	no
Tchh11	0	0	1	1	no
Tcl1b1	0	0	1	1	no
Tcl1b2	0	0	1	1	no
Tcl1b3	0	0	1	1	no
Tcl1b4	0	0	1	1	no
Tcl1b5	0	0	1	1	no
Tcstv1	0	0	1	1	no
Tcstv3	0	0	1	1	no
Tdgf1	0	0	1	1	no
Tdh	0	0	1	1	no
Tdo2	0	0	1	1	no
Tdpoz1	0	0	1	1	no
Tdpoz2	0	0	1	1	no
Tdpoz3	0	0	1	1	no
Tdpoz4	0	0	1	1	no
Tdpoz5	0	0	1	1	no
Teddm1	0	0	1	1	no
Tepp	0	0	1	1	no
Tex101	0	0	1	1	no
Tex12	0	0	1	1	no
Tex13a	0	0	1	1	no
Tex16	0	0	1	1	no
Tex19.2	0	0	1	1	no
Tex24	0	0	1	1	no
Tex26	0	0	1	1	no
Tex28	0	0	1	1	no
Tex29	0	0	1	1	no
Tex33	0	0	1	1	no
Tex36	0	0	1	1	no

Tex43	0	0	1	1	no
Tfap2c	0	0	1	1	no
Tfap2e	0	0	1	1	no
Tfec	0	0	1	1	no
Tff1	0	0	1	1	no
Tff2	0	0	1	1	no
Tff3	0	0	1	1	no
Tgif2lx1,Tgif2lx2	0	0	1	1	no
Tgif2lx2	0	0	1	1	no
Themis3	0	0	1	1	no
Timd2	0	0	1	1	no
Tinag	0	0	1	1	no
Tlx1	0	0	1	1	no
Tm4sf5	0	0	1	1	no
Tmco5b	0	0	1	1	no
Tmed11	0	0	1	1	no
Tmed6	0	0	1	1	no
Tmem132cos	0	0	1	1	no
Tmem171	0	0	1	1	no
Tmem174	0	0	1	1	no
Tmem190	0	0	1	1	no
Tmem210	0	0	1	1	no
Tmem212	0	0	1	1	no
Tmem225	0	0	1	1	no
Tmem247	0	0	1	1	no
Tmem52	0	0	1	1	no
Tmem52b	0	0	1	1	no
Tmem89	0	0	1	1	no
Tmem92	0	0	1	1	no
Tmem95	0	0	1	1	no
Tmprss11g	0	0	1	1	no
Tmprss12	0	0	1	1	no
Tmprss15	0	0	1	1	no
Tmprss4	0	0	1	1	no
Tnfsf18	0	0	1	1	no
Tnk2os	0	0	1	1	no
Tnp2	0	0	1	1	no
Tomm20l	0	0	1	1	no
Toporsl	0	0	1	1	no
Tpbpa	0	0	1	1	no
Tpbpb	0	0	1	1	no
Tppp2	0	0	1	1	no
Tpte	0	0	1	1	no
Trap1a	0	0	1	1	no
Trat1	0	0	1	1	no
Trcg1	0	0	1	1	no
Treh	0	0	1	1	no
Trem1l1	0	0	1	1	no
Trex2	0	0	1	1	no
Trhr2	0	0	1	1	no
Trim31	0	0	1	1	no
Trim42	0	0	1	1	no
Trim43b	0	0	1	1	no

Trim50	0	0	1	1	no
Trim52	0	0	1	1	no
Trim54	0	0	1	1	no
Trim60	0	0	1	1	no
Trim75	0	0	1	1	no
Triml1	0	0	1	1	no
Triml2	0	0	1	1	no
Trp53tg5	0	0	1	1	no
Trpc5os	0	0	1	1	no
Trpd52l3	0	0	1	1	no
Trpv6	0	0	1	1	no
Try10	0	0	1	1	no
Try4	0	0	1	1	no
Try5	0	0	1	1	no
Tsga8	0	0	1	1	no
Tshb	0	0	1	1	no
Tsix	0	0	1	1	no
Tspan10	0	0	1	1	no
Tspy-ps	0	0	1	1	no
Tssk2	0	0	1	1	no
Tssk3	0	0	1	1	no
Tssk5	0	0	1	1	no
Ttc23l	0	0	1	1	no
Ttc24	0	0	1	1	no
Ttll10	0	0	1	1	no
Tuba3b	0	0	1	1	no
Tunar	0	0	1	1	no
Txndc8	0	0	1	1	no
Tyr	0	0	1	1	no
U90926	0	0	1	1	no
Ube2d2b	0	0	1	1	no
Ube2dnl1	0	0	1	1	no
Ube2dnl2	0	0	1	1	no
Ubqln3	0	0	1	1	no
Ubqlnl	0	0	1	1	no
Ubtfl1	0	0	1	1	no
Ucn3	0	0	1	1	no
Ugt1a10	0	0	1	1	no
Ugt1a2	0	0	1	1	no
Ugt1a9	0	0	1	1	no
Ugt2a3	0	0	1	1	no
Ugt2b1	0	0	1	1	no
Ugt2b34	0	0	1	1	no
Ugt2b35	0	0	1	1	no
Ugt2b36	0	0	1	1	no
Ugt2b37	0	0	1	1	no
Ugt2b38	0	0	1	1	no
Ugt2b5	0	0	1	1	no
Ugt3a1	0	0	1	1	no
Ugt3a2	0	0	1	1	no
Umod	0	0	1	1	no
Umodl1	0	0	1	1	no
Uncx	0	0	1	1	no

Upk2	0	0	1	1	no
Upk3a	0	0	1	1	no
Upk3b	0	0	1	1	no
Upk3bl	0	0	1	1	no
Urad	0	0	1	1	no
Ush1c	0	0	1	1	no
Usp17la	0	0	1	1	no
Usp17lb	0	0	1	1	no
Usp17lc	0	0	1	1	no
Usp17ld	0	0	1	1	no
Usp17le	0	0	1	1	no
Usp26	0	0	1	1	no
Usp9y	0	0	1	1	no
V1ra8	0	0	1	1	no
Vax1	0	0	1	1	no
Vax2	0	0	1	1	no
Vax2os	0	0	1	1	no
Vgll1	0	0	1	1	no
Vmn1r-ps103	0	0	1	1	no
Vmn1r-ps79	0	0	1	1	no
Vmn1r1	0	0	1	1	no
Vmn1r10	0	0	1	1	no
Vmn1r100,Vmn1r1	0	0	1	1	no
Vmn1r101	0	0	1	1	no
Vmn1r103	0	0	1	1	no
Vmn1r104	0	0	1	1	no
Vmn1r107	0	0	1	1	no
Vmn1r11	0	0	1	1	no
Vmn1r112	0	0	1	1	no
Vmn1r113	0	0	1	1	no
Vmn1r114	0	0	1	1	no
Vmn1r115	0	0	1	1	no
Vmn1r116	0	0	1	1	no
Vmn1r117	0	0	1	1	no
Vmn1r118	0	0	1	1	no
Vmn1r119	0	0	1	1	no
Vmn1r12	0	0	1	1	no
Vmn1r120	0	0	1	1	no
Vmn1r121	0	0	1	1	no
Vmn1r122	0	0	1	1	no
Vmn1r123	0	0	1	1	no
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Vmn1r126	0	0	1	1	no
Vmn1r127	0	0	1	1	no
Vmn1r128	0	0	1	1	no
Vmn1r129	0	0	1	1	no
Vmn1r13	0	0	1	1	no
Vmn1r130	0	0	1	1	no
Vmn1r132,Vmn1r1	0	0	1	1	no
Vmn1r135	0	0	1	1	no
Vmn1r137	0	0	1	1	no
Vmn1r138	0	0	1	1	no

Vmn1r139	0	0	1	1	no
Vmn1r14	0	0	1	1	no
Vmn1r142	0	0	1	1	no
Vmn1r148	0	0	1	1	no
Vmn1r15	0	0	1	1	no
Vmn1r151	0	0	1	1	no
Vmn1r152	0	0	1	1	no
Vmn1r157	0	0	1	1	no
Vmn1r158	0	0	1	1	no
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Vmn1r16	0	0	1	1	no
Vmn1r160	0	0	1	1	no
Vmn1r163	0	0	1	1	no
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Vmn1r167	0	0	1	1	no
Vmn1r168	0	0	1	1	no
Vmn1r169	0	0	1	1	no
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Vmn1r170	0	0	1	1	no
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Vmn1r172	0	0	1	1	no
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Vmn1r18	0	0	1	1	no
Vmn1r180	0	0	1	1	no
Vmn1r183	0	0	1	1	no
Vmn1r184	0	0	1	1	no
Vmn1r185	0	0	1	1	no
Vmn1r186,Vmn1r6	0	0	1	1	no
Vmn1r187,Vmn1r6	0	0	1	1	no
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Vmn1r206	0	0	1	1	no
Vmn1r207-ps	0	0	1	1	no
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Vmn1r209	0	0	1	1	no
Vmn1r21	0	0	1	1	no
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Vmn2r-ps159	0	0	1	1	no
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Vmn2r99	0	0	1	1	no
Vpreb2	0	0	1	1	no
Vsig1	0	0	1	1	no
Vsx2	0	0	1	1	no
Vwa2	0	0	1	1	no
Wap	0	0	1	1	no
Wbscr28	0	0	1	1	no
Wdr20rt	0	0	1	1	no
Wfdc11	0	0	1	1	no
Wfdc15b	0	0	1	1	no
Wfdc16	0	0	1	1	no
Wfdc9	0	0	1	1	no
Wnt1	0	0	1	1	no
Wnt8a	0	0	1	1	no
Xkr9	0	0	1	1	no
Xlr5a	0	0	1	1	no
Xlr5b	0	0	1	1	no
Xlr5c	0	0	1	1	no
Zar1l	0	0	1	1	no
Zc2hc1b	0	0	1	1	no
Zcchc13	0	0	1	1	no
Zdhhc11	0	0	1	1	no
Zdhhc25	0	0	1	1	no
Zfp352	0	0	1	1	no
Zfp42	0	0	1	1	no
Zfp474	0	0	1	1	no
Zfp488	0	0	1	1	no
Zfp534	0	0	1	1	no
Zfp572	0	0	1	1	no
Zfp600	0	0	1	1	no
Zfp616	0	0	1	1	no
Zfp735	0	0	1	1	no
Zfp91Cntf	0	0	1	1	no
Zfp936	0	0	1	1	no
Zfp957	0	0	1	1	no
Zfy1	0	0	1	1	no
Zfy2	0	0	1	1	no
Znrf4	0	0	1	1	no
Zp1	0	0	1	1	no
Zp2	0	0	1	1	no
Zp3r	0	0	1	1	no
Zp4-ps	0	0	1	1	no
Zscan10	0	0	1	1	no
Zscan4a	0	0	1	1	no
Zscan4b	0	0	1	1	no

Zscan4c	0	0	1	1	no
Zscan4d	0	0	1	1	no
Zscan4e	0	0	1	1	no
Zscan4f	0	0	1	1	no
Zscan5b	0	0	1	1	no
Zyg11a	0	0	1	1	no
a	0	0	1	1	no
Osbpl11	-2.20E-05	-8.29E-05	0.9982	0.998351	no
Lmbr1	-0.0001225	-0.0005189	0.99845	0.99845	no
Wdpcp	-0.000247	-0.0006289	0.9954	0.996502	no
35854	-0.0003216	-0.0011819	0.9973	0.997651	no
Fkbp8	-0.00039	-0.0018168	0.99685	0.997527	no
Eri2	-0.0006684	-0.001318	0.9931	0.995426	no
Acad9	-0.0008145	-0.0032993	0.99455	0.995976	no
Utp14b	-0.0008432	-0.0011759	0.99655	0.997452	no
Golga4	-0.0009318	-0.0043534	0.99235	0.995125	no
Zzef1	-0.0010253	-0.004761	0.99325	0.995501	no
Pigb	-0.0010743	-0.0009194	0.99735	0.997651	no
Prps1l3	-0.0010767	-0.0036265	0.9927	0.995301	no
Rsf1	-0.0011706	-0.0046519	0.9922	0.995125	no
Mrps14	-0.0012948	-0.0045509	0.9935	0.995526	no
Slc25a22	-0.001322	-0.0058964	0.98955	0.993419	no
Fxr2	-0.0013889	-0.0069939	0.98935	0.993393	no
Rwdd2b	-0.0015057	-0.0040537	0.9948	0.996152	no
Katnbl1	-0.0015198	-0.0041814	0.995	0.996277	no
Crebl2	-0.0016574	-0.0069636	0.99115	0.994599	no
Gm10549	-0.0018244	0	1	1	no
Mrps18a	-0.0018837	-0.0087491	0.98745	0.992387	no
Slx1b	-0.0019562	-0.0054192	0.99205	0.9951	no
Tatdn1	-0.0019732	-0.0023445	0.99455	0.995976	no
Kif13a	-0.0019735	-0.007778	0.98855	0.993041	no
Eif3j1,Eif3j2	-0.0020075	0	1	1	no
Ppme1	-0.0020782	-0.010625	0.9835	0.990067	no
Acaca	-0.0021914	-0.0094764	0.98585	0.99128	no
Ndufa8	-0.0022401	-0.0123199	0.9848	0.990774	no
B3gat3	-0.0023643	-0.0120508	0.98285	0.989638	no
Polr3c	-0.0025135	-0.0078224	0.98675	0.991759	no
Fbxl5	-0.002519	-0.0104902	0.9821	0.989258	no
Gpr137b	-0.0025488	-0.0097817	0.9848	0.990774	no
Klc2	-0.0025576	-0.0120424	0.98125	0.988777	no
Zfp410	-0.0026347	-0.009098	0.98665	0.991759	no
Dclre1a	-0.002648	-0.0055415	0.99285	0.995326	no
Fam120a	-0.003035	-0.0147633	0.97685	0.986216	no
G6pc3	-0.0030355	-0.0143441	0.9812	0.988777	no
Uxs1	-0.0031145	-0.0105948	0.9864	0.991632	no
Rufy3	-0.0031513	-0.0137291	0.978	0.986627	no
Mfap3	-0.0033949	-0.0126785	0.9804	0.988498	no
Synj2bp	-0.003398	-0.015008	0.97515	0.9851	no
0610010F05Rik	-0.0034714	-0.0166518	0.9739	0.984437	no
9330159M07Rik	-0.003509	-0.0045417	0.9858	0.99128	no
Pdp1	-0.0035612	-0.0146221	0.9767	0.986216	no
Tmem97	-0.0037399	-0.0096686	0.9844	0.990672	no
Mlh3	-0.0037928	-0.0121686	0.9805	0.988498	no

Fars2	-0.0039319	-0.0111865	0.9796	0.988015	no
Nxn12	-0.003969	-0.0048635	0.97765	0.986423	no
Stmnd1	-0.0039916	0	1	1	no
Ccdc47	-0.0039967	-0.0197718	0.9707	0.982849	no
Atg12	-0.0040062	-0.0191986	0.9725	0.983471	no
Pdlim7	-0.0040755	-0.0147356	0.97605	0.985759	no
Wdte1	-0.0040775	-0.0190785	0.97225	0.983394	no
Pidd1	-0.0040844	-0.0077389	0.992	0.9951	no
Fuz	-0.0041795	-0.0035706	0.99535	0.996502	no
Rgs1	-0.004213	0	1	1	no
Fuca2	-0.0042146	-0.0190168	0.9714	0.983059	no
Tmem167	-0.0042999	-0.0188341	0.9717	0.983187	no
Abcf2	-0.0043499	-0.0191704	0.96985	0.982139	no
Ranbp2	-0.0044057	-0.0210086	0.96685	0.979849	no
Ak5	-0.0044449	-0.0154835	0.9774	0.986423	no
Dtx2	-0.0045985	-0.0124378	0.98015	0.988495	no
Sdhaf2	-0.0046302	-0.0195466	0.9707	0.982849	no
Gbp7	-0.004645	-0.0147044	0.9761	0.985759	no
Rbm22	-0.0046848	-0.0155386	0.97675	0.986216	no
Fam96a	-0.0047405	-0.0157933	0.98035	0.988498	no
Bcl7b	-0.0047756	-0.0188192	0.9723	0.983394	no
Rpl22	-0.0048358	-0.021214	0.9666	0.979745	no
Vti1a	-0.0049481	-0.0215046	0.9661	0.979388	no
Rcor2	-0.0051428	-0.0117069	0.9791	0.987661	no
Zfp459	-0.0052325	0	1	1	no
Mast1	-0.0052812	-0.0247503	0.95875	0.975066	no
2010015L04Rik	-0.0053182	-0.0073085	0.98885	0.993192	no
Mrpl21	-0.0054554	-0.0125368	0.98225	0.989334	no
Rabl6	-0.0055846	-0.0263206	0.9557	0.973232	no
Jpx	-0.0055909	0	1	1	no
Spin2c	-0.0056023	-0.0067536	0.97765	0.986423	no
Tbc1d22a	-0.0056636	-0.0240144	0.96345	0.977723	no
Fosl2	-0.0056669	-0.0187363	0.97285	0.98375	no
Mettl13	-0.0058936	-0.0169523	0.97365	0.984409	no
Rap1gds1	-0.0059155	-0.0259655	0.9594	0.975353	no
Eif4b	-0.0061032	-0.0302921	0.95685	0.97403	no
Cul5	-0.0061329	-0.0262156	0.96035	0.975772	no
Map1lc3b	-0.0062508	-0.0331651	0.95315	0.971307	no
4930427A07Rik	-0.0062757	-0.0114069	0.98605	0.991355	no
Eftud2	-0.0064429	-0.0270943	0.9563	0.973694	no
Aurkaip1	-0.0064533	-0.0293007	0.961	0.976157	no
Arl14ep	-0.0065464	-0.022357	0.9634	0.977723	no
Arsa	-0.0065789	-0.0270757	0.958	0.974677	no
Snrpa1	-0.0066008	-0.0195911	0.97375	0.984435	no
Dysf	-0.0066355	-0.030483	0.94975	0.969158	no
Aqr	-0.0067472	-0.0267941	0.95795	0.974677	no
Brf2	-0.0067939	-0.0197219	0.97455	0.984869	no
Vav2	-0.0068459	-0.0281114	0.95535	0.973076	no
Galnt13	-0.0069305	-0.0297725	0.95205	0.970511	no
Kcna6	-0.0069658	-0.0339241	0.94635	0.966707	no
Zfyve16	-0.0070678	-0.0248016	0.9608	0.976103	no
Zfp644	-0.0071462	-0.0289283	0.956	0.973463	no
Rala	-0.0072142	-0.0343219	0.9483	0.968074	no

Zfp780b	-0.0074244	-0.0206951	0.96885	0.981501	no
Bace1	-0.0074525	-0.034749	0.94495	0.965918	no
Bod1l	-0.0075431	-0.0344229	0.9441	0.9653	no
Zcrb1	-0.0077007	-0.0313145	0.96335	0.977723	no
Rogdi	-0.0077587	-0.0345087	0.951	0.969786	no
Fibp	-0.007782	-0.0253626	0.96125	0.976336	no
Dlg4	-0.0078549	-0.0366599	0.9411	0.963319	no
Bzw1	-0.0079029	-0.039028	0.94155	0.963705	no
Kansl1	-0.0080309	-0.0357593	0.9444	0.96543	no
Metap1d	-0.0080382	-0.0220631	0.97235	0.983394	no
Mark3	-0.0080907	-0.032357	0.9456	0.966434	no
Zfp189	-0.0085475	-0.0177897	0.96915	0.98173	no
Aplp1	-0.0086357	-0.0442783	0.934	0.959136	no
Smap1	-0.0087437	-0.0377432	0.941	0.963291	no
Dnm3	-0.0088285	-0.0397994	0.93715	0.960981	no
Nsmaf	-0.0088594	-0.033957	0.94895	0.968514	no
Tbx6	-0.0088828	0	1	1	no
Notch4	-0.008961	-0.0192918	0.9659	0.97926	no
Senp3	-0.0090922	-0.0341613	0.94415	0.9653	no
Aplp2	-0.0093077	-0.0380992	0.93655	0.960663	no
Fstl4	-0.0094535	-0.0135779	0.98195	0.989182	no
Cep41	-0.0095134	-0.0225439	0.96725	0.980179	no
Ppp2r4	-0.0096383	-0.0490219	0.9274	0.955636	no
Noc2l	-0.0096477	-0.0334552	0.95095	0.969786	no
Aox1	-0.0096568	-0.0431058	0.9357	0.960088	no
Ttll5	-0.0098061	-0.0423805	0.9349	0.959489	no
Ddx58	-0.0098265	-0.0359353	0.9464	0.966707	no
Atp5s	-0.0100368	-0.0335288	0.95215	0.970511	no
Eps15	-0.0100711	-0.0471025	0.9252	0.954459	no
Vps4a	-0.0100856	-0.0500712	0.9256	0.954523	no
Sf3b2	-0.0101793	-0.0505605	0.92455	0.954107	no
Rabif	-0.0101812	-0.0448426	0.93795	0.961286	no
Gm7977	-0.0102946	0	1	1	no
Kcnj4	-0.0103267	-0.0230002	0.96545	0.979178	no
Nt5dc1	-0.0103423	-0.0168922	0.97185	0.983263	no
Pgbd1	-0.0103747	0	1	1	no
Slc35g2	-0.0105018	-0.0389292	0.94285	0.964515	no
Mrrf	-0.0105473	-0.0239749	0.96095	0.976157	no
Git2	-0.0106941	-0.0398174	0.93565	0.960088	no
Gapvd1	-0.0107184	-0.0483547	0.9241	0.953843	no
Prkag1	-0.0108772	-0.047459	0.933	0.958577	no
Ywhaq	-0.010952	-0.0548857	0.9216	0.952322	no
AI837181	-0.0110047	-0.0416268	0.9317	0.957761	no
Wdr82	-0.0110234	-0.0462485	0.92525	0.954459	no
Tcte2	-0.011037	0	1	1	no
Ube2e2	-0.0110951	-0.0530255	0.92755	0.955717	no
Rab6b	-0.0111453	-0.0429676	0.93355	0.95892	no
Tram1l1	-0.0111898	-0.0426093	0.9389	0.96186	no
Nol10	-0.0112182	-0.0397598	0.93745	0.96114	no
Rad54l2	-0.011333	-0.0457498	0.92665	0.955063	no
Gm2382	-0.0114244	-0.0200973	0.98235	0.98936	no
Pop1	-0.0114889	-0.0238491	0.96025	0.975772	no
Btbd10	-0.0114934	-0.0486452	0.92815	0.955964	no

Rbx1	-0.0115026	-0.0565556	0.91695	0.948774	no
Bag6	-0.0117885	-0.0546195	0.9118	0.94514	no
1700021F05Rik	-0.0118182	-0.041966	0.9458	0.966489	no
Ptpdc1	-0.0120382	-0.0524667	0.91705	0.948781	no
Parp10	-0.0121065	-0.0251459	0.96215	0.977026	no
Gpn3	-0.012143	-0.0412577	0.9433	0.964752	no
Tex38	-0.0122441	0	1	1	no
Slc25a44	-0.0122838	-0.0455444	0.9281	0.955963	no
Mtpap	-0.012461	-0.0417702	0.9377	0.961248	no
Nup153	-0.012464	-0.0521253	0.921	0.951925	no
Cecr5	-0.0126702	-0.0340086	0.9498	0.969158	no
Knop1	-0.0126844	-0.0265943	0.95985	0.975586	no
Eef1d	-0.0127234	-0.047264	0.92365	0.953624	no
Rdh11	-0.0128305	-0.0538351	0.9279	0.955906	no
Lztr1	-0.0128656	-0.0643781	0.9024	0.939434	no
Atn1	-0.012942	-0.0590922	0.90725	0.942338	no
Cwh43	-0.0129876	0	1	1	no
Pmpca	-0.0130306	-0.0549214	0.91955	0.950796	no
Lysmd4	-0.0131179	-0.0353661	0.9428	0.964515	no
Rxfp1	-0.0131371	0	1	1	no
Ngb	-0.0131675	-0.0275613	0.9584	0.974934	no
Traf7	-0.0132073	-0.0168064	0.9721	0.983394	no
1810026B05Rik	-0.0132237	-0.0177067	0.9711	0.982954	no
Iqsec2	-0.0132623	-0.0525009	0.9122	0.945333	no
P4ha3	-0.0133668	-0.0423682	0.93875	0.961804	no
Sh2d3c	-0.0133772	-0.0465579	0.9315	0.957761	no
Trim62	-0.013467	-0.0485758	0.923	0.953324	no
Tnpo3	-0.0134866	-0.061483	0.90995	0.943938	no
Ints7	-0.0135274	-0.0466716	0.9302	0.956738	no
Pced1a	-0.0135801	-0.0251216	0.9635	0.977723	no
Dynlt1f	-0.0136254	0	1	1	no
Pcdhga1	-0.0137031	-0.0058973	0.9908	0.994323	no
Dus2	-0.0137852	-0.0272349	0.9571	0.974209	no
Aida	-0.0138619	-0.0566971	0.9139	0.946504	no
Mrpl11	-0.0139206	-0.0509965	0.92395	0.953785	no
Relb	-0.0140151	-0.0275336	0.95515	0.972971	no
Immnp1l	-0.0142501	-0.021117	0.98265	0.989587	no
Tmem144	-0.0142556	0	1	1	no
Ulk2	-0.0143519	-0.0675228	0.8967	0.935975	no
Hid1	-0.01437	-0.0674125	0.9016	0.938969	no
Kif24	-0.0144019	0	1	1	no
Lrrc16a	-0.0144777	-0.0443395	0.92845	0.956198	no
Rad1	-0.014543	-0.0365261	0.93955	0.962229	no
Mrpl46	-0.01474	-0.0530974	0.92945	0.956463	no
Bod1	-0.014865	-0.0683296	0.9047	0.940942	no
Purg	-0.0148765	-0.0393102	0.9347	0.959432	no
Ctc1	-0.0149263	-0.0513559	0.9176	0.949224	no
Usp22	-0.015117	-0.0744032	0.88415	0.928333	no
Cav1	-0.0151409	-0.0651165	0.89855	0.936822	no
Nqo2	-0.0151954	-0.0228331	0.95965	0.975533	no
Inpp5b	-0.0153488	-0.0526239	0.91545	0.947591	no
Actb	-0.015443	-0.0675802	0.9005	0.938044	no
Coa7	-0.0154452	-0.0380608	0.94575	0.966489	no

Ism2	-0.015475	0	1	1	no
Ppapdc2	-0.0155128	-0.0471623	0.92785	0.955906	no
Pfdn4	-0.0157283	-0.0427146	0.93165	0.957761	no
Zfp319	-0.0158279	-0.048418	0.9256	0.954523	no
Snrnp25	-0.0159404	-0.0581483	0.9296	0.956469	no
Dhx38	-0.0159586	-0.0599787	0.91	0.943938	no
Prkar1b	-0.0160124	-0.0708394	0.88665	0.929455	no
Gsk3b	-0.0160285	-0.0727746	0.8832	0.927745	no
Gm1976	-0.0160585	-0.0481482	0.9261	0.95477	no
Ube2e3	-0.0161033	-0.0724951	0.898	0.936669	no
Pitpnm1	-0.016208	-0.0492264	0.92115	0.952006	no
Rps6kl1	-0.0163698	-0.052058	0.92085	0.951844	no
Wdr91	-0.0166601	-0.0556934	0.9202	0.95132	no
Sec24b	-0.0167078	-0.0720737	0.8909	0.932363	no
Nub1	-0.0167537	-0.0795791	0.88095	0.926702	no
Zc3hc1	-0.0167817	-0.0517281	0.92995	0.956629	no
Actr3	-0.0168609	-0.0773601	0.8789	0.925059	no
Rabgef1	-0.0171492	-0.0656665	0.89315	0.934129	no
Raly	-0.0173259	-0.0782812	0.8781	0.92451	no
Znfx1	-0.0173354	-0.074824	0.8812	0.926818	no
Rcl1	-0.0173496	-0.0430075	0.9313	0.957647	no
Sgk3	-0.0174823	-0.046553	0.9255	0.954523	no
BC031181	-0.0177005	-0.0963931	0.87545	0.922892	no
Zfp939	-0.0177378	-0.027128	0.9584	0.974934	no
Rhpn2	-0.0177608	-0.027994	0.95925	0.975326	no
Dsg2	-0.0179607	0	1	1	no
Pcnxl4	-0.018053	-0.064945	0.90185	0.939156	no
Clpx	-0.0181143	-0.0659316	0.89495	0.935041	no
Atp6ap1	-0.0182424	-0.093924	0.8624	0.913324	no
Agpat1	-0.0182493	-0.0817897	0.88005	0.926049	no
Spa17	-0.0182616	-0.0424814	0.9534	0.971412	no
Abhd11	-0.0182721	-0.0612179	0.9134	0.946355	no
Fus	-0.0182944	-0.0889191	0.87505	0.92269	no
Dvl3	-0.0184585	-0.0690811	0.89675	0.935975	no
Psmc5	-0.0184866	-0.10145	0.859	0.91141	no
Ppcdc	-0.0186329	-0.0506046	0.923	0.953324	no
Ndufa7	-0.0187645	-0.112164	0.89355	0.934252	no
Kif1a	-0.0188185	-0.0660124	0.8959	0.935456	no
Psme2	-0.0189011	-0.018948	0.9695	0.981934	no
Isca1	-0.0191326	-0.088586	0.8773	0.924181	no
Zfyve26	-0.0192524	-0.0665866	0.89665	0.935975	no
Carkd	-0.0192829	-0.0678271	0.89715	0.936255	no
Pik3r1	-0.0193206	-0.089931	0.8595	0.911583	no
Oxnad1	-0.0194092	-0.0458475	0.93395	0.959136	no
Gpn1	-0.019516	-0.0685177	0.8995	0.937518	no
Wdr45	-0.0195588	-0.0664266	0.89475	0.934991	no
Lrrc47	-0.0196608	-0.0868778	0.8645	0.914838	no
Fam217b	-0.0196875	-0.0678762	0.90095	0.938366	no
Cntln	-0.0197325	-0.0630102	0.8985	0.936822	no
Vps35	-0.0197578	-0.0990931	0.84755	0.903386	no
Lrrc57	-0.0198869	-0.0603326	0.91175	0.94514	no
Lsg1	-0.0198984	-0.0638777	0.9055	0.941392	no
Txnl4b	-0.0200324	-0.0657588	0.9051	0.941262	no

Spn	-0.0200647	-0.0681557	0.8883	0.93067	no
Pfdn1	-0.0201155	-0.0930646	0.8776	0.924288	no
Zzz3	-0.0201316	-0.0475266	0.92255	0.953156	no
Taf3	-0.0201517	-0.061743	0.9063	0.941772	no
Hspa4	-0.020184	-0.0985523	0.8427	0.899422	no
Pigo	-0.0201973	-0.0550524	0.91125	0.944718	no
Trappc13	-0.0202254	-0.084575	0.86475	0.914956	no
Tnrc6b	-0.0203492	-0.0914367	0.85365	0.907918	no
Sin3a	-0.0204513	-0.071938	0.88525	0.928648	no
Cdc27	-0.0207036	-0.0925765	0.85055	0.905565	no
Riok2	-0.0207449	-0.0717326	0.89	0.931642	no
Atg5	-0.0211149	-0.0838584	0.86665	0.916455	no
Psmb9	-0.0211496	-0.0358586	0.9567	0.973952	no
Stoml2	-0.0212401	-0.0811916	0.88755	0.930031	no
8430422H06Rik	-0.0212702	0	1	1	no
Sos2	-0.0214133	-0.0871601	0.86705	0.916805	no
Sigmar1	-0.0215702	-0.0917194	0.85355	0.907885	no
2810474O19Rik	-0.0217665	-0.0634497	0.8998	0.93761	no
Efhc1	-0.0217998	-0.040696	0.942	0.964017	no
Serpina10	-0.0218566	0	1	1	no
Hars	-0.0218795	-0.111789	0.8356	0.894457	no
Tkt	-0.0219335	-0.102711	0.83595	0.894597	no
2310057M21Rik	-0.0220272	-0.0782632	0.8824	0.927271	no
Ascc2	-0.0221056	-0.056782	0.9151	0.947451	no
Gm16897	-0.0222945	0	1	1	no
Scyl2	-0.0223927	-0.0905378	0.86035	0.912259	no
Sgtb	-0.0225245	-0.102857	0.8444	0.900607	no
Dcun1d1	-0.0226841	-0.0837926	0.8647	0.914956	no
Gpr157	-0.0227607	-0.0687516	0.89345	0.934221	no
Gpr137b-ps	-0.022874	-0.081179	0.8818	0.927166	no
Bud13	-0.0229246	-0.04768	0.92795	0.955906	no
Cog3	-0.0230719	-0.092196	0.8608	0.912378	no
Hprt	-0.0231205	-0.125978	0.82865	0.890034	no
Nudt12	-0.0231931	-0.0735993	0.89205	0.933272	no
Tfcp2	-0.0232057	-0.071244	0.886	0.928921	no
Skiv2l	-0.0232444	-0.100845	0.83685	0.895218	no
Ogfr	-0.0232643	-0.0793298	0.88025	0.926186	no
Ppp6r3	-0.0233419	-0.0999408	0.83825	0.896282	no
Tpst1	-0.0234598	-0.0885284	0.85565	0.909535	no
Plk2	-0.0235197	-0.0942409	0.86055	0.912259	no
Sirt3	-0.0235201	-0.0460919	0.92615	0.95477	no
Sgcg	-0.0235366	0	1	1	no
Nudt14	-0.0235812	-0.0593302	0.9288	0.956239	no
Map3k11	-0.0235938	-0.09288	0.86155	0.912788	no
Rpp14	-0.0236764	-0.099909	0.85125	0.90602	no
Pofut1	-0.0238149	-0.0963007	0.8545	0.908677	no
Dnah6	-0.0241747	0	1	1	no
Pafah1b1	-0.0242167	-0.0901149	0.857	0.910314	no
Elavl1	-0.0242592	-0.107417	0.8332	0.893148	no
Tulp4	-0.0242666	-0.109205	0.8234	0.886189	no
Fam53a	-0.0243784	-0.0533245	0.92355	0.953624	no
Limk1	-0.0244218	-0.121955	0.81555	0.880956	no
Sms	-0.0245216	-0.112625	0.83355	0.8932	no

Rrp12	-0.024547	-0.100525	0.84865	0.904268	no
Aldh3a2	-0.0245856	-0.113147	0.836	0.894597	no
Ptcd1	-0.0246387	-0.0593045	0.90365	0.940366	no
Fahd1	-0.0246614	-0.0669652	0.90585	0.9414	no
Actr1a	-0.0247575	-0.122237	0.8222	0.885669	no
Sbk1	-0.0249779	-0.113122	0.82885	0.890105	no
Rab11fip3	-0.0249904	-0.107289	0.82965	0.890386	no
Flad1	-0.0249908	-0.0904919	0.86595	0.915861	no
Jtb	-0.0250409	-0.0862834	0.88435	0.928365	no
Pced1b	-0.0250704	-0.0288589	0.9534	0.971412	no
Sin3b	-0.0252541	-0.0727464	0.88455	0.928428	no
AI462493	-0.0252824	-0.0856716	0.8973	0.936255	no
Chtf18	-0.0253607	-0.0362075	0.9401	0.962592	no
Khdrbs2	-0.0253623	-0.0409258	0.9376	0.961219	no
Srf	-0.0253881	-0.0816859	0.8677	0.91718	no
Naa25	-0.025399	-0.11191	0.8321	0.892132	no
Dctpp1	-0.0255287	-0.063386	0.9299	0.956629	no
Pdxdc1	-0.0255752	-0.107214	0.8296	0.890386	no
N4bp3	-0.0258123	-0.0357479	0.94865	0.968357	no
Dnajc16	-0.0258744	-0.096234	0.8546	0.90871	no
4933427D14Rik	-0.0258956	-0.0535258	0.9205	0.951556	no
Brk1	-0.0259514	-0.138952	0.8201	0.884431	no
Inpp1	-0.0259989	-0.0981283	0.85645	0.909948	no
Krt19	-0.0260478	0	1	1	no
Samm50	-0.0262005	-0.128268	0.82585	0.887889	no
Cast	-0.026248	-0.129268	0.80715	0.87516	no
Sar1a	-0.0262916	-0.131216	0.8012	0.870542	no
Tmpo	-0.0263328	-0.0950233	0.84505	0.901156	no
Fbxo10	-0.0264477	-0.0720469	0.88475	0.928564	no
Eif1ax	-0.0265662	-0.140345	0.82635	0.888283	no
Tmcc1	-0.0267151	-0.107898	0.8343	0.893571	no
Ddx47	-0.0268225	-0.11454	0.83675	0.895183	no
Slc35a1	-0.0268427	-0.0824974	0.88195	0.927166	no
Tsc2	-0.0268988	-0.0753281	0.87505	0.92269	no
Plekhb2	-0.0271634	-0.12717	0.7984	0.868868	no
Lipt1	-0.0272594	-0.0421303	0.93805	0.961286	no
Cryzl1	-0.0272722	-0.0870945	0.8613	0.912762	no
Hiatl1	-0.0273167	-0.114783	0.8166	0.881803	no
A930005H10Rik	-0.0274222	-0.0451917	0.92615	0.95477	no
Zufsp	-0.0274292	-0.0626645	0.9084	0.942846	no
Acn9	-0.02749	-0.0914264	0.9079	0.942571	no
Tsr2	-0.0277767	-0.0996926	0.83895	0.896741	no
Dpysl2	-0.0279601	-0.126037	0.80875	0.87625	no
Dedd	-0.028012	-0.0770282	0.8879	0.930325	no
Eif4a3	-0.0280204	-0.0986892	0.86185	0.91298	no
Chmp2b	-0.0281355	-0.133054	0.8122	0.878482	no
Dpp6	-0.0281644	-0.125977	0.8048	0.873452	no
Fam214a	-0.0282185	-0.0896608	0.8593	0.911443	no
Dopey2	-0.0282395	-0.12732	0.79075	0.86366	no
Polr3k	-0.0282499	-0.11253	0.8371	0.895341	no
Hk2	-0.0282831	-0.0544609	0.9171	0.948781	no
D130020L05Rik	-0.0282926	0	1	1	no
Sv2c	-0.0283213	-0.13548	0.7897	0.863011	no

Fbxo11	-0.0283585	-0.118787	0.80825	0.875995	no
Gnptab	-0.0286072	-0.129401	0.7963	0.867437	no
Hspd1	-0.0287403	-0.140197	0.7983	0.868868	no
Zbtb6	-0.028807	-0.0950777	0.8577	0.910693	no
Ppia	-0.0288216	-0.172223	0.79705	0.867935	no
Rab36	-0.0289669	-0.0783629	0.88525	0.928648	no
Eya3	-0.0289701	-0.125012	0.80455	0.873269	no
Scaf11	-0.029049	-0.131458	0.79315	0.864983	no
Fastkd3	-0.0290777	-0.0760074	0.8928	0.933836	no
Tmem33	-0.0291399	-0.13435	0.79195	0.864188	no
Gtf2i	-0.029293	-0.136784	0.7834	0.858956	no
Zfp740	-0.0292943	-0.118791	0.8107	0.87736	no
Klf11	-0.0294641	-0.0894006	0.8653	0.915319	no
Ddx59	-0.0294855	-0.0640893	0.9	0.937744	no
Coprs	-0.0295315	-0.119535	0.85495	0.908937	no
Fut4	-0.0295542	-0.0478837	0.9243	0.953924	no
Gm1821	-0.0296806	0	1	1	no
1110012L19Rik	-0.0297543	-0.091956	0.8845	0.928428	no
Hectd2	-0.029806	-0.0618925	0.90565	0.941392	no
Atp5j	-0.0299786	-0.141966	0.83505	0.894085	no
0610009O20Rik	-0.0299996	-0.104285	0.83425	0.893571	no
Slco1a4	-0.0301262	-0.117006	0.82695	0.888819	no
Asph	-0.0302182	-0.119861	0.8066	0.874921	no
Phf6	-0.0302488	-0.10689	0.82895	0.89014	no
Naa20	-0.0302518	-0.0877374	0.8592	0.91141	no
2610305D13Rik	-0.0302741	-0.0582156	0.9119	0.94517	no
Gcdh	-0.0302887	-0.0852194	0.86615	0.915999	no
Med18	-0.0303873	-0.0662353	0.9055	0.941392	no
Cpeb2	-0.0303876	-0.142277	0.77715	0.854717	no
Ddx3x	-0.0304059	-0.145013	0.7807	0.857271	no
Tusc2	-0.0305418	-0.15324	0.78285	0.858692	no
Ehmt2	-0.0308366	-0.127736	0.7932	0.864983	no
Tmem189	-0.0309005	-0.155977	0.7844	0.859539	no
Fkbp2	-0.030933	-0.116545	0.81545	0.88092	no
Adamtsl2	-0.0309529	-0.0474638	0.93295	0.958577	no
Fry	-0.031103	-0.147941	0.76325	0.844681	no
Ccar2	-0.0311374	-0.111398	0.82135	0.885365	no
Nf2	-0.0311752	-0.134601	0.7921	0.864264	no
Als2	-0.0311769	-0.120491	0.81055	0.87736	no
Ppp2r5c	-0.0312273	-0.137646	0.78125	0.857575	no
Was	-0.0312656	0	1	1	no
Shisa6	-0.0313516	-0.0673308	0.8963	0.935726	no
Smim18	-0.031363	-0.03184	0.9468	0.96699	no
Slc35b1	-0.0314001	-0.130384	0.82865	0.890034	no
Ipo5	-0.0314819	-0.151636	0.7659	0.846408	no
Hyal2	-0.0315768	-0.084448	0.8771	0.924117	no
Gak	-0.0316973	-0.14577	0.7716	0.850022	no
Kalrn	-0.0317744	-0.125565	0.80135	0.870545	no
Meaf6	-0.0317875	-0.0879578	0.8607	0.912345	no
Mrgpra2a	-0.0318143	-0.051191	0.93205	0.95795	no
1700021K19Rik	-0.0318172	-0.14127	0.77395	0.852116	no
Elovl6	-0.0318227	-0.153409	0.76655	0.846709	no
Bscl2	-0.0318726	-0.0673899	0.8933	0.934212	no

Puf60	-0.0318985	-0.143545	0.7741	0.85221	no
Slco4c1	-0.0320654	0	1	1	no
Fam219a	-0.032101	-0.148107	0.7657	0.846408	no
Zfp868	-0.0321283	-0.0835456	0.86415	0.914613	no
Hsp90b1	-0.0322343	-0.162568	0.7583	0.841505	no
Mrpl35	-0.0322603	-0.133058	0.80305	0.871855	no
Plekhm2	-0.032283	-0.145539	0.7832	0.858808	no
Gpr56	-0.0322879	-0.151466	0.75725	0.840706	no
Ddx52	-0.0323001	-0.109664	0.83215	0.892132	no
Pigm	-0.0323042	-0.127229	0.79735	0.868082	no
Spata6	-0.0323563	-0.101339	0.85055	0.905565	no
Gpr119	-0.0323823	0	1	1	no
Pole4	-0.0324644	-0.108352	0.84795	0.90372	no
Nprl3	-0.0324923	-0.108662	0.83345	0.8932	no
D17Wsu104e	-0.032657	-0.11824	0.85615	0.909775	no
Lig4	-0.0326933	-0.102499	0.83755	0.895605	no
Klhdc2	-0.0328233	-0.169568	0.7589	0.841818	no
Nalcn	-0.0332119	-0.14967	0.76855	0.847859	no
Mrpl20	-0.0332136	-0.171606	0.8147	0.880253	no
Pcbp2	-0.0332632	-0.138443	0.79835	0.868868	no
Naa10	-0.0332703	-0.0858611	0.86375	0.914316	no
Slc25a26	-0.0334143	-0.0809698	0.88165	0.927166	no
Gstz1	-0.0334163	-0.0869978	0.8638	0.914316	no
Mybbp1a	-0.0335739	-0.144138	0.78305	0.858714	no
Rpn2	-0.0336052	-0.154007	0.76045	0.842778	no
Chst11	-0.0336087	-0.147077	0.7792	0.856333	no
Sgsh	-0.0337188	-0.0642096	0.8869	0.929623	no
Eif4g2	-0.0339761	-0.136333	0.7821	0.858311	no
Timmdc1	-0.0340238	-0.134718	0.8085	0.876051	no
Dusp8	-0.0340572	-0.146001	0.7824	0.858356	no
Rhoc	-0.0340897	-0.123789	0.80125	0.870542	no
Zbtb21	-0.0343262	-0.0913829	0.8591	0.91141	no
Srpk2	-0.0343408	-0.127416	0.79805	0.868772	no
Zfp397	-0.0345108	-0.135595	0.79225	0.864302	no
Ripk3	-0.0345994	0	1	1	no
Pou6f1	-0.0346288	-0.137983	0.78835	0.862103	no
Usp47	-0.034708	-0.156187	0.75105	0.83515	no
Zfp318	-0.0348707	-0.116963	0.8149	0.880397	no
Acadm	-0.0349131	-0.155881	0.77915	0.856333	no
Tex14	-0.0349171	0	1	1	no
Plin2	-0.0349697	-0.140027	0.79835	0.868868	no
Mmrn2	-0.0350323	-0.112748	0.8298	0.890386	no
Hook3	-0.0350425	-0.151764	0.7615	0.843378	no
Ptpn2	-0.0350923	-0.0524813	0.907	0.942226	no
Pitrm1	-0.0352124	-0.0469804	0.92925	0.956463	no
Phb2	-0.0352902	-0.1637	0.7796	0.856559	no
Hmgcr	-0.0353206	-0.174067	0.73555	0.823784	no
H2-T23	-0.0353465	-0.0653846	0.8915	0.932844	no
Ogfod1	-0.0355334	-0.152504	0.7595	0.842076	no
Rnf115	-0.0355366	-0.160244	0.766	0.846408	no
Pla2g7	-0.035592	-0.166763	0.7347	0.82311	no
2410016O06Rik	-0.0356253	-0.071665	0.8973	0.936255	no
Mast2	-0.0357967	-0.161939	0.74845	0.833097	no

Lsm10	-0.0358634	-0.0619073	0.90305	0.939889	no
Pnpt1	-0.0359982	-0.14455	0.7868	0.861047	no
E2f1	-0.0360096	-0.125515	0.8005	0.870154	no
Gm3219	-0.0362618	-0.0981428	0.89445	0.934751	no
Fhl4	-0.0362675	0	1	1	no
Dnajb6	-0.0363171	-0.11618	0.8115	0.877939	no
Mfsd5	-0.0363419	-0.156359	0.7839	0.859362	no
Ndfip1	-0.0363431	-0.211881	0.7306	0.820317	no
Fbxw17	-0.0364001	-0.139656	0.8	0.869825	no
Fam160b1	-0.0364732	-0.160052	0.758	0.841327	no
Psmb1	-0.0366012	-0.208741	0.7316	0.820954	no
Pgm3	-0.0366182	-0.0649751	0.8955	0.935112	no
Rph3al	-0.0367125	0	1	1	no
Mroh8	-0.036969	0	1	1	no
Zfp266	-0.0371233	-0.147914	0.77075	0.849509	no
Myct1	-0.0372633	0	1	1	no
Kat6b	-0.0375578	-0.115691	0.81305	0.879114	no
Polr2l	-0.0375756	-0.0589046	0.91385	0.946504	no
Dnajc6	-0.0376024	-0.176191	0.72195	0.813804	no
Eif4ebp1	-0.0376632	-0.0664446	0.9138	0.946504	no
40786	-0.0377561	-0.204932	0.71925	0.811695	no
Tbcd	-0.0377703	-0.184438	0.71895	0.811495	no
Fam134a	-0.0377957	-0.184202	0.73175	0.821053	no
BC017643	-0.0378178	-0.117681	0.80555	0.873925	no
2610002M06Rik	-0.0378908	-0.157502	0.7466	0.832001	no
Hap1	-0.0380019	-0.0933125	0.8507	0.905652	no
Frzb	-0.038025	-0.161652	0.7637	0.845008	no
Diap1	-0.03806	-0.129761	0.79095	0.863736	no
Ambra1	-0.038073	-0.157355	0.75095	0.83515	no
Hoxa9	-0.0380917	-0.12599	0.8006	0.870192	no
Pag1	-0.0382054	-0.140955	0.7769	0.854654	no
Hist1h2be	-0.0382567	-0.0528049	0.8889	0.930931	no
Dab1	-0.0382704	0	1	1	no
Hecw2	-0.0383168	-0.0550898	0.90645	0.941802	no
Cse1l	-0.0384343	-0.173514	0.7427	0.829481	no
Stmn3	-0.0387386	-0.209169	0.72985	0.819683	no
Snora23	-0.0387634	0	1	1	no
Ssbp2	-0.0388762	-0.166662	0.7449	0.830805	no
Sav1	-0.0389503	-0.04663	0.92415	0.953843	no
Pgrmc2	-0.0389769	-0.183879	0.7325	0.821547	no
Mtif2	-0.0389779	-0.132717	0.7915	0.863823	no
Zc3h4	-0.0389916	-0.150873	0.7657	0.846408	no
Kcnb1	-0.0390533	-0.186121	0.71355	0.806772	no
Kcnh3	-0.0391251	0	1	1	no
Grap	-0.0391316	-0.0652807	0.911	0.94468	no
Zfyve9	-0.0394808	-0.173207	0.7369	0.824711	no
N4bp1	-0.0395528	-0.15645	0.7602	0.842571	no
Ddi2	-0.0397447	-0.129479	0.7989	0.86911	no
Spr	-0.0397764	-0.189399	0.74715	0.832279	no
Trpt1	-0.0399438	-0.0807434	0.89445	0.934751	no
Car4	-0.0399889	-0.0695782	0.9055	0.941392	no
Msrbl	-0.0399959	-0.19324	0.7631	0.844586	no
Timm10	-0.0401402	-0.166198	0.8133	0.879313	no

Nup133	-0.0402217	-0.142688	0.7862	0.860642	no
Mrpl15	-0.0402872	-0.120533	0.80725	0.875197	no
Senp2	-0.0403539	-0.175731	0.72065	0.81286	no
Ankhd1	-0.0403708	-0.172135	0.7341	0.822715	no
Pdpk1	-0.0405255	-0.190382	0.69795	0.793734	no
Cul1	-0.0406396	-0.19944	0.7076	0.802301	no
Serpinb5	-0.0406405	0	1	1	no
Kras	-0.0406977	-0.191014	0.71285	0.806393	no
Gpr52	-0.0409192	-0.0104704	0.9806	0.988498	no
Nek5	-0.0410714	0	1	1	no
Tab1	-0.0411422	-0.126366	0.807	0.875123	no
Cope	-0.0412079	-0.20753	0.73725	0.824713	no
Dnal1	-0.0412311	-0.161512	0.75485	0.838533	no
Tmem68	-0.0414378	-0.136948	0.8005	0.870154	no
Tm2d1	-0.0415012	-0.116885	0.8514	0.906107	no
Churc1	-0.0416203	-0.160966	0.8277	0.889374	no
Pgam1	-0.0418204	-0.196888	0.7243	0.815426	no
Nudt15	-0.0418268	0	1	1	no
Snip1	-0.041938	-0.113088	0.8341	0.893501	no
Pld2	-0.0420391	-0.125679	0.80835	0.876032	no
Spcs3	-0.0420476	-0.181356	0.7335	0.822321	no
Mlx	-0.0421356	-0.136498	0.79105	0.863775	no
Kng2	-0.0421597	0	1	1	no
Brpf1	-0.0421621	-0.131984	0.7896	0.863011	no
Usp33	-0.0421685	-0.19541	0.6984	0.794178	no
Azin1	-0.0423526	-0.199216	0.6988	0.794565	no
Tfg	-0.0423804	-0.187304	0.70115	0.796554	no
4933415F23Rik	-0.0424013	0	1	1	no
Tomm5	-0.0426067	-0.125936	0.80485	0.873452	no
2510003E04Rik	-0.0427757	-0.208947	0.6974	0.793313	no
Mapkap1	-0.0428142	-0.173684	0.7279	0.818255	no
Pcdhb21	-0.0428252	-0.0108501	0.98525	0.991002	no
Mrfap1	-0.0428361	-0.229428	0.68355	0.781703	no
Kctd17	-0.0431024	-0.183878	0.70755	0.802301	no
Lrrc14	-0.0432105	-0.149979	0.7797	0.856598	no
Tomm70a	-0.0432186	-0.213703	0.6832	0.781448	no
BC027231	-0.0432259	-0.100899	0.8466	0.902591	no
4930444P10Rik	-0.0433353	0	1	1	no
Cdc123	-0.0434062	-0.192673	0.73195	0.821208	no
G3bp1	-0.0435911	-0.167804	0.73575	0.823938	no
Emc10	-0.0436168	-0.227966	0.68065	0.779587	no
Bphl	-0.0437129	-0.132086	0.82845	0.889963	no
Radil	-0.0437725	-0.113856	0.82505	0.887461	no
Pex2	-0.0438457	-0.133629	0.7871	0.861272	no
Fam208b	-0.0439722	-0.0447198	0.9293	0.956463	no
Faf2	-0.0440893	-0.200548	0.694	0.79053	no
Gm9855	-0.0440919	0	1	1	no
Scrt2	-0.0443799	-0.198829	0.70865	0.803012	no
Acer2	-0.0443832	-0.0638668	0.88525	0.928648	no
Dennd1b	-0.044419	-0.170941	0.7284	0.818471	no
Nit1	-0.0445243	-0.0982115	0.8418	0.898774	no
A130010J15Rik	-0.0445541	-0.108605	0.83535	0.894334	no
Ube2o	-0.0445967	-0.216834	0.6767	0.775876	no

Nr2c2	-0.0446796	-0.181545	0.7246	0.815582	no
Srp9	-0.0446866	-0.199103	0.7309	0.820377	no
Rnf145	-0.044688	-0.196615	0.6929	0.789412	no
Leng1	-0.0448379	-0.07812	0.8817	0.927166	no
Cox7a2l	-0.0449076	-0.196679	0.6886	0.785795	no
Chm	-0.045104	-0.188184	0.7144	0.807665	no
Rab14	-0.0451245	-0.226927	0.66525	0.766601	no
Dtnb	-0.0453446	-0.160281	0.74445	0.830596	no
Rab11fip1	-0.045592	0	1	1	no
Slc6a7	-0.0456154	-0.0813666	0.87775	0.924288	no
Mrpl44	-0.0459126	-0.176767	0.7568	0.840277	no
Prkdc	-0.0460448	-0.184007	0.7161	0.809092	no
Kif16b	-0.0463157	-0.196004	0.71105	0.804769	no
Gtf2a2	-0.046401	-0.142085	0.7698	0.848815	no
1700048O20Rik	-0.0466347	-0.0635736	0.9106	0.944339	no
Coq10b	-0.0467111	-0.150944	0.76795	0.84762	no
Rbbp7	-0.0467577	-0.120054	0.82295	0.885992	no
Nat6	-0.046867	-0.132148	0.8097	0.876904	no
Abcc10	-0.046987	-0.0970766	0.8472	0.903158	no
Canx	-0.0470273	-0.205737	0.67695	0.776039	no
Cwf19l1	-0.0470871	-0.119238	0.8243	0.886941	no
Tmem184b	-0.0471011	-0.209867	0.67895	0.777995	no
Asf1a	-0.0471103	-0.110821	0.8226	0.885848	no
Hnrnpd	-0.0473239	-0.203155	0.68665	0.78438	no
Brd2	-0.0475253	-0.219268	0.6587	0.760837	no
Trmt5	-0.0475669	-0.13952	0.80075	0.870283	no
Fbxw2	-0.0478251	-0.202379	0.6863	0.784104	no
Gp49a	-0.0478734	0	1	1	no
Rtcb	-0.0479542	-0.244544	0.65525	0.75823	no
Zfp418	-0.0480483	-0.0821509	0.8808	0.926618	no
Rnf14	-0.0483335	-0.225912	0.65185	0.755358	no
Pet112	-0.0483406	-0.121083	0.8247	0.88721	no
Yipf6	-0.0484135	-0.220015	0.66985	0.769895	no
Ufc1	-0.0484187	-0.257121	0.685	0.782967	no
Me2	-0.0484343	-0.208667	0.69725	0.79321	no
Pus1	-0.0484703	-0.140891	0.78065	0.857271	no
Neur11b	-0.0486316	0	1	1	no
Usp38	-0.0487626	-0.188549	0.7181	0.810673	no
Pip4k2c	-0.0490892	-0.165166	0.73695	0.824711	no
Rps23	-0.0491982	-0.10166	0.8951	0.935041	no
Nudt2	-0.0492494	-0.159779	0.808	0.875939	no
Spin1	-0.0493694	-0.232515	0.6429	0.748576	no
Gm7030	-0.049412	0	1	1	no
Prkch	-0.0495419	-0.129531	0.81035	0.877268	no
Nap1l3	-0.049569	-0.229712	0.6661	0.76718	no
Zfp239	-0.0496961	-0.109135	0.8258	0.887889	no
Slc4a9	-0.0497519	0	1	1	no
Tln2	-0.0497816	-0.228286	0.6459	0.750875	no
Sap130	-0.0498159	-0.1935	0.70945	0.803575	no
Plod3	-0.0498596	-0.16095	0.74395	0.830387	no
Mccc2	-0.0499214	-0.153037	0.78035	0.857099	no
1700088E04Rik	-0.0499991	-0.0233094	0.9632	0.977718	no
Specc1l	-0.0500481	-0.23054	0.63975	0.745897	no

Tceb3	-0.0500984	-0.196754	0.70245	0.797826	no
Pnpla8	-0.0501458	-0.223214	0.66645	0.767414	no
Nebi	-0.0502688	-0.207618	0.67285	0.772741	no
Sc5d	-0.0502778	-0.253022	0.63475	0.74135	no
6030443J06Rik	-0.0502811	0	1	1	no
5031439G07Rik	-0.0503643	-0.204672	0.67745	0.776468	no
Mpp1	-0.0503845	-0.186238	0.7108	0.804555	no
Ctf1	-0.0504145	0	1	1	no
Abl1	-0.0507585	-0.184897	0.70615	0.801	no
Vrk3	-0.0508352	-0.16741	0.75765	0.841009	no
Crebbp	-0.0508586	-0.215825	0.66945	0.769702	no
Suv39h2	-0.0510871	-0.060328	0.90095	0.938366	no
Rnf11	-0.0511226	-0.264773	0.62665	0.734951	no
Pom121	-0.0511466	-0.191748	0.7006	0.796134	no
Lyn	-0.0511709	-0.112057	0.82035	0.884628	no
Kdm5b	-0.051269	-0.204899	0.6871	0.784613	no
Faf1	-0.0513362	-0.2332	0.65125	0.754926	no
Cd69	-0.0514088	0	1	1	no
Ptpmt1	-0.051608	-0.16603	0.7752	0.852996	no
Taf7	-0.0518295	-0.0281791	0.95725	0.974287	no
Mrpl38	-0.0519687	-0.195584	0.7309	0.820377	no
Ddhd1	-0.0519895	-0.227849	0.6483	0.752493	no
Tnfrsf19	-0.0520754	-0.111214	0.8214	0.885365	no
Ecsit	-0.0521375	-0.097824	0.85555	0.909502	no
Chn1	-0.0521884	-0.240292	0.62895	0.736997	no
Epm2a	-0.0522366	-0.160287	0.78965	0.863011	no
Lrrc58	-0.052248	-0.250705	0.6157	0.726024	no
Fhl1	-0.0522718	-0.24241	0.62845	0.736671	no
Arl6ip6	-0.0523352	-0.111673	0.83325	0.893148	no
Rbbp5	-0.0523895	-0.21658	0.68065	0.779587	no
H2-DMb2	-0.0524027	0	1	1	no
Pde2a	-0.0524201	-0.236646	0.6364	0.742775	no
Ccl27a	-0.0525039	-0.0956048	0.895	0.935041	no
Pim3	-0.0525047	-0.222966	0.6807	0.779587	no
Psmc6	-0.0525166	-0.240688	0.7049	0.799912	no
Letmd1	-0.0525612	-0.230298	0.66855	0.768934	no
Stard3	-0.0526849	-0.184508	0.7343	0.822801	no
Crtc1	-0.0530508	-0.226968	0.65805	0.760285	no
Pcdhga4	-0.0530926	-0.0270846	0.9577	0.974521	no
Vdac2	-0.05312	-0.266702	0.6397	0.745897	no
Cep350	-0.0532786	-0.230908	0.64825	0.752493	no
Il13ra2	-0.0533776	0	1	1	no
Lrrc41	-0.0538777	-0.236636	0.65715	0.759625	no
Haus6	-0.0539708	-0.149387	0.7553	0.838892	no
Usp34	-0.0540147	-0.225437	0.65825	0.76045	no
Zbtb39	-0.0540281	-0.156815	0.7596	0.842117	no
Swsap1	-0.054033	-0.153103	0.78195	0.858217	no
Usp9x	-0.0540466	-0.249376	0.6122	0.723493	no
1500009L16Rik	-0.0540775	-0.0978498	0.87465	0.922635	no
1700101I11Rik	-0.0541908	-0.0101004	0.93895	0.96186	no
Kcnb2	-0.0542271	-0.230254	0.6553	0.75823	no
Tmem252	-0.0542874	0	1	1	no
Tdp2	-0.054314	-0.178528	0.7466	0.832001	no

Nucb2	-0.0543517	-0.136432	0.8119	0.878283	no
Gm4724,OTTMUSG	-0.0543621	0	1	1	no
Mapk1	-0.0545071	-0.223996	0.6547	0.7578	no
Nol11	-0.0545272	-0.17198	0.7322	0.821419	no
Dnlz	-0.0547387	-0.181856	0.71945	0.811827	no
Pspc1	-0.0547753	-0.21457	0.6967	0.792788	no
Trpm3	-0.0548124	-0.209929	0.6658	0.766968	no
Kctd11	-0.0551169	-0.146178	0.7914	0.863823	no
Zfp174	-0.0551481	-0.117007	0.81965	0.884089	no
Gstm4	-0.055193	-0.122587	0.80355	0.872255	no
Mtx1	-0.0552818	-0.153555	0.75525	0.838892	no
Mycbp2	-0.0554919	-0.258979	0.6076	0.719542	no
Ackr2	-0.0555596	0	1	1	no
Usp8	-0.0556374	-0.256509	0.60985	0.721557	no
Scgb3a1	-0.0558298	0	1	1	no
2310022A10Rik	-0.0558929	-0.128185	0.7986	0.868943	no
Npm3	-0.0559256	0	1	1	no
Alkbh7	-0.0560083	-0.127303	0.79945	0.869369	no
Fbxl12os	-0.0560191	0	1	1	no
Ywhaz	-0.0560271	-0.234559	0.63785	0.74414	no
Kctd19	-0.0560689	0	1	1	no
Prkaa1	-0.0560952	-0.270258	0.5998	0.713293	no
Acp1	-0.0562359	-0.181103	0.7134	0.80674	no
Zmym4	-0.0562611	-0.154916	0.76055	0.842803	no
Dicer1	-0.0563819	-0.242447	0.63065	0.738207	no
Rtca	-0.0565049	-0.277754	0.6289	0.736997	no
Cant1	-0.0565653	-0.232104	0.6407	0.746677	no
Ppt2	-0.0565968	-0.210507	0.7093	0.803474	no
Ubc	-0.056755	-0.28678	0.59605	0.710175	no
Phf8	-0.056772	-0.204166	0.6856	0.78345	no
Dcp1a	-0.0568632	-0.130672	0.79145	0.863823	no
Hist2h2be	-0.0569555	-0.118186	0.8233	0.886153	no
Tmem168	-0.0570077	-0.224355	0.67035	0.77027	no
Mapre3	-0.0571082	-0.297034	0.59265	0.707076	no
Prdm9	-0.0571091	0	1	1	no
Tmem9b	-0.0571404	-0.27354	0.62305	0.731829	no
Mfap1b	-0.0571755	-0.123043	0.82215	0.885669	no
Ppp1r7	-0.0571987	-0.247	0.6142	0.724964	no
Preb	-0.0572539	-0.087921	0.8626	0.91341	no
Ankrd42	-0.0572609	-0.159884	0.76815	0.847629	no
Stxbp1	-0.0573222	-0.238803	0.6284	0.736671	no
Mbd2	-0.0573925	-0.25176	0.6505	0.754255	no
Gmps	-0.0573977	-0.245241	0.6369	0.743227	no
Pdhx	-0.0574147	-0.229867	0.66945	0.769702	no
Rab3c	-0.0575226	-0.258366	0.6013	0.714249	no
Zfp647	-0.0576007	-0.0729754	0.88185	0.927166	no
Cdc73	-0.0576019	-0.186884	0.72885	0.818768	no
Cox8a	-0.0576274	-0.41544	0.59	0.705119	no
Sf3b4	-0.0577001	-0.165448	0.76955	0.84868	no
Gm9079	-0.0577048	-0.0805961	0.8858	0.928921	no
Mios	-0.0578388	-0.199661	0.70495	0.799912	no
Abhd14a	-0.0578749	-0.174455	0.72235	0.813947	no
Hist1h4a	-0.0579597	0	1	1	no

Haus2	-0.0579618	-0.174008	0.7242	0.815426	no
Spire2	-0.0582879	-0.280723	0.6067	0.718856	no
Tmem8	-0.0583133	-0.232142	0.66335	0.764876	no
Sgcd	-0.0583179	-0.186797	0.7466	0.832001	no
Hoxa2	-0.058442	0	1	1	no
Smc2os	-0.0584462	0	1	1	no
Smarca5-ps	-0.0584804	-0.0946475	0.8586	0.911211	no
Micu3	-0.0584885	-0.284772	0.58905	0.704174	no
Unc50	-0.0585314	-0.247961	0.6684	0.768828	no
Wbscr22	-0.0585753	-0.136845	0.8107	0.87736	no
Abca1	-0.0586107	-0.275222	0.583	0.69908	no
Trip4	-0.0586108	-0.225908	0.6678	0.768338	no
Fam193a	-0.05866	-0.23649	0.644	0.749272	no
Cep44	-0.0586758	-0.103716	0.86055	0.912259	no
Gm13034	-0.0587398	-0.0883512	0.8859	0.928921	no
Snx29	-0.0587719	-0.169726	0.7337	0.822337	no
Dnase1l1	-0.0587726	-0.122503	0.8069	0.875123	no
Cacng2	-0.0589641	-0.195769	0.71075	0.804555	no
Ebpl	-0.0590433	-0.164263	0.76605	0.846408	no
Sbno1	-0.0590927	-0.279972	0.58305	0.69908	no
Lta4h	-0.0590945	-0.250755	0.64685	0.751402	no
Dcakd	-0.0592881	-0.160063	0.7481	0.832917	no
Pold2	-0.0596089	-0.12217	0.80145	0.870545	no
Tpp2	-0.059737	-0.282298	0.5793	0.696157	no
BC024978	-0.0597625	-0.100321	0.84215	0.89893	no
1110051M20Rik	-0.0598762	-0.285469	0.61165	0.722983	no
Efhc2	-0.0601088	-0.107827	0.83895	0.896741	no
Slc39a10	-0.0603199	-0.273296	0.60515	0.717537	no
Taok1	-0.0604774	-0.287424	0.56345	0.682488	no
Ppip5k1	-0.0606561	-0.0345742	0.93995	0.962513	no
Golga1	-0.0606663	-0.246169	0.6236	0.732345	no
Mark1	-0.0607293	-0.269505	0.60505	0.717483	no
Golga3	-0.0607829	-0.275635	0.59185	0.706567	no
A730098P11Rik	-0.0608003	-0.25876	0.6159	0.726066	no
Osbpl2	-0.0609537	-0.270803	0.6184	0.728107	no
Rnf216	-0.061045	-0.225703	0.6495	0.75349	no
Ap1s2	-0.0610734	-0.27063	0.58215	0.698569	no
Mkx	-0.0611764	-0.17507	0.73925	0.826532	no
Ostc	-0.0612233	-0.288118	0.6437	0.749054	no
Ttf1	-0.0612608	-0.135474	0.795	0.866376	no
Slc6a15	-0.0612828	-0.28709	0.56495	0.683741	no
Chtop	-0.0612921	-0.293264	0.5742	0.692032	no
Frmpd1	-0.061487	-0.284041	0.56235	0.68165	no
E2f7	-0.0615905	0	1	1	no
Ptar1	-0.0616101	-0.142934	0.7967	0.86773	no
Lrrc40	-0.0616606	-0.192534	0.691	0.78797	no
Fam169b	-0.061701	0	1	1	no
Copg2	-0.0617852	-0.232079	0.6411	0.74688	no
Siva1	-0.0617872	-0.0864971	0.8584	0.911197	no
Helb	-0.0617926	-0.0765696	0.8745	0.92255	no
Ddx56	-0.0617964	-0.249748	0.64015	0.746232	no
5730455P16Rik	-0.0618615	-0.290413	0.57415	0.692032	no
Xiap	-0.0621686	-0.29572	0.56525	0.683857	no

Glyr1	-0.0621923	-0.28609	0.56785	0.686376	no
Cblc	-0.0622027	0	1	1	no
Eif2d	-0.0622259	-0.183051	0.71675	0.809425	no
Pelp1	-0.0623286	-0.247652	0.64275	0.748474	no
Prmt5	-0.0624168	-0.272485	0.61285	0.72395	no
Tmem59	-0.0624508	-0.338321	0.55065	0.671644	no
Atg4c	-0.0624596	-0.213757	0.66495	0.766388	no
Mthfsd	-0.0624639	-0.181978	0.71285	0.806393	no
Whamm	-0.0625522	-0.154417	0.76775	0.847611	no
Trmt12	-0.0625565	-0.146109	0.7774	0.854921	no
Calca	-0.0625649	-0.257663	0.6086	0.72034	no
Iffo1	-0.0627863	-0.256712	0.60425	0.716919	no
Mrpl42	-0.0630537	-0.265898	0.7135	0.806772	no
Clns1a	-0.0634326	-0.254033	0.62895	0.736997	no
Nrde2	-0.0634367	-0.166331	0.7344	0.822843	no
Cnih1	-0.0637782	-0.338295	0.55405	0.674427	no
Hat1	-0.0637868	-0.201947	0.7281	0.818341	no
Rwdd3	-0.0638921	-0.090138	0.8529	0.907412	no
Trappc2	-0.064275	-0.296378	0.6568	0.75937	no
Daam1	-0.0644616	-0.291654	0.56065	0.680214	no
Lrsam1	-0.0644719	-0.217988	0.6559	0.758726	no
Brox	-0.0645024	-0.302024	0.56975	0.688294	no
Ubxn7	-0.0645382	-0.290929	0.56385	0.68291	no
Mtmr7	-0.064545	-0.211424	0.66755	0.768183	no
Rnf217	-0.0647104	-0.174033	0.7416	0.828392	no
Ift43	-0.0648013	-0.127791	0.7962	0.867399	no
Pomgnt1	-0.0648142	-0.261314	0.6021	0.714879	no
Fam120b	-0.0650329	-0.276314	0.5731	0.691211	no
Plekho2	-0.0650749	-0.196576	0.70225	0.797667	no
Smg9	-0.0653078	-0.235141	0.66545	0.766764	no
Mib2	-0.0653257	-0.249635	0.6195	0.729079	no
BC029722	-0.0654069	-0.152518	0.75995	0.842364	no
Sidt2	-0.0654197	-0.278901	0.5731	0.691211	no
Eif1b	-0.0654958	-0.374421	0.55505	0.675149	no
Sec22a	-0.0655049	-0.187495	0.724	0.815426	no
Rbfa	-0.0655741	-0.21917	0.71285	0.806393	no
Abhd13	-0.065612	-0.216918	0.6603	0.762154	no
Alkbh5	-0.0656703	-0.292931	0.5676	0.686137	no
Qars	-0.0657677	-0.257406	0.60465	0.717255	no
Sumf2	-0.0658259	-0.15718	0.76355	0.844943	no
Gbe1	-0.0659274	-0.270015	0.6161	0.726237	no
Cdk5rap1	-0.0659495	-0.148436	0.78445	0.859539	no
Rft1	-0.0659533	-0.206973	0.70045	0.796031	no
4933434E20Rik	-0.0665387	-0.135459	0.79935	0.869332	no
Rps6kc1	-0.0666678	-0.287947	0.57535	0.692788	no
Proser2	-0.0668192	-0.107922	0.82705	0.888819	no
Opa3	-0.067197	-0.284137	0.6064	0.718634	no
2310061I04Rik	-0.0672237	-0.313939	0.59665	0.710507	no
Stambpl1	-0.0672457	-0.226652	0.67565	0.775084	no
Slc19a1	-0.067266	-0.219783	0.6663	0.767344	no
Gnas	-0.067338	-0.242688	0.62735	0.735642	no
Gabarapl1	-0.0673758	-0.297803	0.55355	0.674124	no
St6galnac4	-0.0673955	-0.158846	0.7505	0.834959	no

Sh3bp5l	-0.0674437	-0.304443	0.54155	0.663718	no
BC051226	-0.0675652	-0.0934878	0.8894	0.93136	no
Zcchc12	-0.0676206	-0.19662	0.7152	0.808362	no
Cln4-2	-0.067798	-0.318003	0.51575	0.64158	no
Il17rd	-0.0678066	-0.184681	0.71465	0.807878	no
Nsdhl	-0.0679014	-0.321467	0.55725	0.677204	no
Tsks	-0.0680363	0	1	1	no
Wdr24	-0.0681055	-0.228913	0.6599	0.761759	no
Tor1aip2	-0.0681258	-0.252289	0.6128	0.72395	no
2210015D19Rik	-0.0683237	-0.0894675	0.85685	0.910227	no
Prrc2c	-0.06837	-0.327284	0.5118	0.638043	no
Slc6a19	-0.0684096	-0.192206	0.69565	0.791854	no
Wbp2	-0.068445	-0.360156	0.51815	0.64348	no
Lphn3	-0.0684492	-0.291788	0.5728	0.690975	no
Rnf111	-0.0686952	-0.276607	0.5981	0.711978	no
Klhl21	-0.0690336	-0.280475	0.59275	0.707132	no
Tor1b	-0.0690472	-0.260424	0.6217	0.730825	no
Fam111a	-0.0690636	-0.150052	0.77775	0.855164	no
Zfp783	-0.0690956	-0.0874089	0.86245	0.913324	no
B3gnt1	-0.0691191	-0.334877	0.54065	0.66286	no
Nfyc	-0.0691322	-0.12499	0.79875	0.869035	no
Fbxo17	-0.0691422	0	1	1	no
Flrt2	-0.0691539	-0.201336	0.69175	0.78844	no
Clptm1l	-0.0693324	-0.328895	0.5405	0.662798	no
Mrpl4	-0.0693841	-0.242128	0.67635	0.775686	no
Gatad2b	-0.0695649	-0.237784	0.66205	0.763908	no
Bin1	-0.069655	-0.313852	0.52775	0.65156	no
Mfn2	-0.0700256	-0.32667	0.51865	0.64386	no
Gm8979	-0.0700265	0	1	1	no
Trmt11	-0.070079	-0.150151	0.7842	0.859407	no
Rnf185	-0.0703136	-0.0835676	0.87335	0.921809	no
Oxct1	-0.0703303	-0.329959	0.5034	0.629998	no
Plagl2	-0.0703713	-0.150128	0.7661	0.846408	no
Nt5c3b	-0.0704154	-0.19463	0.69385	0.790427	no
Zfp940	-0.0704839	-0.125096	0.81725	0.882218	no
BC030336	-0.0705049	-0.313084	0.5525	0.67322	no
Tspan7	-0.0705338	-0.371187	0.50065	0.627385	no
Zfp84	-0.0705583	-0.206525	0.6818	0.780375	no
Hnf1b	-0.0705755	0	1	1	no
Lsm8	-0.0705911	-0.224197	0.7436	0.830206	no
Wars2	-0.070595	-0.156676	0.75165	0.835608	no
Dopey1	-0.0705989	-0.276327	0.58985	0.705004	no
Erlin2	-0.0706462	-0.287851	0.58825	0.703535	no
2700046A07Rik	-0.0706826	0	1	1	no
Txndc9	-0.0707257	-0.23644	0.6494	0.75344	no
Sap30bp	-0.0708117	-0.248312	0.64915	0.753282	no
Zfp160	-0.0708549	-0.183705	0.72775	0.818212	no
Iars2	-0.070896	-0.198112	0.68935	0.786313	no
Clp1	-0.0709834	-0.151985	0.78585	0.860433	no
2900009J06Rik	-0.0716193	0	1	1	no
Nr2c1	-0.0716877	-0.207235	0.6898	0.786759	no
Hmces	-0.0717651	-0.166712	0.7725	0.850872	no
Fkbp3	-0.0718164	-0.227395	0.6215	0.730714	no

Ubox5	-0.0718369	-0.186252	0.72155	0.813599	no
G6pdx	-0.0720351	-0.22613	0.67365	0.773258	no
Lrp12	-0.0720813	-0.301284	0.5652	0.683857	no
Ppp2r2b	-0.0721785	-0.334396	0.4997	0.626431	no
Tomm34	-0.0722741	-0.321916	0.52095	0.645748	no
Abat	-0.072513	-0.309881	0.53525	0.658185	no
Nup98	-0.0725374	-0.286059	0.55805	0.67799	no
Dhx29	-0.0726366	-0.289368	0.57585	0.693201	no
B4galnt4	-0.0728584	-0.239145	0.6484	0.752543	no
Dll3	-0.0732951	0	1	1	no
Reep5	-0.0733431	-0.254688	0.62765	0.735929	no
Snrpc	-0.0734204	-0.128251	0.85085	0.905739	no
Cct8	-0.0735137	-0.326045	0.5124	0.638431	no
Mtfmt	-0.0735924	-0.184762	0.74015	0.827329	no
Cdhr1	-0.0736484	-0.326414	0.53065	0.654288	no
Cbx8	-0.0737941	-0.158839	0.78455	0.859578	no
Fem1a	-0.073811	-0.320056	0.53415	0.657259	no
Iscu	-0.0738351	-0.325075	0.6132	0.7241	no
Dpcd	-0.0738477	-0.276587	0.6393	0.745503	no
Mta2	-0.0739073	-0.288971	0.59655	0.710451	no
Pigg	-0.0741554	-0.225255	0.67	0.770001	no
Ints3	-0.0741722	-0.30538	0.53605	0.658803	no
Scyl1	-0.0742226	-0.216459	0.6619	0.763802	no
Zfp709	-0.0742687	-0.148607	0.7735	0.851762	no
Sumo3	-0.0744774	-0.356183	0.5083	0.634574	no
Prpf6	-0.0747216	-0.332061	0.5404	0.662737	no
2310015A10Rik	-0.0747388	-0.239289	0.6419	0.747747	no
Setdb1	-0.07476	-0.181601	0.7209	0.813004	no
Syt11	-0.0748824	-0.282883	0.57995	0.696812	no
Pfdn2	-0.0749141	-0.431517	0.55845	0.678349	no
Tmf1	-0.0749643	-0.335007	0.5097	0.635843	no
Gspt1	-0.0750614	-0.346567	0.4875	0.61544	no
Nme1	-0.0750642	-0.398185	0.498	0.62489	no
Psmd8	-0.0750802	-0.370798	0.51855	0.643796	no
Ptprn2	-0.0751057	-0.338883	0.4876	0.615508	no
Nfe2l2	-0.0752297	-0.31941	0.5545	0.674789	no
Itpkc	-0.0752585	-0.17432	0.74085	0.827902	no
Afg3l2	-0.0752989	-0.356945	0.49785	0.624761	no
Marf1	-0.0753262	-0.360887	0.47055	0.599691	no
Tmem201	-0.0753622	-0.274767	0.5752	0.692736	no
Tmem243	-0.0754779	-0.124319	0.8429	0.899422	no
Helq	-0.0755721	-0.158029	0.7679	0.84762	no
Bloc1s1	-0.0757217	-0.311315	0.69105	0.78797	no
Atmin	-0.0758798	-0.35183	0.4877	0.615517	no
Fmr1nb	-0.0759244	0	1	1	no
Cops6	-0.076112	-0.406743	0.5121	0.638117	no
Rab10	-0.0762564	-0.356338	0.47515	0.604219	no
Car12	-0.0765879	0	1	1	no
Zfp746	-0.0767279	-0.225021	0.6708	0.770644	no
Tsnax	-0.0767427	-0.380477	0.4807	0.609465	no
Coq3	-0.0768363	-0.267701	0.6138	0.724685	no
Nos3	-0.0768752	-0.141242	0.79015	0.863256	no
Fbxo18	-0.0769919	-0.340233	0.52315	0.648051	no

Lrp3	-0.0770294	-0.335735	0.5045	0.631136	no
Tmem5	-0.0772259	-0.27549	0.63055	0.738155	no
Smg8	-0.0773621	-0.0306742	0.95665	0.973952	no
Dtwd2	-0.0774287	-0.146208	0.7684	0.847835	no
Cxcl2	-0.0774602	0	1	1	no
Rab1	-0.0775455	-0.394462	0.4553	0.585203	no
Zcchc17	-0.0775595	-0.32266	0.5748	0.692506	no
Pcdha4	-0.0777373	-0.0481259	0.9258	0.954655	no
Tmem19	-0.0777566	-0.340317	0.52465	0.649122	no
Pogk	-0.0777991	-0.29504	0.55505	0.675149	no
Birc2	-0.0778712	-0.277691	0.59975	0.713293	no
Ldhd	-0.0779272	-0.243797	0.6517	0.75525	no
Tap2	-0.0779484	-0.289276	0.59205	0.706678	no
Dync1i1	-0.078248	-0.367931	0.455	0.585044	no
Zfp518b	-0.0783161	-0.290733	0.56395	0.682967	no
Cep290	-0.0783777	-0.201416	0.6972	0.79321	no
Snrk	-0.0784199	-0.335951	0.50215	0.628671	no
Nuggc	-0.0784244	0	1	1	no
Atxn10	-0.0787154	-0.402923	0.45255	0.582571	no
Cops8	-0.0787381	-0.377263	0.4942	0.621474	no
Ccnj	-0.0787727	-0.171551	0.75025	0.834821	no
Fancb	-0.0788246	-0.124753	0.8002	0.869971	no
Gstm5	-0.0791521	-0.247238	0.6193	0.728973	no
4930481A15Rik	-0.0797263	-0.0567143	0.92525	0.954459	no
Mocs2	-0.0797305	-0.324433	0.52035	0.645368	no
Plcx2	-0.0799504	-0.375659	0.4589	0.588405	no
Cpa6	-0.0800212	0	1	1	no
Zc3h3	-0.080249	0	1	1	no
Kynu	-0.0804477	0	1	1	no
Agpat6	-0.0807972	-0.382446	0.46425	0.593887	no
Agbl3	-0.0808563	-0.129924	0.78795	0.861863	no
Sbsn	-0.080925	-0.0594886	0.9023	0.939403	no
Lpin2	-0.0809354	-0.311254	0.5296	0.653357	no
Fn3krp	-0.0811203	-0.301787	0.579	0.695923	no
C230037L18Rik	-0.0811276	-0.0349769	0.95565	0.973232	no
Usp40	-0.0813414	-0.249312	0.61415	0.724964	no
Zfp712	-0.0814731	-0.182812	0.7254	0.816318	no
Sec23ip	-0.081487	-0.318167	0.5377	0.660463	no
Ccdc173	-0.081529	-0.113527	0.8434	0.899758	no
Srbd1	-0.0815432	-0.246493	0.63485	0.74135	no
Ddx6	-0.0815898	-0.381834	0.4406	0.572185	no
Gpr65	-0.0816291	0	1	1	no
Exoc8	-0.0816904	-0.321998	0.5262	0.65001	no
Prdx1	-0.0818272	-0.311087	0.52555	0.649629	no
Hcrtr1	-0.0818665	-0.146846	0.77095	0.849588	no
Mrpl49	-0.0819119	-0.194051	0.69275	0.789366	no
Dgcr2	-0.0819806	-0.371456	0.45495	0.585037	no
Ppp1r13l	-0.0819837	-0.159367	0.7681	0.847629	no
Pdcd10	-0.0820504	-0.267719	0.6365	0.742826	no
Kmt2e	-0.082436	-0.203289	0.68845	0.785795	no
Mcidas	-0.0824647	0	1	1	no
9130011E15Rik	-0.0824806	-0.316642	0.55095	0.671825	no
Osbp	-0.0826161	-0.38332	0.4556	0.585532	no

Zfp667	-0.0826417	-0.195491	0.7134	0.80674	no
Tom22	-0.0826909	-0.397515	0.5204	0.645368	no
Ofcc1	-0.0827055	0	1	1	no
Fam199x	-0.0827339	-0.336424	0.50395	0.630567	no
Osbpl9	-0.0827702	-0.246039	0.62035	0.729756	no
Gm4788	-0.0827974	0	1	1	no
Lrrc28	-0.0828558	-0.264011	0.60015	0.713453	no
Tmem204	-0.0829163	-0.0633877	0.88695	0.929623	no
Strn4	-0.0829435	-0.222601	0.6474	0.751777	no
Vmn2r-ps11	-0.0831396	0	1	1	no
Ints5	-0.0833199	-0.282914	0.58725	0.702592	no
Bag3	-0.0833852	-0.424437	0.42295	0.554365	no
Klf3	-0.0834441	-0.236485	0.6669	0.767635	no
Gabpb2	-0.0834816	-0.0856186	0.86735	0.917049	no
Nme6	-0.0835899	-0.158706	0.8011	0.870542	no
Gab1	-0.083715	-0.368078	0.4777	0.606647	no
Cypr1	-0.0838799	-0.176118	0.752	0.835787	no
Mtx2	-0.0839104	-0.378763	0.5237	0.648551	no
Nploc4	-0.0840296	-0.392731	0.42095	0.552453	no
Gm7609	-0.0840855	0	1	1	no
Ppm1d	-0.08421	-0.19644	0.7102	0.804081	no
Itfg1	-0.0842146	-0.415502	0.4299	0.561366	no
1700025G04Rik	-0.0842519	-0.372868	0.47305	0.602299	no
Tram1	-0.0844434	-0.368839	0.48945	0.616846	no
Wdfy3	-0.0846771	-0.400855	0.4154	0.547335	no
2410012E07Rik	-0.0847464	0	1	1	no
Wbp11	-0.0848585	-0.374273	0.4803	0.609017	no
Map2k5	-0.0848952	-0.329205	0.53995	0.662246	no
Fam159b	-0.0849022	0	1	1	no
Znhit6	-0.0852821	-0.256467	0.62805	0.736333	no
Ccdc97	-0.085375	-0.352485	0.50795	0.634376	no
Taf6l	-0.0854827	-0.162224	0.76075	0.842899	no
Rbmx	-0.0857124	-0.266622	0.59105	0.705929	no
Mrpl48	-0.0857164	-0.049968	0.93665	0.960691	no
Nt5m	-0.0857657	-0.335274	0.5597	0.679435	no
Ruvbl1	-0.0860285	-0.171162	0.76305	0.844586	no
Mrpl47	-0.0861772	-0.262227	0.68835	0.78578	no
Ift52	-0.0862427	-0.355644	0.52005	0.645296	no
Phtf2	-0.0863108	-0.305444	0.5536	0.674124	no
Chd1	-0.0863703	-0.304115	0.5471	0.668605	no
Ampd3	-0.0863892	-0.35235	0.4762	0.605148	no
Psen1	-0.0864457	-0.389403	0.4674	0.596881	no
AW146154	-0.0864512	0	1	1	no
Galr1	-0.0864743	-0.239489	0.65455	0.7578	no
Dcun1d2	-0.0864801	-0.2875	0.5856	0.701184	no
Tmem242	-0.0865303	-0.380264	0.47755	0.606573	no
Rprd2	-0.0865726	-0.337268	0.5064	0.633036	no
Fbxo8	-0.0868496	-0.249898	0.63355	0.740752	no
Tyw3	-0.0868533	-0.184969	0.7222	0.813848	no
Slc39a13	-0.0869095	-0.286102	0.571	0.68943	no
Arhgap31	-0.0870494	-0.391091	0.43935	0.570897	no
Tmem263	-0.0871195	-0.342977	0.51205	0.638115	no
Commd8	-0.0873644	-0.305998	0.56165	0.681052	no

Pomt2	-0.0877266	-0.282289	0.5895	0.704649	no
Atrx	-0.0877518	-0.384821	0.4524	0.582548	no
Msx1	-0.0878125	0	1	1	no
Znrf2	-0.0878186	-0.286981	0.5887	0.703819	no
Trove2	-0.0878474	-0.38292	0.448	0.578679	no
Map6	-0.0880971	-0.399511	0.415	0.547025	no
Rac1	-0.0882385	-0.453591	0.40405	0.535678	no
Zfp574	-0.0883023	-0.249208	0.61435	0.725076	no
Parp16	-0.0883527	-0.162748	0.7679	0.84762	no
Dis3l	-0.0884046	-0.335158	0.4899	0.617295	no
Dgcr14	-0.0885344	-0.265026	0.5939	0.707995	no
Plac8l1	-0.0886623	0	1	1	no
Dennd3	-0.0887527	0	1	1	no
Slc22a15	-0.0888457	-0.256725	0.6145	0.725178	no
Cep19	-0.0888929	-0.37017	0.5202	0.645301	no
Slc10a7	-0.0888976	-0.274281	0.58365	0.699737	no
Tmx4	-0.0890212	-0.434881	0.4003	0.532196	no
Eif3c	-0.0890222	-0.445012	0.40205	0.533667	no
0610030E20Rik	-0.089043	-0.233978	0.65335	0.756634	no
Hk1	-0.089192	-0.430318	0.4085	0.540444	no
Mrps18b	-0.089544	-0.231189	0.71115	0.804813	no
Pcdhb11	-0.0896002	-0.020539	0.97085	0.982851	no
Osbpl5	-0.0896306	-0.351841	0.47205	0.601314	no
Etf1	-0.0896322	-0.427825	0.41595	0.547787	no
Zmat3	-0.0896381	-0.429588	0.4025	0.533997	no
Csnk1d	-0.0896817	-0.422151	0.396	0.527695	no
Csgalnact2	-0.0897629	-0.263998	0.6164	0.726462	no
Vars	-0.0897748	-0.389352	0.4577	0.587491	no
Lonp1	-0.0897788	-0.404123	0.44805	0.578688	no
Hps5	-0.0899758	-0.354922	0.47515	0.604219	no
Ttc33	-0.0901093	-0.407833	0.46435	0.593958	no
Arfgef1	-0.0901546	-0.436222	0.3878	0.519167	no
Psmb7	-0.090337	-0.523272	0.4035	0.535109	no
Adam9	-0.0907004	-0.420012	0.39115	0.522702	no
Gigyf2	-0.0907113	-0.372855	0.46745	0.596887	no
Trmt6	-0.0907763	-0.299132	0.5733	0.691389	no
Cep68	-0.0907989	-0.3124	0.5373	0.660033	no
Gpkow	-0.0911864	-0.337976	0.52525	0.64944	no
Coa4	-0.0912646	-0.18582	0.7781	0.855478	no
Pfkip	-0.0914658	-0.395527	0.4306	0.561949	no
Ube2e1	-0.091469	-0.240645	0.62915	0.737166	no
2610507I01Rik	-0.091492	-0.271281	0.60935	0.721099	no
Lipa	-0.091583	-0.412085	0.40785	0.539745	no
Lgals6	-0.0916238	0	1	1	no
Stx8	-0.0916627	-0.303015	0.55855	0.678349	no
Mccc1os	-0.0917728	0	1	1	no
Triap1	-0.0918234	-0.414087	0.49945	0.626295	no
Ptplb	-0.0919811	-0.334275	0.5206	0.645495	no
Ei24	-0.0920188	-0.405208	0.4173	0.549075	no
Gtf2e1	-0.0920357	-0.339857	0.527	0.650876	no
Pcdhb13	-0.0920472	-0.0271238	0.95895	0.975195	no
Atp6v1h	-0.0921525	-0.481784	0.37785	0.509393	no
Scel	-0.0921901	0	1	1	no

Mfap1a	-0.0925436	-0.291052	0.57515	0.692736	no
Med16	-0.092615	-0.0433314	0.9384	0.961519	no
Zfp846	-0.0927795	-0.233651	0.66175	0.763695	no
Prr14l	-0.0929594	-0.388218	0.44705	0.577846	no
Grpel1	-0.0931188	-0.270416	0.61325	0.7241	no
4930500J02Rik	-0.0932797	0	1	1	no
Pds5a	-0.0933344	-0.396306	0.4445	0.575953	no
Capza2	-0.0934633	-0.487682	0.3762	0.507633	no
Dnajb11	-0.0937171	-0.383878	0.46585	0.595417	no
Ncam1	-0.0937288	-0.434067	0.38695	0.518447	no
Mre11a	-0.0937653	-0.274072	0.60375	0.71639	no
Ube2d1	-0.0938754	-0.437384	0.4492	0.579665	no
Wnt10a	-0.093938	0	1	1	no
Hs3st3b1	-0.0939817	-0.180514	0.71955	0.811827	no
Apmap	-0.0940445	-0.432058	0.42865	0.56001	no
Kdm5d	-0.0940986	-0.273067	0.59545	0.709587	no
Usp10	-0.09411	-0.386104	0.4716	0.600856	no
Foxn2	-0.0941783	-0.285919	0.57375	0.691741	no
Zdhhc4	-0.0941988	-0.318425	0.583	0.69908	no
Trmt2a	-0.094274	-0.232532	0.6529	0.756311	no
Sifn3	-0.0943034	0	1	1	no
Lypla1	-0.0944255	-0.409753	0.44595	0.577268	no
Rnpepl1	-0.0946794	-0.27538	0.6055	0.717814	no
Ero1l	-0.0947214	-0.394979	0.4468	0.577748	no
1810010H24Rik	-0.0947484	-0.112022	0.85665	0.910088	no
Kat2a	-0.0947772	-0.375506	0.45185	0.582009	no
Ap2b1	-0.0948346	-0.433675	0.3867	0.518269	no
Sdf4	-0.0949396	-0.462515	0.36545	0.497359	no
Hn1l	-0.0949524	-0.268671	0.62035	0.729756	no
Cln8	-0.0949633	-0.362335	0.4746	0.603809	no
Fbxo34	-0.0949909	-0.339014	0.49635	0.623351	no
Scd1	-0.0950394	-0.38707	0.4501	0.580431	no
Cbx6	-0.0950416	-0.290572	0.54915	0.670368	no
Gm9776	-0.0952552	-0.170425	0.75235	0.836105	no
2810029C07Rik	-0.0952987	0	1	1	no
Ccs	-0.0953865	-0.310862	0.61555	0.725911	no
Parn	-0.0953967	-0.351693	0.5065	0.633101	no
Fastkd1	-0.0954272	-0.321441	0.54475	0.666716	no
Gtf2b	-0.0956816	-0.419891	0.4717	0.600926	no
Hoxa10	-0.0957123	-0.270093	0.59105	0.705929	no
Csnk2b	-0.0957626	-0.457415	0.4446	0.57597	no
Ubac2	-0.0957702	-0.360392	0.4879	0.615594	no
Ifnar2	-0.0957875	-0.24251	0.62215	0.731077	no
Hist1h3a	-0.0958815	0	1	1	no
Prpf38a	-0.0959534	-0.301794	0.59655	0.710451	no
Arf1	-0.0959536	-0.452249	0.36075	0.492952	no
Nanos1	-0.096254	-0.215077	0.67575	0.775132	no
Eif3j2	-0.0963099	0	1	1	no
Mlh1	-0.0964129	-0.25632	0.6338	0.740848	no
Sec63	-0.0965133	-0.442856	0.37645	0.507867	no
Akna	-0.0966398	0	1	1	no
Spop	-0.0968588	-0.481665	0.3711	0.502489	no
Pebp1	-0.0969317	-0.53757	0.37265	0.504073	no

Chrn2	-0.0970234	-0.334058	0.5056	0.632334	no
Gpsm2	-0.0971123	-0.273224	0.5842	0.700206	no
Naa50	-0.0971799	-0.435933	0.40135	0.532897	no
Mpdu1	-0.0972861	-0.338093	0.495	0.622008	no
Ntmt1	-0.0973119	-0.313177	0.60855	0.72034	no
Agps	-0.0973177	-0.432867	0.3977	0.529482	no
Ii5	-0.0973374	0	1	1	no
Nudcd3	-0.097383	-0.452324	0.38295	0.514231	no
Xdh	-0.0974121	-0.204114	0.6957	0.791854	no
Kars	-0.097524	-0.413685	0.4065	0.538281	no
Slc10a3	-0.0976085	-0.109474	0.8247	0.88721	no
Gm15545	-0.0977711	0	1	1	no
Smg6	-0.0977793	-0.377177	0.4501	0.580431	no
Ipo11	-0.097894	-0.434261	0.4107	0.542543	no
Nup160	-0.0980372	-0.286483	0.58435	0.700259	no
Ttl4	-0.0981333	-0.181976	0.7281	0.818341	no
Ttbk1	-0.0982206	-0.458329	0.3666	0.498481	no
Socs5	-0.0982494	-0.45048	0.39065	0.522244	no
Hps3	-0.0982908	-0.325101	0.5088	0.635079	no
Yars	-0.0984756	-0.265233	0.6203	0.729756	no
Atxn2	-0.0985136	-0.456986	0.3771	0.508604	no
Emc8	-0.0985615	-0.436289	0.39745	0.529202	no
Sco1	-0.0986996	-0.284592	0.5854	0.701074	no
Gm17296	-0.098754	0	1	1	no
Zfp959	-0.0987651	-0.166916	0.76615	0.846408	no
Hist1h3b	-0.0987723	0	1	1	no
Snap23	-0.0988027	-0.198704	0.68825	0.785734	no
Cnot4	-0.09884	-0.357738	0.46785	0.597302	no
Abca6	-0.0988705	-0.433063	0.37805	0.509611	no
Tcta	-0.0988987	-0.452454	0.41695	0.548832	no
Fam115a	-0.0989568	-0.485243	0.3502	0.482461	no
Btbd7	-0.0990564	-0.316975	0.5378	0.660464	no
Lrp11	-0.099165	-0.494326	0.34605	0.478184	no
Babam1	-0.0991679	-0.440841	0.4351	0.566873	no
Ephx4	-0.0991822	-0.271634	0.6445	0.749591	no
Zfp68	-0.0991843	-0.340164	0.4917	0.619269	no
Cend1	-0.0993236	-0.525747	0.35195	0.484118	no
Pip5k1c	-0.0996066	-0.470267	0.3414	0.473188	no
Gtf2h4	-0.099684	-0.284831	0.6173	0.727264	no
Emc4	-0.0997679	-0.237887	0.63025	0.737986	no
Polr3h	-0.0998015	-0.125959	0.8017	0.870745	no
C130046K22Rik	-0.0999698	-0.230194	0.64435	0.749591	no
Ppp4r1	-0.100104	-0.368253	0.4611	0.590541	no
Gtf3c2	-0.100151	-0.12087	0.80705	0.875123	no
Nup54	-0.100241	-0.267971	0.624	0.732685	no
Cadps	-0.100662	-0.444812	0.3711	0.502489	no
Gm5801	-0.100821	-0.29516	0.6223	0.731077	no
Atad1	-0.100831	-0.499715	0.3438	0.475769	no
Ppp2ca	-0.100904	-0.530022	0.33885	0.47044	no
Tln1	-0.101092	-0.485908	0.33775	0.469306	no
Hist1h1b	-0.101345	0	1	1	no
Zscan21	-0.10139	-0.308825	0.5358	0.658617	no
Pard6a	-0.101396	-0.256123	0.60475	0.717255	no

Cox15	-0.101477	-0.312855	0.5318	0.655401	no
Rpap3	-0.101613	-0.341412	0.5256	0.649631	no
Ktn1	-0.101646	-0.466506	0.36835	0.499887	no
Nbn	-0.101847	-0.335446	0.5346	0.65763	no
St6galnac6	-0.101865	-0.407862	0.41905	0.550613	no
Etfhdh	-0.101935	-0.438936	0.41565	0.547501	no
Homez	-0.102187	-0.27791	0.57755	0.694746	no
Txk	-0.102297	0	1	1	no
Golph3	-0.102341	-0.505248	0.3459	0.478076	no
Zxdc	-0.1024	-0.31715	0.526	0.649943	no
Pfn4	-0.102413	-0.139627	0.81125	0.877795	no
Trmt61b	-0.102448	-0.134812	0.7902	0.863256	no
Vps52	-0.1025	-0.445097	0.4104	0.542308	no
Gm14325	-0.102544	-0.332365	0.52015	0.645299	no
Akr7a5	-0.102578	-0.339885	0.54545	0.667265	no
Tob1	-0.103108	-0.391712	0.4744	0.603612	no
Nhlrc2	-0.103145	-0.284974	0.58665	0.702061	no
Bnip3	-0.103159	-0.506118	0.36495	0.497002	no
Pcdhgc3	-0.103177	-0.150319	0.75915	0.841899	no
R3hdm2	-0.103178	-0.428299	0.3928	0.524432	no
Eif2b4	-0.103252	-0.0948514	0.8502	0.905338	no
Slc31a1	-0.103568	-0.439664	0.40035	0.532209	no
Slc41a2	-0.103628	-0.445142	0.3948	0.52648	no
Selo	-0.103767	-0.309013	0.57665	0.693973	no
BC023829	-0.10383	-0.380362	0.4894	0.616841	no
Mrpl55	-0.103893	-0.367279	0.58515	0.700838	no
Fstl1	-0.103955	-0.325609	0.54065	0.66286	no
Aftph	-0.103977	-0.442473	0.3767	0.508152	no
4930453N24Rik	-0.103982	-0.332476	0.5711	0.689488	no
Scap	-0.104037	-0.450788	0.3664	0.498312	no
Ddx19a	-0.104047	-0.293627	0.5867	0.702061	no
Ndufa1	-0.10421	-0.611776	0.4596	0.589132	no
Utp6	-0.104316	-0.447345	0.38625	0.518033	no
Repin1	-0.104721	-0.288151	0.5605	0.680095	no
Psmc5	-0.104846	-0.482564	0.3897	0.521132	no
Ndufb7	-0.10491	-0.634838	0.43175	0.563283	no
Neurl4	-0.104997	-0.458471	0.35455	0.486384	no
Kctd7	-0.105155	-0.392498	0.4482	0.578777	no
Usp42	-0.105201	-0.309781	0.5552	0.675269	no
Napg	-0.105396	-0.522782	0.3198	0.449781	no
1700003E16Rik	-0.10542	-0.204916	0.70445	0.79955	no
Tnfaip3	-0.105463	-0.211529	0.6698	0.769895	no
Drg2	-0.105553	-0.462978	0.41295	0.544864	no
Jag2	-0.105854	-0.435241	0.3812	0.512503	no
Gpx4	-0.105868	-0.0366972	0.94615	0.966698	no
Rufy1	-0.10589	-0.321212	0.56025	0.680037	no
Chmp3	-0.105905	-0.539766	0.3116	0.441007	no
Pdp2	-0.105943	-0.132586	0.7849	0.859803	no
Nudcd1	-0.105946	-0.264165	0.61815	0.727878	no
Inpp5e	-0.106477	-0.233666	0.6439	0.749221	no
Pdcd4	-0.106616	-0.23903	0.66595	0.767074	no
Pcdhga9	-0.106668	-0.0428595	0.93375	0.959051	no
Aamp	-0.106677	-0.470858	0.34585	0.478076	no

Sympk	-0.106714	-0.501848	0.33375	0.464916	no
Yipf3	-0.106724	-0.488324	0.3705	0.501949	no
Tnks1bp1	-0.106854	-0.49556	0.3339	0.465027	no
Cpsf2	-0.106894	-0.475843	0.3539	0.485862	no
2810006K23Rik	-0.107171	-0.244975	0.6302	0.737986	no
2310067B10Rik	-0.107208	-0.430676	0.3812	0.512503	no
Phc3	-0.107238	-0.451806	0.3594	0.4917	no
4930429B21Rik	-0.107258	-0.0501946	0.92265	0.953185	no
Cask	-0.107374	-0.486066	0.34195	0.473653	no
Armcx2	-0.10741	-0.49604	0.31505	0.444798	no
Abhd17a	-0.107567	-0.525668	0.3663	0.498227	no
Insig2	-0.10767	-0.410038	0.40615	0.537978	no
Wdr37	-0.107791	-0.477692	0.3382	0.469734	no
Rsl24d1	-0.108172	-0.412619	0.4748	0.604005	no
Adprhl2	-0.10819	-0.295274	0.60715	0.719202	no
Ccrn4l	-0.108209	-0.344846	0.51735	0.642847	no
Armc9	-0.108349	-0.257373	0.61	0.721606	no
Zfp346	-0.108355	-0.360378	0.4848	0.613082	no
Spcs1	-0.108515	-0.47209	0.4475	0.578259	no
Wbp1	-0.108723	-0.322607	0.5195	0.644794	no
Sdhb	-0.108761	-0.586639	0.33585	0.467106	no
Tma7	-0.108942	-0.415345	0.565	0.683741	no
Mga	-0.109158	-0.4456	0.36995	0.501561	no
Nod2	-0.109231	0	1	1	no
Sh3bp2	-0.10926	0	1	1	no
Pms2	-0.10928	-0.281657	0.5912	0.706045	no
Rnaseh2a	-0.109431	-0.342529	0.53405	0.657197	no
Anks1	-0.109737	-0.440247	0.37315	0.504646	no
Mtg2	-0.109769	-0.227674	0.64685	0.751402	no
Etv5	-0.109895	-0.515596	0.31925	0.449198	no
Snrpb2	-0.110032	-0.444856	0.45255	0.582571	no
Maged1	-0.110088	-0.536014	0.31105	0.440487	no
Rnmt	-0.11016	-0.464216	0.3486	0.480756	no
Atp8b2	-0.110256	-0.523703	0.3013	0.429453	no
Dcaf5	-0.110307	-0.492168	0.3174	0.447212	no
1700052N19Rik	-0.110706	-0.354026	0.5119	0.638047	no
Urm1	-0.110729	-0.491124	0.37055	0.501949	no
Rps6ka3	-0.110845	-0.536715	0.2908	0.417944	no
Ski	-0.110917	-0.506777	0.32675	0.457519	no
Tmem69	-0.110991	-0.305286	0.5698	0.688294	no
Hmx1	-0.110996	-0.20261	0.7255	0.816318	no
A330035P11Rik	-0.111022	0	1	1	no
Gm11696	-0.111128	-0.0819635	0.8811	0.926786	no
Cln3	-0.111307	-0.306295	0.538	0.660526	no
Tmem120a	-0.111344	-0.304216	0.5338	0.657011	no
Raf1	-0.111418	-0.44268	0.37145	0.50286	no
Tmem117	-0.11159	-0.510519	0.34245	0.474247	no
Iigp1	-0.111631	-0.239694	0.63265	0.739953	no
Mtpn	-0.111797	-0.551984	0.28255	0.408299	no
Cenpb	-0.111906	-0.268216	0.5885	0.703707	no
Scly	-0.112104	-0.363673	0.4965	0.62348	no
Strada	-0.112148	-0.367207	0.45825	0.588026	no
Apold1	-0.112273	-0.225958	0.66985	0.769895	no

Txndc15	-0.112297	-0.487127	0.39665	0.528349	no
Gpr107	-0.112333	-0.498527	0.34165	0.473435	no
Trip11	-0.112443	-0.453998	0.3718	0.503231	no
Mcm9	-0.112534	-0.170437	0.7468	0.832098	no
Zfp454	-0.112537	-0.179474	0.7444	0.830596	no
Sar1b	-0.112573	-0.47805	0.42115	0.55266	no
Gtpbp4	-0.112576	-0.439344	0.41545	0.547346	no
Pparg	-0.112639	-0.1243	0.80265	0.871492	no
H1f0	-0.11265	-0.525825	0.3278	0.45865	no
Gm608	-0.112653	-0.403892	0.4251	0.556358	no
Acbd6	-0.112778	-0.374196	0.45825	0.588026	no
Tbl1xr1	-0.112859	-0.515111	0.3069	0.435796	no
Syngap1	-0.112946	-0.280896	0.56955	0.688118	no
Lnp	-0.113189	-0.530914	0.29205	0.419377	no
Rptor	-0.113195	-0.486337	0.32905	0.460011	no
Cdk12	-0.113249	-0.423341	0.4011	0.532885	no
Son	-0.113296	-0.529268	0.2836	0.409415	no
Rmnd1	-0.113321	-0.201048	0.6813	0.779947	no
Blvra	-0.113697	-0.401362	0.49775	0.624695	no
D2Wsu81e	-0.113812	-0.305784	0.5398	0.662185	no
Amigo3	-0.11385	-0.319081	0.52345	0.648302	no
Bcl6	-0.114069	-0.415429	0.4304	0.561798	no
Supt6	-0.114123	-0.550552	0.2898	0.416733	no
Pou2f1	-0.114192	-0.35899	0.46815	0.597379	no
Scrib	-0.114344	-0.36291	0.4609	0.590342	no
Sh2b1	-0.114348	-0.443119	0.3716	0.503012	no
Gm13251	-0.114388	0	1	1	no
Cers2	-0.114469	-0.473012	0.39465	0.526372	no
Fem1c	-0.114469	-0.397978	0.45125	0.581575	no
Oard1	-0.114554	-0.259962	0.59895	0.712602	no
Rbm12	-0.114603	-0.216082	0.6665	0.767414	no
Slc30a9	-0.114667	-0.574195	0.27465	0.399625	no
Mtmr9	-0.114749	-0.568551	0.2881	0.414738	no
Isg20l2	-0.115026	-0.323099	0.54455	0.666655	no
Hdac6	-0.115254	-0.39907	0.4256	0.556858	no
Ap1b1	-0.115394	-0.118141	0.7593	0.84198	no
Pdcd6	-0.11542	-0.486075	0.39995	0.53189	no
Ddx3y	-0.11589	-0.508839	0.3305	0.461601	no
Ncoa3	-0.11596	-0.452064	0.3725	0.503973	no
Syncrip	-0.116068	-0.426074	0.38845	0.519722	no
Tbl3	-0.116247	-0.436602	0.41565	0.547501	no
Pdgfa	-0.116256	-0.471637	0.44265	0.57406	no
Lace1	-0.116356	-0.335627	0.53245	0.655958	no
Nus1	-0.116508	-0.545182	0.29655	0.424369	no
Ears2	-0.116588	-0.212393	0.7018	0.797224	no
Vac14	-0.116605	-0.428595	0.42205	0.553568	no
Naf1	-0.116691	-0.294869	0.5782	0.695276	no
Degs1	-0.116741	-0.610638	0.2665	0.390939	no
Man2b2	-0.116822	-0.447347	0.3982	0.529988	no
Hkdc1	-0.11692	0	1	1	no
Sncaip	-0.116925	-0.168704	0.72835	0.818471	no
Serinc1	-0.116941	-0.506238	0.3471	0.479086	no
Ndel1	-0.116959	-0.586011	0.2721	0.396902	no

S100a11	-0.117039	-0.425322	0.6082	0.72006	no
Coa3	-0.11709	-0.641096	0.35775	0.489912	no
Mturn	-0.117092	-0.544038	0.2743	0.399276	no
Hlcs	-0.11716	-0.475064	0.3598	0.492009	no
Emcn	-0.117179	-0.313437	0.5327	0.656023	no
Rnf167	-0.117211	-0.507082	0.3756	0.507081	no
Dhrs7b	-0.117293	-0.34297	0.4945	0.621675	no
Nbr1	-0.117353	-0.542048	0.2764	0.401775	no
Hectd1	-0.117449	-0.56357	0.26335	0.387303	no
Abca17	-0.117452	0	1	1	no
Gabpa	-0.117614	-0.26315	0.6004	0.713563	no
Zfp110	-0.117889	-0.404361	0.44205	0.573394	no
Ttl	-0.11795	-0.568403	0.2704	0.395262	no
Usp14	-0.118147	-0.500512	0.3075	0.436414	no
Cnot6l	-0.118597	-0.435172	0.38195	0.513251	no
Nlk	-0.118654	-0.537134	0.299	0.427	no
Chd2	-0.118678	-0.409003	0.40875	0.540667	no
Ulk1	-0.118685	-0.530184	0.302	0.430312	no
C230004F18Rik	-0.11897	-0.203544	0.7555	0.838974	no
Gltp	-0.119111	-0.392514	0.4886	0.616184	no
Anln	-0.119136	-0.142551	0.76105	0.84295	no
Snrpn	-0.119177	-0.311864	0.4563	0.586204	no
Gpr89	-0.119309	-0.464001	0.41435	0.546385	no
Tor2a	-0.11934	-0.255459	0.6584	0.760557	no
Ganc	-0.119358	-0.24316	0.64335	0.748713	no
Ddost	-0.11948	-0.563131	0.3061	0.434986	no
Frmd3	-0.119585	-0.489677	0.3266	0.457357	no
Rab22a	-0.119645	-0.426214	0.38285	0.514148	no
Senp1	-0.119653	-0.0950884	0.8493	0.90467	no
Cept1	-0.11977	-0.484339	0.3296	0.460634	no
Fam151b	-0.11982	-0.201036	0.7333	0.822222	no
AF529169	-0.119929	-0.473224	0.36615	0.498074	no
Golga7	-0.119971	-0.489402	0.3254	0.45611	no
Prune2	-0.120201	-0.348429	0.49275	0.620121	no
Mrpl17	-0.120258	-0.450642	0.3867	0.518269	no
Pacs2	-0.120284	-0.5654	0.2569	0.379881	no
Park7	-0.120314	-0.68838	0.28125	0.407219	no
Ago3	-0.120486	-0.436462	0.3932	0.524702	no
Asb7	-0.120499	-0.379604	0.441	0.572536	no
Pafah1b2	-0.120867	-0.585959	0.25075	0.373451	no
Fbxl14	-0.12092	-0.392896	0.43275	0.564366	no
A4galt	-0.121033	-0.454739	0.3623	0.494306	no
Macf1	-0.121067	-0.561018	0.26225	0.385857	no
1700007G11Rik	-0.121197	0	1	1	no
Ulk4	-0.121229	0	1	1	no
Pgpep1	-0.12124	-0.382079	0.45335	0.583262	no
Rfc4	-0.12124	-0.0350596	0.9478	0.967741	no
Arhgap20	-0.121281	-0.40854	0.41325	0.545206	no
Myh13	-0.12129	0	1	1	no
Alkbh6	-0.121366	-0.411302	0.52055	0.645494	no
Tanc1	-0.121541	-0.553205	0.26645	0.390939	no
Fam50a	-0.122098	-0.366995	0.45945	0.588996	no
Gpr26	-0.122105	-0.207474	0.69125	0.788074	no

Trim44	-0.122106	-0.596226	0.2477	0.369988	no
Kctd6	-0.122321	-0.497146	0.38045	0.511962	no
Tmem82	-0.122413	0	1	1	no
Itgb3bp	-0.122461	-0.237398	0.6547	0.7578	no
Echdc1	-0.122645	-0.351729	0.5069	0.633422	no
Hccs	-0.12274	-0.45603	0.39325	0.524716	no
Ubl3	-0.122789	-0.613733	0.25165	0.374403	no
Mrps31	-0.122926	-0.396867	0.48785	0.615589	no
Wdr19	-0.123178	-0.397191	0.43625	0.568037	no
Vdac1	-0.12318	-0.634892	0.2524	0.375066	no
Cln3	-0.123181	-0.579526	0.2417	0.363358	no
Prkab2	-0.123189	-0.56822	0.27	0.394851	no
Furin	-0.123596	-0.486765	0.3273	0.458047	no
Copa	-0.123651	-0.505847	0.30655	0.435485	no
Fam221b	-0.123698	0	1	1	no
Picalm	-0.123726	-0.580713	0.2407	0.362471	no
Lsm14a	-0.123765	-0.536344	0.31825	0.448124	no
Adap1	-0.123766	-0.628403	0.24595	0.368079	no
Ufsp2	-0.123794	-0.527663	0.3557	0.487608	no
Uqcrb	-0.123831	-0.502407	0.54595	0.667507	no
Txndc17	-0.123857	-0.560986	0.3239	0.454536	no
Parl	-0.123925	-0.490192	0.40545	0.537212	no
Ints12	-0.124531	-0.329813	0.52895	0.652677	no
Zfp747	-0.124556	-0.261556	0.622	0.731042	no
Rtn4	-0.124671	-0.46793	0.36475	0.496882	no
Chac1	-0.124852	-0.24265	0.6694	0.769702	no
Atg4b	-0.124853	-0.599148	0.2642	0.388338	no
Mtch2	-0.12492	-0.599816	0.2669	0.39118	no
Tmem170	-0.124971	-0.273709	0.62075	0.730161	no
Tbc1d19	-0.125023	-0.571834	0.29085	0.417971	no
Slc35e3	-0.125513	-0.510307	0.3305	0.461601	no
Zxda	-0.125587	-0.290151	0.5643	0.683081	no
Fastkd2	-0.125925	-0.447152	0.393	0.52454	no
Atg13	-0.126034	-0.586179	0.26565	0.389994	no
Saal1	-0.126114	-0.27046	0.60145	0.714363	no
Cd2ap	-0.126176	-0.585586	0.25305	0.375737	no
Adnp	-0.126349	-0.59729	0.2448	0.366771	no
Tmem184c	-0.12637	-0.631521	0.23445	0.355155	no
Mcmbp	-0.12637	-0.41315	0.42305	0.554441	no
Pnck	-0.126378	-0.296733	0.5459	0.667507	no
38230	-0.126429	-0.563269	0.2615	0.384924	no
Atp5f1	-0.12659	-0.431534	0.45515	0.585067	no
Nipbl	-0.126742	-0.502046	0.31215	0.441644	no
Msrp3	-0.12688	-0.342315	0.506	0.632655	no
Zfp691	-0.126885	-0.209309	0.67465	0.774128	no
Pelo	-0.127313	-0.311193	0.53325	0.656517	no
Zscan2	-0.127357	-0.236381	0.6597	0.761594	no
Fam104a	-0.127364	-0.273901	0.58785	0.70312	no
Pcdhga5	-0.127491	-0.0631622	0.90635	0.941772	no
Nup214	-0.127576	-0.507112	0.30955	0.438948	no
Gid8	-0.12775	-0.53256	0.2872	0.413711	no
Tnrc18	-0.127767	-0.526839	0.28925	0.416032	no
Tmem41b	-0.127878	-0.523451	0.323	0.453705	no

Pgm2	-0.128026	-0.632446	0.2378	0.358994	no
Asic4	-0.128093	0	1	1	no
Trdmt1	-0.128218	-0.256335	0.6349	0.74135	no
Ppp6r2	-0.128231	-0.54765	0.2692	0.393898	no
Phf2	-0.12827	-0.466388	0.36335	0.495331	no
Samd9l	-0.12832	-0.390943	0.4465	0.577748	no
Ints4	-0.128363	-0.531994	0.3161	0.445901	no
Vrk1	-0.128384	-0.352722	0.4813	0.609993	no
P4ha1	-0.128537	-0.538237	0.29895	0.426975	no
E130317F20Rik	-0.128548	-0.0144523	0.91785	0.949409	no
Elp2	-0.128605	-0.611881	0.2589	0.382455	no
Clpb	-0.128671	-0.52683	0.3109	0.440463	no
Nckipsd	-0.128753	-0.547396	0.30835	0.43748	no
Sptssa	-0.128923	-0.468717	0.34135	0.473168	no
Sumf1	-0.128992	-0.539781	0.31685	0.446627	no
Nr2f6	-0.129038	-0.414729	0.44195	0.573377	no
Gemin5	-0.129145	-0.471301	0.34175	0.473525	no
Zfp952	-0.129153	-0.339108	0.52415	0.648806	no
Sox6	-0.129566	-0.327032	0.50775	0.634245	no
Adpgk	-0.1297	-0.448136	0.4025	0.533997	no
Cnot1	-0.129823	-0.597357	0.24065	0.362437	no
Mrpl12	-0.129904	-0.584031	0.35105	0.483131	no
Cdk5r1	-0.129913	-0.584438	0.26095	0.384413	no
Ccdc127	-0.129998	-0.584436	0.26405	0.388161	no
Gpatch2l	-0.13	-0.469976	0.37005	0.501561	no
Rnf187	-0.130013	-0.675899	0.22215	0.340921	no
BC004004	-0.130096	-0.578507	0.28205	0.407915	no
Oxsm	-0.130121	-0.247378	0.64085	0.746779	no
Zfp516	-0.130149	-0.51167	0.2995	0.427392	no
Cpsf1	-0.130173	-0.450048	0.37075	0.502168	no
Ly75	-0.130173	-0.312874	0.5439	0.666044	no
Trim45	-0.130416	-0.370072	0.45065	0.580915	no
Pex5l	-0.130457	-0.570028	0.25605	0.379004	no
Chmp7	-0.130532	-0.611057	0.2549	0.377766	no
Dlgap1	-0.130791	-0.538427	0.2885	0.415178	no
Fancm	-0.130925	-0.363579	0.4756	0.604559	no
Nfya	-0.131	-0.413807	0.41	0.541942	no
Dpp9	-0.131019	-0.600356	0.25465	0.37748	no
Zfp532	-0.131147	-0.111175	0.82535	0.887639	no
Heatr1	-0.131229	-0.440466	0.38255	0.513797	no
Tyw1	-0.131251	-0.316967	0.5239	0.648678	no
Ddx4	-0.131508	-0.196131	0.69625	0.792344	no
Tmem8c	-0.131686	0	1	1	no
Ube4b	-0.131695	-0.642144	0.20775	0.323576	no
Nif3l1	-0.131759	-0.461293	0.39485	0.52648	no
Ncstn	-0.131854	-0.298596	0.5738	0.691741	no
Chrn3	-0.131928	-0.395343	0.4268	0.558032	no
Kdm3a	-0.131999	-0.415583	0.39505	0.526694	no
Mrps9	-0.132072	-0.52095	0.36155	0.493689	no
Wdr45b	-0.132169	-0.572853	0.29485	0.422484	no
Mex3a	-0.132173	0	1	1	no
Actr10	-0.132179	-0.638134	0.2156	0.333337	no
0610010K14Rik	-0.13219	-0.285612	0.5681	0.686616	no

Klhl17	-0.132294	-0.472241	0.34135	0.473168	no
Nup107	-0.132319	-0.463977	0.37265	0.504073	no
Tmem70	-0.132336	-0.464344	0.35265	0.48488	no
Apoa1bp	-0.132486	-0.63625	0.32005	0.44999	no
Zbtb33	-0.132611	-0.140393	0.76745	0.847491	no
Zfp938	-0.132714	-0.462549	0.4024	0.533971	no
Ssr4	-0.132775	-0.416731	0.40065	0.532554	no
Alg12	-0.133006	-0.347406	0.48375	0.612162	no
Cirh1a	-0.133212	-0.458383	0.3925	0.524137	no
Rims1	-0.133356	-0.389811	0.48205	0.610477	no
Emc6	-0.133528	-0.428345	0.3882	0.519493	no
Ppapdc3	-0.133595	-0.402698	0.47595	0.604888	no
Tatdn2	-0.133772	-0.461039	0.3506	0.482799	no
Btrc	-0.133808	-0.592436	0.23395	0.354722	no
Alyref2	-0.134112	-0.19555	0.73955	0.826728	no
Akr1c14	-0.134275	-0.299025	0.58195	0.698453	no
Eif4ebp2	-0.134288	-0.384686	0.4967	0.623672	no
Snrnp200	-0.134473	-0.639446	0.20795	0.323735	no
Aqp11	-0.134641	-0.309631	0.60005	0.713403	no
Zfp91	-0.134686	-0.590876	0.23065	0.351042	no
Trpc1	-0.134718	-0.503427	0.3464	0.478468	no
Ttc38	-0.13478	-0.440568	0.4003	0.532196	no
Asna1	-0.134798	-0.663696	0.266	0.390379	no
Herc6	-0.134851	-0.275375	0.5934	0.707653	no
Top1mt	-0.134967	-0.355417	0.52575	0.649695	no
Kdm5a	-0.135043	-0.533639	0.2879	0.414495	no
Rdh12	-0.135098	0	1	1	no
Jup	-0.13511	-0.661453	0.1962	0.309033	no
Wdr90	-0.135131	0	1	1	no
Zfp748	-0.135161	-0.331621	0.51885	0.644048	no
Tbl1x	-0.135232	-0.538272	0.32805	0.458855	no
Krt83	-0.135249	0	1	1	no
Fat3	-0.135648	-0.564926	0.25675	0.379702	no
Cenpq	-0.135671	-0.287371	0.6244	0.732954	no
Cd300a	-0.135693	0	1	1	no
Dnajc9	-0.135718	-0.452847	0.4187	0.550262	no
Tvp23a	-0.135933	-0.551285	0.2723	0.397033	no
Psmc6	-0.135948	-0.713661	0.20545	0.320633	no
Zdhhc17	-0.135955	-0.661855	0.2021	0.316373	no
Slc16a7	-0.136096	-0.361127	0.50805	0.634384	no
Mrpl28	-0.136291	-0.580187	0.34125	0.473128	no
Dazap2	-0.136297	-0.683619	0.217	0.334565	no
Sf3b6	-0.136526	-0.514832	0.3959	0.527615	no
Nrxn2	-0.136765	-0.64267	0.1953	0.307835	no
Mtmr3	-0.136784	-0.629636	0.22275	0.341684	no
Ptrhd1	-0.136804	-0.3081	0.5385	0.660957	no
Gm5	-0.136902	-0.168881	0.8498	0.90513	no
Klhl22	-0.13692	-0.573036	0.2916	0.418822	no
Zfp612	-0.136969	-0.480636	0.353	0.48516	no
Spag9	-0.136971	-0.628297	0.2051	0.3202	no
4632415L05Rik	-0.137105	-0.46738	0.36575	0.497581	no
Spock3	-0.137151	-0.62354	0.2092	0.325452	no
Ppat	-0.137201	-0.275201	0.59985	0.713293	no

Ccne1	-0.137301	-0.386689	0.48685	0.614912	no
Dnajc30	-0.137323	-0.288415	0.5535	0.674124	no
Setx	-0.13749	-0.61071	0.22535	0.345153	no
Tmem80	-0.137827	-0.190331	0.6827	0.781145	no
2810025M15Rik	-0.137878	-0.134863	0.78785	0.861863	no
Ica1	-0.13809	-0.496943	0.31475	0.444422	no
Fndc3a	-0.138119	-0.573666	0.2645	0.388736	no
Golga2	-0.138445	-0.629976	0.20395	0.318742	no
Pggt1b	-0.138483	-0.411796	0.44005	0.571638	no
Pik3c2a	-0.138514	-0.562389	0.27215	0.396902	no
1110037F02Rik	-0.138622	-0.551789	0.28035	0.406359	no
Htt	-0.138692	-0.659895	0.1877	0.298766	no
Aggf1	-0.138907	-0.570927	0.282	0.407915	no
Nsun3	-0.138949	-0.2554	0.66405	0.76555	no
Ankrd27	-0.139194	-0.58151	0.2445	0.366488	no
Ap5m1	-0.139241	-0.24546	0.6181	0.727877	no
Samhd1	-0.139291	-0.516844	0.2972	0.425025	no
Epg5	-0.139396	-0.589556	0.2443	0.366312	no
Tnfrsf26	-0.139512	0	1	1	no
Rtn4ip1	-0.139728	-0.562684	0.2913	0.418436	no
Fgf12	-0.139803	-0.641676	0.19645	0.309353	no
Cdv3	-0.14002	-0.611969	0.21905	0.337217	no
6430562O15Rik	-0.140089	0	1	1	no
L3mbtl1	-0.140136	-0.314532	0.5579	0.67787	no
Mgat1	-0.140229	-0.530402	0.28565	0.411881	no
Atxn1l	-0.140251	-0.585663	0.25375	0.376482	no
Cox6c	-0.140318	-0.990898	0.23535	0.356315	no
Rbm19	-0.140351	-0.367943	0.46885	0.597984	no
Akap1	-0.140397	-0.480397	0.33085	0.461895	no
Degs2	-0.140688	-0.017065	0.9308	0.957281	no
Mto1	-0.14072	-0.434814	0.41485	0.546881	no
Olig1	-0.140862	0	1	1	no
Cdkl3	-0.140906	-0.268041	0.58125	0.697805	no
Tmem8b	-0.141001	-0.61831	0.2371	0.358351	no
Derl1	-0.14106	-0.656164	0.21575	0.333491	no
Cnih4	-0.141195	-0.573517	0.27265	0.397456	no
Herc2	-0.141263	-0.6562	0.1903	0.302071	no
Ttc19	-0.141291	-0.326103	0.53785	0.660464	no
Nmd3	-0.141294	-0.512079	0.35445	0.486347	no
Foxk1	-0.141334	-0.57898	0.26015	0.383575	no
Gltscr1	-0.141366	-0.376081	0.4687	0.597908	no
Tmem230	-0.141408	-0.502019	0.3137	0.443175	no
Prr12	-0.141449	-0.552503	0.27755	0.403122	no
Myg1	-0.142126	-0.498824	0.3844	0.515917	no
Tdrd3	-0.142328	-0.473374	0.34215	0.473881	no
AU021092	-0.14234	-0.174257	0.76775	0.847611	no
Zfp429	-0.142555	0	1	1	no
Pi4k2a	-0.142687	-0.697032	0.1821	0.291954	no
Elk1	-0.143295	-0.4088	0.4391	0.570628	no
Tmem66	-0.143303	-0.67267	0.1744	0.281788	no
Tmem106b	-0.143303	-0.684329	0.18255	0.292464	no
Tmem129	-0.14334	-0.531473	0.32795	0.458812	no
Dcaf17	-0.143644	-0.235314	0.63195	0.739337	no

Cdk16	-0.143682	-0.724125	0.1734	0.280446	no
Elac2	-0.143876	-0.301333	0.5728	0.690975	no
Gtpbp8	-0.144007	-0.378309	0.44865	0.579181	no
Trim32	-0.144044	-0.555492	0.26075	0.384161	no
Eif2b1	-0.144135	-0.526413	0.34055	0.472454	no
Pld3	-0.14416	-0.728613	0.1788	0.287986	no
Qser1	-0.144219	-0.499861	0.3288	0.45971	no
Zfp273	-0.144389	-0.215166	0.66245	0.764104	no
Herc1	-0.144399	-0.671972	0.18135	0.291174	no
Tubb4b	-0.144408	-0.643368	0.1926	0.304774	no
Klhl3	-0.144418	-0.247069	0.619	0.728684	no
Eltd1	-0.144484	-0.45562	0.37715	0.508604	no
Tpp1	-0.144727	-0.607817	0.25305	0.375737	no
Pat1	-0.144785	-0.457193	0.35365	0.485651	no
A830082N09Rik	-0.144819	-0.45259	0.37015	0.501561	no
Nsun2	-0.144888	-0.664354	0.20625	0.321693	no
Ddx19b	-0.144916	-0.530934	0.28775	0.414324	no
BC049762	-0.144928	0	1	1	no
Acot6	-0.145161	-0.276049	0.6212	0.730561	no
Tdrp	-0.14524	-0.580848	0.285	0.411078	no
Zfp281	-0.145247	-0.50927	0.2988	0.426853	no
Zfp526	-0.145277	-0.318955	0.541	0.663166	no
Lias	-0.145308	-0.581382	0.2996	0.427489	no
Ttc17	-0.145347	-0.558768	0.2824	0.408171	no
Cdk7	-0.145607	-0.636345	0.2002	0.314066	no
Ankrd45	-0.145617	-0.473553	0.34165	0.473435	no
Wnt3a	-0.145721	0	1	1	no
Selt	-0.146002	-0.722719	0.16525	0.27013	no
Dcaf10	-0.146153	-0.55658	0.27425	0.399262	no
Senp8	-0.146154	-0.432946	0.3854	0.517102	no
Cdc42se1	-0.14623	-0.265066	0.59825	0.712092	no
Insr	-0.146267	-0.607717	0.2334	0.354206	no
Timm8b	-0.146323	-0.715866	0.37225	0.503686	no
Def8	-0.146334	-0.640031	0.19405	0.30652	no
Mllt4	-0.146626	-0.606611	0.2264	0.346402	no
Tcp11l1	-0.146686	-0.679517	0.1975	0.310712	no
Wipf2	-0.146985	-0.623188	0.21855	0.336564	no
Zfp27	-0.147034	-0.348153	0.47915	0.607965	no
Btbd6	-0.14717	-0.33679	0.49955	0.626361	no
Tpd52l1	-0.147241	-0.197916	0.7378	0.825259	no
Ipo9	-0.147318	-0.680604	0.18175	0.291569	no
Uso1	-0.147699	-0.710711	0.16825	0.274054	no
Slc45a4	-0.147766	-0.62435	0.21055	0.327054	no
Anxa6	-0.147841	-0.655187	0.18595	0.296728	no
Dhrs7	-0.147956	-0.635801	0.278	0.40357	no
Ppp2r5e	-0.147969	-0.683718	0.1836	0.293756	no
Erich6	-0.148148	-0.200973	0.718	0.810629	no
Abcf3	-0.148156	-0.672191	0.20685	0.322401	no
Ndst2	-0.148202	-0.362098	0.48845	0.616112	no
Acvr2a	-0.148219	-0.45903	0.36285	0.494904	no
Dusp2	-0.14825	0	1	1	no
Smurf2	-0.148294	-0.594848	0.249	0.371512	no
Xrcc4	-0.148314	-0.354516	0.5407	0.66286	no

Oprk1	-0.148318	-0.248818	0.6139	0.724739	no
Gtf2h3	-0.148379	-0.379272	0.4794	0.608224	no
Thbs3	-0.148487	-0.274863	0.5973	0.711217	no
Cpd	-0.148546	-0.713275	0.15745	0.259877	no
Eps8l1	-0.148553	-0.215979	0.6836	0.781703	no
Suv420h1	-0.148727	-0.524739	0.2859	0.412107	no
Fam175a	-0.149007	-0.258977	0.62595	0.734383	no
Prrc2b	-0.149132	-0.680484	0.17205	0.27884	no
Neurl3	-0.149392	0	1	1	no
1700001G17Rik	-0.149563	0	1	1	no
Emg1	-0.149643	-0.284095	0.5627	0.681829	no
B3gntl1	-0.149746	-0.0772912	0.8734	0.921809	no
Thbd	-0.15001	-0.602148	0.2495	0.372049	no
Erap1	-0.150158	-0.467217	0.3669	0.498634	no
Adck5	-0.15029	-0.239796	0.6623	0.763997	no
BC031361	-0.150614	-0.0595464	0.9122	0.945333	no
Pcmt1	-0.150739	-0.785899	0.15435	0.25597	no
Ikbkap	-0.150801	-0.654202	0.204	0.318783	no
Cirbp	-0.150806	-0.0635037	0.90225	0.939403	no
Tctn1	-0.150846	-0.451966	0.36735	0.498939	no
Zfp113	-0.150964	-0.370235	0.46655	0.596082	no
Phf11b	-0.151042	-0.175107	0.77475	0.852643	no
Aff1	-0.151102	-0.611372	0.2165	0.334261	no
Dnm1	-0.151282	-0.674607	0.16875	0.274734	no
Nipa1	-0.151355	-0.615747	0.21355	0.330669	no
Ssr3	-0.151388	-0.751797	0.1613	0.265077	no
Leprot	-0.151478	-0.627621	0.2668	0.391163	no
Ube2v1	-0.151482	-0.615229	0.26555	0.389891	no
Actr3b	-0.151492	-0.674865	0.23025	0.350634	no
Glt8d1	-0.151628	-0.292638	0.5938	0.707995	no
Pcid2	-0.151743	-0.538661	0.3233	0.453934	no
Igfbp3	-0.151804	-0.447337	0.4114	0.543305	no
Upp2	-0.151851	-0.371731	0.45595	0.585868	no
Rlim	-0.152042	-0.704383	0.1631	0.26734	no
Dbn1	-0.152253	-0.690529	0.1624	0.266456	no
Psmc2	-0.152272	-0.718041	0.14645	0.245601	no
Pdk1	-0.152532	-0.643758	0.21635	0.334185	no
Ing3	-0.152589	-0.406848	0.437	0.568734	no
Zbtb18	-0.152829	-0.646173	0.19855	0.311957	no
Zfyve28	-0.152949	-0.717998	0.1694	0.275589	no
Hddc3	-0.153047	-0.212767	0.74405	0.830429	no
Mtf1	-0.153052	-0.438752	0.3893	0.520754	no
4933408B17Rik	-0.153052	0	1	1	no
Thsd7b	-0.153084	-0.514164	0.30975	0.439138	no
Galnt14	-0.153462	-0.704335	0.19555	0.308192	no
Sod2	-0.153468	-0.741106	0.15035	0.250495	no
Gcc2	-0.153646	-0.681551	0.18275	0.292643	no
Cdc16	-0.153777	-0.619927	0.254	0.376726	no
Tmco1	-0.153843	-0.609677	0.24635	0.368511	no
Mrps5	-0.153956	-0.515418	0.3671	0.498701	no
Zfp354c	-0.15408	-0.579286	0.2605	0.383963	no
Kdm2a	-0.154117	-0.709618	0.1624	0.266456	no
Rint1	-0.154563	-0.288066	0.5934	0.707653	no

Coq5	-0.154677	-0.510099	0.35175	0.483944	no
Exoc6b	-0.154709	-0.710166	0.1682	0.274007	no
Tgoln1,Tgoln2	-0.154907	-0.708366	0.15085	0.251265	no
Cwf1912	-0.155066	-0.556688	0.28645	0.412766	no
Ank	-0.155095	-0.711353	0.1486	0.248109	no
Man2a1	-0.155096	-0.43628	0.40095	0.532846	no
Katnal1	-0.15535	-0.722961	0.1521	0.252903	no
Hecw1	-0.155445	-0.746953	0.1361	0.231492	no
Cd59a	-0.155545	-0.670709	0.181	0.290788	no
Pcdhga3	-0.155566	-0.108939	0.82215	0.885669	no
Elp4	-0.155626	-0.507871	0.3315	0.462462	no
Tubgcp6	-0.15563	-0.506029	0.3096	0.438972	no
Nck1	-0.15567	-0.544136	0.33295	0.464192	no
Rpe	-0.1557	-0.536549	0.31955	0.449525	no
Rhobtb2	-0.155763	-0.696647	0.17445	0.281835	no
Impa1	-0.155881	-0.737841	0.16745	0.273053	no
3110001I22Rik	-0.156029	-0.089391	0.86215	0.913225	no
Med29	-0.156104	-0.291278	0.59555	0.709643	no
Pccb	-0.156265	-0.688709	0.20745	0.323184	no
Aldh18a1	-0.156328	-0.534998	0.28095	0.406873	no
Prep	-0.1566	-0.715174	0.18515	0.295736	no
Prss57	-0.156657	0	1	1	no
Rbpms	-0.156666	-0.265043	0.59045	0.705403	no
Psmd13	-0.156668	-0.790446	0.1641	0.268581	no
Atcay	-0.156671	-0.704867	0.151	0.251483	no
Chp1	-0.15668	-0.79421	0.1399	0.23653	no
B3gnt7	-0.156702	0	1	1	no
Slc22a5	-0.156716	-0.482699	0.35585	0.487663	no
Ebag9	-0.156869	-0.520959	0.35535	0.48733	no
Pcdha2	-0.157017	-0.0891687	0.8623	0.913311	no
Ipo13	-0.157085	-0.688597	0.1916	0.30359	no
Ccdc160	-0.157092	-0.333326	0.5628	0.681886	no
E2f3	-0.157289	-0.578389	0.24015	0.361766	no
Nup43	-0.157301	-0.343858	0.5548	0.675029	no
Zfp87	-0.157367	-0.401377	0.45505	0.585052	no
Ttc37	-0.157475	-0.593537	0.25155	0.37439	no
Rab2a	-0.158311	-0.824298	0.13395	0.228627	no
Tm9sf4	-0.158347	-0.690089	0.1914	0.303309	no
Rab44	-0.158539	0	1	1	no
Ptk7	-0.158631	-0.62431	0.23325	0.3541	no
Ppip5k2	-0.158736	-0.731654	0.15475	0.256505	no
Zfp369	-0.158844	-0.413721	0.44285	0.574264	no
Ppp1r12b	-0.158938	-0.500459	0.33105	0.462125	no
Inpp5f	-0.158967	-0.735291	0.1549	0.256658	no
Zbtb43	-0.158972	-0.448332	0.36695	0.498651	no
Pikfyve	-0.158995	-0.65708	0.191	0.30282	no
Scarf1	-0.159173	-0.231796	0.6596	0.761545	no
Sgcb	-0.159219	-0.758044	0.14645	0.245601	no
Myo1d	-0.159248	-0.677088	0.19255	0.304731	no
Mrpl13	-0.159255	-0.684324	0.3085	0.437646	no
Taf12	-0.159276	-0.428446	0.46055	0.58995	no
Rcn2	-0.159323	-0.607228	0.22135	0.339969	no
Crem	-0.159575	-0.329796	0.51685	0.642527	no

Heatr3	-0.159592	-0.555036	0.26705	0.391357	no
Ghdc	-0.159948	-0.438579	0.42045	0.551906	no
Pcnxl2	-0.160032	-0.712245	0.15875	0.261502	no
Utp11l	-0.160193	-0.476688	0.4492	0.579665	no
Atf7ip	-0.160207	-0.62348	0.23085	0.351266	no
Man2a2	-0.160521	-0.752796	0.13915	0.235502	no
Rbbp4	-0.160577	-0.636593	0.20045	0.314272	no
Ikbkg	-0.160654	-0.496606	0.31575	0.445644	no
Rhbdd1	-0.160683	-0.50089	0.3093	0.438641	no
Papss1	-0.160991	-0.695408	0.16155	0.265324	no
Slc25a4	-0.160997	-0.877859	0.14685	0.246054	no
Mob1b	-0.161056	-0.475895	0.3667	0.498515	no
Kif3a	-0.161121	-0.755227	0.1308	0.224028	no
Klhl12	-0.161141	-0.681608	0.1925	0.304688	no
Ep400	-0.161286	-0.66224	0.17455	0.281928	no
Ube2j1	-0.161452	-0.805144	0.1242	0.21472	no
Gca	-0.161531	-0.516677	0.32335	0.453956	no
Zdhhc7	-0.161764	-0.664823	0.21325	0.33032	no
Gcfc2	-0.161952	0	1	1	no
Eif2ak4	-0.162078	-0.455386	0.3595	0.4917	no
Gla	-0.162111	-0.609657	0.24935	0.371909	no
Rbl2	-0.162265	-0.353293	0.4893	0.616774	no
Gm15417	-0.162266	-0.120515	0.8053	0.873797	no
Akt2	-0.16235	-0.532819	0.28425	0.410085	no
Lonrf2	-0.16246	-0.776812	0.132	0.225705	no
Kif3c	-0.162492	-0.758446	0.13975	0.236337	no
4732491K20Rik	-0.162794	-0.329275	0.53465	0.65763	no
Eprs	-0.16304	-0.794832	0.12265	0.212678	no
Pgk1	-0.16306	-0.579326	0.291	0.418096	no
Trappc12	-0.163474	-0.689432	0.16555	0.270487	no
Arhgef33	-0.163655	0	1	1	no
Mrpl10	-0.163741	-0.718291	0.2044	0.319295	no
Dnajb14	-0.163999	-0.65316	0.2412	0.362976	no
Ifi47	-0.164244	-0.209937	0.66265	0.764202	no
Slc9a5	-0.164247	-0.45293	0.3814	0.512616	no
Taf1	-0.164396	-0.731779	0.142	0.239288	no
Usp37	-0.164599	-0.333134	0.50755	0.634115	no
Zfp35	-0.164718	-0.596061	0.25615	0.379068	no
C2cd3	-0.164743	-0.490255	0.3295	0.460543	no
Slc39a11	-0.164848	-0.50457	0.3124	0.441856	no
Gpcpd1	-0.16486	-0.706603	0.1566	0.25886	no
Slc12a5	-0.164886	0	1	1	no
Tsr1	-0.164932	-0.432636	0.41765	0.549372	no
Eif3i	-0.164958	-0.791535	0.1885	0.299752	no
Papd7	-0.165041	-0.532568	0.2864	0.412738	no
Twf2	-0.165284	-0.530346	0.35275	0.484967	no
Gm20597	-0.165372	0	1	1	no
Ano10	-0.165426	-0.687826	0.16725	0.272861	no
Phtf1	-0.165517	-0.544312	0.26775	0.392253	no
Slc16a11	-0.165532	0	1	1	no
Itgb1	-0.165681	-0.796684	0.1272	0.21905	no
Spcs2	-0.165729	-0.71078	0.18235	0.292214	no
Ubr4	-0.165997	-0.770351	0.1245	0.215183	no

Eif2b5	-0.166327	-0.753759	0.16145	0.265192	no
Spag1	-0.166503	-0.280681	0.59025	0.705291	no
Rnls	-0.166511	-0.173632	0.7226	0.81416	no
Rasl11b	-0.166513	-0.453633	0.4202	0.551632	no
Mesdc2	-0.166524	-0.674526	0.19035	0.302078	no
Necap1	-0.166807	-0.854782	0.1111	0.195512	no
Ccni	-0.166872	-0.844405	0.11395	0.199548	no
Kifap3	-0.16695	-0.812357	0.1203	0.209232	no
Elmsan1	-0.166986	-0.515277	0.30435	0.433056	no
Tmem205	-0.167333	-0.608766	0.3504	0.482587	no
Rps6kb1	-0.1675	-0.647344	0.1887	0.299998	no
Spty2d1	-0.167581	-0.679005	0.18745	0.298476	no
Dock3	-0.167825	-0.772378	0.12185	0.211456	no
Ggt7	-0.167847	-0.820644	0.1268	0.218475	no
Ubqln1	-0.16788	-0.782283	0.1131	0.198321	no
Smim3	-0.167929	-0.364316	0.5106	0.636846	no
Prpf40a	-0.167948	-0.627167	0.23645	0.357695	no
Pgap2	-0.167957	-0.400266	0.41675	0.548677	no
Npas4	-0.168025	0	1	1	no
Dpf1	-0.168042	-0.291485	0.58475	0.700486	no
Tmem126a	-0.168054	-0.503003	0.4579	0.587691	no
Ermard	-0.168091	-0.303677	0.54275	0.664943	no
Pltp	-0.168193	-0.291465	0.54885	0.670311	no
Kxd1	-0.16825	-0.543397	0.35695	0.488867	no
Atrip	-0.168273	-0.490836	0.3638	0.495843	no
Mcl1	-0.168319	-0.800661	0.1256	0.216801	no
Disc1	-0.16833	0	1	1	no
Xlr4b	-0.1684	0	1	1	no
Nox4	-0.168571	-0.24215	0.62735	0.735642	no
Smu1	-0.168782	-0.354256	0.47825	0.607055	no
Vsig10	-0.168913	-0.415416	0.42245	0.553873	no
Trank1	-0.169041	0	1	1	no
Cd37	-0.169183	0	1	1	no
Ythdf1	-0.16931	-0.761642	0.15135	0.251908	no
Lemd1	-0.169339	0	1	1	no
Apbb3	-0.169586	-0.637635	0.2453	0.367313	no
Sec24c	-0.169699	-0.756607	0.12725	0.219108	no
Mapk8ip2	-0.169815	-0.837432	0.114	0.199609	no
Atxn7l3	-0.169824	-0.685607	0.16905	0.275155	no
Gys1	-0.169853	-0.726232	0.1673	0.272909	no
Mpg	-0.170042	-0.290272	0.60785	0.71971	no
Gm21949	-0.170101	-0.168365	0.7366	0.824612	no
Noc4l	-0.170169	-0.483483	0.38125	0.512518	no
Chtf8	-0.170224	-0.725131	0.1706	0.2771	no
Zcchc2	-0.170341	-0.523805	0.2924	0.419789	no
Gmppa	-0.170404	-0.53085	0.3534	0.485477	no
Hspa4l	-0.170507	-0.844402	0.105	0.18706	no
3110045C21Rik	-0.170525	-0.104783	0.84365	0.899952	no
Lamp2	-0.170579	-0.745325	0.13635	0.231798	no
Shprh	-0.170873	-0.598984	0.2313	0.351789	no
2210016F16Rik	-0.17088	-0.474376	0.3784	0.510031	no
Mid2	-0.170942	-0.710705	0.1702	0.276653	no
Ran	-0.171102	-0.852998	0.11265	0.197793	no

Rdh14	-0.171171	-0.632873	0.2665	0.390939	no
Gorab	-0.171243	-0.417431	0.4438	0.575158	no
Lgals8	-0.171402	-0.787998	0.1087	0.192181	no
Megf8	-0.171412	-0.81702	0.1025	0.183221	no
Nsmf	-0.171496	-0.706653	0.15535	0.257275	no
Pmpcb	-0.171573	-0.718302	0.2083	0.324204	no
Zfp697	-0.171603	-0.30053	0.55425	0.674609	no
Uevld	-0.171616	-0.594999	0.24605	0.368187	no
AW046200	-0.171705	0	1	1	no
Lrprrc	-0.17174	-0.812949	0.117	0.204081	no
5430405H02Rik	-0.171857	-0.214133	0.6639	0.765444	no
Vmp1	-0.172029	-0.120792	0.82315	0.886135	no
Vps13d	-0.172047	-0.803113	0.1063	0.188616	no
Srm	-0.172163	-0.692994	0.2392	0.360621	no
Vps25	-0.172434	-0.705881	0.1554	0.257325	no
2610301B20Rik	-0.172453	-0.580238	0.28925	0.416032	no
Slc36a4	-0.172471	-0.616409	0.2694	0.394148	no
Blk	-0.172873	0	1	1	no
Zfp825	-0.172875	-0.406414	0.48925	0.616769	no
Ddx20	-0.172992	-0.438048	0.4163	0.548139	no
Tle3	-0.173173	-0.649206	0.192	0.304042	no
Dync1h1	-0.173176	-0.576346	0.25555	0.378433	no
2700097O09Rik	-0.173366	-0.223751	0.64855	0.752652	no
Mocs1	-0.17344	-0.4076	0.4117	0.543593	no
Gabrg2	-0.173495	-0.787261	0.11585	0.202448	no
Sptan1	-0.173512	-0.589822	0.2342	0.354898	no
Abt1	-0.173552	-0.434918	0.39635	0.528055	no
Pdk2	-0.173569	-0.699393	0.19995	0.313748	no
Rhobtb1	-0.173606	-0.31328	0.5201	0.645298	no
Gm10190	-0.173667	0	1	1	no
Fam98a	-0.173668	-0.81231	0.1286	0.221203	no
Zc3h7b	-0.173686	-0.800409	0.12385	0.214255	no
Pvt1	-0.173767	-0.422955	0.42675	0.558032	no
Tecpr2	-0.173792	-0.762756	0.12665	0.21833	no
Pole3	-0.173874	-0.506647	0.50085	0.627517	no
Zscan12	-0.173902	-0.337487	0.50975	0.635846	no
Nfxl1	-0.173959	-0.362463	0.48505	0.613223	no
Neo1	-0.174003	-0.685297	0.16635	0.27156	no
Tspan15	-0.174073	-0.710321	0.14785	0.247075	no
Dhx34	-0.174093	-0.406488	0.4153	0.547257	no
Magoh	-0.174144	-0.479046	0.33245	0.463641	no
Gins4	-0.174293	-0.513771	0.37865	0.510212	no
Coa5	-0.174331	-0.839204	0.10555	0.187762	no
Acp2	-0.174444	-0.79527	0.12515	0.216081	no
Bivm	-0.174506	-0.595167	0.2533	0.37593	no
Arf4	-0.174531	-0.861577	0.1152	0.201444	no
Snx30	-0.174601	-0.455902	0.3812	0.512503	no
Erp44	-0.17467	-0.702246	0.19475	0.30726	no
Dll1	-0.174773	0	1	1	no
Got2	-0.174864	-0.879319	0.099	0.17802	no
Srprb	-0.174881	-0.699048	0.1881	0.299223	no
Hspb1	-0.1749	-0.91557	0.1564	0.258594	no
Btla	-0.174912	0	1	1	no

Cuta	-0.175179	-0.560619	0.2612	0.384641	no
Baalc	-0.175582	-0.522329	0.3092	0.438546	no
P2rx4	-0.1756	-0.657225	0.2335	0.354242	no
Mical3	-0.175801	-0.719447	0.15025	0.25036	no
Dnajc15	-0.176038	-0.6955	0.346	0.478165	no
Rab12	-0.176099	-0.608367	0.2668	0.391163	no
Prph2	-0.176107	0	1	1	no
Nsf	-0.176132	-0.828676	0.1143	0.200055	no
AI115009	-0.17628	0	1	1	no
Cacna1d	-0.176433	-0.324582	0.5179	0.64329	no
Bag5	-0.176462	-0.722889	0.18605	0.296852	no
Arfgap2	-0.176484	-0.652596	0.1879	0.298941	no
Larp6	-0.176512	-0.635276	0.24095	0.362765	no
Gna15	-0.176627	0	1	1	no
Pip4k2b	-0.176711	-0.850174	0.0987	0.177649	no
Med31	-0.176715	-0.461966	0.4387	0.57022	no
Slk	-0.176773	-0.804413	0.1062	0.188489	no
Meis1	-0.176819	-0.356944	0.4657	0.595283	no
Vwa9	-0.17689	-0.458287	0.3566	0.488489	no
Tipin	-0.176955	-0.456532	0.44005	0.571638	no
Nicn1	-0.177009	-0.873268	0.1084	0.191752	no
Copb2	-0.177021	-0.866357	0.0999	0.179371	no
0610031J06Rik	-0.177145	-0.738496	0.1983	0.311638	no
Cntnap5c	-0.17742	-0.352598	0.50035	0.627127	no
Alg13	-0.177544	-0.329954	0.50225	0.628737	no
1110032A03Rik	-0.177713	-0.635291	0.2504	0.373013	no
Ginm1	-0.17775	-0.545497	0.3478	0.479903	no
5430417L22Rik	-0.177752	-0.461011	0.38395	0.515417	no
Fam78b	-0.177753	-0.691836	0.16135	0.265126	no
Apobr	-0.177962	0	1	1	no
Rtp3	-0.178	0	1	1	no
Tug1	-0.178012	-0.746146	0.1341	0.228794	no
BC037032	-0.178192	0	1	1	no
Kcp	-0.178345	0	1	1	no
Mgat5b	-0.178368	-0.346254	0.5081	0.634384	no
B3gat2	-0.178493	-0.17037	0.74495	0.830805	no
Kdm3b	-0.178628	-0.712441	0.16355	0.267879	no
Skor2	-0.178734	-0.480274	0.36555	0.497359	no
Ppp1cb	-0.178803	-0.878225	0.0901	0.164627	no
Hibch	-0.178953	-0.667499	0.2233	0.34229	no
Zdhhc1	-0.179259	-0.610913	0.2616	0.385029	no
Lrrn1	-0.17926	-0.87886	0.0941	0.17069	no
Sf3a1	-0.17926	-0.790951	0.1299	0.222774	no
Gm13212	-0.179506	0	1	1	no
Tspyl3	-0.179594	-0.57278	0.2829	0.408715	no
Purb	-0.179603	-0.86274	0.08935	0.163527	no
4833412C05Rik	-0.179609	0	1	1	no
Crtc3	-0.179619	-0.57195	0.24975	0.37238	no
Cab39	-0.179631	-0.887278	0.08925	0.163389	no
Wbp1l	-0.179802	-0.650949	0.191	0.30282	no
Rrp8	-0.179898	-0.318525	0.54665	0.668178	no
Calm1	-0.179948	-0.556414	0.28755	0.414081	no
Wrb	-0.180065	-0.818742	0.1268	0.218475	no

Pdcd6ip	-0.180186	-0.847753	0.089	0.163066	no
Psap	-0.180243	-0.636854	0.2041	0.318902	no
Orc5	-0.180308	-0.533453	0.33485	0.466204	no
Pacrg	-0.180314	-0.461375	0.42865	0.56001	no
Yif1b	-0.18036	-0.772872	0.19915	0.312788	no
Cacna1a	-0.18075	-0.820352	0.1005	0.180205	no
Nanos2	-0.180878	0	1	1	no
BC052040	-0.18096	-0.334418	0.49965	0.626428	no
Gm4070,Gvin1	-0.181042	0	1	1	no
2310001H17Rik	-0.181048	0	1	1	no
Galns	-0.181094	-0.270971	0.584	0.70003	no
Pi4kb	-0.181291	-0.608173	0.2501	0.372818	no
Lsm3	-0.18159	-0.538679	0.4649	0.594489	no
Fkbp1	-0.181926	-0.46695	0.43525	0.567013	no
Slc25a11	-0.181987	-0.86836	0.11765	0.20508	no
Slc25a32	-0.182134	-0.577384	0.2756	0.400788	no
Acvr1	-0.182289	-0.581081	0.24465	0.366588	no
Samd8	-0.182518	-0.830625	0.1007	0.180466	no
Pms1	-0.182526	-0.362217	0.4919	0.619345	no
Osgin2	-0.182564	-0.551524	0.30685	0.435772	no
Uhmk1	-0.182657	-0.924615	0.08675	0.159938	no
Arl2bp	-0.182744	-0.824864	0.0962	0.173905	no
Cetn2	-0.182763	-0.74761	0.2076	0.32338	no
Tlk1	-0.182994	-0.861694	0.09865	0.177583	no
Rab39b	-0.183036	-0.837993	0.1153	0.201593	no
Slc46a1	-0.183145	-0.410702	0.45835	0.588041	no
Srp54c	-0.18322	0	1	1	no
Timm23	-0.183346	-0.342898	0.57355	0.691565	no
Gvin1	-0.183401	0	1	1	no
Pak3	-0.183492	-0.804777	0.1076	0.190591	no
Sult4a1	-0.183606	-0.852475	0.11695	0.20402	no
Apc	-0.183643	-0.855301	0.08275	0.154083	no
Mast3	-0.183826	-0.643688	0.21565	0.333376	no
Pcyox1	-0.183887	-0.903523	0.08015	0.150488	no
Atxn7l1	-0.183919	-0.488153	0.38555	0.517251	no
Gatad2a	-0.183964	-0.756999	0.12875	0.221375	no
Pomp	-0.184069	-1.09882	0.11505	0.201235	no
Gnpat	-0.184349	-0.772655	0.1466	0.245791	no
Dcaf8	-0.184428	-0.885467	0.08895	0.16302	no
Bmp2k	-0.184479	-0.344459	0.50075	0.627451	no
Gm15663	-0.184601	-0.459061	0.38105	0.512457	no
Uchl5	-0.184765	-0.679522	0.17335	0.280433	no
Krt26	-0.184787	0	1	1	no
Atp7a	-0.184831	-0.662135	0.1866	0.297408	no
Arl8b	-0.185114	-0.930668	0.0761	0.144376	no
Cog8	-0.185325	-0.689119	0.2104	0.326897	no
Atp5g3	-0.185396	-1.24199	0.07805	0.147401	no
Micall1	-0.185504	-0.729736	0.1602	0.263563	no
Dnajc19	-0.185537	-0.0793854	0.87045	0.919667	no
Rsg1	-0.185569	-0.253356	0.6926	0.789274	no
Smco4	-0.185809	-0.314012	0.62155	0.730714	no
Cnnm4	-0.185874	-0.636794	0.21265	0.329429	no
Cacng7	-0.185899	-0.850708	0.19715	0.310198	no

Dhx30	-0.185993	-0.812654	0.1034	0.184631	no
BC017158	-0.186001	-0.553274	0.2654	0.389757	no
Commd6	-0.186428	-0.490805	0.32075	0.450926	no
Commd5	-0.186429	-0.547825	0.38015	0.511714	no
Tie1	-0.186475	-0.604749	0.23635	0.357584	no
Mrps21	-0.186489	-1.03502	0.29295	0.420488	no
Atp13a3	-0.18656	-0.812087	0.1033	0.184477	no
Kif2a	-0.186828	-0.841495	0.09225	0.168023	no
Nrros	-0.18691	-0.290177	0.57885	0.695868	no
Dnajc21	-0.187249	-0.650675	0.23155	0.352089	no
Mbd5	-0.187365	-0.682829	0.169	0.275107	no
Fam134b	-0.187436	-0.860931	0.08295	0.154391	no
Gpm6a	-0.187513	-0.780132	0.11665	0.203604	no
Shank3	-0.187822	-0.630368	0.21185	0.328535	no
2700049A03Rik	-0.18793	-0.450746	0.36475	0.496882	no
Hoxc10	-0.187989	-0.410439	0.46345	0.593207	no
Gm14308,OTTMUS	-0.188016	0	1	1	no
Nell2	-0.188026	-0.622334	0.2317	0.352196	no
Tha1	-0.188556	-0.312443	0.57425	0.692031	no
Zfp276	-0.188705	-0.571832	0.27205	0.396887	no
Zfp518a	-0.188716	-0.515624	0.29665	0.424467	no
Palld	-0.188987	-0.35883	0.49455	0.621678	no
Tfip11	-0.189181	-0.783416	0.1387	0.234921	no
Bcl11a	-0.189193	-0.257274	0.60165	0.714473	no
Cbx4	-0.189225	-0.634285	0.21705	0.334565	no
Pcmdt1	-0.189269	-0.8581	0.1002	0.179715	no
Helz	-0.189274	-0.698786	0.16245	0.266472	no
Commd2	-0.189372	-0.517163	0.33545	0.466794	no
Apool	-0.189583	-0.415016	0.5107	0.636911	no
Kpna4	-0.189618	-0.896481	0.08845	0.162305	no
Bap1	-0.189708	-0.907866	0.0827	0.154055	no
Umps	-0.189718	-0.569152	0.27775	0.403295	no
Atp5h	-0.189733	-0.667976	0.38635	0.518114	no
Atp6ap2	-0.189989	-0.974182	0.07385	0.140771	no
AI314180	-0.190154	-0.926453	0.0712	0.13692	no
2310009A05Rik	-0.190182	-0.475604	0.57895	0.695923	no
Dyrk1a	-0.190333	-0.810072	0.1007	0.180466	no
Sgpp1	-0.190436	-0.899566	0.08845	0.162305	no
Alkbh4	-0.19054	-0.381234	0.4948	0.621875	no
Rab2b	-0.190595	-0.637809	0.23595	0.35706	no
Klhl9	-0.190829	-0.930356	0.07155	0.137513	no
Rph3a	-0.190983	-0.910559	0.0807	0.151072	no
Spata33	-0.19105	0	1	1	no
Pdcd11	-0.191096	-0.64029	0.21115	0.327641	no
Rapgef1	-0.191173	-0.831274	0.0953	0.172583	no
Adck2	-0.191372	-0.62844	0.2278	0.348062	no
Wasf1	-0.191393	-0.848175	0.1157	0.202212	no
Arf3	-0.191448	-0.918829	0.0782	0.1476	no
Dym	-0.191585	-0.95225	0.07175	0.137798	no
Zfp341	-0.191654	-0.385065	0.4667	0.596159	no
Stx11	-0.191711	-0.311295	0.52515	0.64944	no
Immt	-0.191924	-0.893245	0.07245	0.13864	no
Bckdha	-0.192218	-0.805528	0.1531	0.254342	no

LOC100503676	-0.19233	0	1	1	no
Ccdc91	-0.192431	-0.844017	0.1202	0.209085	no
Msn	-0.192446	-0.914018	0.08055	0.151004	no
Anapc13	-0.192493	-0.907021	0.3452	0.477407	no
Trpm7	-0.192628	-0.796019	0.1127	0.197829	no
Mgll	-0.192758	-0.850771	0.08915	0.163251	no
Arcn1	-0.193151	-0.942182	0.06955	0.134331	no
4930405A21Rik	-0.193432	-0.0954923	0.88505	0.928648	no
Uqcr10	-0.193586	-1.31617	0.148	0.247294	no
0610010B08Rik,Gr	-0.193594	0	1	1	no
Gap43	-0.193651	-0.886251	0.07535	0.143157	no
Tmed4	-0.193654	-0.906103	0.10895	0.192571	no
Trpc4ap	-0.193712	-0.898874	0.06945	0.134196	no
Mthfd1	-0.193787	-0.747999	0.15795	0.260443	no
Mkl1	-0.194032	-0.549123	0.2692	0.393898	no
37315	-0.194098	-0.934155	0.0679	0.131816	no
Usp1	-0.194265	-0.501565	0.3359	0.467126	no
Senp5	-0.194311	-0.915516	0.072	0.138078	no
Clint1	-0.194513	-0.878981	0.0938	0.170285	no
Ccdc79	-0.194535	0	1	1	no
Usp13	-0.19454	-0.88629	0.08675	0.159938	no
Vps45	-0.19488	-0.724443	0.17745	0.286124	no
Nacc2	-0.195239	-0.870811	0.07975	0.149907	no
Smim15	-0.195533	-0.804187	0.1519	0.252729	no
Erlec1	-0.195541	-0.791179	0.13145	0.224967	no
Acyp2	-0.195553	-0.91518	0.19275	0.304902	no
Plekhh3	-0.195593	-0.613304	0.24895	0.371479	no
Cib2	-0.195627	-0.639215	0.349	0.481208	no
Sec16a	-0.19586	-0.850723	0.09605	0.173728	no
Krtcap2	-0.196057	-0.947948	0.24495	0.366913	no
Pcdhb22	-0.196123	-0.0777563	0.87655	0.923685	no
Phka1	-0.196246	-0.744616	0.13305	0.227354	no
Ube2n	-0.196341	-0.960961	0.06975	0.134619	no
Tuba1b	-0.19641	-1.03823	0.06755	0.131194	no
Lipe	-0.196514	-0.305937	0.55365	0.674124	no
Tubb4a	-0.196569	-0.964613	0.07545	0.143327	no
Pars2	-0.196962	-0.330362	0.50135	0.627965	no
Cers3	-0.197038	0	1	1	no
Ralgapa1	-0.197068	-0.9314	0.0626	0.122966	no
AW209491	-0.197157	-0.597162	0.2291	0.349348	no
Pecam1	-0.19728	-0.64536	0.19505	0.30755	no
Brsk1	-0.197366	-0.966746	0.0693	0.134004	no
Sptlc2	-0.197771	-0.871068	0.09955	0.178767	no
Atp5j2	-0.197902	-1.44445	0.09375	0.170218	no
Msh3	-0.198051	-0.539038	0.3026	0.430843	no
Mul1	-0.198152	-0.832798	0.11185	0.196545	no
Eny2	-0.198154	-0.572832	0.25285	0.375525	no
Ngly1	-0.198166	-0.751442	0.1309	0.224171	no
Tmem128	-0.198318	-0.788272	0.18995	0.30166	no
Klhdc10	-0.198483	-0.919708	0.0771	0.145876	no
Ndufa3	-0.198919	-1.60671	0.1576	0.259963	no
1700001L05Rik	-0.19903	-0.853247	0.0941	0.17069	no
Bsg	-0.199066	-0.240358	0.6301	0.737953	no

Zbtb7b	-0.199089	-0.596394	0.25545	0.378412	no
Pdzd8	-0.199253	-0.958619	0.05995	0.118692	no
St3gal4	-0.199292	-0.617709	0.26465	0.38887	no
Pcsk2	-0.199397	-0.92206	0.06075	0.11999	no
Nucks1	-0.199447	-0.924918	0.061	0.12034	no
Gdap1	-0.199474	-0.983895	0.05785	0.11543	no
Mycbp	-0.199769	-0.667811	0.24485	0.366805	no
Slc39a8	-0.199923	-0.414913	0.39915	0.530933	no
Tmem222	-0.19997	-0.714563	0.1481	0.247399	no
Asb8	-0.200156	-0.7861	0.11005	0.194024	no
Vimp	-0.200203	-0.791374	0.1798	0.289245	no
Slc35g1	-0.200212	-0.343085	0.5113	0.637539	no
Gm5176	-0.200224	0	1	1	no
Hsd17b4	-0.200237	-0.910078	0.08905	0.163135	no
Snappc2	-0.20051	-0.664154	0.24465	0.366588	no
Tpst2	-0.200595	-0.663288	0.2275	0.34772	no
Copz1	-0.200629	-0.825389	0.0934	0.169791	no
H2-T22,H2-T9	-0.200829	-0.36037	0.4545	0.584514	no
Ddt	-0.200879	-1.02091	0.17045	0.276992	no
Gpatch3	-0.200891	-0.389296	0.4776	0.606579	no
Irgq	-0.200943	-0.974269	0.0529	0.10692	no
Pcdhgc4	-0.201006	-0.0982934	0.8473	0.903192	no
Pnpla7	-0.201063	-0.421916	0.41805	0.549625	no
Psm12	-0.201223	-1.01182	0.0718	0.137854	no
Jph3	-0.201607	-0.976244	0.061	0.12034	no
Rnf138	-0.20188	-0.436986	0.3806	0.512008	no
Uqcrg	-0.202232	-1.39599	0.093	0.169157	no
Ccdc57	-0.202271	0	1	1	no
Gm15706	-0.20239	-0.27525	0.67025	0.770221	no
Tbxas1	-0.20257	0	1	1	no
Rab3gap1	-0.20281	-0.90089	0.0841	0.156137	no
Fam168b	-0.203006	-0.951171	0.0546	0.109871	no
Smarcd3	-0.203187	-0.645388	0.2472	0.369449	no
Lix1l	-0.203326	-0.710644	0.1927	0.304859	no
Gm20257	-0.203352	0	1	1	no
Daglb	-0.203392	-0.691613	0.18865	0.299954	no
Prkd2	-0.203487	-0.337427	0.4988	0.625598	no
Cyb561d2	-0.203842	-0.672736	0.2217	0.340428	no
Mdga2	-0.203857	-0.787203	0.11415	0.199819	no
Aldh9a1	-0.203933	-0.880273	0.1013	0.181345	no
Thsd1	-0.204225	-0.400657	0.4249	0.556206	no
Ash1l	-0.204239	-0.906639	0.07205	0.138094	no
Slc35a2	-0.204555	-0.660496	0.1867	0.297531	no
8430429K09Rik	-0.20474	-0.076849	0.883	0.92766	no
Msantd4	-0.20485	-0.938362	0.08145	0.152218	no
Tmem177	-0.204948	-0.574902	0.2823	0.408071	no
Tmem202	-0.204958	-0.289262	0.6247	0.733118	no
Pcyox1l	-0.205014	-0.94831	0.0888	0.162835	no
Tbl2	-0.20503	-0.762237	0.1395	0.235974	no
Nt5c2	-0.205169	-0.688199	0.19	0.301703	no
Lnpep	-0.205181	-0.991208	0.05575	0.111896	no
Tmem179	-0.205223	-0.976549	0.0719	0.137926	no
Cops2	-0.20529	-0.956116	0.0555	0.111479	no

Arhgef12	-0.205291	-0.981109	0.0532	0.107396	no
4930451G09Rik	-0.205447	-0.338009	0.49225	0.619668	no
Sap30l	-0.205589	-1.00871	0.07855	0.148092	no
Slc15a2	-0.205669	-0.340777	0.4834	0.611836	no
Gtpbp10	-0.205756	-0.374679	0.48415	0.612493	no
Efna5	-0.206058	-0.831982	0.0939	0.170443	no
Ubxn11	-0.206332	0	1	1	no
Tmem209	-0.206338	-0.816451	0.12065	0.209758	no
Mmab	-0.206428	-0.730763	0.1671	0.272683	no
Fbxo41	-0.206439	-0.797377	0.1067	0.189199	no
Cdc40	-0.20647	-0.66974	0.20375	0.318505	no
9330162012Rik	-0.206617	0	1	1	no
Cbr4	-0.206645	-0.607046	0.3222	0.452725	no
Tars2	-0.206674	-0.641649	0.19755	0.310754	no
Mfsd8	-0.206791	-0.582321	0.2761	0.401383	no
Kpnb1	-0.206834	-1.00726	0.05045	0.102972	no
Kif5c	-0.206839	-0.857004	0.09655	0.174513	no
Pla2g12a	-0.207195	-0.569964	0.25195	0.374607	no
Mlec	-0.207212	-1.00527	0.05085	0.103582	no
Prrx2	-0.207286	0	1	1	no
Grin2d	-0.207316	0	1	1	no
Nacc1	-0.207356	-0.972057	0.062	0.121986	no
Pank4	-0.207371	-0.733679	0.1708	0.277391	no
4933402D24Rik	-0.207603	0	1	1	no
Gimap1	-0.20763	-0.246952	0.6174	0.727306	no
Mkl2	-0.20774	-0.799237	0.1039	0.185374	no
Zbtb9	-0.207864	-0.59376	0.2713	0.396228	no
Scaf8	-0.208182	-0.876387	0.0947	0.171637	no
Eng	-0.208193	-0.420402	0.4001	0.532036	no
Gstcd	-0.208314	-0.386332	0.47275	0.602032	no
Pex11b	-0.208391	-0.556077	0.2578	0.381084	no
Map4k2	-0.208417	-0.806848	0.1083	0.191601	no
Spg7	-0.208532	-0.910512	0.0932	0.169451	no
Lman2l	-0.208734	-0.863649	0.11635	0.203214	no
Cyp4f17	-0.208766	0	1	1	no
Dhx9	-0.20889	-1.0213	0.04745	0.097873	no
Spata24	-0.209066	-0.263065	0.60165	0.714473	no
Rnf40	-0.209127	-0.884377	0.087	0.16031	no
Klhl20	-0.209169	-0.929984	0.0742	0.141296	no
Idnk	-0.209263	-0.652957	0.1904	0.302121	no
Clcn5	-0.209411	-0.750343	0.13235	0.226274	no
Tapbp	-0.209443	-0.918462	0.0663	0.129125	no
Tm9sf1	-0.209471	-0.858497	0.1094	0.193032	no
Paqr4	-0.209525	-0.929696	0.05905	0.117454	no
Tcf25	-0.209561	-0.952878	0.05595	0.112213	no
Csnk1a1	-0.209617	-1.08923	0.049	0.100539	no
Spry4	-0.210081	-0.825184	0.1127	0.197829	no
Foxn3	-0.210141	-0.757533	0.15625	0.258443	no
Heatr5b	-0.210377	-0.953747	0.0616	0.121343	no
Ndufc1	-0.210552	-1.1146	0.25125	0.374028	no
Mdn1	-0.210575	-0.885951	0.0774	0.14634	no
Mapk8ip3	-0.210579	-1.07456	0.0616	0.121343	no
Col18a1	-0.210755	-0.66433	0.1789	0.288112	no

Thtpa	-0.210812	-0.663604	0.22045	0.338743	no
Seh1l	-0.210942	-0.799097	0.10895	0.192571	no
Phkb	-0.211031	-0.855619	0.1001	0.179584	no
Tm4sf1	-0.211171	-0.649873	0.2395	0.36095	no
Fam86	-0.211291	-0.241233	0.6159	0.726066	no
Rap2b	-0.211379	-0.634594	0.22005	0.338207	no
Ltn1	-0.211396	-0.975142	0.05565	0.111746	no
Ier3ip1	-0.211427	-0.962351	0.09775	0.176322	no
Gm5086	-0.211617	0	1	1	no
Nudt19	-0.211655	-0.777162	0.15875	0.261502	no
Zfp180	-0.21224	-0.839698	0.0911	0.166248	no
Serpinb9	-0.212344	-0.616976	0.24445	0.366454	no
Dnaja3	-0.212374	-0.871258	0.08385	0.15576	no
Ttc39d	-0.212748	0	1	1	no
Id1	-0.212754	-0.604105	0.33885	0.47044	no
Desi2	-0.212755	-0.671946	0.1948	0.307302	no
Pqlc2	-0.212815	-0.602201	0.28005	0.406102	no
2810001G20Rik	-0.213015	-0.446383	0.47995	0.608689	no
Mib1	-0.213043	-0.888793	0.0745	0.141746	no
C130074G19Rik	-0.213342	-0.849943	0.113	0.198224	no
Rasgrp3	-0.213565	-0.39525	0.43365	0.565262	no
Atp6v1b2	-0.213606	-0.936455	0.05795	0.115543	no
Guca1b	-0.21363	0	1	1	no
Cmtr1	-0.213647	-0.94915	0.07245	0.13864	no
Ints1	-0.213889	-0.918297	0.0655	0.127699	no
Dtx3l	-0.213941	-0.623843	0.22865	0.34912	no
Xpo5	-0.214067	-0.829978	0.09305	0.169225	no
Hspa13	-0.214129	-0.805239	0.1018	0.182191	no
Fyttd1	-0.214321	-0.936464	0.0607	0.119927	no
Mrpl45	-0.214355	-0.784898	0.14945	0.249309	no
Uqcc1	-0.214369	-0.896785	0.0738	0.140696	no
Scrn3	-0.21439	-0.949305	0.07585	0.144004	no
Ctnnd1	-0.214399	-0.97876	0.05045	0.102972	no
Pex3	-0.214496	-0.71872	0.18715	0.298141	no
Sgms2	-0.214547	-0.898314	0.08385	0.15576	no
Gnl1	-0.214889	-0.995846	0.06375	0.124874	no
Pik3r4	-0.214946	-0.906871	0.08055	0.151004	no
Ftsj1	-0.214955	-0.637692	0.2053	0.320475	no
Cog6	-0.215234	-0.912188	0.08605	0.159023	no
Cmc1	-0.215316	-0.290435	0.5509	0.671825	no
Urgcp	-0.215685	-0.890166	0.08745	0.160893	no
Bfar	-0.215836	-0.903861	0.0895	0.163734	no
Thoc3	-0.215858	-0.835199	0.12335	0.213612	no
Tmem248	-0.216208	-0.910093	0.06845	0.13267	no
Cand1	-0.216313	-1.03763	0.04005	0.084649	no
Bbs1	-0.216438	-0.662337	0.2004	0.314231	no
D330023K18Rik	-0.217002	-0.290855	0.7243	0.815426	no
Zfp217	-0.217078	-0.433363	0.38565	0.517333	no
Fzd1	-0.21708	-0.768921	0.1367	0.232274	no
Hadhb	-0.217326	-0.623467	0.2094	0.325611	no
Ercc6	-0.21741	-0.629569	0.21345	0.330552	no
Tbc1d7	-0.217447	-0.695645	0.1606	0.26409	no
Myh7b	-0.217875	0	1	1	no

Ndufa4	-0.217966	-1.72674	0.04035	0.085188	no
Ftsj2	-0.218222	-0.494116	0.39385	0.525411	no
Pigk	-0.21827	-0.986711	0.0493	0.101014	no
Hacl1	-0.218496	-0.516563	0.3314	0.462419	no
Gtf3c4	-0.218573	-0.836454	0.09295	0.169089	no
Exoc6	-0.218637	-0.830137	0.12085	0.210051	no
Pdpx	-0.218644	-0.727244	0.1879	0.298941	no
Msh6	-0.218699	-0.392986	0.45405	0.584049	no
Tsn	-0.218858	-1.0256	0.05735	0.114553	no
Trex1	-0.218873	-0.460413	0.36025	0.492573	no
Mrps27	-0.218905	-0.791574	0.15735	0.259744	no
Msl3	-0.219372	-0.780661	0.13635	0.231798	no
Tspan31	-0.219466	-1.08141	0.05935	0.117821	no
2410015M20Rik	-0.219588	-0.894796	0.1812	0.290968	no
Nop56	-0.219659	-0.497497	0.37055	0.501949	no
Gnpda1	-0.219761	-0.606439	0.26795	0.392502	no
Tab2	-0.220005	-0.958571	0.06795	0.131894	no
Arl5a	-0.220073	-1.03087	0.04605	0.095535	no
Fbxl4	-0.220259	-0.735915	0.138	0.233914	no
Gm3893	-0.220731	0	1	1	no
Med7	-0.220842	-0.146225	0.7734	0.851722	no
Rnf4	-0.220941	-0.982428	0.0688	0.133212	no
Mbtps1	-0.220989	-0.965684	0.0506	0.103263	no
Brcc3	-0.221148	-0.661372	0.18655	0.297364	no
Tgfb3	-0.221241	-0.786904	0.1351	0.230145	no
Lims1	-0.221307	-0.991181	0.0472	0.097524	no
Tbp	-0.221375	-0.558364	0.3194	0.449362	no
Rfwd2	-0.221451	-0.586664	0.2338	0.354616	no
Tmem30a	-0.221561	-1.01874	0.04905	0.10061	no
Btbd9	-0.221637	-0.926502	0.0733	0.139884	no
Tmppe	-0.221699	-0.621902	0.214	0.331172	no
Pvrl3	-0.221721	-0.822605	0.0969	0.175003	no
Elovl7	-0.22175	-1.08248	0.0345	0.07468	no
Usb1	-0.221787	-0.51058	0.3633	0.495331	no
Dusp12	-0.221832	-0.556965	0.34045	0.472414	no
Ctps	-0.221908	-0.913358	0.0905	0.165267	no
Wdr70	-0.22196	-0.633744	0.24505	0.367022	no
Haus7	-0.222157	-0.420286	0.39865	0.530374	no
Rap1b	-0.222166	-1.11532	0.04205	0.088216	no
Poll	-0.222223	-0.640412	0.2388	0.360134	no
Lman2	-0.22228	-0.992685	0.05965	0.118275	no
Ccdc96	-0.222332	0	1	1	no
Gna13	-0.2224	-0.988254	0.04675	0.096685	no
Slc29a3	-0.222619	-0.842968	0.09915	0.178266	no
8030462N17Rik	-0.222664	-0.705468	0.17325	0.28034	no
Tecpr1	-0.222737	-0.991707	0.0591	0.117518	no
Tpi1	-0.222742	-1.02966	0.0388	0.082348	no
Kdelr1	-0.222841	-0.981346	0.08445	0.156611	no
Cacna1g	-0.222968	0	1	1	no
Trim13	-0.223077	-0.573567	0.3185	0.448333	no
Xrcc3	-0.223177	0	1	1	no
C330006A16Rik	-0.223188	-0.989376	0.04655	0.096331	no
Med13	-0.223189	-0.96531	0.05905	0.117454	no

Entpd5	-0.223324	-0.897225	0.07275	0.139054	no
4930452B06Rik	-0.223401	-0.620952	0.2455	0.367571	no
Gm10336	-0.223438	-0.753358	0.1512	0.251722	no
Ahdc1	-0.223471	-0.778403	0.12975	0.222604	no
Anapc1	-0.223503	-1.02874	0.0427	0.089466	no
Rbm46	-0.223717	0	1	1	no
Sstr1	-0.223779	-0.418593	0.42465	0.555989	no
Sptbn1	-0.223877	-0.744443	0.13385	0.228485	no
Icam5	-0.223905	0	1	1	no
Pcnxl3	-0.223937	-0.890603	0.0723	0.138473	no
Ctsa	-0.22401	-0.833288	0.1148	0.200877	no
Enho	-0.224162	-0.651993	0.1852	0.29578	no
Tbc1d30	-0.224268	-0.946464	0.06785	0.131738	no
5930438M14Rik	-0.224458	0	1	1	no
AA415398	-0.224611	-0.314049	0.57095	0.68943	no
Trappc11	-0.224642	-1.02616	0.0476	0.098121	no
Zfat	-0.224748	-0.406481	0.41225	0.544211	no
Slirp	-0.224828	-0.826275	0.38795	0.519315	no
Ndufb10	-0.224856	-1.37973	0.05835	0.116253	no
C630043F03Rik	-0.224884	-0.46923	0.38245	0.513715	no
Spns1	-0.224931	-0.782394	0.115	0.201174	no
Rsad1	-0.225614	-0.629686	0.22885	0.349224	no
Pigp	-0.225655	-0.210099	0.7565	0.840014	no
Lipo1	-0.22574	-0.554615	0.3006	0.428731	no
Cisd2	-0.225767	-0.938574	0.0824	0.153626	no
Pank3	-0.225834	-1.05029	0.03295	0.071817	no
Zc3h12b	-0.225903	-0.320298	0.52115	0.645936	no
Mdm1	-0.225934	-0.322455	0.50945	0.63571	no
Ube4a	-0.225966	-1.09644	0.03235	0.070741	no
Grsf1	-0.226371	-1.03442	0.03735	0.079756	no
6430573F11Rik	-0.226732	-0.490454	0.38245	0.513715	no
Acaa1b	-0.226914	0	1	1	no
Bend5	-0.227233	-0.333305	0.5097	0.635843	no
Cdh5	-0.227322	-0.841048	0.10915	0.192771	no
Tmem261	-0.227329	-0.833557	0.2279	0.348135	no
Rhot1	-0.227384	-1.00468	0.0441	0.092065	no
Gdpgp1	-0.227519	-0.58391	0.26665	0.391073	no
Eea1	-0.227574	-1.07602	0.0346	0.074811	no
Tango2	-0.227639	-0.955601	0.05335	0.107633	no
Stk3	-0.227678	-0.660184	0.21535	0.333106	no
Aven	-0.22775	-0.618254	0.2107	0.327172	no
Tmem18	-0.227754	-0.943215	0.0781	0.147474	no
Pex10	-0.22783	-0.516327	0.36155	0.493689	no
Ctdnep1	-0.227835	-0.629169	0.2065	0.322007	no
Snx16	-0.228113	-0.868158	0.08245	0.153654	no
Acadsb	-0.228173	-0.958334	0.0711	0.136807	no
Rpp38	-0.228496	-0.405359	0.5132	0.639187	no
Mthfd2	-0.22851	-0.869194	0.11005	0.194024	no
Homer1	-0.228558	-0.704225	0.15915	0.261998	no
Acadl	-0.228674	-1.16878	0.03395	0.073645	no
Pex7	-0.229604	-0.754333	0.13055	0.223658	no
Recql5	-0.229703	-0.638434	0.2184	0.336373	no
Cstf2t	-0.229776	-0.443222	0.3845	0.515999	no

Gm14305	-0.229913	-0.40112	0.48485	0.613087	no
Alg3	-0.229929	-0.675932	0.24115	0.362942	no
Smurf1	-0.229954	-0.882052	0.0767	0.145265	no
Gbas	-0.230306	-1.09581	0.0492	0.100855	no
Ece1	-0.230496	-1.07264	0.0374	0.079824	no
Tubg1	-0.230509	-0.848938	0.13195	0.225678	no
Tagap	-0.230918	0	1	1	no
Aagab	-0.230927	-0.96751	0.0722	0.138302	no
Gosr2	-0.231048	-1.05309	0.0483	0.099302	no
D2hgdh	-0.231099	-0.568316	0.28515	0.41125	no
Usp53	-0.231497	-0.59024	0.2578	0.381084	no
Tns1	-0.231656	-1.05221	0.0346	0.074811	no
Tfb2m	-0.231673	-0.557701	0.29775	0.425628	no
Wrap53	-0.231801	-0.493089	0.37945	0.510979	no
Pgs1	-0.231854	-1.10468	0.0433	0.090595	no
Ndufa13	-0.231883	-0.916141	0.06275	0.123206	no
Vcl	-0.232147	-1.10907	0.0306	0.067572	no
Cbx3	-0.232167	-0.632476	0.25965	0.383167	no
Psd2	-0.232314	0	1	1	no
Kpna1	-0.232352	-1.11324	0.0325	0.070999	no
Dtd2	-0.232701	-0.586777	0.27165	0.396478	no
Rab11a	-0.232729	-1.19853	0.0252	0.057287	no
Ntan1	-0.232755	-0.522827	0.38715	0.518611	no
Napb	-0.2328	-1.13271	0.03145	0.069104	no
Zdhhc6	-0.232988	-0.731661	0.14135	0.238496	no
Ap2a1	-0.233047	-1.06608	0.0325	0.070999	no
E130308A19Rik	-0.233152	-0.431416	0.38645	0.518196	no
Atp2b4	-0.233225	-1.04375	0.0353	0.076064	no
Ndufa11	-0.233449	-0.989138	0.06275	0.123206	no
Pias3	-0.233691	-0.727603	0.178	0.286871	no
Ankrd17	-0.233777	-1.09607	0.02605	0.058917	no
Fam19a3	-0.234059	-0.764926	0.13705	0.232661	no
Fmnl2	-0.234262	-1.06658	0.0373	0.079688	no
Adam22	-0.234409	-0.933891	0.05935	0.117821	no
Dnajc24	-0.234655	-0.423841	0.3925	0.524137	no
Tubgcp5	-0.23467	-0.884339	0.0901	0.164627	no
Dhdh	-0.234787	-0.318022	0.54635	0.667873	no
Wbscr27	-0.235157	-0.736362	0.16705	0.272635	no
Ndufb8	-0.235163	-1.52954	0.0353	0.076064	no
Rnf146	-0.23517	-0.674802	0.17055	0.277086	no
Ctsf	-0.235256	-0.997829	0.07005	0.13508	no
Cdc42ep3	-0.235397	-0.622596	0.2587	0.382244	no
Tmem63b	-0.235412	-1.16887	0.0277	0.062088	no
Sec31a	-0.235447	-1.12799	0.02725	0.061224	no
4933411K20Rik	-0.23562	-0.956502	0.0659	0.128459	no
Aste1	-0.235706	-0.339629	0.4937	0.621081	no
Lrrc8a	-0.235708	-1.11811	0.031	0.06833	no
Gfm2	-0.235718	-0.427925	0.41365	0.545679	no
Slc25a16	-0.235839	-0.955411	0.07245	0.13864	no
Taco1	-0.236206	-0.741521	0.2103	0.32678	no
Gdap2	-0.236292	-0.866418	0.0804	0.150808	no
Tmem241	-0.236463	-0.542786	0.27175	0.396536	no
Ddx31	-0.236496	-0.649847	0.2184	0.336373	no

Adam11	-0.236617	-1.10231	0.02745	0.0616	no
Gm14326	-0.236658	-0.546536	0.30205	0.430337	no
Fam120aos	-0.236751	-0.471133	0.4042	0.53577	no
Traf6	-0.237127	-0.751405	0.14335	0.241287	no
Bbs10	-0.237164	-0.498222	0.35315	0.485266	no
Hsd11	-0.237206	-1.15681	0.02755	0.061783	no
Eml2	-0.23727	-1.10258	0.02665	0.060049	no
Sfxn2	-0.23752	-0.380747	0.47785	0.606664	no
Acox2	-0.23763	0	1	1	no
Tmem185b	-0.237763	-0.625593	0.2434	0.365086	no
Trim37	-0.237991	-0.312797	0.5463	0.667873	no
Tmem126b	-0.237997	-0.912598	0.1542	0.255849	no
Nelfcd	-0.238054	-0.708569	0.19895	0.312511	no
Mrps2	-0.238401	-0.746899	0.135	0.230004	no
Gatad1	-0.238452	-1.08077	0.04805	0.09888	no
Pptc7	-0.238588	-1.05912	0.04155	0.087347	no
Nmnat3	-0.238609	0	1	1	no
Mms19	-0.23863	-0.852847	0.08595	0.158904	no
Pde4d	-0.238799	-1.02872	0.03985	0.084294	no
Zbtb5	-0.238801	-0.563751	0.2589	0.382455	no
Mpnd	-0.238868	-1.04198	0.0663	0.129125	no
Mstn	-0.239001	0	1	1	no
Herpud2	-0.239163	-0.857929	0.10555	0.187762	no
Arl6ip1	-0.239423	-1.2108	0.0273	0.061315	no
Txndc12	-0.239604	-0.658615	0.26535	0.389726	no
Rassf5	-0.239608	-1.14198	0.02965	0.065813	no
Ubxn2a	-0.239984	-1.07044	0.04915	0.100769	no
Rpp30	-0.240115	-0.722643	0.22925	0.349348	no
Tmem175	-0.24035	-0.520221	0.3124	0.441856	no
Abhd15	-0.24062	-0.405746	0.44675	0.577748	no
Ralgapb	-0.240653	-1.12588	0.02055	0.048246	yes
Hps1	-0.240674	-0.471101	0.3848	0.516349	no
Cdkal1	-0.240777	-0.585852	0.2766	0.401977	no
Ubap1	-0.240881	-1.00336	0.04175	0.087698	no
Gm12060	-0.240883	0	1	1	no
Kpna6	-0.241062	-1.12107	0.02965	0.065813	no
Cad	-0.241376	-0.229482	0.64685	0.751402	no
Ndufab1	-0.241377	-0.734086	0.26805	0.392562	no
Usp28	-0.241418	-0.641623	0.21215	0.328846	no
Syng2	-0.241426	-0.629589	0.2707	0.395526	no
Tbc1d23	-0.241489	-0.896421	0.0889	0.162973	no
Rora	-0.241733	-0.685491	0.1656	0.270535	no
A430005L14Rik	-0.241827	-0.446741	0.3655	0.497359	no
Syng1	-0.241997	-1.03932	0.0361	0.077536	no
Dnajc5	-0.242172	-1.13335	0.02465	0.056249	no
Prpsap1	-0.242219	-1.0836	0.05185	0.105215	no
Timm10b	-0.242345	-0.725946	0.24625	0.368403	no
C330007P06Rik	-0.242474	-0.984064	0.064	0.125253	no
Zfp687	-0.242524	-0.594045	0.2341	0.354868	no
Wars	-0.242583	-1.10146	0.0254	0.057673	no
Mtif3	-0.242741	-0.543684	0.2759	0.401136	no
Tmem110	-0.242788	-0.866759	0.09845	0.177296	no
Slc25a35	-0.242799	-0.511785	0.3595	0.4917	no

Vps26b	-0.242933	-1.04934	0.0352	0.075898	no
Galnt16	-0.243056	0	1	1	no
Nudt4	-0.243564	-1.14117	0.0214	0.049915	yes
Ppp3r1	-0.243905	-1.22846	0.02235	0.051739	no
Slc12a6	-0.243909	-0.976309	0.057	0.11394	no
Fam3c	-0.243935	-1.10939	0.0404	0.085267	no
Fth1	-0.244077	-1.00652	0.04135	0.087023	no
Dmrtb1	-0.244088	0	1	1	no
2410006H16Rik	-0.244176	-0.602772	0.2244	0.343738	no
Spryd4	-0.244265	-0.490501	0.3264	0.457174	no
Fbxo16	-0.244332	-0.465219	0.43045	0.561808	no
Stim2	-0.244465	-0.980319	0.05685	0.113691	no
Impdh2	-0.244658	0	1	1	no
Gm13483	-0.244663	0	1	1	no
Ly6e	-0.244813	-0.922863	0.06415	0.125417	no
Zfp472	-0.244899	-0.395008	0.473	0.602293	no
Xrcc5	-0.245025	-0.96329	0.0746	0.141915	no
Ncs1	-0.245334	-1.20264	0.0197	0.046489	yes
Gm6377	-0.245334	0	1	1	no
Gm15910	-0.245673	0	1	1	no
Mtrf1	-0.245798	-0.509189	0.3622	0.494221	no
Mtmr12	-0.245824	-0.756992	0.14585	0.244967	no
Exoc4	-0.245883	-1.16237	0.02565	0.058101	no
Impdh1	-0.246045	-1.25008	0.0211	0.049362	yes
Eral1	-0.24605	-0.832983	0.1249	0.215733	no
Ube2v2	-0.246226	-0.932679	0.06075	0.11999	no
Zfyve19	-0.246316	-0.704278	0.1564	0.258594	no
Sufu	-0.246474	-0.619834	0.217	0.334565	no
Yipf1	-0.246602	-0.943255	0.0579	0.115495	no
Znrd1as	-0.246642	-0.435954	0.4849	0.613091	no
Ccdc90b	-0.246727	-0.595886	0.23545	0.356385	no
Rap1a	-0.247025	-0.899336	0.09675	0.174804	no
Sec61a2	-0.247134	-1.08171	0.0444	0.092561	no
Stxbp4	-0.247337	-0.660914	0.2016	0.315814	no
Adnp2	-0.247423	-0.785108	0.1287	0.221317	no
Nudt9	-0.247629	-0.85798	0.0853	0.157989	no
Ube2g1	-0.247631	-1.05219	0.04675	0.096685	no
Ndufb9	-0.247658	-1.49245	0.03685	0.078917	no
Kif26a	-0.248011	-0.522995	0.3041	0.432746	no
Ttf2	-0.248194	-0.736156	0.15645	0.258645	no
Tbck	-0.248394	-0.762267	0.12685	0.218533	no
Kbtbd7	-0.248417	-0.900098	0.0818	0.152765	no
Nars	-0.248582	-1.14918	0.0205	0.048145	yes
Zfp438	-0.248595	-0.440888	0.41165	0.543581	no
Smndc1	-0.248897	-0.930308	0.0879	0.161519	no
Lmbrd2	-0.249102	-0.998566	0.04805	0.09888	no
Pcdhga2	-0.249182	-0.120414	0.819	0.883604	no
Sdpr	-0.249347	-0.678626	0.17235	0.279258	no
Cdk2ap1	-0.249349	-0.733356	0.2106	0.327093	no
Fundc1	-0.24968	-1.21648	0.03	0.066457	no
Opa1	-0.250099	-1.18837	0.0187	0.044477	yes
Acr	-0.250236	0	1	1	no
Pcdhgb2	-0.2503	-0.120295	0.8146	0.880253	no

Galc	-0.250326	-1.03371	0.04685	0.096876	no
Atg2b	-0.250357	-1.07709	0.033	0.071902	no
Fanca	-0.250359	0	1	1	no
Apba2	-0.250749	-1.05979	0.03485	0.075278	no
Traip	-0.250799	0	1	1	no
9230110C19Rik	-0.250954	-0.659086	0.2434	0.365086	no
Zdhhc3	-0.25101	-1.14025	0.0255	0.05786	no
Ganab	-0.251034	-1.21931	0.01875	0.04458	yes
Slc33a1	-0.251213	-0.909864	0.06915	0.133773	no
Osbpl1a	-0.251261	-1.11757	0.02535	0.057579	no
Cda	-0.251311	-1.14926	0.0833	0.154955	no
Aif1	-0.251384	0	1	1	no
Paip2b	-0.251542	-1.20701	0.0232	0.053381	no
Wdr8	-0.251547	-0.803618	0.15425	0.2559	no
Rab11b	-0.251592	-1.14337	0.02565	0.058101	no
Ech1	-0.251729	-1.15212	0.05605	0.112346	no
Dennd4b	-0.252037	-0.865555	0.0769	0.14554	no
Iah1	-0.252199	-0.608153	0.33805	0.469624	no
Zfp608	-0.252244	-0.769707	0.13065	0.2238	no
Sec16b	-0.252253	0	1	1	no
Zfp37	-0.252266	-0.606546	0.21965	0.337905	no
Fam160b2	-0.252406	-0.937366	0.0752	0.142893	no
Fbxo3	-0.252417	-0.846933	0.089	0.163066	no
Prpf8	-0.2525	-1.21838	0.01755	0.042165	yes
Gm12992	-0.252659	-0.224481	0.64045	0.746516	no
Mcc	-0.252666	-0.82286	0.1091	0.192734	no
Npm2	-0.25274	0	1	1	no
Tigd2	-0.25315	-0.715745	0.1811	0.290843	no
Al118078	-0.253253	-0.402748	0.45715	0.587069	no
Fam98c	-0.253676	-0.597902	0.22555	0.34538	no
Gm14436	-0.253913	-0.44951	0.3708	0.502185	no
Rhob	-0.253986	-1.27166	0.0193	0.045667	yes
Ppfibp2	-0.254077	-0.547625	0.30625	0.435152	no
Pdha1	-0.254166	-1.18983	0.01635	0.039706	yes
Nos2	-0.254363	0	1	1	no
Slc39a7	-0.254706	-1.13059	0.02325	0.053468	no
Jagn1	-0.254891	-0.899774	0.07035	0.13562	no
Bcl10	-0.254926	-0.816293	0.13975	0.236337	no
Cldn25	-0.254941	-1.09032	0.0278	0.062291	no
Lrrc56	-0.255057	-0.440736	0.41225	0.544211	no
D3Erttd254e	-0.255303	-0.891508	0.08265	0.153984	no
Zfp811	-0.255355	-0.407461	0.42065	0.552114	no
Slc37a4	-0.255464	-0.740772	0.13665	0.232249	no
Parp9	-0.255601	-0.343493	0.4845	0.612819	no
Atp5k	-0.255603	-2.69824	0.0635	0.124476	no
Ripply3	-0.255614	0	1	1	no
Sppl3	-0.2557	-1.16091	0.03045	0.067274	no
Dst	-0.255867	-0.85774	0.08295	0.154391	no
Casd1	-0.255997	-1.07811	0.03985	0.084294	no
Gpr182	-0.256079	0	1	1	no
Abca3	-0.256408	-1.21789	0.0163	0.039607	yes
Cmtr2	-0.256518	-0.607511	0.24675	0.368943	no
Pyurf	-0.25655	-0.783453	0.12975	0.222604	no

Usp54	-0.256563	-0.29842	0.55325	0.673948	no
Snx14	-0.256579	-1.06286	0.04875	0.100103	no
Taf13	-0.256646	-1.1465	0.0514	0.104477	no
Fbxo21	-0.256777	-1.2184	0.01935	0.045761	yes
Cs	-0.256855	-1.29914	0.0139	0.034515	yes
Gtpbp3	-0.256913	-0.794411	0.1389	0.235139	no
Psmc4	-0.257017	-1.33077	0.02235	0.051739	no
Ppfia4	-0.257137	-1.13313	0.02715	0.06102	no
Myl12a	-0.257176	-0.930993	0.0961	0.173771	no
Myo1b	-0.257339	-1.00748	0.0459	0.095283	no
Tfeb	-0.257406	-0.557065	0.26035	0.383827	no
Gmppb	-0.257501	-0.324714	0.564	0.682967	no
Kctd15	-0.257508	-0.890661	0.0968	0.174846	no
Pex12	-0.257509	-0.465095	0.34815	0.480286	no
Arhgef7	-0.25775	-1.10013	0.02615	0.059093	no
Mgat2	-0.257824	-1.07829	0.047	0.097141	no
Etfb	-0.258025	-1.02277	0.03735	0.079756	no
Lmf1	-0.258079	-0.749435	0.13165	0.225223	no
Zmpste24	-0.258176	-1.19179	0.02295	0.05287	no
Dfna5	-0.25818	-0.673705	0.21055	0.327054	no
Ndfip2	-0.258286	-1.21719	0.0138	0.034286	yes
1700028E10Rik	-0.258568	0	1	1	no
Mrpl1	-0.258588	-0.612534	0.2161	0.333838	no
Ank1	-0.258669	-1.1919	0.01855	0.044184	yes
Hspa9	-0.258673	-1.30356	0.01395	0.034626	yes
Tox4	-0.258726	-0.757714	0.1471	0.246318	no
Dhdds	-0.258754	-1.20907	0.023	0.052958	no
Nkd2	-0.258893	-0.393726	0.4567	0.586605	no
Cadm2	-0.258932	-0.961005	0.0533	0.107565	no
Gm16596	-0.258955	0	1	1	no
Alms1	-0.259248	0	1	1	no
Atm	-0.259357	-1.03258	0.039	0.082733	no
Tbc1d14	-0.259501	-1.08097	0.02735	0.061407	no
Cnbp	-0.260102	-1.21413	0.0131	0.032767	yes
Hist1h1c	-0.260185	-1.08617	0.1106	0.194761	no
Mat1a	-0.260247	0	1	1	no
Akap10	-0.260264	-0.982416	0.06	0.118738	no
Spg20	-0.260298	-1.09219	0.0275	0.061691	no
Dmxl2	-0.2604	-1.23515	0.01545	0.037763	yes
Pcsk4	-0.260502	0	1	1	no
Ago1	-0.260528	-0.987816	0.05495	0.110491	no
Poc1b	-0.260584	-0.550654	0.3024	0.430743	no
Tctn2	-0.26079	-0.649993	0.22565	0.345493	no
Sp3os	-0.261224	-0.239833	0.6243	0.732954	no
Hip1	-0.261535	-1.19265	0.01985	0.046793	yes
Abhd10	-0.26156	-0.839152	0.08945	0.163665	no
Cdh26	-0.262057	0	1	1	no
Zmynd10	-0.26215	0	1	1	no
Amigo1	-0.262175	-1.22257	0.01335	0.033305	yes
Cyb5r3	-0.262217	-1.36613	0.0134	0.033404	yes
Sertad1	-0.26243	-0.692202	0.23885	0.360134	no
Doc2b	-0.262437	0	1	1	no
Hmgcs1	-0.262514	-1.0827	0.03045	0.067274	no

Zbtb37	-0.2627	-0.459495	0.37715	0.508604	no
Xxylt1	-0.262733	-0.192724	0.70735	0.802155	no
Ubqln4	-0.262739	-1.15593	0.0315	0.069179	no
Zkscan16	-0.262752	0	1	1	no
Eri3	-0.262965	-1.06938	0.0309	0.068166	no
Cebpzoz	-0.263235	-0.606522	0.2997	0.427586	no
Sh3gl3	-0.263289	-0.493487	0.3155	0.445339	no
Pja2	-0.263465	-1.16408	0.02055	0.048246	yes
Egfl7	-0.263569	-0.852755	0.08625	0.159259	no
Adam15	-0.26364	-1.15764	0.02035	0.047819	yes
Map4k4	-0.263875	-1.21786	0.01515	0.037166	yes
Rprd1a	-0.263928	-1.12814	0.0315	0.069179	no
Fundc2	-0.264026	-1.10214	0.03665	0.078514	no
Nphp1	-0.264161	-0.539821	0.27655	0.401949	no
Gba2	-0.264196	-0.600255	0.25795	0.381264	no
2810408M09Rik	-0.264229	-0.678458	0.21695	0.334565	no
Spire1	-0.264739	-1.10437	0.02885	0.064274	no
Ndufa5	-0.264823	-1.52967	0.0527	0.10663	no
Gm14322	-0.264827	0	1	1	no
Dctd	-0.265142	-0.313197	0.5184	0.64367	no
Fbxw5	-0.265214	-1.07022	0.03005	0.066557	no
Cog2	-0.265397	-0.932496	0.07845	0.147988	no
Mkrn2	-0.265777	-0.591371	0.28225	0.408043	no
Sec11c	-0.266093	-1.24293	0.06475	0.126459	no
Atf7	-0.266205	-0.6994	0.1903	0.302071	no
4933427G17Rik	-0.26641	0	1	1	no
Tmtc1	-0.266535	-1.06531	0.03755	0.080067	no
Npy1r	-0.266631	-0.890176	0.09345	0.169813	no
Sntg1	-0.267144	-0.563561	0.2519	0.374575	no
Dip2b	-0.267205	-1.14709	0.02295	0.05287	no
Sil1	-0.267236	-1.04864	0.06285	0.123366	no
2900026A02Rik	-0.267666	-1.13909	0.02735	0.061407	no
Ogdh	-0.26773	-1.23352	0.01515	0.037166	yes
Gprasp2	-0.267963	-1.12102	0.02435	0.05567	no
Tnni3	-0.267996	0	1	1	no
Sos1	-0.268304	-1.28264	0.01125	0.028747	yes
Aldh7a1	-0.268392	-0.965792	0.0685	0.132709	no
Ext2	-0.268394	-1.10047	0.0363	0.077915	no
Tnpo1	-0.268578	-1.08526	0.0291	0.064799	no
Ppp3ca	-0.268705	-1.32154	0.01635	0.039706	yes
Comtd1	-0.268734	-0.313487	0.52795	0.651685	no
Ndr4	-0.268836	-0.808901	0.1003	0.17987	no
Amfr	-0.268904	-1.33753	0.01035	0.026762	yes
Cox7b	-0.269038	-1.38819	0.02665	0.060049	no
Abi2	-0.269083	-1.19738	0.01665	0.040309	yes
Nbas	-0.269138	-1.21735	0.0175	0.042076	yes
Dbt	-0.269138	-0.916126	0.0872	0.160567	no
Nuak1	-0.269176	-1.20059	0.0223	0.05166	no
Mtbp	-0.269215	0	1	1	no
Supt7l	-0.269614	-0.767276	0.15465	0.256404	no
Mbnl1	-0.269909	-1.23465	0.01295	0.032429	yes
Itga7	-0.270333	-1.24835	0.0116	0.029488	yes
Ctla4	-0.270647	0	1	1	no

Svip	-0.270655	-1.20947	0.0149	0.036627	yes
8430419L09Rik	-0.270718	-1.31503	0.0122	0.030789	yes
Ankrd40	-0.270749	-1.25047	0.01055	0.027215	yes
Acvr1b	-0.270768	-1.06407	0.03125	0.068732	no
Foxred1	-0.270974	-0.823931	0.099	0.17802	no
Fam122a	-0.271358	-0.516632	0.3012	0.429356	no
Ghitm	-0.271492	-1.19322	0.01605	0.039064	yes
4933409K07Rik	-0.271535	0	1	1	no
Atp5d	-0.271671	-0.225445	0.65135	0.754976	no
Sppl2b	-0.271779	-0.905048	0.08725	0.160614	no
Zfp300	-0.272337	0	1	1	no
Tbc1d9b	-0.272388	-1.27217	0.0108	0.027763	yes
Card6	-0.272409	0	1	1	no
2410002F23Rik	-0.272469	-0.862218	0.08035	0.150736	no
Srr	-0.272546	-0.866426	0.0834	0.155076	no
Esam	-0.272789	-0.961071	0.083	0.154462	no
Tmed9	-0.27281	-1.37511	0.017	0.04103	yes
Cycs	-0.272901	-1.04021	0.05155	0.104718	no
Rab33b	-0.272946	-1.08365	0.0408	0.086015	no
Dclre1b	-0.272997	-0.163018	0.75335	0.837077	no
Crot	-0.273153	-1.2946	0.01425	0.035265	yes
D430020J02Rik	-0.273164	0	1	1	no
Mrpl16	-0.273258	-0.967922	0.1102	0.194263	no
Sec23a	-0.273346	-1.34434	0.00925	0.024243	yes
Irf1	-0.273646	-0.800826	0.1071	0.189832	no
Rnft1	-0.273738	-0.320266	0.5453	0.667265	no
Slc25a17	-0.273751	-1.1476	0.0451	0.093843	no
Gtf3c3	-0.274104	-1.10716	0.03675	0.078715	no
Tmem165	-0.274123	-0.673655	0.22585	0.34568	no
Akap2	-0.274153	-1.23684	0.012	0.030371	yes
Chd1l	-0.274544	-0.664911	0.21015	0.326624	no
Myo18a	-0.274631	-1.28639	0.00975	0.025413	yes
Atp5a1	-0.274648	-1.27672	0.01795	0.042986	yes
Sema6d	-0.274662	-1.24748	0.01235	0.031108	yes
Haus3	-0.275166	-0.639872	0.19465	0.307218	no
Nedd9	-0.275255	-0.869291	0.0796	0.149667	no
Kbtbd4	-0.275673	-0.785815	0.1472	0.246392	no
Tmem104	-0.275694	-1.12505	0.0301	0.066634	no
Commd9	-0.27571	-1.0557	0.078	0.147348	no
Lyrn1	-0.275819	-0.561897	0.2526	0.375279	no
Gm19276	-0.275971	0	1	1	no
Slc25a3	-0.275986	-1.49102	0.00885	0.02338	yes
Rer1	-0.276093	-1.27119	0.027	0.060703	no
Rprd1b	-0.276106	-0.898185	0.07185	0.13791	no
Tbc1d5	-0.276217	-1.09287	0.0268	0.060335	no
Gns	-0.27623	-1.29137	0.01285	0.032203	yes
Mrps22	-0.276414	-0.908103	0.1263	0.217896	no
Stard10	-0.276548	-1.31265	0.02665	0.060049	no
Ccdc172	-0.276622	-0.556377	0.36335	0.495331	no
Zfp609	-0.276663	-1.05278	0.0388	0.082348	no
Zfp184	-0.276676	0	1	1	no
Cidea	-0.276697	-0.320379	0.5214	0.646185	no
Mageh1	-0.27676	-0.901837	0.1211	0.210403	no

Nomo1	-0.277196	-1.33531	0.00845	0.022507	yes
Dnah7a	-0.277436	0	1	1	no
9430083A17Rik	-0.277766	0	1	1	no
Nckap1	-0.277892	-1.27459	0.0107	0.027543	yes
Ddx41	-0.277924	-0.715596	0.18975	0.301451	no
2310014L17Rik	-0.277989	0	1	1	no
Itga2b	-0.278036	-0.413201	0.43005	0.561507	no
9130023H24Rik	-0.278117	-0.341487	0.5134	0.639316	no
Lipt2	-0.278192	-0.526244	0.38025	0.511796	no
Creg1	-0.278775	-0.888826	0.10725	0.190048	no
Ccnh	-0.278822	-1.0082	0.0682	0.132243	no
Zfp3	-0.278852	-0.549337	0.3253	0.456066	no
Eif4g3	-0.279232	-1.30338	0.00925	0.024243	yes
Mtdh	-0.279419	-1.22566	0.01895	0.044999	yes
Mief2	-0.279473	-0.761746	0.1221	0.211863	no
Sema6c	-0.279652	-0.891334	0.0733	0.139884	no
Stk38l	-0.2797	-1.08594	0.03855	0.081896	no
Fank1	-0.279735	-0.156477	0.7591	0.841899	no
Cyp20a1	-0.279777	-0.858609	0.1342	0.228906	no
Zfyve20	-0.279799	-1.19529	0.02155	0.050203	no
2310081J21Rik	-0.279906	0	1	1	no
Cox14	-0.279911	-1.39027	0.04435	0.092471	no
Setd7	-0.280018	-1.34378	0.0083	0.022156	yes
2610035D17Rik	-0.280424	-0.791178	0.1551	0.256957	no
Ccbl1	-0.280539	-0.651142	0.24465	0.366588	no
Usp4	-0.280801	-1.22334	0.0221	0.051304	no
Pigl	-0.280813	-0.513267	0.3611	0.493329	no
Tmem101	-0.28083	-0.989443	0.07925	0.149157	no
Cnpy3	-0.281001	-1.13065	0.04355	0.091046	no
Mutyh	-0.281006	0	1	1	no
Mikl	-0.281098	-0.353424	0.53125	0.654906	no
Nudt3	-0.281193	-1.32256	0.0082	0.02192	yes
Cpsf3	-0.28128	-1.09541	0.04135	0.087023	no
Tef	-0.281566	-1.24902	0.01155	0.029395	yes
Zfp148	-0.281585	-1.16817	0.023	0.052958	no
Deb1	-0.281935	-1.07296	0.18645	0.297276	no
Gba	-0.282021	-1.01631	0.04025	0.085004	no
Ifi30	-0.282352	-0.662292	0.283	0.408771	no
Fan1	-0.28249	-0.647495	0.2168	0.334565	no
Igbp1	-0.282656	-1.01911	0.0728	0.13913	no
Rhbdl1	-0.282664	-0.674644	0.2395	0.36095	no
Dnah9	-0.282863	0	1	1	no
Ctdspl2	-0.282878	-0.750198	0.13045	0.223515	no
Tvp23b	-0.283058	-0.983287	0.0766	0.145096	no
D4Erttd617e	-0.28349	0	1	1	no
Zfp60	-0.283558	-0.941654	0.05945	0.117931	no
Naif1	-0.283579	0	1	1	no
Smim12	-0.283666	-1.33274	0.03075	0.067846	no
Atrn	-0.283713	-1.34693	0.0081	0.021701	yes
Zkscan7	-0.283893	-0.412748	0.44775	0.578469	no
Map3k15	-0.283969	0	1	1	no
Hmbox1	-0.284042	-1.35934	0.01055	0.027215	yes
Cd320	-0.284108	-0.751436	0.17335	0.280433	no

Zranb3	-0.284125	-0.581316	0.2477	0.369988	no
Pkn3	-0.284363	0	1	1	no
Ccl25	-0.284423	-0.319989	0.5171	0.642717	no
Lims2	-0.284585	-0.603725	0.217	0.334565	no
Wdr7	-0.284948	-1.37634	0.00725	0.019654	yes
1110008L16Rik	-0.285199	-0.315399	0.55375	0.674124	no
Cpne7	-0.285207	0	1	1	no
Myo10	-0.285239	-1.20681	0.01815	0.043387	yes
Cib1	-0.285585	-0.621564	0.20905	0.325257	no
Bet1	-0.285746	-1.03913	0.07235	0.138509	no
Tdrd7	-0.286055	-1.2348	0.0124	0.031187	yes
Pcdhb20	-0.286098	-0.117001	0.82225	0.885669	no
Vps39	-0.286107	-1.23291	0.0142	0.035181	yes
Zfp85os	-0.286302	0	1	1	no
Alad	-0.286483	-0.862503	0.08595	0.158904	no
Prmt10	-0.286518	-1.13115	0.03575	0.076921	no
Nrg4	-0.286584	0	1	1	no
1110008F13Rik	-0.286692	-1.03732	0.03625	0.077833	no
Amdhd2	-0.286879	-0.775469	0.17775	0.286503	no
Slc9a8	-0.286889	-1.17185	0.0185	0.044088	yes
Klc3	-0.287479	0	1	1	no
Fam222b	-0.287583	-1.17526	0.0237	0.054324	no
Trp53bp2	-0.287691	-0.897306	0.0814	0.152146	no
Eml3	-0.288039	-0.945917	0.07325	0.139849	no
Asb1	-0.288278	-1.27718	0.00965	0.025197	yes
Duox2	-0.288365	0	1	1	no
Mmgt1	-0.28845	-1.25034	0.01215	0.030692	yes
Mipep	-0.288457	-0.957268	0.05325	0.10748	no
Flt1	-0.288725	-1.10581	0.03185	0.069821	no
Jrk	-0.28874	-0.665692	0.18505	0.295612	no
Atp10d	-0.289062	-0.497224	0.31425	0.443763	no
Rpl27	-0.289106	-0.384589	0.5783	0.695333	no
Mkks	-0.289265	-1.01184	0.05795	0.115543	no
Vprbp	-0.289528	-1.07282	0.03845	0.081723	no
Dsg1b	-0.289678	0	1	1	no
Tm9sf3	-0.289735	-1.40018	0.0072	0.01953	yes
Sirpa	-0.289789	-1.15555	0.02145	0.050014	no
Tbrg4	-0.289829	-1.06484	0.0347	0.075015	no
Galnt9	-0.290429	-0.919647	0.06465	0.126301	no
Naalad2	-0.290538	-0.431717	0.4224	0.553863	no
Fam171b	-0.290709	-1.36653	0.00895	0.023578	yes
Epdr1	-0.29083	-1.48494	0.0062	0.017151	yes
Ppp1r10	-0.290869	-1.05314	0.03305	0.071987	no
Gngt2	-0.290885	0	1	1	no
Atp6v0e2	-0.290986	-1.53225	0.0057	0.015927	yes
Elac1	-0.291013	-1.09841	0.0333	0.072437	no
Tmem135	-0.291066	-1.30229	0.0136	0.033839	yes
Traf2	-0.291128	-0.726232	0.14455	0.243029	no
Rgs12	-0.291256	-0.854345	0.08435	0.15647	no
4632428C04Rik	-0.291454	-0.750658	0.168	0.273748	no
Zfp422	-0.291607	-0.938998	0.0744	0.141637	no
Strn	-0.291625	-1.14028	0.031	0.06833	no
Are1	-0.291658	-1.36533	0.0078	0.020982	yes

Lcmt2	-0.291884	-0.460878	0.362	0.494168	no
Zxdb	-0.292017	-0.636468	0.22	0.338207	no
Gm3604	-0.292081	0	1	1	no
Spock2	-0.292344	-1.03559	0.03475	0.075098	no
Slc25a36	-0.292382	-1.14744	0.0312	0.068657	no
Fam134c	-0.292453	-1.15379	0.01965	0.046379	yes
H1fx	-0.292498	-0.906293	0.137	0.232635	no
Tmem208	-0.292646	-1.22975	0.0651	0.127105	no
Zbtb8os	-0.292739	-0.443976	0.54515	0.667144	no
Hif1an	-0.292877	-1.32877	0.0082	0.02192	yes
Pla2g4f	-0.292886	0	1	1	no
Lym7	-0.29313	-0.671339	0.22	0.338207	no
Fkbp4	-0.2933	-1.51227	0.00615	0.017052	yes
2310045N01Rik	-0.29366	-0.910873	0.2288	0.349224	no
Ankrd55	-0.293692	-0.695749	0.16105	0.264732	no
Gm6710	-0.293715	0	1	1	no
Cltc	-0.294256	-0.864508	0.09355	0.169901	no
B630005N14Rik	-0.294333	-0.886401	0.0867	0.15989	no
Kdelr2	-0.294397	-1.24663	0.02665	0.060049	no
Epm2aip1	-0.29442	-1.42195	0.00465	0.013316	yes
Huwe1	-0.29451	-1.33816	0.00635	0.017515	yes
Polg2	-0.294718	-0.396844	0.4234	0.554845	no
Birc6	-0.294865	-1.39367	0.00465	0.013316	yes
Pex13	-0.294944	-1.09229	0.0375	0.079986	no
Ogfrl1	-0.294998	-1.43943	0.00495	0.014084	yes
Gppb1l1	-0.295278	-1.07912	0.0402	0.084939	no
Wfikkn2	-0.295437	0	1	1	no
Adprhl1	-0.295775	-0.429823	0.4667	0.596159	no
Prss23	-0.295909	-0.965906	0.0673	0.130766	no
Cdip1	-0.29594	-1.01007	0.0415	0.087255	no
Itch	-0.296246	-1.31883	0.0076	0.02049	yes
Mrpl30	-0.296303	-1.22242	0.07955	0.149595	no
Ccz1	-0.296471	-1.12565	0.04255	0.08918	no
Pfn2	-0.296692	-1.51872	0.00635	0.017515	yes
4933417D19Rik	-0.296703	0	1	1	no
Gfpt1	-0.297128	-1.34792	0.0087	0.023066	yes
Tm2d2	-0.297351	-1.31962	0.0256	0.058038	no
Xpo4	-0.29752	-0.756849	0.1496	0.249517	no
Gpr137	-0.29779	-1.21634	0.03205	0.070178	no
Sucla2	-0.29782	-1.54979	0.00405	0.011765	yes
Mpc2	-0.297922	-1.4209	0.02855	0.063713	no
3110002H16Rik	-0.297994	-0.822829	0.1355	0.230619	no
Nek9	-0.298068	-1.42481	0.0054	0.015172	yes
Wnt5a	-0.298088	-0.96782	0.0491	0.100697	no
Srxn1	-0.298243	-1.50749	0.0047	0.013433	yes
Urb2	-0.29906	-0.998675	0.05235	0.106067	no
E430018J23Rik	-0.29917	-0.539521	0.3198	0.449781	no
Ndufb6	-0.299567	-1.86568	0.01775	0.042546	yes
Nol9	-0.299626	-0.81327	0.1002	0.179715	no
Csf3r	-0.299634	0	1	1	no
Zfp592	-0.299648	-1.12023	0.02885	0.064274	no
1700052K11Rik	-0.299804	-0.523747	0.3337	0.464916	no
Uap1	-0.299842	-1.33599	0.01445	0.0357	yes

Nlgn2	-0.299973	-1.44855	0.005	0.014211	yes
Pcdhb3	-0.300319	-0.0804531	0.8858	0.928921	no
Kdelc1	-0.300337	-0.61479	0.25945	0.383054	no
Ino80c	-0.300427	-1.04745	0.0539	0.108627	no
Ppp1cc	-0.300513	-0.855206	0.1149	0.201026	no
Srpr	-0.300568	-1.26658	0.0167	0.040408	yes
9030617O03Rik	-0.300627	-0.791435	0.1324	0.22633	no
Cnm2	-0.300656	-0.868357	0.08195	0.152937	no
Nrxn3	-0.300668	-1.28801	0.0088	0.023271	yes
Poldip2	-0.300723	-1.28257	0.0209	0.048946	yes
Smap2	-0.300733	-1.36462	0.00605	0.016792	yes
Agrrn	-0.301178	-1.19731	0.019	0.045077	yes
Fndc7	-0.30148	0	1	1	no
Tmbim4	-0.3015	-1.52047	0.02185	0.050786	no
Xrcc2	-0.3015	-0.71014	0.18215	0.291999	no
5330434G04Rik	-0.301527	-0.850995	0.1092	0.192782	no
Bre	-0.302003	-1.17783	0.01705	0.041135	yes
Ube2k	-0.302317	-1.38007	0.0069	0.018824	yes
Ppa1	-0.30283	-1.51047	0.01215	0.030692	yes
Eif5a2	-0.303035	-1.4733	0.00445	0.012807	yes
Itgb1bp1	-0.303111	-0.880958	0.08025	0.150591	no
Arnt2	-0.303116	-1.32598	0.01015	0.026321	yes
Tmem9	-0.303164	-1.18287	0.01755	0.042165	yes
Sec22b	-0.303208	-1.40244	0.01275	0.032	yes
Ndufb11	-0.303442	-1.1984	0.0654	0.127522	no
Usp6nl	-0.303527	-1.20243	0.01465	0.0361	yes
Rps6ka5	-0.303708	-1.04828	0.04175	0.087698	no
Tnfrsf10b	-0.303862	0	1	1	no
Trim3	-0.303988	-1.24043	0.0136	0.033839	yes
Dusp1	-0.304023	-1.33787	0.0165	0.03999	yes
Zfand5	-0.304256	-1.47095	0.00305	0.009188	yes
Gm13157	-0.304281	-0.545687	0.31395	0.443434	no
Acta1	-0.304389	-0.310328	0.5279	0.651684	no
Cdh23	-0.30439	0	1	1	no
Il17rc	-0.304473	-0.577821	0.2467	0.36891	no
Tom1l2	-0.30454	-1.40671	0.00505	0.014344	yes
Llgl1	-0.304607	-0.532497	0.3039	0.432555	no
Zfp770	-0.304908	-1.0522	0.04505	0.093768	no
Psd3	-0.305188	-1.40711	0.0049	0.013947	yes
Pomk	-0.305237	-1.18863	0.02485	0.056589	no
Ephb6	-0.305666	-1.18356	0.01675	0.040507	yes
Tada2b	-0.305705	-0.926314	0.0624	0.122664	no
Ptpn11	-0.306128	-1.43317	0.00435	0.012551	yes
Aldh1a1	-0.306695	-0.841814	0.12515	0.216081	no
Tmem14a	-0.306734	-0.942988	0.05985	0.118565	no
Draxin	-0.307031	0	1	1	no
Cpt2	-0.307454	-1.1759	0.03115	0.068581	no
Lrrc51	-0.307567	-0.408082	0.41455	0.546595	no
Rasd1	-0.307832	-0.278171	0.5759	0.693201	no
Bmpr2	-0.307836	-1.43556	0.0047	0.013433	yes
Dpy19l4	-0.308104	-1.08162	0.0406	0.085621	no
Dhfr	-0.308105	-0.386181	0.41415	0.546176	no
P4hb	-0.308157	-1.54259	0.00415	0.012021	yes

Psme4	-0.308275	-1.46934	0.00405	0.011765	yes
Dad1	-0.308475	-1.28329	0.0099	0.025759	yes
Cfd	-0.308527	0	1	1	no
Aldh16a1	-0.308628	-0.623594	0.25035	0.373013	no
Stk33	-0.308649	-0.419768	0.4468	0.577748	no
Cpeb3	-0.309041	-1.29972	0.01195	0.030273	yes
Ttc39a	-0.309162	-0.890903	0.0745	0.141746	no
Ccdc136	-0.309253	-1.26597	0.01145	0.029174	yes
Tmco3	-0.309345	-0.954887	0.0563	0.112761	no
Poc1a	-0.309555	-0.455959	0.4245	0.555847	no
Vipas39	-0.30981	-1.21451	0.0135	0.033622	yes
Mpv17	-0.309944	-0.296591	0.55105	0.671885	no
Irgm1	-0.309967	-0.661477	0.2258	0.34568	no
Klhl11	-0.30998	-1.17415	0.0312	0.068657	no
Ubfd1	-0.310167	-1.47722	0.0042	0.012158	yes
Atp5e	-0.310318	-2.42293	0.01325	0.033111	yes
Thns12	-0.31033	-0.678507	0.17295	0.280025	no
Ptdss1	-0.310613	-1.27552	0.01095	0.028083	yes
D3Ert751e	-0.310688	-0.750741	0.12295	0.213031	no
Hmgn3	-0.310949	-0.75406	0.13355	0.228091	no
Acadv1	-0.310996	-1.34748	0.00635	0.017515	yes
Mthfd1l	-0.311188	-1.10011	0.0287	0.063994	no
Pou3f3	-0.311411	0	1	1	no
Fuk	-0.311483	-0.739309	0.13695	0.23261	no
1700001G11Rik	-0.311722	0	1	1	no
Clptm1	-0.311827	-1.49631	0.00405	0.011765	yes
Ndufa9	-0.311898	-1.65507	0.00475	0.013561	yes
Lsm11	-0.312049	-1.10384	0.03135	0.068918	no
Dlec1	-0.312107	0	1	1	no
Dzank1	-0.312137	-1.49145	0.00305	0.009188	yes
Pla2g3	-0.312166	-1.01872	0.058	0.115625	no
Tufm	-0.312226	-0.573005	0.24525	0.36728	no
2010107E04Rik	-0.312469	-2.93358	0.00845	0.022507	yes
Alg14	-0.312473	-1.10644	0.0855	0.158293	no
Rp2h	-0.312605	-0.594858	0.21935	0.337561	no
Mpc1	-0.312685	-0.431777	0.4918	0.619337	no
Glb1	-0.3127	-0.892511	0.07315	0.139678	no
Lsamp	-0.312849	-1.21477	0.02465	0.056249	no
Dcaf11	-0.313201	-1.27599	0.01	0.025958	yes
Aco1	-0.313227	-1.21573	0.0194	0.045862	yes
Pofut2	-0.313234	-1.06544	0.0494	0.10114	no
D17H6S53E	-0.313475	-0.645921	0.2369	0.358212	no
Mtr	-0.313523	-1.09321	0.03405	0.073814	no
Med14	-0.313636	-1.33187	0.00805	0.021589	yes
Zfp119b	-0.3137	-0.399332	0.48105	0.609793	no
Scarb2	-0.313831	-1.41871	0.00435	0.012551	yes
Thada	-0.314021	-0.905659	0.07655	0.145043	no
Bmpr1a	-0.314033	-1.42968	0.00585	0.016305	yes
Tmem138	-0.31431	-0.565166	0.3749	0.506703	no
Slc45a1	-0.314877	-1.41795	0.0091	0.023921	yes
Ndufb3	-0.315404	-2.09745	0.0091	0.023921	yes
Cox7a2	-0.315415	-1.90666	0.00535	0.015044	yes
Tubb3	-0.315491	-1.25979	0.0245	0.055974	no

Cd83	-0.315762	-0.525179	0.29445	0.422184	no
Scd4	-0.31589	0	1	1	no
Apeh	-0.315939	-1.28162	0.01925	0.045565	yes
MacroD2	-0.316	-0.826869	0.13685	0.2325	no
Pkd1	-0.316019	-0.872788	0.08625	0.159259	no
Lpar6	-0.316108	-0.221082	0.6337	0.740796	no
Glod4	-0.316168	-1.40935	0.00875	0.023162	yes
Alg2	-0.316198	-1.57689	0.0027	0.008273	yes
Akap13	-0.316568	-1.36752	0.0069	0.018824	yes
Dnajc22	-0.316647	0	1	1	no
Dse	-0.316664	-0.953752	0.0666	0.129558	no
Pdxk	-0.316677	-1.22101	0.0119	0.030181	yes
Hsd3b7	-0.316749	-0.676275	0.17475	0.282148	no
Nme5	-0.316804	-0.43272	0.51975	0.644984	no
Tpmt	-0.316867	-0.75021	0.1635	0.26783	no
Frmd8	-0.316903	-1.19631	0.0222	0.0515	no
Tmem132a	-0.317043	-1.00693	0.04435	0.092471	no
Cdh8	-0.317206	-0.91977	0.07115	0.136863	no
Rnf150	-0.317306	-1.29696	0.0112	0.02863	yes
Trap1	-0.31789	-1.36435	0.0067	0.018343	yes
1810055G02Rik	-0.318433	-0.787248	0.1609	0.264518	no
Smim8	-0.319153	-0.922212	0.14715	0.246339	no
Plec	-0.319252	-1.33781	0.0074	0.02002	yes
Vkorc1l1	-0.319288	-1.40532	0.0046	0.013192	yes
Bcs1l	-0.319407	-0.863868	0.12455	0.215241	no
Slc4a8	-0.319424	-1.19107	0.01855	0.044184	yes
Dmxl1	-0.319905	-1.41479	0.00525	0.014813	yes
Taf4b	-0.32023	-0.913404	0.07625	0.144598	no
Dyrk2	-0.32028	-0.752073	0.16975	0.276091	no
Ogfod3	-0.320965	-0.54294	0.3683	0.499871	no
Dhtkd1	-0.321111	0	1	1	no
Sspl2a	-0.321202	-1.24991	0.01075	0.027656	yes
Ublcp1	-0.321341	-1.37327	0.01195	0.030273	yes
Pcdhgb6	-0.321342	-0.160425	0.75845	0.84153	no
Copg1	-0.321864	-1.3683	0.00645	0.017754	yes
Cog4	-0.321959	-1.51129	0.0034	0.010109	yes
Pcdhb18	-0.322051	-0.118534	0.82215	0.885669	no
Ccr12	-0.322127	0	1	1	no
Lzic	-0.322176	-0.905696	0.1046	0.186498	no
Nkrf	-0.322232	-1.27268	0.0172	0.041459	yes
Cd19	-0.322255	0	1	1	no
Acat1	-0.322503	-1.48168	0.00515	0.014587	yes
Dhodh	-0.322553	-0.796633	0.1459	0.24502	no
Btf3l4	-0.322588	-1.01782	0.05495	0.110491	no
1700030C10Rik	-0.322767	-0.64197	0.25675	0.379702	no
Lmf2	-0.322977	-1.11937	0.03515	0.075802	no
Nudt22	-0.323073	-0.821802	0.19395	0.306399	no
Col4a3	-0.323117	0	1	1	no
Nkx2-2os	-0.323596	0	1	1	no
Slc9a9	-0.323741	-1.51416	0.0021	0.006649	yes
Bcap31	-0.323783	-1.76306	0.00345	0.010237	yes
Stx6	-0.323789	-1.28094	0.01775	0.042546	yes
Mrpl39	-0.323881	-1.17377	0.0337	0.073163	no

Ergic3	-0.324058	-1.54163	0.0094	0.024602	yes
Fam172a	-0.324066	-1.17727	0.01945	0.045964	yes
Ralb	-0.324144	-1.08053	0.046	0.095461	no
Ctsd	-0.324308	-1.55347	0.00525	0.014813	yes
Lman1	-0.324544	-1.14021	0.0198	0.046708	yes
Wdfy4	-0.324573	0	1	1	no
Camta2	-0.324694	-1.4429	0.0037	0.010879	yes
Cxx1b	-0.325024	-1.44734	0.01505	0.036948	yes
Smad7	-0.32506	-0.757896	0.1462	0.245337	no
2410004I01Rik	-0.325146	0	1	1	no
Rit2	-0.325713	-1.58317	0.0052	0.014691	yes
Mgea5	-0.325853	-1.58985	0.00185	0.005939	yes
Afap1l1	-0.326089	-0.827637	0.1175	0.204872	no
Sel1l	-0.326105	-1.50727	0.00235	0.007346	yes
Ndufs8	-0.326204	-1.26246	0.01085	0.02787	yes
Phpt1	-0.326368	-1.22521	0.10505	0.187099	no
Usp21	-0.326484	-0.820818	0.1293	0.221975	no
Cd52	-0.326527	-0.533753	0.5173	0.642846	no
Nudt21	-0.326532	-0.550457	0.3615	0.493689	no
Msra	-0.326605	-0.793904	0.10575	0.187942	no
Tlhc1	-0.326746	-0.906795	0.0955	0.172898	no
Jmy	-0.326864	-1.43292	0.0047	0.013433	yes
Bckdk	-0.327016	-1.14047	0.0292	0.064967	no
Dscr3	-0.327355	-1.26918	0.01895	0.044999	yes
Lpcat4	-0.327941	-1.48781	0.00745	0.020147	yes
Btg1	-0.328033	-1.30581	0.01235	0.031108	yes
Pirb	-0.32842	0	1	1	no
Armc1	-0.328447	-1.52268	0.005	0.014211	yes
Kdm6b	-0.328573	-1.1512	0.0243	0.055565	no
Vegfa	-0.32881	-1.15481	0.0216	0.050301	no
Timm22	-0.328815	-1.1418	0.02215	0.051402	no
1700027J07Rik	-0.329035	0	1	1	no
Tmem41a	-0.329054	-1.12133	0.0236	0.054132	no
Bri3bp	-0.329125	-1.33625	0.0091	0.023921	yes
Tanc2	-0.3294	-1.55049	0.00165	0.00538	yes
Gclm	-0.329454	-1.59052	0.004	0.011645	yes
Anp32e	-0.32961	-1.44905	0.0038	0.011141	yes
Zfp334	-0.329807	-1.06917	0.03775	0.080455	no
Zbtb2	-0.32988	-0.632447	0.22905	0.349348	no
Rnf169	-0.329882	-1.00708	0.04535	0.094304	no
Ppp2r1a	-0.329993	-1.66045	0.00265	0.008146	yes
H2-Q9	-0.330007	0	1	1	no
Ppp5c	-0.33024	-1.54418	0.0066	0.01811	yes
Slc7a1	-0.330377	-1.58038	0.0016	0.005236	yes
Usp5	-0.330432	-1.65067	0.0014	0.004657	yes
Sfxn4	-0.330608	-0.966863	0.07495	0.14252	no
6820408C15Rik	-0.330652	0	1	1	no
Glud1	-0.330809	-1.65508	0.00135	0.004516	yes
Pde3b	-0.331046	-1.14026	0.0257	0.058195	no
Pkdrej	-0.331708	0	1	1	no
Egln1	-0.331788	-1.38557	0.00925	0.024243	yes
Znf41-ps	-0.331987	-0.361034	0.4694	0.598398	no
Cacna1e	-0.332209	-0.980243	0.05135	0.104392	no

Champ1	-0.332212	-1.22152	0.0207	0.048529	yes
St6gal1	-0.332272	-1.45328	0.0039	0.011392	yes
Serpinb7	-0.332416	0	1	1	no
5730409E04Rik	-0.332435	-1.5314	0.0024	0.00748	yes
Mdh2	-0.332587	-1.84652	0.0013	0.004375	yes
Nrip3	-0.332704	-1.6212	0.0018	0.005802	yes
Zfp202	-0.33294	-0.509572	0.33005	0.461118	no
Cyp51	-0.332972	-1.60364	0.0017	0.005514	yes
0610009L18Rik	-0.333454	-0.475021	0.5233	0.648177	no
Hlx	-0.333528	0	1	1	no
Supv3l1	-0.333565	-1.06218	0.0513	0.104322	no
Tmc3	-0.333632	0	1	1	no
Scn7a	-0.333857	-1.49329	0.00365	0.010754	yes
Pcdhb19	-0.333944	-0.109805	0.84165	0.898774	no
Pi4ka	-0.333972	-1.4509	0.00425	0.01229	yes
Tub	-0.334043	-0.490902	0.34935	0.48159	no
Sp6	-0.3341	0	1	1	no
Itgb2	-0.334188	0	1	1	no
Tek	-0.334347	-0.895217	0.07125	0.136996	no
Yipf5	-0.334379	-1.32618	0.01485	0.036518	yes
Phykp1	-0.33462	-0.173922	0.75815	0.841423	no
Ikzf2	-0.334657	-0.716309	0.15935	0.262295	no
Myo5a	-0.334722	-1.47293	0.0036	0.010628	yes
Lym9	-0.334767	-1.35533	0.0087	0.023066	yes
C030034L19Rik	-0.334948	0	1	1	no
Vcpip1	-0.335086	-1.47207	0.00305	0.009188	yes
Mtor	-0.335334	-1.5634	0.0022	0.006933	yes
Higd1c	-0.335877	0	1	1	no
Dcp2	-0.335888	-1.56496	0.00255	0.007875	yes
Ighmbp2	-0.336239	-1.00376	0.04925	0.100927	no
Cat	-0.336835	-1.69226	0.00185	0.005939	yes
Uqcrc2	-0.336862	-1.55067	0.00235	0.007346	yes
Rom1	-0.336931	-1.04851	0.06645	0.129342	no
M6pr	-0.337076	-1.57637	0.00405	0.011765	yes
Cep83	-0.337297	-1.14404	0.0311	0.068516	no
4930529C04Rik	-0.337557	0	1	1	no
Prdx6	-0.337662	-1.5714	0.0042	0.012158	yes
Gyk	-0.337678	-1.2469	0.0122	0.030789	yes
Pias2	-0.337682	-0.715774	0.14235	0.239847	no
Acads	-0.337783	-0.969476	0.0821	0.153174	no
Ube3b	-0.337829	-1.57826	0.0015	0.004953	yes
Axin1	-0.338435	-1.01401	0.0428	0.089662	no
Gdgd1	-0.338631	-0.191029	0.73075	0.820377	no
Mus81	-0.33937	-0.816048	0.14185	0.239126	no
Fyn	-0.33963	-1.48137	0.00365	0.010754	yes
Dynll2	-0.339978	-1.35267	0.0074	0.02002	yes
Cux1	-0.340065	-1.22096	0.01455	0.035893	yes
Ngf	-0.340199	0	1	1	no
1700019G17Rik	-0.340258	-0.527785	0.27055	0.395394	no
Npm3-ps1	-0.341025	-0.489602	0.4373	0.568957	no
Dbil5	-0.341048	0	1	1	no
Mnd1	-0.342245	0	1	1	no
Lrrfip1	-0.342314	-1.00389	0.04425	0.092335	no

Chpf	-0.342497	-1.50834	0.0026	0.008011	yes
Polg	-0.342618	-1.28385	0.0106	0.027323	yes
Atad2	-0.342716	-1.05523	0.0419	0.087943	no
H3f3b	-0.343295	-1.69624	0.0025	0.007739	yes
Usp32	-0.343318	-1.66008	0.0009	0.003139	yes
Sergef	-0.343423	-0.845611	0.13745	0.233101	no
Tmprss6	-0.343479	0	1	1	no
Trim65	-0.343509	0	1	1	no
Pola1	-0.343791	-0.826284	0.1121	0.196932	no
Accsl	-0.344191	0	1	1	no
Fgl1	-0.344229	0	1	1	no
Tsen54	-0.344451	-0.824221	0.13615	0.231548	no
Scrn2	-0.344461	-0.588597	0.30595	0.434913	no
Rtn1	-0.344522	-1.26994	0.01065	0.027441	yes
Crkl	-0.344602	-1.44827	0.0034	0.010109	yes
Trim34a	-0.344621	-0.516435	0.34185	0.473614	no
Sdr39u1	-0.344727	-1.46812	0.0142	0.035181	yes
Ssr2	-0.344741	-1.54064	0.0104	0.02687	yes
BC022687	-0.344757	-0.792161	0.1543	0.255919	no
Trappc10	-0.344851	-1.6194	0.00165	0.00538	yes
Rpgrip1l	-0.344881	-1.10722	0.02945	0.065446	no
Chchd3	-0.344884	-1.52853	0.00905	0.023818	yes
Stk40	-0.344906	-1.1376	0.0225	0.052005	no
Chid1	-0.345094	-1.05266	0.03425	0.074199	no
B3galnt1	-0.345162	-1.34249	0.01375	0.034174	yes
Uprt	-0.345242	-0.821363	0.172	0.278793	no
Atp5g1	-0.345281	-1.28973	0.01215	0.030692	yes
Zfp955b	-0.345283	-0.998764	0.0598	0.118501	no
Zmynd15	-0.345378	0	1	1	no
Onecut2	-0.345685	-1.51022	0.0031	0.009315	yes
Dars	-0.345726	-1.4438	0.00365	0.010754	yes
Paox	-0.346019	-0.420635	0.4604	0.589872	no
Ttc30b	-0.346048	-0.814943	0.1292	0.221832	no
Adcy4	-0.346278	-0.565712	0.2917	0.41892	no
Stk36	-0.346818	0	1	1	no
2700070H01Rik	-0.346861	-0.696047	0.21595	0.333722	no
Acaa2	-0.346873	-1.59253	0.0062	0.017151	yes
Tspan12	-0.346913	-1.36216	0.01145	0.029174	yes
Syp	-0.34693	-1.65767	0.0017	0.005514	yes
Pigf	-0.347003	-0.29548	0.5456	0.667325	no
Ly96	-0.347012	-0.355372	0.4681	0.597372	no
Slc23a2	-0.347045	-1.57187	0.00245	0.007605	yes
Ube3c	-0.347092	-1.67637	0.0008	0.002828	yes
Loh12cr1	-0.34719	-1.11231	0.0251	0.057089	no
Kcnv1	-0.347321	-1.40893	0.00735	0.019896	yes
Isca2	-0.347358	-1.39104	0.0307	0.067759	no
9430015G10Rik	-0.347577	-0.678356	0.1726	0.279561	no
AU022252	-0.347595	-1.1464	0.03915	0.082985	no
Maml2	-0.347721	-0.910069	0.07075	0.136173	no
Cnga4	-0.347777	0	1	1	no
Inpp5d	-0.347783	-0.537342	0.26725	0.391607	no
Chpf2	-0.347822	-1.53432	0.0022	0.006933	yes
Gata2	-0.347867	-0.555709	0.29755	0.425479	no

Agpat5	-0.348054	-1.44772	0.0061	0.016927	yes
Lrrc8c	-0.348157	-1.4713	0.0053	0.014929	yes
Prdx5	-0.348202	-2.17611	0.00175	0.00566	yes
Rnf121	-0.3489	-1.04035	0.0719	0.137926	no
Pcdhgc5	-0.348962	0	1	1	no
Rab3a	-0.349176	-1.84605	0.001	0.003451	yes
Mrpl3	-0.349183	-1.45355	0.0117	0.029708	yes
Dpm1	-0.349183	-1.24148	0.02265	0.052306	no
Xpr1	-0.349189	-1.56745	0.0025	0.007739	yes
Ap5s1	-0.349301	-0.28087	0.5665	0.684994	no
Edem3	-0.34973	-1.50519	0.003	0.009064	yes
Tmbim1	-0.350004	-0.854196	0.11955	0.208036	no
Myoz2	-0.350209	0	1	1	no
Fbxo28	-0.3504	-1.5558	0.0027	0.008273	yes
1700037C18Rik	-0.350678	-0.519577	0.3951	0.526707	no
Aph1b	-0.350755	-1.31925	0.01125	0.028747	yes
Dusp15	-0.350793	-0.90191	0.06185	0.121763	no
Alas1	-0.350874	-1.34087	0.00625	0.017282	yes
Mrpl18	-0.350957	-1.47502	0.0181	0.043291	yes
Arhgef10l	-0.350967	-1.54234	0.00165	0.00538	yes
Dhx40	-0.351019	-0.185671	0.7305	0.820275	no
Mapre2	-0.351375	-1.59913	0.00095	0.003299	yes
Impad1	-0.351616	-1.62067	0.00255	0.007875	yes
Spg21	-0.352162	-1.29676	0.0155	0.037857	yes
Cd93	-0.352214	-1.22367	0.01795	0.042986	yes
Mapk9	-0.352291	-1.66167	0.0009	0.003139	yes
Serf2	-0.352368	-1.63635	0.0023	0.007205	yes
Uqcrrs1	-0.352396	-1.81909	0.00205	0.006503	yes
Mrpl22	-0.352499	-0.918779	0.1794	0.288812	no
Uqcrc1	-0.352509	-1.87474	0.0009	0.003139	yes
3830408C21Rik	-0.352569	0	1	1	no
Scamp1	-0.352949	-1.75532	0.00095	0.003299	yes
Coasy	-0.353083	-1.36964	0.0122	0.030789	yes
Gpr149	-0.353083	-1.12249	0.03045	0.067274	no
Zfp879	-0.353553	0	1	1	no
Phospho2	-0.354096	-1.27164	0.0199	0.046886	yes
Aars	-0.354237	-1.74456	0.0011	0.00376	yes
Pigt	-0.354716	-1.38627	0.0107	0.027543	yes
Ndufs7	-0.355223	-0.151018	0.76905	0.84827	no
Map3k4	-0.355819	-1.39149	0.00805	0.021589	yes
Chchd2	-0.356318	-1.84045	0.00445	0.012807	yes
Zkscan1	-0.356397	-1.53012	0.00235	0.007346	yes
Eci2	-0.356497	-1.27368	0.0094	0.024602	yes
Gpr132	-0.356507	0	1	1	no
Kdm7a	-0.356549	-1.45087	0.0033	0.009856	yes
Lrrc55	-0.356711	-0.609123	0.26125	0.384641	no
Dera	-0.356955	-0.691724	0.22185	0.34054	no
Nrg3	-0.357221	-1.26834	0.01205	0.030463	yes
Zfp882	-0.357278	-0.698532	0.1734	0.280446	no
B3galt4	-0.357283	-0.629465	0.2732	0.398083	no
Tmem240	-0.357452	-0.564351	0.33655	0.467834	no
Atp10a	-0.357742	-0.788775	0.1311	0.224484	no
Chd6	-0.357859	-1.63201	0.00135	0.004516	yes

Speg	-0.358242	-0.652552	0.1757	0.283544	no
Galnt15	-0.358288	-0.487764	0.369	0.500616	no
Polr2b	-0.358366	-0.893871	0.0845	0.15666	no
Ranbp6	-0.358463	-1.61544	0.00185	0.005939	yes
Lyp1a1	-0.358715	-0.898894	0.11255	0.197644	no
Wdr18	-0.359112	-0.150273	0.76895	0.84823	no
D5Ert579e	-0.359172	-1.66175	0.0011	0.00376	yes
Lrrc61	-0.359728	-1.04929	0.05095	0.103753	no
Hmgcl	-0.359831	-0.991321	0.08745	0.160893	no
Mfsd12	-0.360157	-0.989746	0.04735	0.097743	no
Jdp2	-0.360216	-0.752892	0.1288	0.221432	no
Map3k13	-0.360341	-1.15594	0.02445	0.055889	no
Ap1g1	-0.360393	-1.67901	0.00055	0.002016	yes
Themis	-0.36064	0	1	1	no
Fgd5	-0.360642	-0.824688	0.11105	0.19545	no
Abcb7	-0.360732	-1.48311	0.00465	0.013316	yes
Kiss1r	-0.360748	-0.0524115	0.92535	0.954488	no
Fitm2	-0.360977	-1.23284	0.01425	0.035265	yes
Map2k4	-0.361302	-1.69406	0.00065	0.002343	yes
Helz2	-0.361416	-0.839607	0.09955	0.178767	no
Tm9sf2	-0.362065	-1.82086	0.0005	0.00185	yes
Zfp367	-0.362356	-1.2835	0.01585	0.038648	yes
Mtus2	-0.362381	-1.3037	0.01195	0.030273	yes
Dnajb12	-0.362619	-1.29309	0.0229	0.052791	no
Cxcl16	-0.362771	-0.520949	0.33335	0.464554	no
Ppp1r16b	-0.363298	-1.11251	0.0252	0.057287	no
Dcbl2	-0.363832	-1.5597	0.0025	0.007739	yes
Pcdhb8	-0.364136	0	1	1	no
Lage3	-0.364268	-0.854224	0.2001	0.313946	no
36038	-0.364273	-1.53071	0.0022	0.006933	yes
Zfp719	-0.364302	-1.01302	0.05245	0.106172	no
Itgad	-0.36441	0	1	1	no
Pdss2	-0.364453	-0.829399	0.0971	0.175269	no
Ubr3	-0.36454	-1.70568	0.00085	0.002983	yes
Cxx1a	-0.364819	-1.70726	0.0039	0.011392	yes
E2f5	-0.365014	-0.798412	0.1577	0.260095	no
Nsmce2	-0.365489	-0.765153	0.123	0.21309	no
Tmem229a	-0.365598	-1.68955	0.00085	0.002983	yes
Cacng3	-0.365844	-0.52755	0.3603	0.492591	no
Hhat	-0.366013	-0.65333	0.23035	0.350706	no
Erg	-0.3661	-0.60232	0.27165	0.396478	no
1700010I14Rik	-0.366363	0	1	1	no
Rangrf	-0.366401	0	1	1	no
Mast4	-0.366632	-1.25304	0.0125	0.031432	yes
Wscd1	-0.366869	0	1	1	no
Dhx8	-0.367142	-1.47488	0.00485	0.01382	yes
Zfp106	-0.367254	-1.72961	0.0005	0.00185	yes
Magee1	-0.367392	-1.8296	0.0004	0.001513	yes
AA414768	-0.367583	-0.755887	0.1808	0.290502	no
Cox10	-0.367661	-1.21177	0.0229	0.052791	no
Mettl8	-0.367704	-0.802194	0.1048	0.186779	no
Gzfl	-0.367729	-1.30382	0.0133	0.033218	yes
Wdr54	-0.368324	-0.956163	0.10395	0.185438	no

Csrnp2	-0.368363	-1.15541	0.02475	0.056429	no
Adi1	-0.368396	-0.955054	0.05645	0.113045	no
Ldlrap1	-0.36846	-0.507832	0.3459	0.478076	no
Lrrc63	-0.368528	0	1	1	no
Ppm1f	-0.368585	-1.65532	0.0011	0.00376	yes
Cox6b1	-0.36873	-2.81387	0.0009	0.003139	yes
Pstk	-0.36883	-0.977837	0.10505	0.187099	no
Cbx5	-0.368842	-1.71589	0.0003	0.001164	yes
Atraid	-0.368894	-0.271626	0.5858	0.7013	no
Pcyt1a	-0.369027	-1.62736	0.00125	0.00422	yes
Cpne4	-0.369272	-1.73274	0.00065	0.002343	yes
Gpc5	-0.369642	-0.970717	0.0497	0.10166	no
Lgals7	-0.369773	0	1	1	no
Paics	-0.369944	-1.52749	0.0018	0.005802	yes
Slc25a5	-0.370039	-1.95287	0.001	0.003451	yes
Sdhc	-0.370281	-1.90225	0.00145	0.004804	yes
Irf2bp2	-0.370308	-1.52149	0.0037	0.010879	yes
Apoo	-0.370386	-0.60754	0.31805	0.447937	no
Tmem44	-0.37065	-0.566594	0.27875	0.404437	no
Zfp383	-0.370694	-0.727854	0.17475	0.282148	no
Cerkl	-0.370716	0	1	1	no
Fam83g	-0.370758	0	1	1	no
Alg6	-0.371073	-0.941469	0.07515	0.142859	no
Pcdhb9	-0.371081	-0.185437	0.72085	0.813004	no
Arf2	-0.371173	-1.19159	0.02565	0.058101	no
Tspyl5	-0.371482	-1.28765	0.01425	0.035265	yes
Isy1	-0.371554	-1.10439	0.05245	0.106172	no
Srcin1	-0.371685	-1.47336	0.00405	0.011765	yes
Gm14440	-0.371722	-0.636546	0.2286	0.349083	no
Gm16576	-0.371923	0	1	1	no
Klf9	-0.372032	-1.63116	0.00065	0.002343	yes
Sgpl1	-0.372072	-1.58704	0.0023	0.007205	yes
9430020K01Rik	-0.372597	-1.49462	0.00335	0.009985	yes
Zfp146	-0.372725	-1.20245	0.0296	0.065724	no
Ppib	-0.372755	-1.97529	0.0021	0.006649	yes
Slc25a12	-0.372901	-1.84836	0.0004	0.001513	yes
Adss	-0.372963	-1.7913	0.0011	0.00376	yes
Arl4c	-0.373412	-1.59898	0.0026	0.008011	yes
Nmt2	-0.373436	-1.58244	0.0017	0.005514	yes
Wdr33	-0.373608	-0.943057	0.05695	0.113874	no
Exoc3	-0.37361	-1.78068	0.0004	0.001513	yes
Rtn3	-0.373614	-1.21257	0.0156	0.038087	yes
Yae1d1	-0.373771	-0.911705	0.08245	0.153654	no
Golt1b	-0.373937	-1.58836	0.00345	0.010237	yes
Ywhag	-0.374389	-1.1337	0.03325	0.072364	no
Pign	-0.374511	-1.04308	0.03965	0.083978	no
Plk5	-0.374512	0	1	1	no
Xlr3c	-0.374592	0	1	1	no
Ebi3	-0.374716	0	1	1	no
Tacc2	-0.374961	-1.51351	0.00205	0.006503	yes
Plekha8	-0.375382	-1.09065	0.0297	0.065902	no
Ppm1e	-0.376053	-0.316195	0.54475	0.666716	no
Tmem147	-0.376667	-1.84386	0.0047	0.013433	yes

Ipo4	-0.37676	-1.72436	0.00075	0.00267	yes
Ptprn	-0.376974	-1.87003	0.00035	0.001342	yes
Coq9	-0.376983	-1.27906	0.0226	0.052209	no
Rps15a-ps4	-0.377037	-0.718251	0.3073	0.436271	no
Sele	-0.377201	0	1	1	no
Mvb12b	-0.377515	-1.64471	0.0009	0.003139	yes
Lrch3	-0.377879	-1.16252	0.02845	0.063522	no
A630001G21Rik	-0.37791	0	1	1	no
Fam105a	-0.378106	-0.726542	0.1437	0.241815	no
4833439L19Rik	-0.378215	-1.62536	0.00075	0.00267	yes
Vamp8	-0.378351	-1.09387	0.09705	0.17525	no
Ergic1	-0.379004	-1.76316	0.0014	0.004657	yes
Nol6	-0.379634	-1.69342	0.001	0.003451	yes
Aamdc	-0.38023	-0.984841	0.048	0.098838	no
Arl3	-0.380272	-1.92657	0.00325	0.009727	yes
Serinc4	-0.380274	0	1	1	no
Blmh	-0.380494	-1.69641	0.0017	0.005514	yes
Sucgl1	-0.38063	-1.81932	0.0017	0.005514	yes
Hgsnat	-0.380882	-1.84733	0.00085	0.002983	yes
Grk4	-0.381189	-0.537644	0.2796	0.405538	no
Ap3m2	-0.381546	-1.35876	0.00735	0.019896	yes
Zc3hav1l	-0.381628	-0.751575	0.14635	0.245496	no
Mmachc	-0.381791	-1.25942	0.0228	0.052607	no
Mastl	-0.381804	0	1	1	no
Elf4	-0.381821	0	1	1	no
Mgme1	-0.382007	-0.733604	0.137	0.232635	no
Desi1	-0.382106	-1.53918	0.00385	0.011268	yes
Tbc1d24	-0.382298	-1.24044	0.0153	0.037465	yes
Fam184a	-0.382881	-1.03064	0.0487	0.100047	no
Trim9	-0.383151	-1.07636	0.038	0.080935	no
Stra13	-0.383693	-0.763608	0.2947	0.422405	no
Rec8	-0.383722	0	1	1	no
Dars2	-0.383771	-1.28461	0.0152	0.037255	yes
Tenm4	-0.383822	-1.28868	0.01045	0.026983	yes
Gm5113	-0.38393	-1.09808	0.0383	0.081444	no
Ift22	-0.383992	-1.37641	0.02985	0.066191	no
Tmprss13	-0.384033	0	1	1	no
Sdhd	-0.384035	-1.99797	0.00085	0.002983	yes
Dnaic1	-0.384402	0	1	1	no
Dlst	-0.384445	-1.93636	0.00015	0.000615	yes
Moap1	-0.384614	-0.468428	0.31165	0.44103	no
3110043O21Rik	-0.384994	-1.85292	0.00025	0.000985	yes
Ggh	-0.385508	-1.21197	0.03955	0.083779	no
Pik3cb	-0.385715	-1.42326	0.0062	0.017151	yes
Gfy	-0.385739	0	1	1	no
Hdhd3	-0.386533	-0.696221	0.2542	0.376897	no
Maneal	-0.386787	-1.53249	0.00165	0.00538	yes
Pcdha1	-0.38682	-0.120113	0.8211	0.885293	no
Cyp4v3	-0.386996	-1.12243	0.0384	0.081643	no
Szrd1	-0.387019	-1.42227	0.00395	0.011515	yes
Cdc42se2	-0.387105	-1.74489	0.00095	0.003299	yes
Sepn1	-0.38733	-1.34214	0.01045	0.026983	yes
Marveld1	-0.387471	-1.44795	0.0067	0.018343	yes

2700054A10Rik	-0.387477	0	1	1	no
Atp5o	-0.387498	-2.18305	0.0018	0.005802	yes
Ppp1r13b	-0.387831	-1.59798	0.0023	0.007205	yes
Sbf2	-0.387876	-1.55455	0.0024	0.00748	yes
Vcpkmt	-0.387925	-1.05915	0.08535	0.15806	no
B9d2	-0.388128	-0.743616	0.2319	0.352459	no
Il1r1	-0.388388	-0.941725	0.05995	0.118692	no
Rps16	-0.388641	-0.335186	0.49805	0.624894	no
38960	-0.388858	-0.952989	0.05615	0.112495	no
Cfl2	-0.388954	-1.95887	0.00025	0.000985	yes
Fzd6	-0.388981	-0.793168	0.10765	0.190654	no
Tmc5	-0.389333	0	1	1	no
Mpp7	-0.389337	-0.881901	0.0757	0.14374	no
Wdr25	-0.389534	-1.01787	0.06115	0.1206	no
Echs1	-0.38954	-1.67092	0.004	0.011645	yes
Slc30a5	-0.389581	-1.60346	0.0031	0.009315	yes
Ppp1r15b	-0.38968	-1.73377	0.00105	0.003607	yes
Zkscan5	-0.389856	-0.994705	0.0462	0.095771	no
H2afv	-0.390309	-1.08728	0.05855	0.116582	no
Slc35f3	-0.390338	-1.14357	0.0328	0.071584	no
G6pd2	-0.390721	0	1	1	no
Scpep1	-0.3911	-1.35119	0.00685	0.018707	yes
Spats2	-0.391297	-1.40518	0.0105	0.027102	yes
Ndufs2	-0.391619	-2.05636	0.00035	0.001342	yes
Paqr7	-0.391709	-1.66651	0.0008	0.002828	yes
Polr3a	-0.391731	-1.43689	0.0066	0.01811	yes
Smcr8	-0.391861	-1.47128	0.00265	0.008146	yes
Papl	-0.392104	-0.500661	0.375	0.506735	no
Arhgap24	-0.392322	-1.33488	0.0067	0.018343	yes
Pip5k1b	-0.39236	-0.849757	0.121	0.210256	no
Frat1	-0.392426	-0.77991	0.1444	0.242808	no
Saa1	-0.392875	0	1	1	no
Tmed10	-0.393014	-1.89154	0.0004	0.001513	yes
Sec1	-0.393326	0	1	1	no
Gata3	-0.393363	0	1	1	no
Shd	-0.393733	-0.857645	0.0858	0.158738	no
Apbb1	-0.393735	-1.80956	0.0003	0.001164	yes
5430416O09Rik	-0.394262	0	1	1	no
Eftud1	-0.394323	-0.985356	0.04925	0.100927	no
Podxl	-0.394502	-1.46577	0.0053	0.014929	yes
Gpr37	-0.394569	-1.14774	0.03185	0.069821	no
Bloc1s6	-0.394653	-1.34865	0.0112	0.02863	yes
Hoxc11	-0.394877	0	1	1	no
Crbn	-0.394922	-1.66693	0.0005	0.00185	yes
Ly6g6d	-0.395558	0	1	1	no
Slc50a1	-0.396124	-1.32556	0.0325	0.070999	no
D130040H23Rik	-0.396244	0	1	1	no
Trmt10a	-0.396324	-1.18591	0.0255	0.05786	no
Grb14	-0.396427	-1.59135	0.00435	0.012551	yes
Etohi1	-0.397108	-1.12037	0.02455	0.056069	no
Ndufaf5	-0.397665	-1.44093	0.00765	0.020612	yes
Rbbp9	-0.397703	-1.07112	0.05155	0.104718	no
Tirap	-0.397897	-0.971253	0.05065	0.103333	no

Vcan	-0.397901	-0.717655	0.14625	0.24539	no
Zfp955a	-0.398122	-0.882701	0.0961	0.173771	no
Alkbh3	-0.398275	-1.17471	0.0195	0.046066	yes
Mrps35	-0.398762	-1.12791	0.06665	0.129636	no
Zbed5	-0.398947	-0.661265	0.21915	0.337332	no
Snx27	-0.399697	-1.78834	0.00035	0.001342	yes
Slc25a23	-0.400318	-1.61645	0.00255	0.007875	yes
Adck1	-0.400552	-1.15255	0.0223	0.05166	no
Acox3	-0.400755	-1.62583	0.00135	0.004516	yes
Abca2	-0.401007	-1.88149	5.00E-05	0.00022	yes
Coq6	-0.401284	-1.10556	0.0529	0.10692	no
Ccdc92	-0.401607	-2.06795	0.00035	0.001342	yes
Osgepl1	-0.40217	-0.944762	0.0579	0.115495	no
Yaf2	-0.402299	-1.52835	0.00235	0.007346	yes
Kcnab2	-0.402312	-1.65671	0.0009	0.003139	yes
Kctd9	-0.402718	-1.78873	0.00035	0.001342	yes
Wwox	-0.402813	-1.20594	0.0264	0.059566	no
Lhfpl2	-0.402889	-1.75665	0.00075	0.00267	yes
Vrk2	-0.40345	-0.292021	0.51655	0.642214	no
Slc2a9	-0.404319	-0.639028	0.19165	0.303633	no
Prdx3	-0.404404	-1.99485	0.00085	0.002983	yes
Zfp799	-0.404877	-1.13562	0.03025	0.066899	no
Pilra	-0.404998	0	1	1	no
Snx5	-0.405023	-1.47393	0.00335	0.009985	yes
Stk24	-0.405384	-2.0048	0.00015	0.000615	yes
Abcc8	-0.405754	-1.11746	0.03225	0.070569	no
Snph	-0.405787	-1.80214	0.0006	0.002181	yes
Akap6	-0.406388	-1.85446	0.00045	0.001682	yes
Ntn3	-0.40641	-0.489821	0.3239	0.454536	no
Dgkd	-0.406534	-1.56946	0.00275	0.008412	yes
Mpp5	-0.406554	-1.62132	0.002	0.006363	yes
Sypl	-0.406624	-1.59483	0.0013	0.004375	yes
Pcif1	-0.406706	-1.15852	0.0324	0.070839	no
Anxa3	-0.406731	-0.84524	0.13875	0.234945	no
Raly1	-0.406854	-1.66484	0.00065	0.002343	yes
Ptp4a2	-0.407006	-1.867	0.0001	0.000422	yes
Arsj	-0.40706	0	1	1	no
Katnal2	-0.407077	0	1	1	no
Scrn1	-0.407117	-2.00226	0.0001	0.000422	yes
Btnl9	-0.407156	0	1	1	no
Mettl15	-0.40814	-0.718304	0.19805	0.311319	no
Rhof	-0.408657	-1.39174	0.0128	0.032102	yes
Ttbk2	-0.408953	-1.895	5.00E-05	0.00022	yes
Ackr4	-0.409299	0	1	1	no
Rfk	-0.409468	-1.98895	5.00E-05	0.00022	yes
Tnfsf8	-0.409516	0	1	1	no
Necap2	-0.409681	-1.21794	0.0289	0.064364	no
Lrguk	-0.409724	-0.639214	0.23275	0.353584	no
Pdyn	-0.410099	0	1	1	no
Tshr	-0.410183	0	1	1	no
Mthfd2l	-0.410207	-0.886413	0.10455	0.186433	no
Dffa	-0.410223	-1.69376	0.00085	0.002983	yes
Fastkd5	-0.410418	-0.846666	0.0889	0.162973	no

Ero1lb	-0.410913	-1.2714	0.01345	0.03351	yes
Enpp4	-0.411159	-1.70448	0.001	0.003451	yes
Slc4a7	-0.411591	-1.11122	0.0318	0.069746	no
Rcor1	-0.411623	-1.4212	0.00795	0.021355	yes
Kat6a	-0.411781	-1.5573	0.00255	0.007875	yes
Bmf	-0.412059	-0.880093	0.09115	0.166316	no
Tmem54	-0.412248	-0.51934	0.3694	0.501056	no
Nfkbia	-0.412269	-0.579826	0.24245	0.364114	no
Scamp5	-0.412322	-2.05296	5.00E-05	0.00022	yes
Slmap	-0.412575	-1.88751	0.0001	0.000422	yes
Pak7	-0.41272	0	1	1	no
Sntb1	-0.412861	-1.18404	0.03095	0.068254	no
Gls2	-0.412991	-0.951348	0.07945	0.149491	no
Tmem106c	-0.413556	-1.19663	0.0171	0.041248	yes
Pak2	-0.414016	-1.71784	0.001	0.003451	yes
Hsd17b10	-0.414042	-1.70522	0.00695	0.018933	yes
Sgol2	-0.414402	-0.794666	0.1106	0.194761	no
D630045J12Rik	-0.415011	-1.41457	0.0044	0.012685	yes
Csrp2	-0.415056	-1.26889	0.04945	0.101196	no
Pacsin2	-0.415104	-1.86719	0.0002	0.000803	yes
Hibadh	-0.415684	-1.89724	0.00115	0.00391	yes
Hdlbp	-0.415701	-1.95461	0.0001	0.000422	yes
Ssh2	-0.415815	-1.62308	0.0011	0.00376	yes
Fam174b	-0.415966	-1.37121	0.0108	0.027763	yes
Zhx1	-0.416323	-1.78403	0.00025	0.000985	yes
Gpr55	-0.416372	0	1	1	no
Rnf24	-0.416486	-0.621526	0.2069	0.322441	no
Atp2c2	-0.416768	0	1	1	no
Penk	-0.4175	-0.79274	0.17595	0.283878	no
Fam126a	-0.417524	-0.679161	0.18655	0.297364	no
Eefsec	-0.418496	-1.01338	0.05935	0.117821	no
Lpin1	-0.41889	-1.93132	0.00015	0.000615	yes
Jmjd8	-0.419209	-0.828101	0.1341	0.228794	no
Adamtsl3	-0.419295	-0.964663	0.05945	0.117931	no
Tbc1d12	-0.419309	-1.22343	0.0184	0.043889	yes
Slc25a47	-0.419597	0	1	1	no
9630033F20Rik	-0.419741	-1.83628	0.0008	0.002828	yes
Clstn2	-0.420194	-1.69501	0.0007	0.002506	yes
Idh3b	-0.42036	-1.73691	0.00045	0.001682	yes
Ablim1	-0.420512	-1.97484	5.00E-05	0.00022	yes
Sdr42e1	-0.42053	-0.741848	0.16755	0.273149	no
Trio	-0.420598	-1.94056	0.0001	0.000422	yes
Isoc2a	-0.420675	-1.43909	0.0199	0.046886	yes
Peg13	-0.420812	-1.65226	0.00185	0.005939	yes
C330013E15Rik	-0.420943	-0.473224	0.4701	0.599175	no
Calhm2	-0.42121	-0.648205	0.23795	0.359104	no
Ehd4	-0.421354	-1.852	0.0006	0.002181	yes
Vps11	-0.421377	-1.87306	0.00065	0.002343	yes
Mbtps2	-0.421443	-1.51154	0.00385	0.011268	yes
Ube2l3	-0.421765	-2.06566	5.00E-05	0.00022	yes
Kcnh8	-0.421784	-0.847647	0.10605	0.188298	no
Ahcy1	-0.421847	-2.08996	5.00E-05	0.00022	yes
Polr1a	-0.421871	-1.63517	0.00135	0.004516	yes

Rai2	-0.42192	-0.907047	0.0703	0.135543	no
Ptger4	-0.421998	-1.01631	0.0398	0.084228	no
Susd5	-0.422043	-0.704842	0.1815	0.291239	no
Aldh5a1	-0.422231	-1.46561	0.00545	0.015306	yes
Pcdhga6	-0.422267	-0.211553	0.68405	0.78215	no
Capn2	-0.422385	-2.10819	5.00E-05	0.00022	yes
Ctbs	-0.422456	-0.69259	0.1864	0.297268	no
Nedd1	-0.422498	-0.800609	0.1283	0.220773	no
Camk2n2	-0.422569	-1.27117	0.03335	0.07251	no
Sgms1	-0.422663	-1.50985	0.0027	0.008273	yes
Ppa2	-0.422792	-1.76063	0.00335	0.009985	yes
Zfp953	-0.422847	0	1	1	no
Aar2	-0.422859	-1.57021	0.00175	0.00566	yes
Hs3st5	-0.42339	-1.40726	0.00475	0.013561	yes
Cluh	-0.423582	-2.00229	5.00E-05	0.00022	yes
Adipor2	-0.42365	-1.93126	0.0002	0.000803	yes
Hoxb6	-0.423725	-0.898584	0.1232	0.213408	no
Ap3s2	-0.423971	-2.05656	5.00E-05	0.00022	yes
Uqcrh	-0.424249	-2.92156	0.00025	0.000985	yes
Mapk10	-0.424272	-1.97988	5.00E-05	0.00022	yes
Rhbdd2	-0.424517	-1.74471	0.001	0.003451	yes
Gamt	-0.424891	-0.140192	0.788	0.861863	no
Mgat3	-0.425179	-2.07454	0.0002	0.000803	yes
Ccny	-0.425946	-1.81104	0.0008	0.002828	yes
Cstf1	-0.426129	-1.34891	0.0154	0.037682	yes
Accs	-0.42643	-0.894637	0.0761	0.144376	no
Tm2d3	-0.426501	-1.19455	0.01725	0.041565	yes
Gm10474	-0.426542	0	1	1	no
Sspn	-0.426555	-1.45686	0.0052	0.014691	yes
Tmem216	-0.426769	-0.608723	0.21685	0.334565	no
Abcb8	-0.426808	-1.69498	0.00205	0.006503	yes
Dync2h1	-0.426862	-1.51874	0.00245	0.007605	yes
Malsu1	-0.427024	-1.21304	0.0706	0.136022	no
Lysmd1	-0.42712	-0.804319	0.1384	0.234532	no
Exog	-0.427227	-1.31348	0.0094	0.024602	yes
She	-0.427402	-0.884651	0.08445	0.156611	no
Cetn4	-0.42759	-0.566623	0.35555	0.487453	no
Prokr1	-0.427618	-1.63981	0.0024	0.00748	yes
Dnpep	-0.427717	-1.54047	0.00225	0.007062	yes
Fn3k	-0.427899	-0.793013	0.1082	0.191501	no
Gria2	-0.428292	-1.31342	0.00815	0.021826	yes
Rmrp	-0.428715	-0.784802	0.63245	0.739791	no
Ndufc2	-0.428769	-2.53019	0.00055	0.002016	yes
Pcyt1b	-0.428864	-1.89665	0.0002	0.000803	yes
Yif1a	-0.4289	-1.40094	0.01525	0.03737	yes
Zfp629	-0.428936	-1.12377	0.028	0.062644	no
Dkk2	-0.429039	0	1	1	no
Snx19	-0.429326	-2.01878	0.00015	0.000615	yes
Lrrc73	-0.429497	-1.01574	0.08305	0.154534	no
Obsl1	-0.42969	-1.08441	0.0346	0.074811	no
A330049N07Rik	-0.430157	0	1	1	no
Ptcd2	-0.430525	-1.71622	0.00245	0.007605	yes
Abcd1	-0.430581	-1.04747	0.04595	0.095372	no

Plcg2	-0.430716	-0.772668	0.13725	0.232881	no
Htr2b	-0.430986	0	1	1	no
Samd5	-0.431051	-0.787813	0.13995	0.236585	no
Gm13238	-0.431171	0	1	1	no
Dnajc27	-0.431205	-1.91081	0.0003	0.001164	yes
Smyd2	-0.431254	-1.94117	0.00075	0.00267	yes
C030039L03Rik	-0.431284	-0.915766	0.06415	0.125417	no
Emc1	-0.431608	-1.97167	0.0001	0.000422	yes
Phactr2	-0.431711	-1.9952	0.0002	0.000803	yes
Tsc22d1	-0.432108	-1.80942	0.0003	0.001164	yes
Epha5	-0.432192	-1.33905	0.00905	0.023818	yes
Sema4c	-0.43228	-1.51167	0.0037	0.010879	yes
Pak1ip1	-0.433096	-2.04508	0.00045	0.001682	yes
E130112N10Rik	-0.433377	-0.319835	0.5886	0.703763	no
Gbf1	-0.433405	-2.08289	5.00E-05	0.00022	yes
Prrt1	-0.433696	-0.694518	0.27685	0.402297	no
Rps29	-0.433754	-0.804489	0.43765	0.569301	no
Dld	-0.433812	-2.18177	5.00E-05	0.00022	yes
Ankrd9	-0.433996	-1.08496	0.0448	0.093321	no
Fh1	-0.434125	-2.0152	0.0005	0.00185	yes
Abhd6	-0.43449	-1.49266	0.00755	0.020384	yes
Hivep1	-0.434519	-1.88512	0.0003	0.001164	yes
Hpcal4	-0.434653	0	1	1	no
Tmem200c	-0.434832	-1.05134	0.0482	0.099127	no
Igfbp7	-0.434993	-0.607623	0.2293	0.349348	no
Ssc5d	-0.435075	-0.693861	0.18435	0.294742	no
Rnf2	-0.435144	-1.24713	0.01945	0.045964	yes
Glg1	-0.435168	-2.15263	5.00E-05	0.00022	yes
Pfkfb1	-0.435424	0	1	1	no
Ndufa10	-0.436087	-1.96673	0.0001	0.000422	yes
Glis2	-0.43612	-1.24587	0.01885	0.044778	yes
A730017C20Rik	-0.436284	-1.40092	0.0046	0.013192	yes
Scd2	-0.436405	-1.3707	0.00655	0.017992	yes
Tfpi	-0.436544	-0.60578	0.20665	0.322127	no
Xlr4c	-0.436571	0	1	1	no
Fto	-0.436722	-2.11226	0.0001	0.000422	yes
Stau2	-0.437073	-1.86201	5.00E-05	0.00022	yes
Manea	-0.437793	-1.81959	0.00105	0.003607	yes
Ext1	-0.438552	-1.63609	0.00245	0.007605	yes
Dhx33	-0.438771	-1.62847	0.0018	0.005802	yes
Adamts4	-0.438902	0	1	1	no
Aebp2	-0.439194	-0.605277	0.2066	0.322125	no
Ide	-0.439364	-1.96963	0.0001	0.000422	yes
B230118H07Rik	-0.43967	-1.23834	0.01255	0.03154	yes
Cdc42ep4	-0.439969	-1.60628	0.0013	0.004375	yes
Ly6c2	-0.440082	0	1	1	no
Zfp366	-0.440144	-0.596134	0.2668	0.391163	no
Uvrag	-0.440287	-1.82609	0.0006	0.002181	yes
Fibcd1	-0.440432	0	1	1	no
Kbtbd3	-0.440735	-1.27589	0.01025	0.026534	yes
Gpsm1	-0.440855	-1.1527	0.0297	0.065902	no
Rwdd4a	-0.441064	-1.51322	0.0047	0.013433	yes
Hdhd2	-0.441602	-1.8104	0.0002	0.000803	yes

Sncb	-0.441901	-2.22859	0.00015	0.000615	yes
Dpm3	-0.442082	-1.32986	0.1106	0.194761	no
Nck2	-0.442136	-0.880792	0.10595	0.188222	no
Enc1	-0.442152	-1.28882	0.01335	0.033305	yes
Dnah10	-0.442155	0	1	1	no
Suox	-0.442389	-1.40371	0.0104	0.02687	yes
Pet100	-0.442403	-1.13979	0.0207	0.048529	yes
Med1	-0.443269	-1.46683	0.00305	0.009188	yes
Dennd6a	-0.443643	-1.4968	0.0025	0.007739	yes
Tmem223	-0.443728	-1.74835	0.01065	0.027441	yes
Snap91	-0.443921	-2.0618	5.00E-05	0.00022	yes
Dynlt1b	-0.443937	0	1	1	no
Mad1l1	-0.443964	-1.508	0.00515	0.014587	yes
4833422C13Rik	-0.444445	-0.282795	0.5935	0.707708	no
Tmem143	-0.444655	-1.65378	0.00245	0.007605	yes
Insig1	-0.444769	-2.10631	0.0002	0.000803	yes
Usp29	-0.445185	0	1	1	no
Nutf2	-0.445357	-1.25236	0.01155	0.029395	yes
Fam167b	-0.445729	-0.637223	0.31785	0.447703	no
Vps41	-0.44603	-2.23162	5.00E-05	0.00022	yes
Grk1	-0.446037	0	1	1	no
Gm5617	-0.446481	-0.621522	0.39775	0.529495	no
Pcdhb6	-0.447054	0	1	1	no
Liph	-0.447352	0	1	1	no
Tnnc2	-0.448219	0	1	1	no
Herc3	-0.448278	-1.22429	0.022	0.051098	no
Flt4	-0.44843	0	1	1	no
Usp51	-0.448505	0	1	1	no
Batf2	-0.448648	0	1	1	no
Pcnx	-0.44903	-2.04417	5.00E-05	0.00022	yes
Sh3bp4	-0.449294	-1.56845	0.003	0.009064	yes
Slc39a9	-0.44935	-1.90659	0.00015	0.000615	yes
Atf6	-0.449408	-1.9316	5.00E-05	0.00022	yes
Tmed2	-0.449516	-1.712	0.00225	0.007062	yes
A730008H23Rik	-0.449597	-0.396344	0.43345	0.565112	no
Srebf1	-0.450134	-1.40015	0.0064	0.017627	yes
Gphn	-0.450334	-1.78424	0.00055	0.002016	yes
Smim11	-0.450411	-0.757865	0.126	0.217435	no
Idh3a	-0.451099	-2.24799	5.00E-05	0.00022	yes
Dchs1	-0.451206	-1.00313	0.0461	0.095624	no
Cipc	-0.451684	-1.9447	5.00E-05	0.00022	yes
Jazf1	-0.451959	-1.20212	0.0174	0.041888	yes
Tmem39a	-0.452364	-0.862061	0.08195	0.152937	no
Ndufs1	-0.452515	-2.08282	5.00E-05	0.00022	yes
Txndc5	-0.453154	-1.95967	0.0001	0.000422	yes
Dusp10	-0.453235	-0.838469	0.11675	0.203752	no
Tfam	-0.453331	-1.53033	0.0031	0.009315	yes
Ppp1r26	-0.453779	-1.03276	0.0473	0.097655	no
Gprc5a	-0.454069	0	1	1	no
LOC100503496	-0.4541	0	1	1	no
Slc5a7	-0.454251	-0.803658	0.12295	0.213031	no
Ggact	-0.454341	-1.5939	0.0093	0.024365	yes
Elovl4	-0.454428	-2.1116	5.00E-05	0.00022	yes

Acsf3	-0.454662	-1.40414	0.0123	0.031006	yes
Fgf14	-0.454832	0	1	1	no
Gm694	-0.455091	0	1	1	no
Gm13139,Gm1325	-0.455156	-0.305575	0.54555	0.667325	no
Gm8615	-0.455177	-0.55581	0.264	0.38813	no
Fgfbp3	-0.455182	0	1	1	no
Cmtm6	-0.455306	-1.83116	0.00105	0.003607	yes
Lamp1	-0.455674	-2.30457	5.00E-05	0.00022	yes
Arhgap32	-0.455842	-1.86387	0.00035	0.001342	yes
Ociad1	-0.455959	-2.07452	0.00015	0.000615	yes
Ctsz	-0.456062	-1.48561	0.0034	0.010109	yes
Slc35a4	-0.456794	-1.23062	0.01365	0.033938	yes
Nr1h4	-0.456887	0	1	1	no
Nedd4	-0.457085	-2.02589	0.00015	0.000615	yes
Zfp931	-0.457256	-0.637757	0.2481	0.370377	no
Gm14124	-0.457474	0	1	1	no
Gfra4	-0.458096	-1.06385	0.0345	0.07468	no
Ncoa1	-0.458187	-2.06767	5.00E-05	0.00022	yes
Dvl2	-0.458194	-0.897345	0.0994	0.178594	no
Ddx24	-0.458212	-2.11671	0.0001	0.000422	yes
Gypc	-0.458789	-1.18911	0.03025	0.066899	no
Clcc1	-0.458938	-1.02677	0.063	0.123642	no
Lysmd2	-0.458993	-1.8697	0.00165	0.00538	yes
Zp3	-0.459161	0	1	1	no
Ncdn	-0.459201	-2.11045	0.0001	0.000422	yes
Acsl3	-0.459241	-1.89716	0.00015	0.000615	yes
Ltk	-0.45928	0	1	1	no
Trim2	-0.459796	-2.12557	5.00E-05	0.00022	yes
Zfp706	-0.459895	-2.17406	5.00E-05	0.00022	yes
Ubtfd1	-0.459941	-1.50981	0.00915	0.024038	yes
Rad51c	-0.459991	-0.0730666	0.91125	0.944718	no
Gm12338	-0.460268	-0.67801	0.171	0.277579	no
Myeov2	-0.460537	-1.71446	0.0006	0.002181	yes
Kif1b	-0.46081	-1.5651	0.0023	0.007205	yes
Zfp119a	-0.460934	-0.745459	0.1765	0.284696	no
Lrmp	-0.46095	0	1	1	no
Fgd3	-0.460986	0	1	1	no
Fbxw11	-0.461044	-2.16353	5.00E-05	0.00022	yes
BC030307	-0.462241	0	1	1	no
Rmnd5a	-0.462718	-2.16598	5.00E-05	0.00022	yes
Hdac8	-0.462776	-1.09844	0.05215	0.105726	no
Rbm4b	-0.462879	-0.856151	0.1257	0.216946	no
Hist1h4k	-0.462959	0	1	1	no
Btd	-0.463353	-1.4661	0.00935	0.024486	yes
Dap	-0.463727	-1.34451	0.0203	0.04771	yes
Fam20c	-0.464028	-1.752	0.0017	0.005514	yes
Tsc22d2	-0.464154	-1.77548	0.00045	0.001682	yes
Smg7	-0.464176	-1.96301	0.00025	0.000985	yes
Acvrl1	-0.464303	-1.14225	0.02185	0.050786	no
Rims4	-0.464318	-0.616697	0.3467	0.478634	no
Zfp503	-0.464468	-1.43837	0.00585	0.016305	yes
Kctd4	-0.46451	0	1	1	no
Ern2	-0.464927	0	1	1	no

Slc27a3	-0.465129	-0.960138	0.0806	0.151013	no
Cdk14	-0.465139	-2.26637	5.00E-05	0.00022	yes
Cmc2	-0.465726	-1.35435	0.0193	0.045667	yes
Ccdc81	-0.465768	0	1	1	no
Dnaja4	-0.466139	-1.98802	5.00E-05	0.00022	yes
Phc1	-0.466233	-0.964131	0.05105	0.103925	no
Sptbn4	-0.467008	-1.81733	0.0001	0.000422	yes
Cdc25a	-0.467228	-1.14168	0.0221	0.051304	no
Slfn2	-0.467563	-0.644621	0.25315	0.375802	no
Gabbr3	-0.467775	-2.06308	5.00E-05	0.00022	yes
Lin52	-0.468265	-1.07639	0.0503	0.102698	no
Itga10	-0.468455	0	1	1	no
Cep104	-0.468757	-1.76459	0.0011	0.00376	yes
Adamts14	-0.469126	0	1	1	no
Nabp1	-0.469159	-0.948756	0.0786	0.148123	no
Dpp8	-0.469356	-2.29985	5.00E-05	0.00022	yes
Kdr	-0.470053	-1.45298	0.0054	0.015172	yes
Gbp9	-0.470119	-0.788741	0.1371	0.232686	no
Dlk2	-0.470169	0	1	1	no
Fam71e1	-0.470265	-0.591848	0.36815	0.499718	no
Slc41a3	-0.470427	-1.44012	0.0038	0.011141	yes
Abcb9	-0.470432	-1.98212	0.0001	0.000422	yes
Psmb2	-0.470458	-2.57327	5.00E-05	0.00022	yes
Fdxacb1	-0.47059	-0.839085	0.13285	0.227041	no
Cbl	-0.47099	-1.92162	0.0001	0.000422	yes
Mest	-0.471079	-1.33821	0.0153	0.037465	yes
Rbpj	-0.471097	-1.41989	0.0043	0.012421	yes
Scp2	-0.471649	-1.82255	0.00035	0.001342	yes
Xlr4a	-0.471784	0	1	1	no
Tob2	-0.472044	-1.53785	0.00305	0.009188	yes
Foxred2	-0.472077	-0.932334	0.06135	0.120959	no
Grin1	-0.472122	-2.14049	5.00E-05	0.00022	yes
Pcdhgb5	-0.472187	-0.17237	0.74545	0.831222	no
Lhfpl4	-0.472291	-2.23822	5.00E-05	0.00022	yes
Rfx5	-0.47237	-0.952499	0.06825	0.132302	no
Ndufb2	-0.472395	-3.15638	0.0006	0.002181	yes
Ptchd1	-0.472515	-0.940629	0.0662	0.128968	no
Tmed1	-0.473039	-0.53865	0.26875	0.39337	no
Rnf103	-0.473579	-2.13148	5.00E-05	0.00022	yes
Myo1g	-0.474196	0	1	1	no
Zfp947	-0.47436	0	1	1	no
Amz2	-0.474404	-1.87889	0.00015	0.000615	yes
4921509O07Rik	-0.4745	0	1	1	no
Hspa12b	-0.474554	-0.248	0.6215	0.730714	no
Por	-0.474723	-1.9223	0.00045	0.001682	yes
Rdh9	-0.474932	0	1	1	no
Ssr1	-0.474965	-2.26063	5.00E-05	0.00022	yes
Tmem42	-0.475191	-0.887682	0.06595	0.128519	no
Esrp1	-0.475689	0	1	1	no
Dnajc10	-0.475765	-2.2412	5.00E-05	0.00022	yes
Atp2a3	-0.475876	-1.01642	0.04175	0.087698	no
Dpy19l1	-0.475956	-1.80063	0.0005	0.00185	yes
Fam168a	-0.476204	-2.29653	5.00E-05	0.00022	yes

Man2b1	-0.476654	-1.80831	0.00085	0.002983	yes
Idh2	-0.476809	-1.38731	0.0146	0.035997	yes
Smpd13a	-0.476984	-1.95002	0.00045	0.001682	yes
Nt5dc3	-0.477221	-2.17784	5.00E-05	0.00022	yes
Lrppap1	-0.477492	-2.36133	5.00E-05	0.00022	yes
Necab3	-0.477506	-2.13524	5.00E-05	0.00022	yes
Esd	-0.477888	-1.58004	0.00165	0.00538	yes
Mrs2	-0.477952	-1.9147	0.00055	0.002016	yes
Grin3a	-0.478453	-1.68425	0.00065	0.002343	yes
Arhgap15	-0.478516	-1.15873	0.0224	0.051828	no
Cyp4f41-ps	-0.478787	0	1	1	no
Gmpr	-0.479061	-2.00616	0.00065	0.002343	yes
Mapk8ip1	-0.479669	-2.20747	5.00E-05	0.00022	yes
Gm1966	-0.479726	0	1	1	no
Stt3a	-0.479753	-2.19106	5.00E-05	0.00022	yes
Slc25a45	-0.479757	-0.793642	0.1579	0.260393	no
Slc25a30	-0.480162	-1.66436	0.00395	0.011515	yes
Srek1ip1	-0.480168	-1.09712	0.05195	0.105369	no
Gpr146	-0.480884	-1.28345	0.01405	0.034848	yes
Ssfa2	-0.480958	-2.05484	0.00015	0.000615	yes
Hexim2	-0.481459	-0.725197	0.14165	0.23885	no
Dnah8	-0.481504	0	1	1	no
Zfp862-ps	-0.481567	-1.21754	0.01665	0.040309	yes
Rnd1	-0.481655	0	1	1	no
4930550C14Rik	-0.481719	0	1	1	no
Ccdc6	-0.481788	-2.11878	5.00E-05	0.00022	yes
Pbx3	-0.481901	-1.38526	0.00565	0.015794	yes
Abcd3	-0.482013	-2.24552	5.00E-05	0.00022	yes
Npc2	-0.482602	-2.24549	5.00E-05	0.00022	yes
Gk5	-0.48268	-0.710175	0.1822	0.292044	no
Pou2af1	-0.482715	0	1	1	no
Efcab6	-0.482756	0	1	1	no
Ndufs3	-0.483112	-1.49994	0.019	0.045077	yes
Otof	-0.483506	0	1	1	no
Cdk19	-0.483629	-1.87277	0.00015	0.000615	yes
Ptpn3	-0.483641	-2.24465	5.00E-05	0.00022	yes
Ift27	-0.483647	-1.33386	0.0323	0.070667	no
Car9	-0.483782	0	1	1	no
Cited2	-0.483862	-1.37482	0.01375	0.034174	yes
Calcr1	-0.483921	-1.36049	0.00885	0.02338	yes
Peak1	-0.484005	-1.96875	0.0002	0.000803	yes
Ahcy	-0.484253	-1.25767	0.0203	0.04771	yes
Clasp1	-0.484622	-2.32617	5.00E-05	0.00022	yes
Mtmt6	-0.484631	-2.30725	5.00E-05	0.00022	yes
Ehhadh	-0.484887	-1.03457	0.05175	0.105044	no
Atp5b	-0.484949	-1.96019	5.00E-05	0.00022	yes
Kcnh1	-0.484979	-2.0347	0.0001	0.000422	yes
1810006J02Rik	-0.485554	0	1	1	no
Actrt3	-0.485745	0	1	1	no
Tmtc2	-0.485817	-1.94209	0.0002	0.000803	yes
Gm15800	-0.485953	-2.27579	5.00E-05	0.00022	yes
Lif	-0.486217	0	1	1	no
Sh2b3	-0.486238	-0.958843	0.05545	0.111395	no

Dstyk	-0.486624	-2.03974	5.00E-05	0.00022	yes
Etv1	-0.486759	-2.10028	5.00E-05	0.00022	yes
Serpinf1	-0.48703	-2.27536	5.00E-05	0.00022	yes
Nab1	-0.487101	-1.9544	0.0002	0.000803	yes
Pcdhb2	-0.487475	0	1	1	no
Prmt6	-0.487557	-1.43369	0.00455	0.013069	yes
Cstl1	-0.487769	0	1	1	no
Slc38a2	-0.488173	-2.38588	5.00E-05	0.00022	yes
Cnn3	-0.488626	-2.52394	5.00E-05	0.00022	yes
Ift81	-0.488813	-1.3692	0.0123	0.031006	yes
Gm13582	-0.489305	0	1	1	no
Appbp2	-0.490195	-1.9236	0.00055	0.002016	yes
Emc7	-0.490238	-2.41988	5.00E-05	0.00022	yes
Unc45b	-0.491279	0	1	1	no
Ndufaf1	-0.491515	-1.79374	0.00135	0.004516	yes
Tmem81	-0.491831	-0.71351	0.20315	0.317717	no
Cd99l2	-0.492162	-2.31574	5.00E-05	0.00022	yes
Yipf2	-0.492794	-0.730455	0.17245	0.279386	no
Pycr1	-0.493001	0	1	1	no
Gm5878	-0.493244	0	1	1	no
AV039307	-0.493547	0	1	1	no
Tmem176b	-0.493651	-2.04144	5.00E-05	0.00022	yes
Ptcd3	-0.493665	-1.93025	0.0004	0.001513	yes
Pin1	-0.493756	-2.06703	0.0001	0.000422	yes
Zc3h12a	-0.494186	0	1	1	no
Pramef8	-0.494332	-1.44619	0.0064	0.017627	yes
Tll2	-0.494338	0	1	1	no
Trpm2	-0.494602	-1.83592	0.00045	0.001682	yes
Rilpl1	-0.494789	-1.45829	0.00795	0.021355	yes
Klhdc9	-0.495273	-0.683441	0.23375	0.354581	no
Dnajb9	-0.495442	-2.15458	0.00015	0.000615	yes
Gper1	-0.495548	-0.389909	0.44755	0.578267	no
Efhb	-0.495775	0	1	1	no
Lilra6	-0.49589	0	1	1	no
Mt3	-0.49614	-3.43499	5.00E-05	0.00022	yes
Mir703	-0.496445	-0.117127	0.54765	0.669215	no
C2cd4d	-0.496715	0	1	1	no
D130017N08Rik	-0.496716	-1.14845	0.04625	0.095845	no
Calm3	-0.49672	-2.2964	5.00E-05	0.00022	yes
Glcci1	-0.496861	-1.81766	0.00025	0.000985	yes
Slc2a8	-0.497466	-1.64066	0.0028	0.008532	yes
Sys1	-0.497566	-1.33171	0.0207	0.048529	yes
Usp43	-0.49797	0	1	1	no
AI506816	-0.498248	0	1	1	no
Ccdc121	-0.498315	0	1	1	no
B830017H08Rik	-0.498474	0	1	1	no
Prnp	-0.498781	-2.40794	5.00E-05	0.00022	yes
Sdha	-0.499126	-2.5183	5.00E-05	0.00022	yes
Adat1	-0.499172	-1.17644	0.0268	0.060335	no
Aldh6a1	-0.499422	-1.80582	0.00055	0.002016	yes
Tmem178b	-0.499504	-1.7394	0.0008	0.002828	yes
Pdia4	-0.499659	-2.02132	5.00E-05	0.00022	yes
Ttc7b	-0.49995	-2.09055	5.00E-05	0.00022	yes

Tgoln2	-0.500635	0	1	1	no
Btbd3	-0.50124	-2.28353	5.00E-05	0.00022	yes
Fads1	-0.501725	-2.31005	5.00E-05	0.00022	yes
Atp6v0a2	-0.501742	-2.20088	5.00E-05	0.00022	yes
Xlr3a	-0.501933	0	1	1	no
Tarsl2	-0.50198	-1.93111	0.0002	0.000803	yes
Pkm	-0.502176	-2.18187	5.00E-05	0.00022	yes
Il22ra1	-0.503012	0	1	1	no
Plxna4	-0.503438	-2.342	5.00E-05	0.00022	yes
Tti1	-0.503628	-1.68828	0.0017	0.005514	yes
Prss53	-0.503876	0	1	1	no
Mall	-0.503925	0	1	1	no
2610507B11Rik	-0.504039	-2.42458	5.00E-05	0.00022	yes
Fahd2a	-0.504294	-1.2757	0.03265	0.07128	no
Cd53	-0.504567	-0.688634	0.1977	0.310916	no
Lrriq3	-0.50474	0	1	1	no
Cnksr2	-0.504781	-1.72055	0.00115	0.00391	yes
Ntsr1	-0.505226	0	1	1	no
Epha7	-0.505492	-0.939866	0.0621	0.122147	no
6720416L17Rik	-0.505567	-0.915452	0.064	0.125253	no
Fv1	-0.505799	-0.960201	0.1008	0.180523	no
Sez6	-0.50588	-1.8562	0.00025	0.000985	yes
Ropn1l	-0.506248	0	1	1	no
Trpm8	-0.507047	-1.85186	0.00045	0.001682	yes
Git1	-0.50727	-2.30371	5.00E-05	0.00022	yes
Decr1	-0.50755	-1.90053	0.00015	0.000615	yes
Gbp5	-0.507767	-0.859642	0.10625	0.188553	no
Hus1	-0.508196	-1.43597	0.0064	0.017627	yes
Pdgfra	-0.508292	-1.28993	0.00915	0.024038	yes
Clec16a	-0.508357	-2.05044	5.00E-05	0.00022	yes
Nap1l2	-0.508507	-2.51593	5.00E-05	0.00022	yes
Dok6	-0.508557	-1.12208	0.07165	0.137646	no
Sacm1l	-0.508634	-2.52987	5.00E-05	0.00022	yes
Abcb6	-0.508707	-1.74702	0.001	0.003451	yes
Nr5a2	-0.5089	0	1	1	no
Tnni1	-0.509066	0	1	1	no
Trps1	-0.509131	-1.16644	0.02145	0.050014	no
Nrip2	-0.509592	-1.44783	0.00395	0.011515	yes
Pdgfrb	-0.509673	-1.79391	0.0001	0.000422	yes
Zfp111	-0.510611	-1.1104	0.03215	0.070374	no
Slc30a4	-0.510655	-1.65551	0.00105	0.003607	yes
Ccdc28a	-0.51087	-2.07178	0.0008	0.002828	yes
Gp5	-0.512028	0	1	1	no
Rgs20	-0.512093	-0.611276	0.20865	0.324711	no
Map1a	-0.512311	-1.55172	0.00245	0.007605	yes
Tmem260	-0.51246	-1.78612	0.0008	0.002828	yes
Pcdhb16	-0.512652	-0.194338	0.7101	0.804037	no
Med27	-0.512823	-1.55957	0.00215	0.006796	yes
Mtmr4	-0.513957	-2.45979	5.00E-05	0.00022	yes
Trmu	-0.514176	-1.11018	0.05215	0.105726	no
Pon1	-0.514362	0	1	1	no
Pcdhga8	-0.51439	-0.20275	0.6995	0.795088	no
Ptbp1	-0.514636	-0.144725	0.78495	0.859803	no

Ms4a6b	-0.515665	0	1	1	no
Ccdc176	-0.515928	0	1	1	no
Tmem43	-0.515931	-2.0401	0.00025	0.000985	yes
6330418K02Rik	-0.516803	-0.255916	0.70815	0.802651	no
Egf	-0.516856	0	1	1	no
Ascl2	-0.517117	0	1	1	no
Man1a2	-0.517227	-2.47614	5.00E-05	0.00022	yes
Ispd	-0.517265	-1.57574	0.0017	0.005514	yes
Gm4371	-0.517571	0	1	1	no
Hadha	-0.517919	-2.38808	5.00E-05	0.00022	yes
Fermt2	-0.517941	-2.49585	5.00E-05	0.00022	yes
Dtna	-0.51797	-1.72005	0.0004	0.001513	yes
Aldh1b1	-0.518065	-0.959627	0.07815	0.147526	no
Dnajc18	-0.518165	-2.38765	5.00E-05	0.00022	yes
P2ry2	-0.518492	-1.55657	0.00405	0.011765	yes
Ctnna1	-0.518554	-2.19657	5.00E-05	0.00022	yes
Frpm3	-0.518712	-0.674	0.2516	0.374403	no
Mtmt2	-0.519069	-2.16077	5.00E-05	0.00022	yes
Wnt4	-0.51924	0	1	1	no
Rab3ip	-0.519281	-1.88156	0.00065	0.002343	yes
Ccdc30	-0.519469	-0.690807	0.12815	0.220543	no
Cdc3711	-0.519506	-2.17435	0.00015	0.000615	yes
Hcar2	-0.519853	0	1	1	no
Syt13	-0.520327	-1.31249	0.01105	0.02829	yes
Sephs2	-0.520365	-1.84972	0.0006	0.002181	yes
Susd2	-0.520994	-2.38469	5.00E-05	0.00022	yes
Glul	-0.521074	-2.40463	5.00E-05	0.00022	yes
Tbc1d2b	-0.521178	-1.69505	0.00115	0.00391	yes
Atr	-0.521744	-1.97922	5.00E-05	0.00022	yes
Sowahc	-0.522308	-1.70938	0.00105	0.003607	yes
Zmynd12	-0.522588	0	1	1	no
Il1rn	-0.522908	0	1	1	no
2300009A05Rik	-0.522985	-0.891456	0.24265	0.36425	no
Fcrla	-0.523158	0	1	1	no
Hoxd9	-0.523272	-1.40519	0.0115	0.02929	yes
Nceh1	-0.523415	-2.40939	5.00E-05	0.00022	yes
Nhlrc3	-0.52348	-0.824683	0.1537	0.255147	no
Zscan29	-0.523857	-1.29359	0.0112	0.02863	yes
Fmnl3	-0.523858	-1.30386	0.01335	0.033305	yes
Fabp3	-0.524549	-0.993247	0.1701	0.276525	no
Tubgcp2	-0.524721	-1.90263	0.00065	0.002343	yes
4930578C19Rik	-0.524798	0	1	1	no
Grm3	-0.525226	0	1	1	no
Dcbld1	-0.525445	-1.92518	0.0004	0.001513	yes
Tspan13	-0.525891	-2.6393	5.00E-05	0.00022	yes
Carns1	-0.52636	-1.78859	0.0007	0.002506	yes
Clvs1	-0.526829	-1.11642	0.0355	0.076445	no
Ggt1	-0.526838	0	1	1	no
Idh3g	-0.526951	-2.54163	5.00E-05	0.00022	yes
Spidr	-0.527034	-0.614838	0.18885	0.3002	no
Grxcr2	-0.527035	-0.827431	0.17565	0.283497	no
Prepl	-0.527067	-2.4159	5.00E-05	0.00022	yes
Slco1c1	-0.527323	-0.869941	0.08275	0.154083	no

Lrba	-0.527574	-1.39327	0.0082	0.02192	yes
Qpctl	-0.527686	-1.40778	0.01145	0.029174	yes
Rnf13	-0.527736	-2.20869	5.00E-05	0.00022	yes
Magi2	-0.527949	-1.74925	0.00075	0.00267	yes
Tap1	-0.528363	-1.19297	0.01775	0.042546	yes
Tgm2	-0.528487	-1.58881	0.0034	0.010109	yes
BC030500	-0.52859	0	1	1	no
Rab8b	-0.528849	-2.15214	5.00E-05	0.00022	yes
Ak3	-0.528853	-2.28485	5.00E-05	0.00022	yes
Elovl1	-0.528855	-2.1558	0.0001	0.000422	yes
Pdpr	-0.529279	-1.68447	0.0024	0.00748	yes
Slain1	-0.529595	-0.934885	0.0609	0.120214	no
Mgat4c	-0.529643	-0.999196	0.0463	0.095919	no
Cyc1	-0.529771	-2.858	5.00E-05	0.00022	yes
Pnkd	-0.530097	-1.86428	0.0003	0.001164	yes
Sirt2	-0.53033	-2.35627	5.00E-05	0.00022	yes
Lrrc27	-0.530433	-0.694962	0.16475	0.269379	no
Efcab2	-0.530462	-1.24623	0.02105	0.049263	yes
2810408A11Rik	-0.530575	0	1	1	no
Eme2	-0.530829	-1.49404	0.00875	0.023162	yes
BC037704	-0.530957	0	1	1	no
Rab19	-0.531088	0	1	1	no
Dlat	-0.531265	-2.55433	5.00E-05	0.00022	yes
Tbx4	-0.531337	0	1	1	no
Sat1	-0.531574	-1.82592	0.00025	0.000985	yes
Tmem30b	-0.532338	-0.76046	0.15115	0.25167	no
Serp1	-0.532402	-1.69506	0.003	0.009064	yes
Nrep	-0.532415	-1.80423	0.00065	0.002343	yes
Mblac1	-0.532429	-0.822887	0.1626	0.266652	no
Slco2b1	-0.532567	-1.05317	0.0332	0.072267	no
Hmgn2	-0.532703	-1.29912	0.0307	0.067759	no
Ptpre	-0.53302	-2.14038	5.00E-05	0.00022	yes
Gm7367	-0.534144	-0.224525	0.67295	0.772779	no
St3gal2	-0.534266	-2.40268	5.00E-05	0.00022	yes
Gstm1	-0.534443	-1.37453	0.02125	0.049643	yes
2900097C17Rik	-0.534472	-2.36712	5.00E-05	0.00022	yes
Atp1a3	-0.534615	-2.23749	5.00E-05	0.00022	yes
Zdhhc15	-0.534647	-2.0572	5.00E-05	0.00022	yes
Tlr4	-0.534796	-1.00688	0.053	0.10709	no
Prkcdp	-0.534812	-1.77315	0.00415	0.012021	yes
Mks1	-0.535072	-0.796396	0.1426	0.240116	no
Tmed7	-0.53567	-2.53019	5.00E-05	0.00022	yes
Mettl20	-0.535703	-0.579565	0.21065	0.327133	no
Ubiad1	-0.53634	-1.02178	0.0574	0.114636	no
Gipc2	-0.536805	-0.607569	0.31275	0.44221	no
2310039H08Rik	-0.536958	-0.752978	0.26555	0.389891	no
Sugct	-0.538265	-0.708617	0.21125	0.327719	no
Zfp652	-0.538482	-1.16978	0.03105	0.068417	no
Gm12429	-0.538544	0	1	1	no
Flnb	-0.538998	-2.29322	5.00E-05	0.00022	yes
Ttpa	-0.539004	0	1	1	no
Rdh10	-0.539326	-1.19534	0.0295	0.065546	no
Fhit	-0.53965	-1.08274	0.084	0.155995	no

Gucy1a2	-0.539772	-2.26489	5.00E-05	0.00022	yes
Hpse	-0.539859	-0.93842	0.07755	0.146582	no
Syn2	-0.540063	-2.6572	5.00E-05	0.00022	yes
Dscam	-0.540254	-1.84481	0.00065	0.002343	yes
Tcap	-0.540528	0	1	1	no
Snx18	-0.541033	-2.24887	5.00E-05	0.00022	yes
Tmem59l	-0.541087	-2.81024	5.00E-05	0.00022	yes
Zfp108	-0.541716	0	1	1	no
Cxx1c	-0.541801	-2.78158	5.00E-05	0.00022	yes
Ttc1	-0.542127	-2.56209	5.00E-05	0.00022	yes
Zyg11b	-0.543282	-2.59434	5.00E-05	0.00022	yes
Ttc3	-0.544233	-2.4193	5.00E-05	0.00022	yes
Plcb2	-0.544686	0	1	1	no
Tifab	-0.545619	-0.860635	0.0861	0.159093	no
Lmbrd1	-0.545973	-2.62078	5.00E-05	0.00022	yes
Celf2	-0.546146	-2.3165	5.00E-05	0.00022	yes
Tspyl4	-0.546829	-2.60322	5.00E-05	0.00022	yes
Cox4i1	-0.546938	-3.65093	5.00E-05	0.00022	yes
Slc27a5	-0.547078	0	1	1	no
Its1	-0.54775	-2.09312	5.00E-05	0.00022	yes
Itpr1l1	-0.548004	-1.39625	0.0055	0.015427	yes
9030624G23Rik	-0.548234	0	1	1	no
Maml1	-0.548281	-1.2895	0.01365	0.033938	yes
Sgsm2	-0.549064	-1.99867	5.00E-05	0.00022	yes
Wnt3	-0.549306	0	1	1	no
Kcnc4	-0.54932	-2.47962	5.00E-05	0.00022	yes
Hp	-0.54947	0	1	1	no
Aim2	-0.549524	0	1	1	no
Pcdhga7	-0.550057	-0.30521	0.5537	0.674124	no
Cnksr3	-0.550615	-0.907865	0.08475	0.15708	no
Traf5	-0.550725	0	1	1	no
Pde8b	-0.550841	-1.63615	0.00115	0.00391	yes
Btg2	-0.551116	-2.17408	5.00E-05	0.00022	yes
Inpp1	-0.551407	-1.7496	0.0006	0.002181	yes
Arl16	-0.551712	-1.52574	0.0024	0.00748	yes
Mob1a	-0.551791	-1.63281	0.00535	0.015044	yes
Dolk	-0.552695	-2.16033	5.00E-05	0.00022	yes
Ppp4r4	-0.552726	-1.94826	0.0004	0.001513	yes
Skil	-0.552807	-1.6637	0.00115	0.00391	yes
Adat2	-0.552811	-0.534553	0.28745	0.414027	no
Slc16a4	-0.552895	-1.07485	0.05415	0.109065	no
Ptgr2	-0.553172	-2.0542	5.00E-05	0.00022	yes
Aak1	-0.55323	-2.57951	5.00E-05	0.00022	yes
Dnase2a	-0.553245	-0.685442	0.22695	0.347123	no
Pisd	-0.553274	-1.77913	0.0015	0.004953	yes
A830018L16Rik	-0.553516	-2.06226	5.00E-05	0.00022	yes
Oxr1	-0.553584	-2.38674	5.00E-05	0.00022	yes
Lrat	-0.55379	0	1	1	no
Hvcn1	-0.554082	0	1	1	no
Hdac3	-0.554104	-2.46455	5.00E-05	0.00022	yes
Etl4	-0.554532	-2.35639	5.00E-05	0.00022	yes
Dhrs4	-0.554679	-1.36455	0.00755	0.020384	yes
Ush1g	-0.554797	-1.14464	0.02155	0.050203	no

Atat1	-0.555146	-1.18118	0.01995	0.046987	yes
1700066B19Rik	-0.555377	0	1	1	no
Nek7	-0.55545	-2.77377	5.00E-05	0.00022	yes
Itpr1	-0.556624	-1.66788	0.00135	0.004516	yes
Emb	-0.557259	-2.82844	5.00E-05	0.00022	yes
Tmem141	-0.558191	-1.18106	0.019	0.045077	yes
Adcy7	-0.559467	-1.48365	0.0029	0.008796	yes
Fam73b	-0.559709	-2.24546	5.00E-05	0.00022	yes
Pigh	-0.560301	-1.03132	0.0381	0.081096	no
Gad2	-0.560375	0	1	1	no
Aldh4a1	-0.560518	-1.85516	0.0003	0.001164	yes
Lmln	-0.56066	-1.71278	0.00065	0.002343	yes
Hmgn5	-0.561277	-0.80834	0.14865	0.248162	no
Dnajb4	-0.561352	-2.23745	5.00E-05	0.00022	yes
Ccdc126	-0.561589	-1.75045	0.00175	0.00566	yes
Nlrp3	-0.562279	0	1	1	no
Nek8	-0.562911	-1.28257	0.0191	0.045266	yes
Siglec5	-0.564738	0	1	1	no
Marcks	-0.564756	-2.66989	5.00E-05	0.00022	yes
Morc4	-0.5649	-1.21773	0.01485	0.036518	yes
Lrrc48	-0.564901	-0.928418	0.09865	0.177583	no
Elmod3	-0.565198	-1.11848	0.02575	0.058288	no
Slc35f6	-0.565639	-2.12606	5.00E-05	0.00022	yes
Zkscan4	-0.565929	-0.779009	0.14715	0.246339	no
Racgap1	-0.566181	-1.25571	0.0145	0.03579	yes
Pecr	-0.566185	-1.14085	0.0588	0.117027	no
Rcbtb2	-0.566427	-1.92093	0.0001	0.000422	yes
Gm14420	-0.566508	-1.71797	0.0008	0.002828	yes
Twsg1	-0.566962	-2.23144	0.0001	0.000422	yes
BC048546	-0.567045	-2.00603	0.00025	0.000985	yes
Gpr174	-0.567109	0	1	1	no
Ppm1k	-0.567974	-1.80131	0.0009	0.003139	yes
Mocos	-0.568969	-1.18436	0.02885	0.064274	no
Dock6	-0.569049	-1.452	0.00365	0.010754	yes
Nhej1	-0.569419	-0.982123	0.13755	0.233241	no
Fggy	-0.569852	-1.33376	0.0085	0.022613	yes
Cnpy2	-0.570018	-1.94785	0.0021	0.006649	yes
Tmem127	-0.570045	-2.72091	5.00E-05	0.00022	yes
Kcnh7	-0.570658	-2.2429	5.00E-05	0.00022	yes
Fadd	-0.57094	-0.880614	0.1007	0.180466	no
Foxf2	-0.571025	0	1	1	no
Slc9a2	-0.571357	-0.838224	0.11395	0.199548	no
Plvap	-0.571457	-1.58312	0.00505	0.014344	yes
Stk39	-0.5715	-2.85613	5.00E-05	0.00022	yes
Tomm20	-0.571811	-2.75672	5.00E-05	0.00022	yes
Pde4dip	-0.572146	-2.64108	5.00E-05	0.00022	yes
Smad5	-0.572512	-2.02801	5.00E-05	0.00022	yes
Rilpl2	-0.573034	-1.20402	0.04385	0.091587	no
Satb2	-0.573261	0	1	1	no
Usp24	-0.573432	-2.32223	5.00E-05	0.00022	yes
Syne4	-0.574704	-0.899894	0.0735	0.140245	no
Sesn3	-0.574982	-1.94692	0.00035	0.001342	yes
Chd3os	-0.575228	-1.19536	0.0358	0.077004	no

Diras1	-0.575366	-2.8855	5.00E-05	0.00022	yes
Trpc7	-0.575449	0	1	1	no
Gjc2	-0.576916	0	1	1	no
1700020I14Rik	-0.577371	-2.15245	5.00E-05	0.00022	yes
2200002D01Rik	-0.577758	-0.153237	0.7813	0.857575	no
Sarm1	-0.578051	-2.34882	5.00E-05	0.00022	yes
Primpol	-0.578162	-1.15742	0.02245	0.051907	no
Klhl32	-0.578414	-1.02438	0.04055	0.085556	no
Aph1a	-0.578443	-1.50458	0.0048	0.013695	yes
Sh3tc1	-0.578984	0	1	1	no
Tab3	-0.579032	-2.32487	5.00E-05	0.00022	yes
Nhs12	-0.579101	-1.09539	0.0359	0.077156	no
Kdm8	-0.580303	-1.3894	0.0114	0.029069	yes
6330403A02Rik	-0.580727	-1.06803	0.0395	0.0837	no
Ralgapa2	-0.581561	-2.24127	5.00E-05	0.00022	yes
Gnmt	-0.581655	0	1	1	no
Fyco1	-0.581839	-1.591	0.0024	0.00748	yes
Mef2c	-0.582054	-2.10744	5.00E-05	0.00022	yes
Cyb561a3	-0.583225	-1.40344	0.00595	0.016553	yes
Zfp809	-0.583489	-0.719752	0.20565	0.320908	no
Gpr111	-0.583558	0	1	1	no
Pde3a	-0.58363	0	1	1	no
Abhd12	-0.583954	-3.03495	5.00E-05	0.00022	yes
Stard5	-0.584297	-1.377	0.01285	0.032203	yes
5730522E02Rik	-0.584319	0	1	1	no
Ak1	-0.584927	-2.6086	5.00E-05	0.00022	yes
Stxbp3a	-0.585042	-1.46405	0.0082	0.02192	yes
B2m	-0.58535	-2.55251	5.00E-05	0.00022	yes
Nit2	-0.585541	-1.37424	0.02135	0.049824	yes
Pik3r3	-0.585963	-2.52158	5.00E-05	0.00022	yes
Entpd7	-0.586041	-1.43537	0.0067	0.018343	yes
Tacc1	-0.586255	-2.55637	5.00E-05	0.00022	yes
Gm6213	-0.586581	0	1	1	no
Ankrd52	-0.586702	-2.74616	5.00E-05	0.00022	yes
Slc1a4	-0.586729	-2.65081	5.00E-05	0.00022	yes
Arhgdib	-0.586758	-0.994222	0.1053	0.187393	no
Tmem246	-0.586998	-2.68242	5.00E-05	0.00022	yes
Vhl	-0.587195	-1.83263	0.0008	0.002828	yes
Hsd17b14	-0.587566	0	1	1	no
2210416O15Rik	-0.587886	0	1	1	no
Tnfsf10	-0.588002	-1.17356	0.02165	0.0504	no
5830417I10Rik	-0.588603	-0.746649	0.14615	0.245284	no
Amph	-0.589031	-2.73325	5.00E-05	0.00022	yes
Rsph4a	-0.589292	0	1	1	no
Pcca	-0.589314	-1.88034	0.0005	0.00185	yes
Ets2	-0.589826	-2.12443	0.00015	0.000615	yes
Ltbp3	-0.589968	-1.9082	0.0005	0.00185	yes
Gng12	-0.59008	-2.06342	5.00E-05	0.00022	yes
9430037G07Rik	-0.590131	-1.1273	0.03695	0.07908	no
Tmem219	-0.59023	-1.24408	0.01405	0.034848	yes
Dnajc1	-0.590504	-1.23949	0.02005	0.047189	yes
Pcdhgb4	-0.590544	-0.196993	0.70365	0.798984	no
Maml3	-0.590627	-1.29006	0.0133	0.033218	yes

Gm166	-0.590629	0	1	1	no
Klf4	-0.590694	-1.89906	0.0002	0.000803	yes
Dyx1c1	-0.591629	-0.615069	0.21685	0.334565	no
Hist1h2bc	-0.591772	-1.89504	0.00015	0.000615	yes
Fam35a	-0.591787	-1.26114	0.01935	0.045761	yes
Coq7	-0.591818	-2.18494	0.00085	0.002983	yes
Tnfrsf1b	-0.592344	-1.01773	0.05385	0.108559	no
Mcam	-0.592366	-2.9212	5.00E-05	0.00022	yes
0610007P14Rik	-0.592433	-2.10513	0.00045	0.001682	yes
Sesn2	-0.592938	-1.02534	0.05765	0.115083	no
Tacstd2	-0.593149	0	1	1	no
Hspa12a	-0.593536	-2.66209	5.00E-05	0.00022	yes
Cyb5rl	-0.594227	-0.867213	0.1292	0.221832	no
Vmn1r85	-0.594239	0	1	1	no
Enpp6	-0.594326	0	1	1	no
Serpini1	-0.594475	-2.89498	5.00E-05	0.00022	yes
Asb17os	-0.59462	0	1	1	no
Znrf1	-0.594698	-2.24956	5.00E-05	0.00022	yes
Ndufv2	-0.595281	-2.6202	5.00E-05	0.00022	yes
Stap1	-0.595837	0	1	1	no
Srcrb4d	-0.596171	-0.915057	0.08665	0.15982	no
Prpf19	-0.596198	-2.72256	5.00E-05	0.00022	yes
Smim13	-0.596872	-2.90672	5.00E-05	0.00022	yes
Errfi1	-0.596878	-2.28374	5.00E-05	0.00022	yes
Gm13446	-0.596919	-0.3786	0.4954	0.622452	no
Pttg1ip	-0.59714	-2.69887	5.00E-05	0.00022	yes
Utrn	-0.597385	-2.77095	5.00E-05	0.00022	yes
Med9os	-0.597519	0	1	1	no
Cx3cl1	-0.598273	-1.38266	0.01025	0.026534	yes
B630019K06Rik	-0.598768	-2.2952	5.00E-05	0.00022	yes
Atp9b	-0.598803	-2.63287	5.00E-05	0.00022	yes
Grwd1	-0.598913	-1.63669	0.0034	0.010109	yes
Mia3	-0.599122	-2.81376	5.00E-05	0.00022	yes
Mknk1	-0.599335	-2.0155	0.00015	0.000615	yes
Lsp1	-0.599366	-0.814103	0.14675	0.24598	no
Myh14	-0.600095	-2.66068	5.00E-05	0.00022	yes
Dennd5a	-0.600146	-2.81785	5.00E-05	0.00022	yes
Foxr2	-0.600553	0	1	1	no
Lphn1	-0.600757	-2.87835	5.00E-05	0.00022	yes
Rel	-0.600915	0	1	1	no
Vma21	-0.601056	-2.51174	5.00E-05	0.00022	yes
Bcl6b	-0.601161	0	1	1	no
Sun2	-0.601285	-2.46948	5.00E-05	0.00022	yes
Fntb	-0.601524	-2.37144	5.00E-05	0.00022	yes
Klf6	-0.601913	-2.71112	5.00E-05	0.00022	yes
Ndufb5	-0.601976	-2.98459	5.00E-05	0.00022	yes
Pxmp4	-0.602091	-1.73153	0.00325	0.009727	yes
Slc25a25	-0.602359	-2.80423	5.00E-05	0.00022	yes
1700049G17Rik	-0.602694	-1.09819	0.03455	0.074739	no
Camk2b	-0.603051	-2.45939	5.00E-05	0.00022	yes
Acot11	-0.603383	-1.69739	0.0008	0.002828	yes
Rock2	-0.603384	-2.65384	5.00E-05	0.00022	yes
Hadh	-0.603849	-2.45651	5.00E-05	0.00022	yes

Fau	-0.603876	-0.717726	0.20635	0.321811	no
Kcnj3	-0.604119	-1.68938	0.003	0.009064	yes
Tet1	-0.604256	-1.36944	0.0064	0.017627	yes
Kremen2	-0.604286	0	1	1	no
Stox2	-0.604353	-2.33188	5.00E-05	0.00022	yes
Plekhd1	-0.604481	-2.72141	5.00E-05	0.00022	yes
Fbxo47	-0.60485	0	1	1	no
Junb	-0.604878	-2.81584	5.00E-05	0.00022	yes
Olfir920	-0.604949	-0.854975	0.1238	0.214224	no
Tm6sf1	-0.605291	-1.31501	0.0212	0.049553	yes
Slc16a1	-0.605394	-2.69032	5.00E-05	0.00022	yes
H2afy3	-0.605559	0	1	1	no
Vps26a	-0.605688	-2.40051	5.00E-05	0.00022	yes
Cd63	-0.605969	-1.34215	0.0081	0.021701	yes
Pcdhgb7	-0.606368	-0.189667	0.71955	0.811827	no
Oscp1	-0.606688	-1.81621	0.0019	0.00608	yes
Zfp951	-0.606807	0	1	1	no
Ptgir	-0.606867	-2.61555	5.00E-05	0.00022	yes
Slc25a33	-0.607407	-2.47149	5.00E-05	0.00022	yes
Elp3	-0.608543	-2.66973	5.00E-05	0.00022	yes
Nkiras1	-0.608876	-2.24228	5.00E-05	0.00022	yes
Notum	-0.609302	0	1	1	no
Alpk2	-0.609561	0	1	1	no
Tbc1d4	-0.609908	-2.05766	5.00E-05	0.00022	yes
Gltpd1	-0.610656	-2.67212	5.00E-05	0.00022	yes
Gramd1b	-0.610724	-2.58967	5.00E-05	0.00022	yes
Atp5l	-0.61141	-0.873529	0.29615	0.423934	no
Slc22a21	-0.611437	0	1	1	no
Dusp6	-0.611453	-2.31164	5.00E-05	0.00022	yes
Slc35e1	-0.61147	-2.73991	5.00E-05	0.00022	yes
Gm10432	-0.611978	0	1	1	no
Fhdc1	-0.613166	-1.91281	0.0003	0.001164	yes
Cacna2d3	-0.613341	-2.48677	5.00E-05	0.00022	yes
Samd15	-0.614094	0	1	1	no
Selp	-0.614555	0	1	1	no
Galr2	-0.614744	0	1	1	no
Ckap4	-0.61496	-2.36299	5.00E-05	0.00022	yes
Nde1	-0.615569	-1.47911	0.00375	0.011009	yes
Neurod4	-0.615689	0	1	1	no
Vezf1	-0.615839	-2.25568	5.00E-05	0.00022	yes
Ankrd33b	-0.615876	-1.29834	0.0115	0.02929	yes
Svil	-0.615982	-1.87505	0.00035	0.001342	yes
Cyb5d2	-0.615993	-2.20226	5.00E-05	0.00022	yes
Ric3	-0.616318	-2.37018	5.00E-05	0.00022	yes
Galnt1	-0.616439	-2.44593	5.00E-05	0.00022	yes
Aco2	-0.6165	-2.97409	5.00E-05	0.00022	yes
Birc3	-0.616557	-0.974432	0.0727	0.138979	no
Rfxank	-0.616612	-1.17224	0.02995	0.066379	no
Slc43a2	-0.616955	-2.70305	5.00E-05	0.00022	yes
Adam10	-0.617707	-2.92018	5.00E-05	0.00022	yes
Slc10a4	-0.618065	0	1	1	no
Cdon	-0.618612	-1.48055	0.00475	0.013561	yes
Sik1	-0.618681	-1.63692	0.00195	0.006219	yes

Triobp	-0.618797	-1.4168	0.00635	0.017515	yes
Jade1	-0.618884	-1.70987	0.0006	0.002181	yes
Pcdhb14	-0.618982	-0.181095	0.74075	0.82786	no
Tpgs2	-0.619131	-2.4163	5.00E-05	0.00022	yes
Cbfa2t2	-0.619375	-1.96382	0.0001	0.000422	yes
Syne2	-0.62036	-2.35959	5.00E-05	0.00022	yes
Msi2	-0.62049	-2.64898	5.00E-05	0.00022	yes
Shroom3	-0.620655	-2.0827	5.00E-05	0.00022	yes
Csf1	-0.620919	-1.6686	0.0015	0.004953	yes
Efnb2	-0.62257	-2.46098	5.00E-05	0.00022	yes
Mgst3	-0.622745	-3.41864	5.00E-05	0.00022	yes
Tmem176a	-0.622818	-2.39364	5.00E-05	0.00022	yes
Znrf3	-0.623185	-1.26792	0.01195	0.030273	yes
Gm14295	-0.623208	-1.26669	0.0363	0.077915	no
Cartpt	-0.62345	-1.51614	0.0035	0.01036	yes
Pus3	-0.624131	-1.18941	0.03635	0.077997	no
Rnf149	-0.624416	-2.19971	5.00E-05	0.00022	yes
Nek4	-0.62492	-1.58723	0.00415	0.012021	yes
Tmem25	-0.625106	-2.97419	5.00E-05	0.00022	yes
Fam53b	-0.625146	-2.08337	5.00E-05	0.00022	yes
Tdrd6	-0.62526	0	1	1	no
Supt16	-0.62595	-2.58182	5.00E-05	0.00022	yes
Sec14l1	-0.625992	-2.51104	5.00E-05	0.00022	yes
Nrm	-0.626622	-1.01676	0.0813	0.152045	no
Sh3kbp1	-0.626956	-2.09641	5.00E-05	0.00022	yes
Slc25a20	-0.627225	-2.15055	0.0002	0.000803	yes
Farp1	-0.628451	-2.05635	0.00025	0.000985	yes
Plscr1	-0.62865	-0.713038	0.15575	0.25768	no
1110006O24Rik	-0.628738	0	1	1	no
Fndc4	-0.629093	-0.500437	0.30685	0.435772	no
Tmem17	-0.629357	-1.2978	0.0271	0.060918	no
Clstn1	-0.629934	-2.74159	5.00E-05	0.00022	yes
Sgpp2	-0.630154	-2.65283	5.00E-05	0.00022	yes
Plxna1	-0.630653	-2.69874	5.00E-05	0.00022	yes
Bfsp1	-0.630694	-0.795609	0.1091	0.192734	no
Me1	-0.630987	-2.8394	5.00E-05	0.00022	yes
Scn4a	-0.631099	-1.45474	0.00515	0.014587	yes
Fam110a	-0.632652	-0.832402	0.08345	0.155147	no
AI593442	-0.632921	-2.87401	5.00E-05	0.00022	yes
Lypd6	-0.633387	-1.32215	0.00975	0.025413	yes
Tnfrsf13c	-0.634266	0	1	1	no
Creb3l2	-0.634695	-1.7532	0.0011	0.00376	yes
Abca4	-0.635065	0	1	1	no
Fas	-0.635195	-0.446899	0.28095	0.406873	no
E430016F16Rik	-0.635261	0	1	1	no
Clec14a	-0.635487	-1.36783	0.00865	0.022947	yes
Syt12	-0.63573	-2.60883	5.00E-05	0.00022	yes
Has3	-0.63613	-1.07596	0.03985	0.084294	no
Zfyve21	-0.636621	-1.63745	0.00605	0.016792	yes
Timp4	-0.636846	0	1	1	no
Ascl3	-0.636948	0	1	1	no
Fam58b	-0.637778	-1.63102	0.00835	0.022272	yes
Slc12a2	-0.638231	-3.07884	5.00E-05	0.00022	yes

Kctd21	-0.638343	-1.59011	0.00375	0.011009	yes
Sh3pxd2a	-0.638833	-2.94886	5.00E-05	0.00022	yes
Sfxn5	-0.639102	-2.37713	5.00E-05	0.00022	yes
Lpp	-0.639178	-1.14404	0.02505	0.057005	no
Slc27a4	-0.639293	-3.0748	5.00E-05	0.00022	yes
F830016B08Rik	-0.639959	0	1	1	no
Shb	-0.640295	-0.857255	0.11275	0.197864	no
Zfa-ps	-0.640844	0	1	1	no
Xkr5	-0.641295	0	1	1	no
Eno2	-0.641593	-3.0897	5.00E-05	0.00022	yes
Cyp2u1	-0.641702	-1.56368	0.0049	0.013947	yes
Podxl2	-0.641811	-2.37881	5.00E-05	0.00022	yes
Phactr4	-0.6425	-1.5181	0.00235	0.007346	yes
Slc25a42	-0.6428	-1.67082	0.0024	0.00748	yes
Prr32	-0.64347	-0.633573	0.29945	0.427367	no
Ankrd28	-0.643906	-2.15515	5.00E-05	0.00022	yes
Fnta	-0.644661	-3.11509	5.00E-05	0.00022	yes
Large	-0.64489	-2.87343	5.00E-05	0.00022	yes
Chl1	-0.645831	-2.95687	5.00E-05	0.00022	yes
6030408B16Rik	-0.64712	0	1	1	no
Iqcj	-0.647482	0	1	1	no
Capn3	-0.647956	0	1	1	no
St18	-0.648312	0	1	1	no
Rasl2-9	-0.649117	0	1	1	no
Cldn9	-0.649497	-1.08788	0.062	0.121986	no
H6pd	-0.649662	-1.42596	0.0053	0.014929	yes
Selenbp1	-0.649685	0	1	1	no
Procr	-0.649996	-1.00948	0.0807	0.151072	no
Eva1c	-0.650319	-1.58716	0.00195	0.006219	yes
Amer1	-0.650964	-2.60706	5.00E-05	0.00022	yes
B9d1	-0.651766	-1.18647	0.0785	0.14804	no
Glyctk	-0.652049	-1.21478	0.01565	0.038195	yes
Etnk2	-0.65255	0	1	1	no
Ubt2	-0.652727	-2.50069	5.00E-05	0.00022	yes
Uhrf1bp1	-0.652832	-2.16999	0.00015	0.000615	yes
Zfp85	-0.653189	-0.746181	0.1343	0.229018	no
Cntn6	-0.653264	-1.39834	0.00885	0.02338	yes
Cass4	-0.653616	0	1	1	no
Slc12a9	-0.6538	-2.0594	0.0003	0.001164	yes
Krt222	-0.654071	-2.58053	5.00E-05	0.00022	yes
Klf2	-0.654159	-2.06799	0.00045	0.001682	yes
Drd1a	-0.654727	0	1	1	no
Tmem255b	-0.655249	0	1	1	no
Slc44a1	-0.655445	-3.01556	5.00E-05	0.00022	yes
Got1	-0.655476	-3.35994	5.00E-05	0.00022	yes
Tmbim6	-0.656156	-3.06783	5.00E-05	0.00022	yes
Raet1c,Raet1e	-0.656434	0	1	1	no
Syk	-0.656549	0	1	1	no
Opn4	-0.656819	0	1	1	no
Acss2	-0.657103	-2.79966	5.00E-05	0.00022	yes
Flrt1	-0.657328	-1.05051	0.05525	0.111027	no
Ifitm1	-0.657889	-0.574588	0.36555	0.497359	no
Enpp2	-0.658226	-1.9774	0.00015	0.000615	yes

Ccdc122	-0.658927	-1.28166	0.0251	0.057089	no
Adam2	-0.659873	0	1	1	no
4930413G21Rik	-0.659912	0	1	1	no
Srgap2	-0.660325	-2.63303	5.00E-05	0.00022	yes
Sox7	-0.660342	0	1	1	no
Ifi44	-0.660847	-0.912744	0.09185	0.167433	no
Pcdhga10	-0.660944	-0.253015	0.6108	0.722236	no
Kcng1	-0.660948	-0.935242	0.0891	0.163204	no
Fgf5	-0.660955	-0.809968	0.11025	0.194325	no
Tecr	-0.661548	-3.07761	5.00E-05	0.00022	yes
Vkorc1	-0.662117	-2.42968	0.0003	0.001164	yes
Mettl21a	-0.662128	-1.90135	0.0005	0.00185	yes
Lancl1	-0.662453	-3.00117	5.00E-05	0.00022	yes
Abcg1	-0.662975	-2.93194	5.00E-05	0.00022	yes
Atp5c1	-0.663396	-2.97315	5.00E-05	0.00022	yes
Slc12a1	-0.663876	0	1	1	no
Inca1	-0.664021	0	1	1	no
Tmem181b-ps	-0.664189	-1.5446	0.00555	0.015544	yes
Atp6v1g2	-0.665165	-3.28864	5.00E-05	0.00022	yes
Gm16675	-0.665452	0	1	1	no
Sntg2	-0.665688	0	1	1	no
Ndufa12	-0.665912	-2.13269	0.0068	0.018594	yes
Bhlhb9	-0.666255	-2.42119	5.00E-05	0.00022	yes
Fam195a	-0.667156	-1.03745	0.12175	0.21131	no
Mtx3	-0.667203	-2.79332	5.00E-05	0.00022	yes
Abl2	-0.667277	-2.69873	5.00E-05	0.00022	yes
Grtp1	-0.66758	-0.720287	0.14685	0.246054	no
Il1rapl1	-0.667747	-0.924875	0.08915	0.163251	no
Six4	-0.669462	-2.7341	5.00E-05	0.00022	yes
Pcdhgb1	-0.669547	-0.269881	0.6105	0.72201	no
Fam20b	-0.670249	-3.15133	5.00E-05	0.00022	yes
Ctgf	-0.670574	-1.98704	0.00045	0.001682	yes
Engase	-0.670663	-1.70288	0.0018	0.005802	yes
Xlr3b	-0.670765	-1.22394	0.0336	0.07297	no
Mpi	-0.670897	-2.81795	5.00E-05	0.00022	yes
Gm12250	-0.671108	0	1	1	no
Gm16712	-0.671118	0	1	1	no
Tgtp2	-0.672072	-0.720185	0.2096	0.325845	no
Dip2a	-0.672302	-2.76198	5.00E-05	0.00022	yes
Casp7	-0.672813	-1.02623	0.06185	0.121763	no
Itga5	-0.672901	-1.13734	0.02225	0.051589	no
Gm7120	-0.673074	-1.57154	0.00415	0.012021	yes
Cxcl1	-0.673336	-0.831716	0.1899	0.301617	no
Wisp3	-0.673471	0	1	1	no
Atg9b	-0.67393	-0.702396	0.15055	0.250797	no
Pdgfb	-0.67491	-1.56993	0.002	0.006363	yes
Agap1	-0.675006	-2.89251	5.00E-05	0.00022	yes
Ccdc78	-0.675016	0	1	1	no
Zfp30	-0.675323	-1.14088	0.03605	0.077454	no
Txndc16	-0.675925	-2.76218	5.00E-05	0.00022	yes
Gm1653	-0.676077	0	1	1	no
Foxo4	-0.676406	-1.99662	0.0003	0.001164	yes
Syne3	-0.676908	-1.50222	0.00375	0.011009	yes

Sorl1	-0.677476	-3.24647	5.00E-05	0.00022	yes
4632428N05Rik	-0.67852	-1.18015	0.0204	0.047928	yes
Siae	-0.678953	-2.43637	5.00E-05	0.00022	yes
Habp4	-0.679018	-3.29439	5.00E-05	0.00022	yes
Gm17757,Gm1885	-0.679074	0	1	1	no
Tubgcp4	-0.679461	-1.71696	0.00195	0.006219	yes
Rgag1	-0.680113	-1.35775	0.01195	0.030273	yes
Pdhb	-0.680459	-3.33383	5.00E-05	0.00022	yes
S100a13	-0.680775	-3.37437	5.00E-05	0.00022	yes
Clic5	-0.68128	-1.6279	0.00225	0.007062	yes
Lcp1	-0.681416	-2.92926	5.00E-05	0.00022	yes
Trip10	-0.681964	-2.07685	5.00E-05	0.00022	yes
Gm5141	-0.682036	0	1	1	no
Lrrn4cl	-0.682402	-1.07989	0.04885	0.100277	no
Dsel	-0.682453	-2.4718	5.00E-05	0.00022	yes
Rgl3	-0.682484	-0.940104	0.0876	0.161057	no
Asah1	-0.682924	-3.10471	5.00E-05	0.00022	yes
Ninj1	-0.683137	-2.24919	0.0001	0.000422	yes
Rnf208	-0.683714	-3.02455	5.00E-05	0.00022	yes
Xk	-0.684151	-2.28733	5.00E-05	0.00022	yes
Chga	-0.684495	-3.49396	5.00E-05	0.00022	yes
Tube1	-0.684568	-1.04457	0.0455	0.094571	no
Slc26a10	-0.684894	0	1	1	no
Hyal3	-0.684923	-0.594067	0.23345	0.354206	no
Rspo3	-0.685133	0	1	1	no
Dner	-0.686085	-3.15356	5.00E-05	0.00022	yes
Xylb	-0.686368	-0.918987	0.06065	0.119846	no
Tmem184a	-0.686505	0	1	1	no
Cdh18	-0.686669	-2.39064	5.00E-05	0.00022	yes
Nrg1	-0.686752	-2.99386	5.00E-05	0.00022	yes
Slc46a3	-0.687608	-1.11293	0.0397	0.084043	no
Cadm3	-0.687763	-3.21595	5.00E-05	0.00022	yes
Zfp870	-0.6878	-1.4197	0.00695	0.018933	yes
Dnah1	-0.687844	0	1	1	no
Cox5a	-0.687947	-4.3832	5.00E-05	0.00022	yes
4921531C22Rik	-0.68815	-0.810026	0.15025	0.25036	no
Lrrc24	-0.688542	-1.6132	0.005	0.014211	yes
Gm12185	-0.689089	0	1	1	no
Tlr2	-0.689185	0	1	1	no
Ccbl2	-0.689481	-1.43817	0.0097	0.025313	yes
Zfp398	-0.689497	-1.45971	0.00485	0.01382	yes
Osbp2	-0.68957	-2.17281	5.00E-05	0.00022	yes
Mboat1	-0.689641	-1.656	0.0028	0.008532	yes
Gsg1l	-0.690193	-1.30607	0.0144	0.035596	yes
Enpp3	-0.690586	0	1	1	no
Rnf26	-0.691349	-2.50237	5.00E-05	0.00022	yes
Dok5	-0.691469	-1.39748	0.00605	0.016792	yes
Dnajc25	-0.691671	-1.05611	0.06605	0.128695	no
Elk4	-0.69205	-1.87591	0.00055	0.002016	yes
Hsd17b7	-0.692504	-3.09899	5.00E-05	0.00022	yes
Art4	-0.692854	-1.17774	0.03455	0.074739	no
Npr1	-0.694152	-1.31249	0.0155	0.037857	yes
Abcg4	-0.694727	-2.90125	5.00E-05	0.00022	yes

Lrrc1	-0.694936	-1.14434	0.0217	0.05049	no
Ang	-0.695065	-0.400739	0.48705	0.614989	no
Hapln3	-0.695662	-0.949234	0.1045	0.186369	no
Pram1	-0.695671	0	1	1	no
E2f6	-0.696053	-2.66273	5.00E-05	0.00022	yes
Fat4	-0.696548	-2.00767	5.00E-05	0.00022	yes
Prkaca	-0.696869	-3.26128	5.00E-05	0.00022	yes
Epb4.1l3	-0.697246	-2.9861	5.00E-05	0.00022	yes
Slc25a10	-0.697397	-2.28605	5.00E-05	0.00022	yes
Gm6537	-0.697514	0	1	1	no
Ldb3	-0.697756	-1.36836	0.00865	0.022947	yes
Hist1h3d	-0.697896	0	1	1	no
Ggcx	-0.698471	-1.91716	0.00045	0.001682	yes
Caps2	-0.699346	0	1	1	no
Sez6l2	-0.699435	-3.21098	5.00E-05	0.00022	yes
Hist1h3f	-0.699464	0	1	1	no
Arhgap42	-0.699626	-1.98955	5.00E-05	0.00022	yes
Gm4980	-0.700071	-2.97149	5.00E-05	0.00022	yes
Cd200	-0.70015	-3.22725	5.00E-05	0.00022	yes
Gm7173	-0.700245	0	1	1	no
Fam49a	-0.700769	-1.91034	0.0005	0.00185	yes
Mog	-0.701079	0	1	1	no
Npy	-0.701528	0	1	1	no
Cabp1	-0.701583	-3.69799	5.00E-05	0.00022	yes
Smpd1	-0.701664	-3.23681	5.00E-05	0.00022	yes
Flna	-0.701762	-3.03334	5.00E-05	0.00022	yes
Rgag4	-0.701931	-1.2673	0.0141	0.034959	yes
Card9	-0.701987	0	1	1	no
Zc2hc1c	-0.702903	0	1	1	no
Nradd	-0.702967	-0.86917	0.1564	0.258594	no
Ccdc85c	-0.703122	-1.21533	0.03665	0.078514	no
Wfikkn1	-0.703409	0	1	1	no
Pgm5	-0.703709	-1.10338	0.03165	0.069451	no
Bak1	-0.704301	-1.77561	0.0017	0.005514	yes
Tbx3	-0.704395	-2.31913	5.00E-05	0.00022	yes
Fam101b	-0.704395	-2.28055	0.00015	0.000615	yes
Smim24	-0.705028	0	1	1	no
Ihh	-0.705844	0	1	1	no
Phf11d	-0.705892	0	1	1	no
Napepld	-0.706254	-1.62962	0.00275	0.008412	yes
Lyrn5	-0.706277	-2.13109	0.00015	0.000615	yes
Muc1	-0.70657	0	1	1	no
Pard6b	-0.706653	-1.40248	0.00995	0.025858	yes
Iglon5	-0.706921	-2.49201	5.00E-05	0.00022	yes
Mmgt2	-0.707267	-1.44779	0.01015	0.026321	yes
Lyve1	-0.708549	-1.30607	0.01865	0.044374	yes
4930528A17Rik	-0.709017	0	1	1	no
Gm20753	-0.709211	0	1	1	no
Sorbs1	-0.709249	-3.26922	5.00E-05	0.00022	yes
Ptpn4	-0.709884	-1.64057	0.00265	0.008146	yes
Dpf3	-0.710613	-1.16702	0.02135	0.049824	yes
Klhl6	-0.711038	0	1	1	no
Sh3d19	-0.711293	-2.81857	5.00E-05	0.00022	yes

Sptbn2	-0.711381	-3.3733	5.00E-05	0.00022	yes
5730480H06Rik	-0.712034	0	1	1	no
Klhl33	-0.712196	-1.19522	0.0391	0.082906	no
Prkrir	-0.71248	-2.75999	5.00E-05	0.00022	yes
Napsa	-0.713207	0	1	1	no
Fes	-0.714428	-0.929225	0.08425	0.156394	no
Shroom4	-0.714667	-1.1385	0.02195	0.051009	no
Pip4k2a	-0.714936	-3.32183	5.00E-05	0.00022	yes
Cbfb	-0.715281	-3.33291	5.00E-05	0.00022	yes
Bambi	-0.715341	-1.7907	0.00045	0.001682	yes
Entpd6	-0.715388	-2.39325	5.00E-05	0.00022	yes
Tc2n	-0.715483	0	1	1	no
Rapgef2	-0.715647	-2.83544	5.00E-05	0.00022	yes
Dusp16	-0.716041	-1.93985	0.00065	0.002343	yes
Atp1a1	-0.716151	-2.18495	0.0002	0.000803	yes
Epb4.1l1	-0.718199	-3.3441	5.00E-05	0.00022	yes
Ppp2r5a	-0.718298	-1.22761	0.01825	0.043587	yes
Klhl40	-0.71894	0	1	1	no
Gm2115	-0.719079	-2.85697	5.00E-05	0.00022	yes
4931406P16Rik	-0.719306	-2.62097	5.00E-05	0.00022	yes
Hrsp12	-0.719467	-2.73577	0.0001	0.000422	yes
Prlr	-0.719921	-0.71571	0.0916	0.167023	no
Itm2b	-0.72026	-3.65144	5.00E-05	0.00022	yes
Tmem123	-0.720553	-2.05396	5.00E-05	0.00022	yes
Gtdc1	-0.720793	-2.21417	0.0001	0.000422	yes
Kbtbd12	-0.720834	0	1	1	no
Kcnt2	-0.721049	-1.62692	0.0018	0.005802	yes
St3gal5	-0.721946	-2.60196	5.00E-05	0.00022	yes
Alg9	-0.722055	-1.82469	0.0004	0.001513	yes
Mid1	-0.722156	0	1	1	no
Ss18	-0.722204	-1.70716	0.00125	0.00422	yes
Ripk1	-0.72224	-1.47473	0.0078	0.020982	yes
Dsp	-0.72231	0	1	1	no
Cth	-0.722394	0	1	1	no
Fbxo7	-0.722951	-2.57016	5.00E-05	0.00022	yes
Cdkl5	-0.72376	-1.15385	0.0263	0.059381	no
Dscaml1	-0.723794	0	1	1	no
Lgalsl	-0.723844	-2.83399	5.00E-05	0.00022	yes
Cyp2c44	-0.72428	0	1	1	no
Efhd2	-0.724549	-2.79961	5.00E-05	0.00022	yes
Fblim1	-0.726337	0	1	1	no
A730056A06Rik	-0.72673	0	1	1	no
Eid1	-0.726788	-2.67978	5.00E-05	0.00022	yes
Tsc22d4	-0.72723	-2.68853	5.00E-05	0.00022	yes
Fkbp14	-0.727891	-2.34012	5.00E-05	0.00022	yes
Art5	-0.728766	0	1	1	no
Ttc16	-0.729181	0	1	1	no
Fbxl7	-0.729354	-1.34514	0.0117	0.029708	yes
Gm13298	-0.729638	0	1	1	no
Rgs2	-0.729648	-2.04003	0.00025	0.000985	yes
Tspan3	-0.730211	-3.85589	5.00E-05	0.00022	yes
Igf2r	-0.730322	-2.97401	5.00E-05	0.00022	yes
Zfp473	-0.733369	0	1	1	no

Cdk2	-0.73368	-0.986858	0.0523	0.105982	no
Gfm1	-0.734495	-1.33401	0.02465	0.056249	no
Vwa8	-0.735001	-2.97472	5.00E-05	0.00022	yes
Mapkbp1	-0.735378	-1.91217	5.00E-05	0.00022	yes
Arhgef5	-0.735422	0	1	1	no
Mir8112	-0.73554	0	1	1	no
Vmn1r181	-0.736279	0	1	1	no
Ppargc1b	-0.737211	-1.4552	0.0064	0.017627	yes
Srgn	-0.737249	-2.05407	0.00185	0.005939	yes
Phb	-0.73894	-2.52471	5.00E-05	0.00022	yes
Cdc26	-0.739023	-2.16685	0.0018	0.005802	yes
Bcas1	-0.739493	-2.30068	5.00E-05	0.00022	yes
Ptgr1	-0.739517	-1.81866	0.0014	0.004657	yes
Il20rb	-0.739905	0	1	1	no
Slitrk5	-0.740309	-2.7428	5.00E-05	0.00022	yes
Slnf5	-0.740595	-2.05379	0.0001	0.000422	yes
Atp8b4	-0.740794	0	1	1	no
Gm18853	-0.741786	0	1	1	no
Itga11	-0.741818	-1.39611	0.0085	0.022613	yes
Kcnq2	-0.742239	-2.85681	5.00E-05	0.00022	yes
Net1	-0.742555	-2.31982	5.00E-05	0.00022	yes
Unc93b1	-0.743735	-1.49092	0.003	0.009064	yes
Cdh24	-0.743791	-0.953866	0.0802	0.15054	no
Pigx	-0.743803	-1.30168	0.00995	0.025858	yes
Kctd12b	-0.744104	-1.32517	0.01265	0.031774	yes
Oasl1	-0.744131	-0.965155	0.0832	0.154791	no
Agt	-0.74616	-1.53461	0.00855	0.022737	yes
Fxyd5	-0.746523	-1.52516	0.0025	0.007739	yes
Tmx2	-0.746574	-2.66469	5.00E-05	0.00022	yes
Rnft2	-0.748597	-2.68607	5.00E-05	0.00022	yes
Auh	-0.74891	-3.5165	5.00E-05	0.00022	yes
Vamp3	-0.749361	-2.64217	5.00E-05	0.00022	yes
Ccdc125	-0.74973	0	1	1	no
Nxpe3	-0.75019	-3.14332	5.00E-05	0.00022	yes
Col6a4	-0.750708	0	1	1	no
Cdc42ep2	-0.75111	-2.58336	5.00E-05	0.00022	yes
H60b	-0.751774	0	1	1	no
Gsdmd	-0.752151	-0.916398	0.11165	0.196297	no
Aldh1l2	-0.75274	-1.36937	0.00985	0.025654	yes
Galk1	-0.752936	-0.787897	0.0725	0.138716	no
Gid4	-0.753035	-2.93682	5.00E-05	0.00022	yes
Mgrn1	-0.753456	-2.21082	0.0002	0.000803	yes
Ntrk1	-0.753776	-3.77307	5.00E-05	0.00022	yes
A630033H20Rik	-0.754302	0	1	1	no
Foxo6	-0.75434	-1.18924	0.0305	0.067373	no
Hhip	-0.754477	0	1	1	no
Slc6a6	-0.755019	-2.76959	5.00E-05	0.00022	yes
Dact2	-0.75566	-1.19276	0.02925	0.065056	no
Rcbtb1	-0.757401	-3.31651	5.00E-05	0.00022	yes
Rab11fip4	-0.757528	-3.00975	5.00E-05	0.00022	yes
Kat2b	-0.757699	-2.58921	5.00E-05	0.00022	yes
Prdx4	-0.757724	-2.71409	5.00E-05	0.00022	yes
Lrrc20	-0.757816	-2.56703	5.00E-05	0.00022	yes

Mfsd2a	-0.758112	-2.7527	5.00E-05	0.00022	yes
A630007B06Rik	-0.758567	-2.69187	5.00E-05	0.00022	yes
Pbx4	-0.758936	-1.11543	0.05995	0.118692	no
Cnst	-0.758999	-3.6887	5.00E-05	0.00022	yes
Myof	-0.759084	-1.53918	0.0047	0.013433	yes
4930425O10Rik	-0.760776	0	1	1	no
Prps2	-0.760792	-2.70616	5.00E-05	0.00022	yes
Tcf4	-0.761013	-2.77115	5.00E-05	0.00022	yes
Kctd14	-0.761089	0	1	1	no
Ptges3l	-0.76137	0	1	1	no
Smad6	-0.761863	-1.08386	0.04725	0.097597	no
Zbp1	-0.762094	0	1	1	no
Ppif	-0.762569	-2.19227	5.00E-05	0.00022	yes
Cd79a	-0.762782	0	1	1	no
Ufsp1	-0.762952	-1.74569	0.00655	0.017992	yes
Fgfr3	-0.764315	0	1	1	no
Crtap	-0.765298	-1.75813	0.0007	0.002506	yes
Agtr2	-0.765945	0	1	1	no
Cyba	-0.766448	-1.33805	0.0513	0.104322	no
Otop3	-0.767241	0	1	1	no
4930570G19Rik	-0.767425	0	1	1	no
Lrrk1	-0.768093	-1.81994	0.0005	0.00185	yes
Hsd12	-0.768183	-3.53397	5.00E-05	0.00022	yes
2310010J17Rik	-0.768571	-0.302187	0.55665	0.676599	no
Rftn1	-0.769276	0	1	1	no
Gpr125	-0.769481	-2.85744	5.00E-05	0.00022	yes
0610043K17Rik	-0.769832	0	1	1	no
Arhgap44	-0.769839	-3.09584	5.00E-05	0.00022	yes
Anp32a	-0.770213	-3.13695	5.00E-05	0.00022	yes
Arhgap25	-0.770947	-1.24996	0.0148	0.036422	yes
1500009C09Rik	-0.77103	0	1	1	no
Ms4a4c	-0.772156	0	1	1	no
Sptb	-0.772705	-3.48581	5.00E-05	0.00022	yes
Gprin3	-0.772847	0	1	1	no
Ndc1	-0.772868	-2.39222	5.00E-05	0.00022	yes
Tcam1	-0.773213	0	1	1	no
Lepre1	-0.773375	-1.55281	0.00285	0.008668	yes
Tmem64	-0.773655	-3.24431	5.00E-05	0.00022	yes
Mfsd7c	-0.774261	-1.24646	0.02025	0.047626	yes
Nsun4	-0.774442	-2.44302	5.00E-05	0.00022	yes
Pcdhb15	-0.775328	-0.157993	0.79095	0.863736	no
9130008F23Rik	-0.775373	0	1	1	no
Nxt2	-0.775409	-2.62091	5.00E-05	0.00022	yes
Rho	-0.776052	-1.10853	0.04325	0.090504	no
Myo15	-0.776129	0	1	1	no
Ttyh2	-0.776166	-1.96953	0.00035	0.001342	yes
Atp2a2	-0.776456	-3.45912	5.00E-05	0.00022	yes
Plcd1	-0.776934	-1.8497	0.00165	0.00538	yes
Phldb1	-0.777463	-3.05121	5.00E-05	0.00022	yes
Rapgef4	-0.777495	-3.56554	5.00E-05	0.00022	yes
Endog	-0.777715	-1.48668	0.01955	0.046159	yes
Ttc21b	-0.77803	-2.0081	0.0001	0.000422	yes
Inf2	-0.778264	-3.16977	5.00E-05	0.00022	yes

Rprml	-0.778959	0	1	1	no
Chrm3	-0.779016	-1.11844	0.0385	0.081803	no
Fut10	-0.779152	-1.49121	0.00355	0.010494	yes
Fut8	-0.779158	-3.11447	5.00E-05	0.00022	yes
Dnah7b	-0.779516	0	1	1	no
C1qtnf9	-0.779766	0	1	1	no
Tango6	-0.779877	-1.68129	0.00195	0.006219	yes
Arhgef2	-0.780022	-2.02223	0.00015	0.000615	yes
Klhl36	-0.780266	-1.2499	0.0279	0.062451	no
A430035B10Rik	-0.780635	-0.929968	0.1052	0.187316	no
Lrrd1	-0.780844	0	1	1	no
Rhbd2	-0.781446	-1.55774	0.00225	0.007062	yes
Rap1gap	-0.782071	-3.31302	5.00E-05	0.00022	yes
Zbtb12	-0.782196	-0.997146	0.0783	0.147726	no
Vamp5	-0.7825	-1.16796	0.0217	0.05049	no
Ghsr	-0.782529	0	1	1	no
Sp1	-0.782563	-2.8271	5.00E-05	0.00022	yes
Nr3c1	-0.782613	-3.23061	5.00E-05	0.00022	yes
Arhgap5	-0.783147	-3.25395	5.00E-05	0.00022	yes
Ube2cbp	-0.783243	0	1	1	no
Dlg1	-0.784061	-2.42702	5.00E-05	0.00022	yes
Kcnp3	-0.784255	-3.63192	5.00E-05	0.00022	yes
Hist1h4i	-0.784658	-0.973324	0.3435	0.475403	no
Slc8b1	-0.785147	-1.79023	0.00065	0.002343	yes
Etv6	-0.785367	-2.57256	5.00E-05	0.00022	yes
Spsb4	-0.785572	-1.8717	0.001	0.003451	yes
Mpp3	-0.785592	-1.35026	0.0145	0.03579	yes
Ephx1	-0.786087	-3.77269	5.00E-05	0.00022	yes
Zfp219	-0.786111	-1.79224	0.0004	0.001513	yes
Endou	-0.786309	0	1	1	no
Mamstr	-0.787785	0	1	1	no
Als2cr12	-0.787927	0	1	1	no
Mirlet7bhg	-0.78879	0	1	1	no
Mgat5	-0.789913	-2.54594	0.0001	0.000422	yes
Diap2	-0.78997	-2.65717	5.00E-05	0.00022	yes
Mbp	-0.78997	-2.62656	5.00E-05	0.00022	yes
Rmdn2	-0.792019	-2.09359	0.0004	0.001513	yes
Pyhin1	-0.792021	0	1	1	no
Fam210a	-0.792716	-3.02752	5.00E-05	0.00022	yes
Gm10033	-0.795883	-1.37769	0.00775	0.020864	yes
Klhl25	-0.797355	-1.85567	0.00015	0.000615	yes
Cd59b	-0.797609	0	1	1	no
Micall2	-0.797753	-1.72388	0.00185	0.005939	yes
Cd38	-0.797989	-1.50013	0.00695	0.018933	yes
Serpine1	-0.798423	0	1	1	no
Dagla	-0.798965	-2.80158	5.00E-05	0.00022	yes
Depdc5	-0.799917	-3.32844	5.00E-05	0.00022	yes
Fzd3	-0.80004	-3.33589	5.00E-05	0.00022	yes
Prob1	-0.800063	0	1	1	no
Sccpdh	-0.800899	-3.64461	5.00E-05	0.00022	yes
Rbm24	-0.801592	0	1	1	no
9530068E07Rik	-0.802425	-3.9703	5.00E-05	0.00022	yes
Pnlip	-0.80332	-1.1014	0.05945	0.117931	no

Hist1h2af	-0.803656	0	1	1	no
Vmn2r57	-0.803929	0	1	1	no
Agpat2	-0.805679	-1.24427	0.03515	0.075802	no
Trim30d	-0.805756	0	1	1	no
Neat1	-0.805881	-3.17726	5.00E-05	0.00022	yes
Cflar	-0.805951	-3.10363	5.00E-05	0.00022	yes
Mdh1	-0.806665	-4.13424	5.00E-05	0.00022	yes
Cdh2	-0.807	-3.56641	5.00E-05	0.00022	yes
Gpt2	-0.807245	-3.53596	5.00E-05	0.00022	yes
Scamp2	-0.807254	-2.47342	0.0001	0.000422	yes
Prodh	-0.80748	-1.20885	0.0317	0.069549	no
Syne1	-0.807542	-2.33936	5.00E-05	0.00022	yes
Phyh	-0.807897	-3.6047	5.00E-05	0.00022	yes
Bmp3	-0.809985	0	1	1	no
Mrap2	-0.810075	-1.49687	0.00425	0.01229	yes
Shh	-0.810245	-2.64076	5.00E-05	0.00022	yes
Sntb2	-0.810528	-2.35467	5.00E-05	0.00022	yes
Zfp934	-0.810681	-1.02213	0.04295	0.089933	no
Sh3bp1	-0.811205	0	1	1	no
Smim19	-0.811487	-1.98392	0.00175	0.00566	yes
Shank1	-0.811711	-2.32522	5.00E-05	0.00022	yes
0610040J01Rik	-0.81178	-1.53835	0.00835	0.022272	yes
E130008D07Rik	-0.811878	0	1	1	no
Fam186b	-0.811904	0	1	1	no
Them6	-0.812533	-4.27676	5.00E-05	0.00022	yes
Efcab14	-0.812712	-3.21644	5.00E-05	0.00022	yes
Tmem245	-0.813101	-2.98319	5.00E-05	0.00022	yes
Cdr2l	-0.813151	-3.80167	5.00E-05	0.00022	yes
Ggt6	-0.813572	0	1	1	no
1700018L02Rik	-0.813932	0	1	1	no
Sln4	-0.81503	0	1	1	no
Sstr4	-0.816003	-1.05456	0.0774	0.14634	no
Cfhr2	-0.816221	0	1	1	no
Tubb1	-0.816864	0	1	1	no
Esrp2	-0.817572	0	1	1	no
Plekhh1	-0.817577	-2.55927	5.00E-05	0.00022	yes
Lima1	-0.817661	-2.30808	5.00E-05	0.00022	yes
Fxyd4	-0.818111	0	1	1	no
Sphkap	-0.818968	-3.17245	5.00E-05	0.00022	yes
Tenm3	-0.819281	-3.49999	5.00E-05	0.00022	yes
Tlcd2	-0.820158	-0.69801	0.14665	0.245844	no
Ttc30a1	-0.820233	-1.22213	0.0264	0.059566	no
Zcwpw1	-0.821031	-1.68656	0.0023	0.007205	yes
Ttc28	-0.821217	-2.56956	5.00E-05	0.00022	yes
Arhgap35	-0.821248	-3.92708	5.00E-05	0.00022	yes
Ptprs	-0.821594	-3.79153	5.00E-05	0.00022	yes
Zfp423	-0.822343	-2.64246	5.00E-05	0.00022	yes
D630045M09Rik	-0.822901	0	1	1	no
Ccnb1ip1	-0.823463	0	1	1	no
Myo6	-0.82503	-2.78706	5.00E-05	0.00022	yes
Scnn1b	-0.825054	0	1	1	no
Foxc1	-0.8256	-1.36418	0.0109	0.027982	yes
Tsx	-0.82587	0	1	1	no

Matk	-0.826129	-0.946001	0.05425	0.109249	no
Efr3a	-0.82615	-3.79034	5.00E-05	0.00022	yes
Il15ra	-0.826213	-1.11733	0.017	0.04103	yes
Abhd2	-0.826323	-3.93005	5.00E-05	0.00022	yes
Slc19a2	-0.82652	-2.60745	5.00E-05	0.00022	yes
Sacs	-0.826672	-2.47746	5.00E-05	0.00022	yes
Nfkbiz	-0.826806	-1.7757	0.0005	0.00185	yes
Sipa1l3	-0.826914	-2.31374	0.0001	0.000422	yes
Fam69b	-0.827064	-3.32675	5.00E-05	0.00022	yes
Qsox1	-0.82786	-3.15744	5.00E-05	0.00022	yes
Irak4	-0.828115	-1.21163	0.02995	0.066379	no
Arntl	-0.828257	-0.981337	0.04715	0.097436	no
Kcns3	-0.828344	-3.19868	5.00E-05	0.00022	yes
Synpo	-0.828848	-3.0612	5.00E-05	0.00022	yes
Myrf	-0.829211	-1.47102	0.00675	0.018468	yes
Uxt	-0.829259	0	1	1	no
Cyfip1	-0.829877	-3.10091	5.00E-05	0.00022	yes
Cldn10	-0.83144	0	1	1	no
1110008P14Rik	-0.831694	-4.84872	5.00E-05	0.00022	yes
Ccdc184	-0.831843	-2.42814	5.00E-05	0.00022	yes
Mpp6	-0.832425	-2.02598	0.0001	0.000422	yes
Traf3	-0.833163	-3.26197	5.00E-05	0.00022	yes
Tmem26	-0.833704	0	1	1	no
Cplx1	-0.834076	-3.92495	5.00E-05	0.00022	yes
Kcnk4	-0.83482	-1.8301	0.0019	0.00608	yes
Aph1c	-0.835441	-1.54588	0.0051	0.014464	yes
Ifnlr1	-0.836334	0	1	1	no
Bcl9	-0.838079	-2.64286	5.00E-05	0.00022	yes
Ahcyl2	-0.838318	-3.77233	5.00E-05	0.00022	yes
Ehd3	-0.838893	-4.12538	5.00E-05	0.00022	yes
Lrrc72	-0.839253	0	1	1	no
Slc22a17	-0.839299	-4.12289	5.00E-05	0.00022	yes
Duoxa1	-0.839808	0	1	1	no
Fancc	-0.840032	-1.01951	0.04625	0.095845	no
Arhgdig	-0.841017	-4.12307	5.00E-05	0.00022	yes
Hmcn1	-0.841679	-2.04762	0.00015	0.000615	yes
Rapsn	-0.841851	-1.2554	0.03115	0.068581	no
Fam228a	-0.842081	0	1	1	no
Elovl5	-0.84242	-4.2362	5.00E-05	0.00022	yes
Gpr137c	-0.843593	-2.56107	5.00E-05	0.00022	yes
Pnmal1	-0.844364	-1.73854	0.00325	0.009727	yes
Bcar3	-0.844397	-2.626	5.00E-05	0.00022	yes
Maged2	-0.844552	-3.17431	5.00E-05	0.00022	yes
Actn3	-0.846011	0	1	1	no
Pdzk1	-0.846186	0	1	1	no
Itm2c	-0.84661	-4.3978	5.00E-05	0.00022	yes
Rpgrip1	-0.84709	0	1	1	no
Dmpk	-0.847099	-1.62086	0.002	0.006363	yes
Olr1	-0.847606	0	1	1	no
BC055111	-0.848249	0	1	1	no
Hey1	-0.849188	-2.84719	5.00E-05	0.00022	yes
Gm13293	-0.849232	0	1	1	no
Dact3	-0.849295	-2.92885	5.00E-05	0.00022	yes

Ezr	-0.849574	-3.38588	5.00E-05	0.00022	yes
Chml	-0.8497	-2.96419	5.00E-05	0.00022	yes
Bcl11b	-0.850545	-2.34857	5.00E-05	0.00022	yes
Ivd	-0.850595	-2.68107	5.00E-05	0.00022	yes
H2-Q4	-0.85152	-1.9828	0.0009	0.003139	yes
Pnoc	-0.853655	0	1	1	no
Hunk	-0.854459	-2.24012	0.0001	0.000422	yes
Tacr2	-0.854631	0	1	1	no
Raver1-fdx1l	-0.855586	0	1	1	no
1110046J04Rik	-0.856186	-0.484731	0.4649	0.594489	no
Il23a	-0.85645	0	1	1	no
Tmem53	-0.857605	-1.65562	0.0012	0.004068	yes
Skida1	-0.858339	-1.92483	0.00055	0.002016	yes
Dock10	-0.858685	-2.97594	5.00E-05	0.00022	yes
Edil3	-0.858879	-3.93933	5.00E-05	0.00022	yes
Nphp4	-0.859147	-1.68234	0.00225	0.007062	yes
Cst3	-0.859764	-5.44184	5.00E-05	0.00022	yes
4833424O15Rik	-0.86009	-1.60163	0.00355	0.010494	yes
Gm711	-0.860722	0	1	1	no
Amigo2	-0.861033	-3.23193	5.00E-05	0.00022	yes
Afap1	-0.861349	-2.64546	5.00E-05	0.00022	yes
Dpp4	-0.861623	0	1	1	no
Plbd2	-0.861647	-3.97777	5.00E-05	0.00022	yes
Nfic	-0.86228	-3.98568	5.00E-05	0.00022	yes
Grb10	-0.863258	-3.14196	5.00E-05	0.00022	yes
Ankmy1	-0.863513	0	1	1	no
Arhgef9	-0.863543	-3.41048	5.00E-05	0.00022	yes
Jsrp1	-0.863655	0	1	1	no
Pik3r6	-0.863919	0	1	1	no
Ctdsp2	-0.864436	-3.36296	5.00E-05	0.00022	yes
Gemin4	-0.864522	-1.8221	0.0009	0.003139	yes
Efcc1	-0.864659	-1.3918	0.01075	0.027656	yes
Lgmn	-0.865897	-4.52574	5.00E-05	0.00022	yes
Lingo3	-0.86612	-1.57486	0.0043	0.012421	yes
Enpp5	-0.866998	-3.88392	5.00E-05	0.00022	yes
E530011L22Rik	-0.868646	-0.618975	0.22005	0.338207	no
9330102E08Rik	-0.869491	-2.53598	5.00E-05	0.00022	yes
Grem1	-0.869517	0	1	1	no
Oc90	-0.869874	0	1	1	no
Frmd7	-0.870065	-1.65386	0.0025	0.007739	yes
Il17f	-0.870789	0	1	1	no
Cnn2	-0.870963	-0.155501	0.7872	0.861272	no
Rxrg	-0.871451	-1.83546	0.00045	0.001682	yes
Apcdd1	-0.87169	-2.19903	0.0001	0.000422	yes
Gm15408	-0.871697	0	1	1	no
Calu	-0.872105	-4.15031	5.00E-05	0.00022	yes
Phf21b	-0.872243	0	1	1	no
2410012M07Rik	-0.872701	0	1	1	no
Cebpe	-0.873357	0	1	1	no
Amt	-0.873475	-1.25996	0.03375	0.073247	no
Dusp14	-0.873533	-1.55352	0.0106	0.027323	yes
Chgb	-0.873623	-4.12648	5.00E-05	0.00022	yes
Tbx19	-0.873709	0	1	1	no

Mpl	-0.873716	0	1	1	no
Gcsh	-0.874633	-3.91921	5.00E-05	0.00022	yes
Fam102a	-0.874823	-3.89822	5.00E-05	0.00022	yes
2810049E08Rik	-0.875604	0	1	1	no
Pmp22	-0.87661	-3.46116	5.00E-05	0.00022	yes
Cnga3	-0.877315	0	1	1	no
Tmem132d	-0.87779	0	1	1	no
Focad	-0.878019	-2.85939	5.00E-05	0.00022	yes
Ptprb	-0.878651	-3.21695	5.00E-05	0.00022	yes
Slc24a2	-0.87924	-3.97659	5.00E-05	0.00022	yes
Chic1	-0.879334	-2.46	5.00E-05	0.00022	yes
Glipr1	-0.87977	0	1	1	no
Wwp1	-0.880209	-3.50554	5.00E-05	0.00022	yes
Ttc30a2	-0.880354	0	1	1	no
Gpr83	-0.880709	-1.27235	0.0227	0.052403	no
F11r	-0.881268	-1.96294	0.00065	0.002343	yes
Susd4	-0.881872	-3.83097	5.00E-05	0.00022	yes
Farp2	-0.883502	-1.22459	0.0279	0.062451	no
Synj1	-0.883627	-4.0459	5.00E-05	0.00022	yes
Galnt2	-0.88396	-3.16753	5.00E-05	0.00022	yes
Prdm11	-0.884343	0	1	1	no
Dbpht2	-0.884454	-1.92954	0.00045	0.001682	yes
Six5	-0.884547	-1.3017	0.0175	0.042076	yes
Mctp1	-0.884627	-3.43465	5.00E-05	0.00022	yes
Jun	-0.885021	-4.1948	5.00E-05	0.00022	yes
Cnksr1	-0.886404	0	1	1	no
Nynrin	-0.88657	-2.2998	5.00E-05	0.00022	yes
Sdc3	-0.886738	-4.28508	5.00E-05	0.00022	yes
Tm7sf3	-0.886841	-3.68916	5.00E-05	0.00022	yes
Fam131c	-0.886877	-1.07244	0.068	0.131971	no
Slc30a1	-0.886953	-2.84107	5.00E-05	0.00022	yes
Cd14	-0.887676	-1.12797	0.0544	0.109518	no
Irs2	-0.88896	-2.9976	5.00E-05	0.00022	yes
Lzts2	-0.889908	-2.62679	5.00E-05	0.00022	yes
E130012A19Rik	-0.890297	0	1	1	no
Acot2	-0.890308	-1.64859	0.0037	0.010879	yes
Tor1aip1	-0.891317	-1.83567	0.00085	0.002983	yes
Ackr1	-0.891396	-4.60543	5.00E-05	0.00022	yes
A830052D11Rik	-0.891482	0	1	1	no
Snap25	-0.891598	-3.61459	5.00E-05	0.00022	yes
Lefty1	-0.891797	0	1	1	no
Smad9	-0.891891	-3.83256	5.00E-05	0.00022	yes
Ptpn13	-0.892275	-3.43468	5.00E-05	0.00022	yes
Slc39a12	-0.892334	0	1	1	no
AV051173	-0.892949	0	1	1	no
Paqr8	-0.893141	-3.8811	5.00E-05	0.00022	yes
Abcg8	-0.893248	0	1	1	no
D8Ert82e	-0.893306	-1.8249	0.00105	0.003607	yes
Rxfp3	-0.893498	0	1	1	no
Vstm2a	-0.894363	-2.98059	5.00E-05	0.00022	yes
Gpr17	-0.894659	0	1	1	no
Paqr9	-0.895415	-3.77942	5.00E-05	0.00022	yes
Mreg	-0.895904	-1.77592	0.0014	0.004657	yes

Ano4	-0.896187	-3.37506	5.00E-05	0.00022	yes
Pcdhb10	-0.896532	-0.237942	0.66285	0.764366	no
Gpr64	-0.896649	-3.49985	5.00E-05	0.00022	yes
Shf	-0.896651	-2.75649	5.00E-05	0.00022	yes
Cd84	-0.897578	0	1	1	no
Dennd4c	-0.897581	-2.28793	5.00E-05	0.00022	yes
Caly	-0.897899	-1.62997	0.0019	0.00608	yes
Cd40	-0.898218	0	1	1	no
Camkk1	-0.898469	-3.28359	5.00E-05	0.00022	yes
Nanog	-0.899435	0	1	1	no
Aga	-0.899526	-2.11358	5.00E-05	0.00022	yes
Heatr5a	-0.901038	-3.95594	5.00E-05	0.00022	yes
Slc26a7	-0.901404	-1.09669	0.04615	0.095712	no
Spatc1l	-0.901531	0	1	1	no
Gria4	-0.901804	-3.04801	5.00E-05	0.00022	yes
Kcnk2	-0.902381	-2.47526	5.00E-05	0.00022	yes
St8sia1	-0.90275	-4.05192	5.00E-05	0.00022	yes
Gbp3	-0.902799	-1.88642	0.0005	0.00185	yes
Wdfy2	-0.903427	-2.62146	5.00E-05	0.00022	yes
Tas1r1	-0.903481	0	1	1	no
Cbln4	-0.904097	0	1	1	no
Xkr8	-0.904437	-1.83616	0.0008	0.002828	yes
Prtg	-0.904441	0	1	1	no
Pdk3	-0.90549	-3.63074	5.00E-05	0.00022	yes
Cdrt4	-0.905584	0	1	1	no
Sirpb1b	-0.90579	0	1	1	no
L3mbtl4	-0.906094	-1.66744	0.0018	0.005802	yes
Zdhhc22	-0.90636	-2.08683	0.00325	0.009727	yes
Galnt6	-0.908685	-1.41719	0.0069	0.018824	yes
Zfp41	-0.909462	-1.49634	0.0052	0.014691	yes
Lss	-0.910069	-3.05247	5.00E-05	0.00022	yes
Fgd4	-0.910842	-1.91575	0.0001	0.000422	yes
Zfp651	-0.910937	-3.52377	5.00E-05	0.00022	yes
Vps37b	-0.910939	-2.13098	0.00025	0.000985	yes
Olf1r18	-0.911921	0	1	1	no
Mfsd7a	-0.912023	-1.19733	0.0301	0.066634	no
Trhr	-0.913467	0	1	1	no
Cxxc5	-0.913518	-3.13442	5.00E-05	0.00022	yes
Fkbp7	-0.913931	-1.78138	0.00715	0.019434	yes
Pak6	-0.914044	0	1	1	no
Nhlh2	-0.915268	-1.28731	0.0195	0.046066	yes
Scgn	-0.915475	-1.10731	0.0604	0.119441	no
Lrrc23	-0.91549	0	1	1	no
Prss32	-0.917213	0	1	1	no
Meox1	-0.917409	0	1	1	no
Gpihbp1	-0.917483	-1.14434	0.0974	0.175762	no
Ier5	-0.917746	-1.69977	0.0027	0.008273	yes
Eddm3b	-0.917912	0	1	1	no
Bend6	-0.918323	-4.33572	5.00E-05	0.00022	yes
Lmtk2	-0.918595	-3.65473	5.00E-05	0.00022	yes
Irf8	-0.918656	0	1	1	no
Cers6	-0.918857	-2.28685	5.00E-05	0.00022	yes
Zfp704	-0.919202	-2.83875	5.00E-05	0.00022	yes

Gadd45b	-0.919292	-2.2487	0.00025	0.000985	yes
Nkd1	-0.919515	-1.86721	0.00065	0.002343	yes
Gm3317	-0.919614	0	1	1	no
Irgc1	-0.919803	0	1	1	no
9930111J21Rik1	-0.919843	0	1	1	no
Tmem254a,Tmem2	-0.920044	0	1	1	no
Slc44a3	-0.92101	0	1	1	no
Haghl	-0.921118	-3.00039	5.00E-05	0.00022	yes
Pdgfd	-0.921423	-1.07241	0.0333	0.072437	no
Rdm1	-0.921631	-1.72872	0.00595	0.016553	yes
Sash3	-0.922022	0	1	1	no
C8g	-0.922091	-0.414602	0.47985	0.60862	no
Ttc39b	-0.922248	-3.98965	5.00E-05	0.00022	yes
Kcnk10	-0.922381	-1.89858	0.001	0.003451	yes
Cstad	-0.922646	0	1	1	no
Slc29a4	-0.923086	-3.65061	5.00E-05	0.00022	yes
Gm5544	-0.923131	0	1	1	no
Ppt1	-0.923538	-4.03699	5.00E-05	0.00022	yes
Dpy19l3	-0.924051	-2.11699	0.0002	0.000803	yes
Nyx	-0.924324	0	1	1	no
Xpnpep2	-0.924526	0	1	1	no
Cyp2e1	-0.924536	0	1	1	no
Fbxo32	-0.924634	-2.50339	5.00E-05	0.00022	yes
1700007L15Rik	-0.92507	0	1	1	no
H2-DMa	-0.92637	-2.11854	0.00065	0.002343	yes
Gm6644	-0.926628	0	1	1	no
Rgl1	-0.926782	-3.95311	5.00E-05	0.00022	yes
St8sia4	-0.927529	-1.91283	0.00035	0.001342	yes
1700063D05Rik	-0.927709	0	1	1	no
Slc25a29	-0.928317	-2.19623	0.0001	0.000422	yes
Camk2g	-0.928379	-4.26955	5.00E-05	0.00022	yes
Npc1	-0.928497	-3.12069	5.00E-05	0.00022	yes
Slc26a2	-0.928965	-1.70041	0.0019	0.00608	yes
Wfdc6a	-0.929133	0	1	1	no
Gm1604b	-0.929153	0	1	1	no
Iqgap1	-0.929218	-3.70777	5.00E-05	0.00022	yes
Shroom1	-0.929657	0	1	1	no
L3mbtl3	-0.930598	-1.7377	0.00165	0.00538	yes
Epha10	-0.930901	-1.44903	0.00305	0.009188	yes
Pank1	-0.931414	-2.73526	5.00E-05	0.00022	yes
Tal2	-0.932155	0	1	1	no
Gpr153	-0.933767	-3.92219	5.00E-05	0.00022	yes
Fbxo31	-0.934081	-4.51606	5.00E-05	0.00022	yes
Pigz	-0.935047	-3.17199	5.00E-05	0.00022	yes
Hipk2	-0.935053	-2.10002	0.0001	0.000422	yes
Ppm1m	-0.935471	-1.59768	0.00275	0.008412	yes
1810011O10Rik	-0.935611	-2.30881	5.00E-05	0.00022	yes
Mtss1l	-0.935633	-3.93851	5.00E-05	0.00022	yes
Mfsd3	-0.935917	-1.73179	0.00445	0.012807	yes
Tsc22d3	-0.93618	-4.31554	5.00E-05	0.00022	yes
Slc7a15	-0.93624	0	1	1	no
Arhgef17	-0.938258	-4.24539	5.00E-05	0.00022	yes
Fam26e	-0.938321	-1.04993	0.03185	0.069821	no

Kctd1	-0.939072	-2.27755	5.00E-05	0.00022	yes
2810055G20Rik	-0.939446	0	1	1	no
Lmo1	-0.940014	-2.22112	0.0007	0.002506	yes
Nnmt	-0.940124	0	1	1	no
Dclk1	-0.940767	-4.39838	5.00E-05	0.00022	yes
Ilvbl	-0.941	-3.21293	5.00E-05	0.00022	yes
Ckb	-0.941732	-5.06228	5.00E-05	0.00022	yes
Ggct	-0.941904	-2.2343	0.0004	0.001513	yes
Six6	-0.942425	0	1	1	no
Serpinb6b	-0.942598	-1.12565	0.04945	0.101196	no
Slc1a2	-0.942648	0	1	1	no
Lamc2	-0.943915	0	1	1	no
Pxdn	-0.944109	-3.39597	5.00E-05	0.00022	yes
Fuca1	-0.945453	-3.37986	5.00E-05	0.00022	yes
Lfng	-0.94576	-1.78732	0.0024	0.00748	yes
Gm766	-0.946099	0	1	1	no
Zfp711	-0.946877	-1.41113	0.00955	0.024966	yes
Kansl1l	-0.947355	-1.61871	0.00305	0.009188	yes
Ndufaf2	-0.947472	-3.6312	5.00E-05	0.00022	yes
Slc18a1	-0.950145	-0.267429	0.6407	0.746677	no
Rnf215	-0.950184	-2.39855	5.00E-05	0.00022	yes
Dcstamp	-0.951643	0	1	1	no
1810007D17Rik	-0.951791	0	1	1	no
Pygb	-0.95325	-4.22165	5.00E-05	0.00022	yes
Gpr63	-0.953657	-1.26653	0.02475	0.056429	no
Pcdhac2	-0.953674	-1.75124	0.00055	0.002016	yes
Tmem150a	-0.954415	-0.635019	0.2597	0.383167	no
Gm16432	-0.954477	0	1	1	no
Mmp15	-0.954726	-4.54085	5.00E-05	0.00022	yes
Gm6277	-0.955766	-0.72969	0.23415	0.354898	no
Pcdhb7	-0.955891	-0.2402	0.66515	0.766552	no
Prrt3	-0.955952	-3.56413	5.00E-05	0.00022	yes
Adam32	-0.956816	0	1	1	no
Per1	-0.957219	-3.17122	5.00E-05	0.00022	yes
Gpr18	-0.958427	0	1	1	no
Ier2	-0.958433	-3.41073	5.00E-05	0.00022	yes
Lgals1	-0.958747	-5.38873	5.00E-05	0.00022	yes
Tfap2d	-0.959724	0	1	1	no
Pcolce2	-0.959836	-3.4582	5.00E-05	0.00022	yes
Oxa1l	-0.959889	-1.89629	0.00175	0.00566	yes
Lrp6	-0.960011	-3.97021	5.00E-05	0.00022	yes
Guca1a	-0.960138	0	1	1	no
Ctnnd2	-0.962685	-4.28389	5.00E-05	0.00022	yes
Kcnh4	-0.962793	0	1	1	no
Rex2	-0.962903	0	1	1	no
Fam69a	-0.963546	-1.70787	0.0018	0.005802	yes
Prkg2	-0.964624	-2.56421	5.00E-05	0.00022	yes
Cds1	-0.964768	-4.25908	5.00E-05	0.00022	yes
Map6d1	-0.965717	-1.53949	0.006	0.016674	yes
Grin3b	-0.965734	0	1	1	no
Oxtr	-0.966269	0	1	1	no
Nfatc1	-0.96727	-1.68188	0.00135	0.004516	yes
4930515G01Rik	-0.967815	0	1	1	no

Slc16a9	-0.968429	-2.56248	0.0001	0.000422	yes
Zhx2	-0.968688	-2.41171	5.00E-05	0.00022	yes
Rpph1	-0.968786	-1.46614	0.2502	0.372925	no
Laptm5	-0.9694	-1.85074	0.00115	0.00391	yes
3010001F23Rik	-0.969419	-0.730638	0.149	0.248715	no
Nmnat1	-0.969682	-1.84129	0.00445	0.012807	yes
Tmem254b	-0.969897	0	1	1	no
Slc26a5	-0.969992	0	1	1	no
Mylk4	-0.970351	0	1	1	no
Ndr3	-0.972111	-4.27337	5.00E-05	0.00022	yes
Tenc1	-0.972746	-3.14493	5.00E-05	0.00022	yes
Plxnb2	-0.972994	-3.3653	5.00E-05	0.00022	yes
Oit3	-0.973627	0	1	1	no
Cntnap5a	-0.973951	-2.49162	5.00E-05	0.00022	yes
Atpaf1	-0.974108	-2.49443	5.00E-05	0.00022	yes
Rgs22	-0.974167	0	1	1	no
Lrrc49	-0.974493	-4.45859	5.00E-05	0.00022	yes
C530008M17Rik	-0.975044	-4.12837	5.00E-05	0.00022	yes
Naip2	-0.975125	0	1	1	no
Fbxl21	-0.976052	-1.69544	0.00445	0.012807	yes
Eya1	-0.976774	0	1	1	no
Actn2	-0.977186	0	1	1	no
Timp2	-0.977529	-4.29431	5.00E-05	0.00022	yes
Cenpm	-0.978405	-0.968658	0.0536	0.108121	no
Gm6981	-0.978425	-0.499961	0.38845	0.519722	no
Kit	-0.978447	-4.09922	5.00E-05	0.00022	yes
Hipk4	-0.978928	0	1	1	no
Gpr3	-0.97894	-1.60076	0.00465	0.013316	yes
Ces1a	-0.981338	0	1	1	no
Ado	-0.982988	-3.60007	5.00E-05	0.00022	yes
Echdc2	-0.984286	-1.01133	0.04445	0.09265	no
Nrgn	-0.984322	-1.00949	0.09845	0.177296	no
Il21r	-0.985064	0	1	1	no
Rnf157	-0.985104	-4.73126	5.00E-05	0.00022	yes
Smim4	-0.985242	-2.37083	0.02225	0.051589	no
Arl5b	-0.986953	-2.89384	5.00E-05	0.00022	yes
Adgb	-0.987326	0	1	1	no
Selm	-0.988012	-4.79839	5.00E-05	0.00022	yes
Phldb2	-0.988644	-2.33794	5.00E-05	0.00022	yes
Ccdc102a	-0.989309	-1.86958	0.00175	0.00566	yes
Ankdd1b	-0.989541	0	1	1	no
Myrip	-0.990474	-2.20836	0.0001	0.000422	yes
C1qtnf7	-0.990799	-1.42671	0.00615	0.017052	yes
Ssmem1	-0.991148	0	1	1	no
Adcy2	-0.991241	-3.6442	5.00E-05	0.00022	yes
Agpat3	-0.991445	-4.68205	5.00E-05	0.00022	yes
Hes1	-0.992895	-2.16973	0.00045	0.001682	yes
Sema7a	-0.993159	-4.53759	5.00E-05	0.00022	yes
Phlda1	-0.99319	-2.96842	5.00E-05	0.00022	yes
Glb1l	-0.993653	-1.27537	0.0185	0.044088	yes
Slc11a1	-0.99369	0	1	1	no
Masp1	-0.993753	-1.72957	0.0029	0.008796	yes
Stxbp3b	-0.993906	-1.51732	0.02085	0.048838	yes

Ugt1a6b	-0.994119	0	1	1	no
Kcnj2	-0.994252	-1.97178	0.0004	0.001513	yes
4930568G15Rik	-0.994491	0	1	1	no
Psat1	-0.99482	-3.79398	5.00E-05	0.00022	yes
Bckdhb	-0.995146	-3.02536	5.00E-05	0.00022	yes
Zfp191	-0.995223	-3.75406	5.00E-05	0.00022	yes
Tcf12	-0.995316	-3.28762	5.00E-05	0.00022	yes
Mical2	-0.995633	-2.96307	5.00E-05	0.00022	yes
Adcy9	-0.998737	-4.11159	5.00E-05	0.00022	yes
Palm3	-0.998952	-4.08843	5.00E-05	0.00022	yes
BC035044	-0.999236	0	1	1	no
Pld1	-1.001	-2.26413	5.00E-05	0.00022	yes
Rasal2	-1.00106	-4.14885	5.00E-05	0.00022	yes
Aldh2	-1.00183	-4.7898	5.00E-05	0.00022	yes
4930590J08Rik	-1.00255	0	1	1	no
Tert	-1.0035	0	1	1	no
Tjp2	-1.00358	-2.76667	5.00E-05	0.00022	yes
4932418E24Rik	-1.00415	0	1	1	no
Zfp286	-1.00417	-1.67626	0.00245	0.007605	yes
Dnm3os	-1.00422	0	1	1	no
Tgfb2	-1.00613	-2.49824	5.00E-05	0.00022	yes
Mab21l2	-1.00631	-1.81649	0.0009	0.003139	yes
Fyb	-1.00789	0	1	1	no
Zswim2	-1.00861	0	1	1	no
Hcn1	-1.01043	-4.54863	5.00E-05	0.00022	yes
Casc1	-1.01253	0	1	1	no
Ggt5	-1.01328	-1.74606	0.00165	0.00538	yes
Prr15l	-1.01433	0	1	1	no
Gpr22	-1.01438	-1.22911	0.0286	0.063814	no
Reep3	-1.01531	-3.72022	5.00E-05	0.00022	yes
Klhl41	-1.01552	0	1	1	no
Gcnt4	-1.01598	0	1	1	no
Chst7	-1.01611	0	1	1	no
Abra	-1.01721	0	1	1	no
Gm6938	-1.01731	0	1	1	no
Hlf	-1.01773	-2.46097	5.00E-05	0.00022	yes
Nthl1	-1.01802	-1.3716	0.03	0.066457	no
Tmem198b	-1.01868	-1.93327	0.0002	0.000803	yes
Fam126b	-1.01876	-4.55129	5.00E-05	0.00022	yes
Sord	-1.01885	-3.52847	5.00E-05	0.00022	yes
Naip1	-1.0197	-1.62359	0.0033	0.009856	yes
Gdf11	-1.01974	-2.90498	5.00E-05	0.00022	yes
Kif27	-1.02059	0	1	1	no
Ccr10	-1.02111	0	1	1	no
Krt23	-1.02323	0	1	1	no
Nckap5	-1.02327	0	1	1	no
Figl2	-1.02376	-1.94907	0.00055	0.002016	yes
Scx	-1.02377	-0.734013	0.15195	0.25278	no
Cd80	-1.02397	0	1	1	no
Vegfc	-1.02647	0	1	1	no
Ccdc155	-1.02717	0	1	1	no
Styk1	-1.0272	0	1	1	no
Vav1	-1.02826	0	1	1	no

Hsd11b1	-1.02865	0	1	1	no
Lama5	-1.02947	-2.59318	5.00E-05	0.00022	yes
Ces2e	-1.0306	0	1	1	no
Luzp1	-1.03132	-4.71329	5.00E-05	0.00022	yes
Ctbp2	-1.03203	-2.29532	5.00E-05	0.00022	yes
Nudt7	-1.0338	-2.41968	5.00E-05	0.00022	yes
Rnaset2b	-1.03425	-1.90197	0.00365	0.010754	yes
Rab11fip5	-1.03526	-4.61695	5.00E-05	0.00022	yes
Atp2b2	-1.03564	-4.76626	5.00E-05	0.00022	yes
Rab40b	-1.03738	-1.32362	0.0103	0.026643	yes
Fzd4	-1.03752	-2.43691	5.00E-05	0.00022	yes
Cecr6	-1.03878	0	1	1	no
4930523C07Rik	-1.03896	0	1	1	no
Ar	-1.03956	-2.53554	5.00E-05	0.00022	yes
Acss1	-1.04003	-2.15425	0.0001	0.000422	yes
Dlc1	-1.04133	-4.12559	5.00E-05	0.00022	yes
Itpka	-1.0424	0	1	1	no
AA536875	-1.04245	0	1	1	no
Gm1141	-1.04264	0	1	1	no
Atp2b3	-1.0429	-4.67191	5.00E-05	0.00022	yes
5830416P10Rik	-1.0432	0	1	1	no
Plod1	-1.04335	-3.57811	5.00E-05	0.00022	yes
Lamb2	-1.044	-3.80223	5.00E-05	0.00022	yes
Fam171a1	-1.04459	-4.3889	5.00E-05	0.00022	yes
Inhba	-1.04479	0	1	1	no
Bcl2l12	-1.04503	-0.921022	0.07205	0.138094	no
Myo7a	-1.04552	-3.06503	5.00E-05	0.00022	yes
Bmp6	-1.04651	-1.41492	0.0148	0.036422	yes
Bambi-ps1	-1.04659	0	1	1	no
Slc2a13	-1.04748	-2.66982	5.00E-05	0.00022	yes
Parp14	-1.04765	-2.90226	5.00E-05	0.00022	yes
Atp8a2	-1.04956	-5.04835	5.00E-05	0.00022	yes
1700096K18Rik	-1.04963	-1.15523	0.0546	0.109871	no
D630032N06Rik	-1.05013	0	1	1	no
Gabre	-1.05058	0	1	1	no
Ifitm3	-1.05092	-4.11541	5.00E-05	0.00022	yes
Npnt	-1.05121	-1.26073	0.12045	0.209465	no
Hist1h2bh	-1.05126	0	1	1	no
Ifngr1	-1.0514	-3.54796	5.00E-05	0.00022	yes
Peli2	-1.05171	-3.81483	5.00E-05	0.00022	yes
Kcnk3	-1.05241	-2.87555	5.00E-05	0.00022	yes
Irf4	-1.05307	0	1	1	no
Pde4b	-1.05383	-2.96231	5.00E-05	0.00022	yes
2810403D21Rik	-1.05391	0	1	1	no
Lrrc32	-1.05444	-1.72783	0.0029	0.008796	yes
1700112E06Rik	-1.05462	-1.24139	0.05245	0.106172	no
Cep85l	-1.05552	-2.2659	5.00E-05	0.00022	yes
Begain	-1.05561	-2.08029	0.00045	0.001682	yes
Eps8	-1.05579	-1.94614	0.0003	0.001164	yes
Snn	-1.0558	-4.48784	5.00E-05	0.00022	yes
Pacs1	-1.05596	-3.62305	5.00E-05	0.00022	yes
Vwf	-1.05625	-4.02012	5.00E-05	0.00022	yes
Slc15a3	-1.05709	0	1	1	no

Inpp5j	-1.05748	-4.22208	5.00E-05	0.00022	yes
Bmpr1b	-1.05777	-1.90408	0.00035	0.001342	yes
Hs3st6	-1.05933	-1.29337	0.035	0.075528	no
Fmo2	-1.0606	-2.56802	5.00E-05	0.00022	yes
Gyg	-1.06077	-5.2568	5.00E-05	0.00022	yes
39325	-1.06126	-4.39753	5.00E-05	0.00022	yes
Slc30a8	-1.06157	0	1	1	no
Egr4	-1.0641	0	1	1	no
Rem2	-1.06535	-3.02914	5.00E-05	0.00022	yes
Cd180	-1.06585	0	1	1	no
Rnd3	-1.06589	-3.2747	5.00E-05	0.00022	yes
Manba	-1.06747	-2.32139	5.00E-05	0.00022	yes
Bach1	-1.07163	-3.32276	5.00E-05	0.00022	yes
Neto1	-1.07167	-2.44399	5.00E-05	0.00022	yes
Itfg3	-1.07186	-3.79653	5.00E-05	0.00022	yes
Slc39a14	-1.07222	-3.25007	5.00E-05	0.00022	yes
Tnfrsf21	-1.07228	-5.25606	5.00E-05	0.00022	yes
Wfs1	-1.07321	-4.64195	5.00E-05	0.00022	yes
Ly6d	-1.0744	0	1	1	no
Myliip	-1.07621	-2.48977	5.00E-05	0.00022	yes
Rapgef5	-1.07673	-3.80082	5.00E-05	0.00022	yes
Gas2	-1.07873	-2.78555	5.00E-05	0.00022	yes
Apbb2	-1.08072	-4.53479	5.00E-05	0.00022	yes
3110070M22Rik	-1.08097	0	1	1	no
Slc12a8	-1.08153	0	1	1	no
G630025P09Rik	-1.08164	0	1	1	no
Gdf6	-1.08236	0	1	1	no
Zfp652os	-1.08313	-1.42405	0.08625	0.159259	no
Adcy8	-1.08381	-2.5893	5.00E-05	0.00022	yes
Plxna2	-1.08413	-5.03001	5.00E-05	0.00022	yes
Ncan	-1.08432	-2.98579	5.00E-05	0.00022	yes
Ppm1h	-1.08452	-4.85245	5.00E-05	0.00022	yes
Aldh3a1	-1.08478	0	1	1	no
Hebp2	-1.08536	-4.28678	5.00E-05	0.00022	yes
Rab30	-1.08547	-2.91978	5.00E-05	0.00022	yes
Unc5c	-1.0859	-3.26541	5.00E-05	0.00022	yes
Dsg1a	-1.0863	0	1	1	no
Comp	-1.08638	-2.73329	5.00E-05	0.00022	yes
Rpl3l	-1.08663	0	1	1	no
Rxfp2	-1.08828	0	1	1	no
Cryz	-1.08834	-1.71296	0.00165	0.00538	yes
B230208H11Rik	-1.08838	0	1	1	no
Grpr	-1.08997	0	1	1	no
Bcl9l	-1.09084	-3.00216	5.00E-05	0.00022	yes
Opcml	-1.09088	-4.89303	5.00E-05	0.00022	yes
Kif1c	-1.09172	-3.75745	5.00E-05	0.00022	yes
Zyx	-1.09175	-4.26406	5.00E-05	0.00022	yes
Dennd5b	-1.09287	-3.86383	5.00E-05	0.00022	yes
Rgs9	-1.09445	-2.85299	5.00E-05	0.00022	yes
Spdya	-1.09493	0	1	1	no
Kifc3	-1.09514	-2.17705	0.00015	0.000615	yes
Fndc1	-1.09588	-2.34619	0.0001	0.000422	yes
Plcb4	-1.09601	-3.95882	5.00E-05	0.00022	yes

Foxj1	-1.09656	-3.23567	5.00E-05	0.00022	yes
Nfkb1	-1.09671	-3.51012	5.00E-05	0.00022	yes
A330009N23Rik	-1.09727	0	1	1	no
Cnih3	-1.09748	-1.6967	0.0014	0.004657	yes
Ptrf	-1.09755	-4.59013	5.00E-05	0.00022	yes
6430548M08Rik	-1.09795	-5.0573	5.00E-05	0.00022	yes
Psmc3ip	-1.09814	-0.478842	0.41055	0.542399	no
AA986860	-1.09831	-1.89462	0.00125	0.00422	yes
Tmem38b	-1.09896	-2.34612	5.00E-05	0.00022	yes
Gm4461	-1.09898	0	1	1	no
Spry1	-1.09904	-1.6523	0.0045	0.012942	yes
Col6a5	-1.09961	0	1	1	no
Dlg3	-1.09984	-2.0122	0.00035	0.001342	yes
Gm16062	-1.09985	-0.542017	0.46225	0.591842	no
Npb	-1.1002	0	1	1	no
1810062O18Rik	-1.1003	0	1	1	no
2610316D01Rik	-1.10272	-1.41421	0.0348	0.075182	no
Il11ra1	-1.10404	-2.17528	0.00075	0.00267	yes
Csdc2	-1.10448	-4.73871	5.00E-05	0.00022	yes
Agl	-1.10531	-5.1506	5.00E-05	0.00022	yes
Tjp1	-1.10535	-4.37714	5.00E-05	0.00022	yes
Rab26	-1.10608	0	1	1	no
D430036J16Rik	-1.1066	-0.971256	0.14035	0.23711	no
Tax1bp3	-1.10687	-2.00428	0.00165	0.00538	yes
Slc6a12	-1.10719	0	1	1	no
Cadps2	-1.10737	-3.98195	5.00E-05	0.00022	yes
Csmd2	-1.11017	-3.4321	5.00E-05	0.00022	yes
Tmprss2	-1.1121	0	1	1	no
Gm16740	-1.11212	0	1	1	no
Vgll4	-1.11243	-2.85777	5.00E-05	0.00022	yes
1700086L19Rik	-1.11294	-1.76683	0.00085	0.002983	yes
C77370	-1.11306	0	1	1	no
Shisa4	-1.11307	-4.61481	5.00E-05	0.00022	yes
Dennd1a	-1.11355	-2.85913	5.00E-05	0.00022	yes
4930513N10Rik	-1.11444	0	1	1	no
Gprc5c	-1.11463	-3.15497	5.00E-05	0.00022	yes
Mmp11	-1.11478	-1.41351	0.01555	0.037972	yes
Slc35b2	-1.11507	-3.56933	5.00E-05	0.00022	yes
Plekhd1os	-1.11515	0	1	1	no
Tpbg	-1.11515	0	1	1	no
Hmgn1	-1.11522	-3.68271	5.00E-05	0.00022	yes
Nptn	-1.1154	-5.73242	5.00E-05	0.00022	yes
Wtip	-1.11608	-2.08443	0.00045	0.001682	yes
Arhgap30	-1.11809	0	1	1	no
Rtp1	-1.1186	0	1	1	no
Nln	-1.11915	-2.68743	5.00E-05	0.00022	yes
1700008J07Rik	-1.11939	0	1	1	no
Crtac1	-1.12045	-3.91357	5.00E-05	0.00022	yes
Spink10	-1.12118	-1.17996	0.0228	0.052607	no
Oprd1	-1.12128	-2.99107	5.00E-05	0.00022	yes
Cdk17	-1.12286	-3.69874	5.00E-05	0.00022	yes
Bend7	-1.12295	-1.66941	0.00225	0.007062	yes
Abo	-1.1233	0	1	1	no

Zfp365	-1.12337	-4.90187	5.00E-05	0.00022	yes
Stx17	-1.12362	-3.27247	5.00E-05	0.00022	yes
R3hcc1	-1.12399	-3.33975	5.00E-05	0.00022	yes
Casc4	-1.12513	-4.48355	5.00E-05	0.00022	yes
Hcn2	-1.12621	-0.7672	0.12405	0.214489	no
Zfp456	-1.12641	0	1	1	no
Nyap2	-1.12719	-2.24154	5.00E-05	0.00022	yes
Slc4a4	-1.12736	-4.96058	5.00E-05	0.00022	yes
Casr	-1.12838	0	1	1	no
Pck1	-1.12912	0	1	1	no
Cd276	-1.13	-2.07402	0.0003	0.001164	yes
Kcnn4	-1.13035	-2.53187	5.00E-05	0.00022	yes
Cys1	-1.13046	-1.30777	0.01105	0.02829	yes
Fuom	-1.13052	-1.78763	0.00045	0.001682	yes
Slc16a13	-1.13254	-1.51549	0.0092	0.024131	yes
Rps6ka1	-1.13276	-2.601	5.00E-05	0.00022	yes
Asb13	-1.13402	-4.22888	5.00E-05	0.00022	yes
Myl6b	-1.13416	-2.62194	0.00015	0.000615	yes
B3gnt9	-1.13428	-0.708443	0.15575	0.25768	no
Col5a3	-1.1351	-4.51316	5.00E-05	0.00022	yes
Nefl	-1.13572	-3.51226	5.00E-05	0.00022	yes
Cyp2f2	-1.13842	0	1	1	no
Has1	-1.13937	0	1	1	no
Nlrp4f	-1.14202	0	1	1	no
Kitl	-1.14461	-4.9915	5.00E-05	0.00022	yes
Map1b	-1.14521	-3.27655	5.00E-05	0.00022	yes
Spred1	-1.14667	-4.77829	5.00E-05	0.00022	yes
Bzrap1	-1.14726	-3.15192	5.00E-05	0.00022	yes
Simc1	-1.14794	-1.04014	0.05465	0.109955	no
Oprl1	-1.14846	-3.22496	5.00E-05	0.00022	yes
Ablim2	-1.14867	-3.87603	5.00E-05	0.00022	yes
Leprel2	-1.14896	-2.19064	0.00025	0.000985	yes
Adck3	-1.14902	-1.19445	0.02565	0.058101	no
Ccdc37	-1.14929	-2.12281	0.00075	0.00267	yes
D830031N03Rik	-1.15008	-0.932229	0.0802	0.15054	no
Fgfr1	-1.15142	-1.72115	0.002	0.006363	yes
6330409D20Rik	-1.15163	-0.843806	0.1071	0.189832	no
Otud7b	-1.15179	-4.74077	5.00E-05	0.00022	yes
Pilrb1	-1.15227	0	1	1	no
Trim66	-1.15425	-2.14405	5.00E-05	0.00022	yes
Zfp493	-1.15444	0	1	1	no
Dnaaf3	-1.15455	0	1	1	no
Reck	-1.15457	-2.67656	5.00E-05	0.00022	yes
Rwdd2a	-1.15492	-1.65881	0.0017	0.005514	yes
Slc1a5	-1.15558	-3.8062	5.00E-05	0.00022	yes
Ryk	-1.15585	-3.14846	5.00E-05	0.00022	yes
Nfib	-1.15597	-4.62501	5.00E-05	0.00022	yes
Rnf165	-1.15658	-2.3054	5.00E-05	0.00022	yes
Hsd17b11	-1.15746	-5.32161	5.00E-05	0.00022	yes
Rara	-1.15783	-1.989	0.00025	0.000985	yes
Echdc3	-1.15882	0	1	1	no
Klhl4	-1.15983	0	1	1	no
Clybl	-1.16147	-2.98531	5.00E-05	0.00022	yes

Dnmt3b	-1.16365	0	1	1	no
Zak	-1.16526	-3.93079	5.00E-05	0.00022	yes
Dmkn	-1.16531	0	1	1	no
Ddah2	-1.166	-2.9609	5.00E-05	0.00022	yes
Aldh1a3	-1.16619	-1.60187	0.0052	0.014691	yes
Alpk3	-1.16762	0	1	1	no
Limd1	-1.16879	-3.48182	5.00E-05	0.00022	yes
Tbx18	-1.16887	0	1	1	no
Adcy3	-1.1689	-2.85741	5.00E-05	0.00022	yes
Map10	-1.16927	-1.55302	0.00685	0.018707	yes
F5	-1.16931	0	1	1	no
Hhipl2	-1.16939	0	1	1	no
Catip	-1.1697	0	1	1	no
Serpinb6c	-1.16974	0	1	1	no
4833419F23Rik	-1.16981	0	1	1	no
Gm8898	-1.17039	0	1	1	no
Cyp1b1	-1.17066	-3.75417	5.00E-05	0.00022	yes
Muc15	-1.17129	0	1	1	no
Cc2d2a	-1.17237	-2.79639	5.00E-05	0.00022	yes
Soga1	-1.17314	-4.47166	5.00E-05	0.00022	yes
Aplnr	-1.17332	-1.95262	0.0005	0.00185	yes
Oat	-1.17369	-5.3386	5.00E-05	0.00022	yes
Fbxo27	-1.1751	-1.95187	0.00015	0.000615	yes
Cables1	-1.17542	-1.95126	0.00025	0.000985	yes
Myom1	-1.17542	0	1	1	no
Ybx2	-1.17566	0	1	1	no
Tubb6	-1.17626	-2.16759	0.0005	0.00185	yes
Cd96	-1.17713	-1.33519	0.02245	0.051907	no
Pkd1l3	-1.17722	0	1	1	no
Extl2	-1.17814	-4.82193	5.00E-05	0.00022	yes
Dexi	-1.17845	-4.45574	5.00E-05	0.00022	yes
Tnfrsf8	-1.17888	0	1	1	no
Pcdh19	-1.179	-2.56542	5.00E-05	0.00022	yes
Nhsl1	-1.18095	-2.81301	5.00E-05	0.00022	yes
Trabd2b	-1.18152	0	1	1	no
Fgf1	-1.18333	-5.44299	5.00E-05	0.00022	yes
Fam213b	-1.1841	-4.62344	5.00E-05	0.00022	yes
Atp1b1	-1.18449	-4.58673	5.00E-05	0.00022	yes
Secisbp2l	-1.18494	-5.60801	5.00E-05	0.00022	yes
Asah2	-1.18652	-4.25204	5.00E-05	0.00022	yes
1700009P17Rik	-1.18685	-1.22446	0.062	0.121986	no
Ifi204	-1.18709	0	1	1	no
Dgat2	-1.18739	-3.1192	5.00E-05	0.00022	yes
Lin7b	-1.18924	-1.07146	0.04675	0.096685	no
Toporsos	-1.1898	-0.535185	0.2858	0.412008	no
Resp18	-1.19101	-5.90012	5.00E-05	0.00022	yes
Rab13	-1.19116	-1.95955	0.00275	0.008412	yes
Krt1	-1.19116	0	1	1	no
Col16a1	-1.19141	-3.54944	5.00E-05	0.00022	yes
Gm6787	-1.19155	0	1	1	no
Cables2	-1.19293	-3.79555	5.00E-05	0.00022	yes
Gm14403	-1.19338	-2.10234	0.0003	0.001164	yes
Sh3rf1	-1.1942	-2.84596	5.00E-05	0.00022	yes

2310065F04Rik	-1.19526	0	1	1	no
Ppard	-1.19613	-2.75702	5.00E-05	0.00022	yes
Gm19705	-1.19654	-0.687654	0.26985	0.394719	no
Arhgef37	-1.19734	-1.96523	0.00055	0.002016	yes
4933412E12Rik	-1.1975	-1.05034	0.03225	0.070569	no
2610037D02Rik	-1.19798	0	1	1	no
Fbxo2	-1.19833	-6.4736	5.00E-05	0.00022	yes
Zfp114	-1.19859	0	1	1	no
Scarb1	-1.19898	-3.30782	5.00E-05	0.00022	yes
Tmprss9	-1.19903	0	1	1	no
Adam21	-1.19956	0	1	1	no
Ly9	-1.20101	0	1	1	no
Aox3	-1.20188	0	1	1	no
Mansc1	-1.20193	-2.77442	5.00E-05	0.00022	yes
BC021767	-1.20228	0	1	1	no
Fbll1	-1.20286	-2.02213	0.0016	0.005236	yes
Megf6	-1.2034	0	1	1	no
Mpp2	-1.20348	-3.72343	5.00E-05	0.00022	yes
Nrsn2	-1.20477	-1.9873	0.00055	0.002016	yes
Aldoc	-1.20482	-5.85269	5.00E-05	0.00022	yes
Tmem121	-1.20529	-2.02919	0.0012	0.004068	yes
Tlr6	-1.20587	0	1	1	no
4930556M19Rik	-1.20604	0	1	1	no
Zfp773	-1.20662	0	1	1	no
Socs3	-1.20963	-4.90642	5.00E-05	0.00022	yes
Slc38a1	-1.20988	-4.98198	5.00E-05	0.00022	yes
2610100L16Rik	-1.21012	0	1	1	no
BC033916	-1.21075	0	1	1	no
Plcb1	-1.21181	-4.41591	5.00E-05	0.00022	yes
Prickle1	-1.21336	-2.51932	5.00E-05	0.00022	yes
Gm6498	-1.21394	0	1	1	no
Plxdc1	-1.21441	-1.96085	0.00035	0.001342	yes
Bmp4	-1.21508	-1.19302	0.0223	0.05166	no
1810062G17Rik	-1.21593	0	1	1	no
Grm5	-1.21705	0	1	1	no
Tigd4	-1.21908	0	1	1	no
Sqrdl	-1.21983	-1.8482	0.00055	0.002016	yes
Eli2	-1.22023	-4.1425	5.00E-05	0.00022	yes
Gsto2	-1.22078	0	1	1	no
Sost	-1.2209	0	1	1	no
Ntn5	-1.22127	-1.26296	0.02245	0.051907	no
Nav2	-1.22218	-3.2414	5.00E-05	0.00022	yes
Higd1b	-1.22357	0	1	1	no
Cobll1	-1.22398	-3.08335	5.00E-05	0.00022	yes
Npffr2	-1.22709	0	1	1	no
6030498E09Rik	-1.22827	0	1	1	no
Dock5	-1.2287	-5.27658	5.00E-05	0.00022	yes
Rbm20	-1.22949	0	1	1	no
Ms4a4d	-1.22962	0	1	1	no
Zfhx2os	-1.22992	0	1	1	no
Slc4a10	-1.23002	-2.46196	5.00E-05	0.00022	yes
Ltb4r1	-1.23018	0	1	1	no
Lmo4	-1.2311	-3.72692	5.00E-05	0.00022	yes

Dcun1d4	-1.2313	-4.75983	5.00E-05	0.00022	yes
Pycard	-1.23246	0	1	1	no
LOC100861978	-1.23317	0	1	1	no
Stk32c	-1.23396	-4.23669	5.00E-05	0.00022	yes
Pcgf5	-1.23452	-1.74914	0.0055	0.015427	yes
Gbp11	-1.23472	0	1	1	no
Slc6a17	-1.23562	-5.88915	5.00E-05	0.00022	yes
Spsb1	-1.23692	-4.09633	5.00E-05	0.00022	yes
Zfp467	-1.23957	-1.81919	0.00065	0.002343	yes
Nr3c2	-1.23967	-3.42027	5.00E-05	0.00022	yes
Marcksl1	-1.2403	-3.29699	5.00E-05	0.00022	yes
Btbd11	-1.24065	-3.16727	5.00E-05	0.00022	yes
Mdk	-1.241	-1.14566	0.03245	0.070925	no
Prox2	-1.24115	0	1	1	no
Crispld1	-1.24205	-2.66429	5.00E-05	0.00022	yes
Slco3a1	-1.24362	-4.29672	5.00E-05	0.00022	yes
Ngfr	-1.24491	-5.91558	5.00E-05	0.00022	yes
Cd1d1	-1.24513	-1.82875	0.0026	0.008011	yes
Sik2	-1.24519	-1.70386	0.00155	0.005095	yes
Cdh13	-1.24567	-2.51349	0.0001	0.000422	yes
Gstt1	-1.24719	-3.06392	5.00E-05	0.00022	yes
Ttc23	-1.24773	-1.75071	0.0009	0.003139	yes
Abcg2	-1.24774	-5.37155	5.00E-05	0.00022	yes
Tnni2	-1.24811	0	1	1	no
Slc9a1	-1.24876	-4.81055	5.00E-05	0.00022	yes
Gli1	-1.2499	0	1	1	no
Cnr1	-1.25155	-4.81302	5.00E-05	0.00022	yes
Eda2r	-1.25351	0	1	1	no
Tlcd1	-1.25432	-2.28495	5.00E-05	0.00022	yes
Pik3cg	-1.25488	0	1	1	no
4930539E08Rik	-1.25516	0	1	1	no
4930579F01Rik	-1.25546	0	1	1	no
Gnai1	-1.25582	-5.94145	5.00E-05	0.00022	yes
Stc2	-1.25602	0	1	1	no
Hoxb7	-1.25609	-2.51825	0.0002	0.000803	yes
Fam83e	-1.25643	0	1	1	no
Adamts13	-1.25684	0	1	1	no
Cndp1	-1.25723	0	1	1	no
Maob	-1.25766	-1.82326	0.0028	0.008532	yes
Nos1ap	-1.26087	-2.29114	5.00E-05	0.00022	yes
1700007B14Rik	-1.26329	0	1	1	no
Angptl2	-1.26342	-2.30745	0.0001	0.000422	yes
Ephb2	-1.26361	-2.15371	0.0003	0.001164	yes
Map7d2	-1.26487	-6.05093	5.00E-05	0.00022	yes
Mettl9	-1.26541	-3.63989	5.00E-05	0.00022	yes
Gm10789	-1.26719	0	1	1	no
Nf1	-1.2677	-5.69803	5.00E-05	0.00022	yes
Evi2b	-1.26813	0	1	1	no
Rbp2	-1.26864	-1.79814	0.01775	0.042546	yes
Pde4a	-1.26925	-2.43403	5.00E-05	0.00022	yes
2410131K14Rik	-1.26975	-3.3953	5.00E-05	0.00022	yes
Edaradd	-1.27037	0	1	1	no
Kcnrg	-1.27062	0	1	1	no

Bfsp2	-1.27188	0	1	1	no
Gem	-1.27357	-1.71214	0.00405	0.011765	yes
Fbxo44	-1.27386	-4.40954	5.00E-05	0.00022	yes
Adamtsl4	-1.27401	-2.54184	5.00E-05	0.00022	yes
Greb1l	-1.27538	-2.70912	5.00E-05	0.00022	yes
Pkdcc	-1.27538	-2.5851	0.00015	0.000615	yes
Nr4a2	-1.27588	-2.6402	5.00E-05	0.00022	yes
Trp53i11	-1.27735	-2.16732	0.0002	0.000803	yes
Plat	-1.27839	-3.3065	5.00E-05	0.00022	yes
Kcnq5	-1.27867	-4.2969	5.00E-05	0.00022	yes
2310005G13Rik	-1.27904	0	1	1	no
Gm20063	-1.27909	0	1	1	no
E330009J07Rik	-1.28131	-1.95166	0.00155	0.005095	yes
Prickle2	-1.28165	-4.85654	5.00E-05	0.00022	yes
Tgif1	-1.28166	-1.4537	0.00265	0.008146	yes
Abi3bp	-1.28304	-2.5787	5.00E-05	0.00022	yes
Pros1	-1.28352	-3.43136	5.00E-05	0.00022	yes
Gm4890	-1.28386	0	1	1	no
Slc20a2	-1.2845	-2.82483	5.00E-05	0.00022	yes
Cyp27a1	-1.2845	-1.32767	0.026	0.058814	no
Fam189a1	-1.28698	-1.65745	0.00315	0.009455	yes
Htr3b	-1.28751	-3.90901	5.00E-05	0.00022	yes
Nkain2	-1.28758	-3.85731	5.00E-05	0.00022	yes
Ermp1	-1.288	-6.10541	5.00E-05	0.00022	yes
Mtfp1	-1.28843	-3.17399	5.00E-05	0.00022	yes
Mpzl1	-1.2892	-3.74198	5.00E-05	0.00022	yes
Cfh	-1.29151	-4.20404	5.00E-05	0.00022	yes
Slc35d2	-1.29309	-1.90912	0.00185	0.005939	yes
Gabra4	-1.29318	0	1	1	no
Golim4	-1.29357	-4.97203	5.00E-05	0.00022	yes
Aifm2	-1.29372	-1.48839	0.01105	0.02829	yes
Pou4f3	-1.29449	-2.85996	0.00015	0.000615	yes
Susd1	-1.29458	-1.86902	0.00155	0.005095	yes
Henmt1	-1.29492	0	1	1	no
Elmo1	-1.2953	-5.28685	5.00E-05	0.00022	yes
Acsl6	-1.29538	-5.37429	5.00E-05	0.00022	yes
Lurap1	-1.29689	-2.64051	5.00E-05	0.00022	yes
Rel2	-1.29781	-5.31883	5.00E-05	0.00022	yes
Nod1	-1.29812	-3.13247	5.00E-05	0.00022	yes
Tiam1	-1.30158	-2.86546	5.00E-05	0.00022	yes
Espnl	-1.30167	0	1	1	no
6430710C18Rik	-1.30246	0	1	1	no
Laptm4b	-1.30265	-5.91585	5.00E-05	0.00022	yes
Ttc34	-1.30328	0	1	1	no
Ceacam1	-1.30366	-1.41042	0.03345	0.07268	no
Sifn8	-1.30367	0	1	1	no
Gm2a	-1.30436	-4.53948	5.00E-05	0.00022	yes
Gbp2	-1.30466	-2.55924	5.00E-05	0.00022	yes
Gas6	-1.30523	-6.26568	5.00E-05	0.00022	yes
C1qtnf2	-1.30584	-1.7554	0.00755	0.020384	yes
1700047M11Rik	-1.30585	0	1	1	no
Lrrk2	-1.30673	-5.25316	5.00E-05	0.00022	yes
Mx1	-1.30682	0	1	1	no

Gm12504	-1.30687	0	1	1	no
Cttnbp2nl	-1.30727	-4.66876	5.00E-05	0.00022	yes
Yes1	-1.30742	-3.41393	5.00E-05	0.00022	yes
Kazn	-1.3076	-4.46586	5.00E-05	0.00022	yes
AW549542	-1.30938	0	1	1	no
Cpt1a	-1.3102	-6.18922	5.00E-05	0.00022	yes
Mum1l1	-1.31138	-1.61017	0.00115	0.00391	yes
Pik3c2b	-1.31148	-2.8105	5.00E-05	0.00022	yes
Fndc3b	-1.31223	-3.98335	5.00E-05	0.00022	yes
Tmc7	-1.31232	-3.95617	5.00E-05	0.00022	yes
Tdrd5	-1.31267	0	1	1	no
Itga6	-1.3128	-5.40734	5.00E-05	0.00022	yes
36769	-1.31356	-3.95979	5.00E-05	0.00022	yes
Slc24a3	-1.31501	-4.12241	5.00E-05	0.00022	yes
Zic2	-1.3155	-1.69984	0.00425	0.01229	yes
Scd3	-1.31579	0	1	1	no
Pyroxd2	-1.31615	0	1	1	no
Lipk	-1.31685	-1.29642	0.0159	0.038763	yes
Ephb4	-1.31752	-2.8534	5.00E-05	0.00022	yes
Cd27	-1.31809	0	1	1	no
Plekhh2	-1.31855	0	1	1	no
Foxs1	-1.32131	0	1	1	no
Slc29a2	-1.32188	-2.59813	5.00E-05	0.00022	yes
Mtap	-1.32438	-4.05675	5.00E-05	0.00022	yes
Hrk	-1.32505	0	1	1	no
A230009B12Rik	-1.32508	0	1	1	no
Pkp1	-1.32591	0	1	1	no
Robo3	-1.32798	0	1	1	no
Zdbf2	-1.32937	0	1	1	no
Ggnbp1	-1.32946	-0.571678	0.2542	0.376897	no
Fbxo15	-1.33037	0	1	1	no
Ppap2a	-1.33102	-3.72245	5.00E-05	0.00022	yes
Stk10	-1.33112	-2.88933	5.00E-05	0.00022	yes
Gm11762	-1.33207	0	1	1	no
Htr1b	-1.33272	-1.91985	0.0007	0.002506	yes
Srd5a2	-1.33431	-1.76051	0.01235	0.031108	yes
Tcirg1	-1.33555	-2.53144	5.00E-05	0.00022	yes
Hoxd1	-1.33596	-4.22325	5.00E-05	0.00022	yes
Plekhg1	-1.3362	-4.51833	5.00E-05	0.00022	yes
Ccdc69	-1.33753	0	1	1	no
Ccl3	-1.33823	0	1	1	no
Aatk	-1.33843	-5.99598	5.00E-05	0.00022	yes
Adamts18	-1.33878	0	1	1	no
Ccdc24	-1.33885	0	1	1	no
Tgfa	-1.33938	-3.32132	5.00E-05	0.00022	yes
Calcoco2	-1.33954	0	1	1	no
Epha4	-1.33985	-2.77774	5.00E-05	0.00022	yes
Dtx4	-1.34003	-4.03848	5.00E-05	0.00022	yes
Smpd3	-1.34004	-4.99751	5.00E-05	0.00022	yes
Csrnp1	-1.3418	-3.12811	5.00E-05	0.00022	yes
Cilp2	-1.3419	0	1	1	no
Gpr123	-1.3422	-2.51579	0.0001	0.000422	yes
4931406C07Rik	-1.34244	-2.79258	5.00E-05	0.00022	yes

Ifitm10	-1.34367	-2.01028	0.0008	0.002828	yes
Dact1	-1.34402	-2.78522	5.00E-05	0.00022	yes
Magix	-1.34427	-1.4864	0.0068	0.018594	yes
Phyhip	-1.34507	-2.55647	5.00E-05	0.00022	yes
Gal3st3	-1.34756	-1.98931	0.00115	0.00391	yes
Ckmt1	-1.34774	-6.14327	5.00E-05	0.00022	yes
Txnip	-1.34852	-5.25493	5.00E-05	0.00022	yes
Sall2	-1.35157	-4.30385	5.00E-05	0.00022	yes
4931408D14Rik	-1.3523	0	1	1	no
Slc25a34	-1.35276	0	1	1	no
Gm9899	-1.35317	0	1	1	no
Cers1	-1.35337	0	1	1	no
Cd226	-1.3549	0	1	1	no
Nos1	-1.35598	-2.79812	5.00E-05	0.00022	yes
Gm14169	-1.35621	0	1	1	no
Ripply2	-1.35694	0	1	1	no
Hykk	-1.35738	-2.33715	0.0001	0.000422	yes
Ikbip	-1.3585	-2.67884	5.00E-05	0.00022	yes
9330117012Rik	-1.36042	0	1	1	no
Trim12a	-1.36105	-1.37915	0.01095	0.028083	yes
Tbx3os2	-1.36106	-2.20926	0.00085	0.002983	yes
P2rx5	-1.36191	-3.14421	5.00E-05	0.00022	yes
Gm14379	-1.36304	0	1	1	no
Pcdh17	-1.36346	-4.87234	5.00E-05	0.00022	yes
Zfp36	-1.36378	-5.5476	5.00E-05	0.00022	yes
Psph	-1.36433	-3.25716	5.00E-05	0.00022	yes
Msi1	-1.36452	-2.4103	0.0002	0.000803	yes
Msln	-1.3649	0	1	1	no
Tcf23	-1.36555	0	1	1	no
Rassf10	-1.36618	-1.86953	0.0015	0.004953	yes
Ctns	-1.36703	-4.35095	5.00E-05	0.00022	yes
Cttnbp2	-1.368	-3.16781	5.00E-05	0.00022	yes
Hspa1l	-1.36936	0	1	1	no
Wscd2	-1.36937	-2.18432	0.0002	0.000803	yes
Glr3	-1.37087	-6.17675	5.00E-05	0.00022	yes
Plin1	-1.37223	0	1	1	no
Gipc3	-1.37238	0	1	1	no
Fam13a	-1.37272	-4.14813	5.00E-05	0.00022	yes
Ccnd2	-1.37324	-3.39617	5.00E-05	0.00022	yes
Airn	-1.37384	-0.971308	0.1796	0.288994	no
Ptprd	-1.37457	-4.711	5.00E-05	0.00022	yes
Crim1	-1.37482	-2.63751	5.00E-05	0.00022	yes
Klrg2	-1.37542	-1.9058	0.0026	0.008011	yes
Slc4a2	-1.37609	-5.46179	5.00E-05	0.00022	yes
Gdnf	-1.37611	0	1	1	no
Jam2	-1.37617	-5.40464	5.00E-05	0.00022	yes
Adamts1	-1.37681	-3.97195	5.00E-05	0.00022	yes
Exd1	-1.37719	0	1	1	no
Ksr1	-1.3772	-3.51539	5.00E-05	0.00022	yes
Rest	-1.37926	-2.39825	5.00E-05	0.00022	yes
4921508D12Rik	-1.37961	0	1	1	no
Pwwp2b	-1.38033	-2.79993	5.00E-05	0.00022	yes
Kcna10	-1.38086	0	1	1	no

Csad	-1.38231	-3.29307	5.00E-05	0.00022	yes
Magee2	-1.38254	-2.43884	5.00E-05	0.00022	yes
Cit	-1.3828	-3.32383	5.00E-05	0.00022	yes
Cntnap2	-1.38346	-5.8988	5.00E-05	0.00022	yes
Igfn1	-1.3839	0	1	1	no
Atp11a	-1.38425	-6.14065	5.00E-05	0.00022	yes
Rapgef3	-1.38607	-2.25812	0.0001	0.000422	yes
Hc	-1.38613	0	1	1	no
Atp8b1	-1.38667	0	1	1	no
Rnd2	-1.38674	-4.40783	5.00E-05	0.00022	yes
Gpr1	-1.38722	0	1	1	no
Zfp536	-1.38771	-3.17904	5.00E-05	0.00022	yes
Cdkn2c	-1.38815	-1.97403	0.00375	0.011009	yes
Il1rap	-1.38825	-2.85749	5.00E-05	0.00022	yes
Fam184b	-1.3884	-2.38246	5.00E-05	0.00022	yes
Il12rb1	-1.38844	0	1	1	no
Lrp1	-1.38893	-6.22722	5.00E-05	0.00022	yes
Cd81	-1.38961	-5.76913	5.00E-05	0.00022	yes
Slc44a5	-1.38962	0	1	1	no
Zfp599	-1.38987	0	1	1	no
Chchd10	-1.3914	-6.02503	5.00E-05	0.00022	yes
Ccdc157	-1.39177	-3.62795	5.00E-05	0.00022	yes
Megf9	-1.39239	-6.1549	5.00E-05	0.00022	yes
Cryba4	-1.39273	0	1	1	no
Celsr2	-1.39333	-5.48253	5.00E-05	0.00022	yes
Dmbx1	-1.39357	0	1	1	no
Fzd9	-1.39357	0	1	1	no
Tdrd1	-1.39397	0	1	1	no
Tmem71	-1.39405	0	1	1	no
Kcnd2	-1.39408	-2.05212	0.0004	0.001513	yes
Dlx4	-1.39501	0	1	1	no
Nmbr	-1.39596	0	1	1	no
Tmem56	-1.39597	-6.42393	5.00E-05	0.00022	yes
C2cd4c	-1.397	-3.00847	5.00E-05	0.00022	yes
Sox13	-1.3976	-2.90027	5.00E-05	0.00022	yes
Cdkl4	-1.39997	-1.93125	0.00145	0.004804	yes
Ache	-1.40041	-5.8134	5.00E-05	0.00022	yes
Ctso	-1.40054	-3.53002	5.00E-05	0.00022	yes
Sulf1	-1.40056	-4.56874	5.00E-05	0.00022	yes
C130030K03Rik	-1.40057	0	1	1	no
Iqub	-1.40252	0	1	1	no
Myh3	-1.40267	0	1	1	no
9030025P20Rik	-1.40322	0	1	1	no
Fam65c	-1.40366	0	1	1	no
Sema4g	-1.40382	-3.10275	5.00E-05	0.00022	yes
5031414D18Rik	-1.404	0	1	1	no
Igsf6	-1.40405	0	1	1	no
BC064078	-1.40556	-1.27008	0.07205	0.138094	no
Elf3	-1.40595	0	1	1	no
Abcb1b	-1.40631	0	1	1	no
Itgae	-1.40705	0	1	1	no
Mtmr10	-1.40717	-3.69698	5.00E-05	0.00022	yes
Espn	-1.40735	0	1	1	no

Vat1l	-1.40765	-6.67849	5.00E-05	0.00022	yes
Gm4951	-1.40856	0	1	1	no
Scnn1a	-1.40945	0	1	1	no
Soat1	-1.41017	-4.60299	5.00E-05	0.00022	yes
B930018H19Rik	-1.4108	0	1	1	no
Sphk1	-1.41159	-2.02702	5.00E-05	0.00022	yes
Adamts2	-1.41182	-3.50371	5.00E-05	0.00022	yes
Hgf	-1.41261	-2.58493	5.00E-05	0.00022	yes
Vash2	-1.41278	-2.08782	0.0003	0.001164	yes
Entpd1	-1.41322	-3.93382	5.00E-05	0.00022	yes
B130024G19Rik	-1.41327	0	1	1	no
Rimk1a	-1.41408	-6.63101	5.00E-05	0.00022	yes
E230025N22Rik	-1.41444	0	1	1	no
Btbd17	-1.41507	0	1	1	no
Ntrk3	-1.4151	-5.3885	5.00E-05	0.00022	yes
Akr1c19	-1.4155	0	1	1	no
Dpyd	-1.41613	-3.66204	5.00E-05	0.00022	yes
2010300C02Rik	-1.41619	-2.09661	0.00045	0.001682	yes
Fam57b	-1.41664	-6.35517	5.00E-05	0.00022	yes
Myo1f	-1.41723	0	1	1	no
Dydc2	-1.41818	-1.59816	0.04955	0.101369	no
Fam20a	-1.41962	-2.82486	5.00E-05	0.00022	yes
Sec24d	-1.42029	-3.82615	5.00E-05	0.00022	yes
Cfb	-1.42051	0	1	1	no
Nkx6-2	-1.42193	0	1	1	no
Gm16023	-1.42376	0	1	1	no
6030419C18Rik	-1.42399	-6.59245	5.00E-05	0.00022	yes
Fosb	-1.42402	-5.47134	5.00E-05	0.00022	yes
Psmb11	-1.42404	0	1	1	no
Cd164	-1.42433	-7.08348	5.00E-05	0.00022	yes
Cd79b	-1.42489	-1.29253	0.0447	0.093142	no
Tmie	-1.42625	0	1	1	no
B3galt1	-1.42635	-5.53981	5.00E-05	0.00022	yes
Cldn14	-1.42661	0	1	1	no
Srl	-1.42676	-3.0391	5.00E-05	0.00022	yes
Lpin3	-1.4274	0	1	1	no
Lrig1	-1.42761	-2.65854	5.00E-05	0.00022	yes
Cyp26a1	-1.4277	0	1	1	no
Gm2762	-1.42775	0	1	1	no
G730013B05Rik	-1.42801	0	1	1	no
Sdc2	-1.4286	-4.70262	5.00E-05	0.00022	yes
Chd7	-1.42865	-2.79509	5.00E-05	0.00022	yes
Itgam	-1.42878	0	1	1	no
Adssl1	-1.42904	-1.64385	0.00895	0.023578	yes
Ly6h	-1.43031	-3.76345	5.00E-05	0.00022	yes
Nab2	-1.43059	-1.11448	0.05385	0.108559	no
Iqcd	-1.43319	0	1	1	no
AW011738	-1.4332	-2.01011	0.00115	0.00391	yes
Hydin	-1.43381	0	1	1	no
Faah	-1.43406	-4.11845	5.00E-05	0.00022	yes
Cilp	-1.43524	-2.30978	0.0001	0.000422	yes
Clec1b	-1.43719	0	1	1	no
Gm2897	-1.43748	0	1	1	no

Col6a2	-1.43802	-4.39131	5.00E-05	0.00022	yes
Scrt1	-1.44011	-6.2043	5.00E-05	0.00022	yes
Gm5535	-1.44048	0	1	1	no
Esrra	-1.4405	-4.53934	5.00E-05	0.00022	yes
A930017M01Rik	-1.4416	-1.9077	0.0025	0.007739	yes
Clvs2	-1.44368	-3.16377	5.00E-05	0.00022	yes
Ppp1r3a	-1.44593	0	1	1	no
Map2k6	-1.44596	-2.90752	5.00E-05	0.00022	yes
Ifitm2	-1.44722	-4.33484	5.00E-05	0.00022	yes
Cebpd	-1.4474	-2.71713	5.00E-05	0.00022	yes
Swap70	-1.44752	-3.58373	5.00E-05	0.00022	yes
Tgfb1	-1.44861	-2.2608	0.00045	0.001682	yes
Dixdc1	-1.44917	-3.07879	5.00E-05	0.00022	yes
Tmem140	-1.45039	-1.32791	0.0359	0.077156	no
Ppp1r3c	-1.4508	-1.68971	0.005	0.014211	yes
Doc2a	-1.45105	0	1	1	no
Tgfr1	-1.45162	-4.44652	5.00E-05	0.00022	yes
Rbp7	-1.45253	-1.24885	0.11345	0.198803	no
Casp4	-1.45253	0	1	1	no
Ppp1r14a	-1.45262	-1.41741	0.0948	0.171795	no
Cnp	-1.45275	-6.46062	5.00E-05	0.00022	yes
C920025E04Rik	-1.45285	0	1	1	no
Krt28	-1.45385	0	1	1	no
Mdfi	-1.45403	0	1	1	no
Fam163b	-1.45432	-1.98794	0.00185	0.005939	yes
Myl2	-1.45436	0	1	1	no
Uckl1os	-1.45559	0	1	1	no
Lingo2	-1.45591	-3.7173	5.00E-05	0.00022	yes
Gja4	-1.4567	-2.05852	0.00195	0.006219	yes
Lacc1	-1.45689	-2.44364	0.00015	0.000615	yes
Zfp618	-1.45728	0	1	1	no
Vasn	-1.45787	-1.21683	0.03285	0.071646	no
Erb2ip	-1.45934	-4.69085	5.00E-05	0.00022	yes
Cntnap3	-1.46009	-3.07811	5.00E-05	0.00022	yes
Agap2	-1.46042	-4.5473	5.00E-05	0.00022	yes
Htr1d	-1.46117	-4.80729	5.00E-05	0.00022	yes
Mesp2	-1.46202	0	1	1	no
1810024B03Rik	-1.46225	0	1	1	no
Tagln3	-1.46233	-7.90852	5.00E-05	0.00022	yes
Sgcx	-1.4626	-2.12254	0.0003	0.001164	yes
Prr5l	-1.46356	0	1	1	no
Tspan9	-1.46392	-3.66795	5.00E-05	0.00022	yes
Wwc2	-1.46482	-4.10836	5.00E-05	0.00022	yes
Klf12	-1.46575	-3.03213	5.00E-05	0.00022	yes
Cdc14a	-1.46587	-2.39717	5.00E-05	0.00022	yes
Zfp804b	-1.46599	0	1	1	no
Mapkapk2	-1.46638	-4.69778	5.00E-05	0.00022	yes
Tnfr1	-1.46807	0	1	1	no
Stpg2	-1.4682	0	1	1	no
Nat8l	-1.46844	-6.89023	5.00E-05	0.00022	yes
Gm11710	-1.46846	0	1	1	no
Mos	-1.46902	0	1	1	no
Stbd1	-1.4691	-6.36365	5.00E-05	0.00022	yes

Abcd2	-1.46931	-4.97546	5.00E-05	0.00022	yes
Itga8	-1.46965	0	1	1	no
BC147527	-1.46967	0	1	1	no
Cbs	-1.47062	0	1	1	no
Olf1033	-1.47213	0	1	1	no
Arid5b	-1.47224	-3.61489	5.00E-05	0.00022	yes
Syt4	-1.47315	0	1	1	no
4930507D05Rik	-1.47324	0	1	1	no
Nkain3	-1.47375	-1.84423	0.00105	0.003607	yes
Tmem211	-1.47394	0	1	1	no
S1pr3	-1.47501	-6.82528	5.00E-05	0.00022	yes
Nrk	-1.47581	0	1	1	no
Tceal6	-1.47595	-3.17143	5.00E-05	0.00022	yes
Dach1	-1.47661	-3.52783	5.00E-05	0.00022	yes
Mxra7	-1.47852	-4.46042	5.00E-05	0.00022	yes
Fads2	-1.47895	-6.7427	5.00E-05	0.00022	yes
Bche	-1.48196	-4.27022	5.00E-05	0.00022	yes
4933427I22Rik	-1.48231	0	1	1	no
Serpinb1b	-1.48254	-3.50468	5.00E-05	0.00022	yes
Xrra1	-1.48368	0	1	1	no
Lrrc75a	-1.48379	-2.28608	0.00025	0.000985	yes
Dnah5	-1.48462	0	1	1	no
Npas3	-1.48469	0	1	1	no
Stab1	-1.48527	-3.18025	5.00E-05	0.00022	yes
Glis3	-1.48595	0	1	1	no
Abhd1	-1.48678	0	1	1	no
Bhlhe40	-1.4877	-4.40538	5.00E-05	0.00022	yes
Pcx	-1.488	-4.56235	5.00E-05	0.00022	yes
A730085K08Rik	-1.48873	0	1	1	no
Chrna1	-1.48874	0	1	1	no
Id3	-1.48995	-6.44725	5.00E-05	0.00022	yes
Nptx1	-1.49112	-7.08516	5.00E-05	0.00022	yes
Wnk2	-1.49508	-4.4577	5.00E-05	0.00022	yes
C2cd2	-1.49617	-5.26304	5.00E-05	0.00022	yes
Ppbp	-1.49657	0	1	1	no
Nt5dc2	-1.49675	-1.21591	0.03555	0.076528	no
Adam12	-1.49732	0	1	1	no
Acy3	-1.49746	-1.60236	0.0132	0.032999	yes
Sh3tc2	-1.49769	-2.93373	5.00E-05	0.00022	yes
Itgax	-1.49818	0	1	1	no
Slc24a5	-1.49888	0	1	1	no
Slc6a8	-1.50025	-5.20519	5.00E-05	0.00022	yes
1700123I01Rik	-1.5008	0	1	1	no
Gm3383	-1.50082	0	1	1	no
Klhl38	-1.50119	0	1	1	no
Igsf5	-1.50174	0	1	1	no
4930599N23Rik	-1.50187	0	1	1	no
Wdr93	-1.50218	0	1	1	no
Mxi1	-1.50314	-4.97437	5.00E-05	0.00022	yes
Rimbp2	-1.50472	-4.07162	5.00E-05	0.00022	yes
Col9a3	-1.50536	0	1	1	no
Adcy1	-1.50553	-6.30535	5.00E-05	0.00022	yes
Col6a6	-1.5058	0	1	1	no

3110039I08Rik	-1.50647	0	1	1	no
Snai1	-1.50773	0	1	1	no
Rhbdf1	-1.50799	-3.57532	5.00E-05	0.00022	yes
Mavs	-1.50866	-0.662978	0.19505	0.30755	no
Snx20	-1.51024	0	1	1	no
Slitrk4	-1.51081	-4.72788	5.00E-05	0.00022	yes
Ctxn2	-1.51184	0	1	1	no
Casp6	-1.51253	-2.25064	0.0009	0.003139	yes
6330416G13Rik	-1.51272	-3.15428	5.00E-05	0.00022	yes
Cplx2	-1.51317	-7.27435	5.00E-05	0.00022	yes
Arhgap29	-1.51438	-4.06573	5.00E-05	0.00022	yes
Stc1	-1.51555	0	1	1	no
Car3	-1.51611	-1.59919	0.0113	0.028847	yes
Gm15441	-1.51635	0	1	1	no
Slc13a5	-1.51681	0	1	1	no
Foxp2	-1.51778	-2.18861	5.00E-05	0.00022	yes
Cyp2j8	-1.5179	0	1	1	no
9230112J17Rik	-1.51802	0	1	1	no
Dusp18	-1.51835	-3.46438	5.00E-05	0.00022	yes
Odf1	-1.51934	0	1	1	no
1810034E14Rik	-1.51977	0	1	1	no
Rab3b	-1.52064	-2.95795	5.00E-05	0.00022	yes
Efcab12	-1.52098	-1.74913	0.0049	0.013947	yes
Kcna2	-1.52148	-6.95081	5.00E-05	0.00022	yes
2310069B03Rik	-1.52172	0	1	1	no
Serhl	-1.52253	-1.50908	0.0264	0.059566	no
Hcls1	-1.52296	-1.65072	0.0086	0.022847	yes
Kdm4d	-1.52458	-1.90625	0.00225	0.007062	yes
Gria3	-1.52468	-3.99193	5.00E-05	0.00022	yes
Pou6f2	-1.52496	0	1	1	no
Fcrlb	-1.52609	0	1	1	no
Tnfsf12	-1.52624	-2.61114	5.00E-05	0.00022	yes
Slc6a13	-1.52668	-1.58924	0.00975	0.025413	yes
Trim16	-1.52689	-4.42122	5.00E-05	0.00022	yes
Sema3f	-1.52794	-4.96676	5.00E-05	0.00022	yes
Igsf10	-1.52797	0	1	1	no
St5	-1.52891	-3.48106	5.00E-05	0.00022	yes
Cish	-1.52933	-3.66319	5.00E-05	0.00022	yes
BC051628	-1.53115	0	1	1	no
Zfp385a	-1.53199	-5.12826	5.00E-05	0.00022	yes
Dclk2	-1.53511	-5.50332	5.00E-05	0.00022	yes
Prokr2	-1.53543	-3.4631	5.00E-05	0.00022	yes
Mab21i3	-1.53585	0	1	1	no
Tcea3	-1.53625	0	1	1	no
Ptgs1	-1.53716	-1.97794	0.00145	0.004804	yes
Tead4	-1.53812	0	1	1	no
Kcnk6	-1.53956	0	1	1	no
Adamtsl1	-1.54077	-2.4934	0.0001	0.000422	yes
Dsg1c	-1.54096	0	1	1	no
Calr3	-1.54239	-2.05613	5.00E-05	0.00022	yes
Ptpn21	-1.54623	-3.93106	5.00E-05	0.00022	yes
A830019L24Rik	-1.54644	0	1	1	no
Ccdc177	-1.54856	0	1	1	no

Hoxc5	-1.54868	0	1	1	no
Prss41	-1.54918	0	1	1	no
Cpa3	-1.55022	-1.299	0.136	0.231352	no
Slc5a8	-1.55029	0	1	1	no
Scn1b	-1.55045	-8.06608	5.00E-05	0.00022	yes
Pip5kl1	-1.55158	-2.33026	0.00055	0.002016	yes
Pkd2	-1.55188	-4.51236	5.00E-05	0.00022	yes
Per3	-1.55189	-3.39117	5.00E-05	0.00022	yes
Mob3b	-1.55223	-4.64985	5.00E-05	0.00022	yes
Mitf	-1.55247	-2.34943	5.00E-05	0.00022	yes
C5ar2	-1.55251	0	1	1	no
S100a1	-1.55351	-4.52542	5.00E-05	0.00022	yes
Riad1	-1.55386	0	1	1	no
Rab7l1	-1.5546	-2.12346	0.00225	0.007062	yes
Fgfr2	-1.55503	0	1	1	no
Insl6	-1.55567	-1.53005	0.06	0.118738	no
Gm13710	-1.5557	0	1	1	no
Wipi1	-1.55581	-4.09628	5.00E-05	0.00022	yes
Gdpd2	-1.55832	-2.05179	0.00115	0.00391	yes
9530036O11Rik	-1.55857	0	1	1	no
Slc41a1	-1.55877	-4.77601	5.00E-05	0.00022	yes
Tgfbr2	-1.55917	-4.95695	5.00E-05	0.00022	yes
Spata9	-1.5604	0	1	1	no
Gm5468	-1.56052	0	1	1	no
Agbl1	-1.56125	0	1	1	no
Cacna1f	-1.56205	0	1	1	no
Slc5a5	-1.56236	-4.0275	5.00E-05	0.00022	yes
Cyb5r2	-1.56266	0	1	1	no
Rilp	-1.56319	-1.74825	0.00785	0.021108	yes
Trip6	-1.56386	-2.5773	5.00E-05	0.00022	yes
Tchh	-1.56387	0	1	1	no
Efna4	-1.56397	0	1	1	no
Glrx	-1.56449	-4.54253	5.00E-05	0.00022	yes
Apln	-1.57016	0	1	1	no
Them5	-1.57101	-2.16305	0.0013	0.004375	yes
Ctnna1	-1.57126	-5.68354	5.00E-05	0.00022	yes
Cntfr	-1.57162	-5.73279	5.00E-05	0.00022	yes
Cxcl11	-1.57205	0	1	1	no
Rimkb	-1.5724	-3.25955	5.00E-05	0.00022	yes
Clic6	-1.57281	0	1	1	no
Kif21b	-1.57453	-3.87262	5.00E-05	0.00022	yes
Map2	-1.57619	-6.53775	5.00E-05	0.00022	yes
Eno4	-1.57628	0	1	1	no
Sult5a1	-1.57641	0	1	1	no
Satb1	-1.57718	-5.57317	5.00E-05	0.00022	yes
Fam81a	-1.5772	-4.84703	5.00E-05	0.00022	yes
4430402I18Rik	-1.57729	0	1	1	no
Ung	-1.57769	-1.50208	0.0049	0.013947	yes
Gpx7	-1.58	-2.56835	0.0002	0.000803	yes
Nsun7	-1.58051	0	1	1	no
Ptchd2	-1.58122	-5.34317	5.00E-05	0.00022	yes
Pmaip1	-1.58124	0	1	1	no
Sh3gl2	-1.58156	-7.26214	5.00E-05	0.00022	yes

Efhd1	-1.58373	-4.01542	5.00E-05	0.00022	yes
Spock1	-1.58385	-7.25923	5.00E-05	0.00022	yes
Rimbp3	-1.58393	0	1	1	no
AF251705	-1.58445	0	1	1	no
Anxa8	-1.58531	0	1	1	no
Phospho1	-1.58565	-5.54051	5.00E-05	0.00022	yes
Sft2d2	-1.58589	-5.3807	5.00E-05	0.00022	yes
Akr1b8	-1.58613	-2.08466	0.00245	0.007605	yes
Hoxc8	-1.58618	-2.51126	0.0001	0.000422	yes
Ddit4	-1.58692	-6.87028	5.00E-05	0.00022	yes
Syndig1l	-1.58723	-3.85597	5.00E-05	0.00022	yes
Adarb2	-1.58742	0	1	1	no
Camkv	-1.58759	0	1	1	no
Fermt1	-1.58849	0	1	1	no
Xirp2	-1.58937	0	1	1	no
Bcl2l11	-1.59214	-2.4748	0.00015	0.000615	yes
Stx1b	-1.59371	-6.9618	5.00E-05	0.00022	yes
B230209E15Rik	-1.59588	0	1	1	no
Arl5c	-1.59592	0	1	1	no
Gjc1	-1.59689	-2.15893	0.0002	0.000803	yes
Ndp	-1.59695	-3.98693	5.00E-05	0.00022	yes
Hrasls	-1.59703	-3.16579	5.00E-05	0.00022	yes
Serpine3	-1.59706	0	1	1	no
Col11a2	-1.59727	0	1	1	no
Nlrp10	-1.59856	0	1	1	no
Tmprss7	-1.59867	-2.15828	0.00105	0.003607	yes
Ahr	-1.60052	-4.2301	5.00E-05	0.00022	yes
Lepr	-1.6026	-2.85079	5.00E-05	0.00022	yes
Gabrg3	-1.60337	0	1	1	no
Mapkapk3	-1.6038	-1.84672	0.00285	0.008668	yes
Edar	-1.60405	0	1	1	no
Plod2	-1.60485	-3.25652	5.00E-05	0.00022	yes
Strbp	-1.60584	-6.82292	5.00E-05	0.00022	yes
Hpgd	-1.60651	-1.7913	0.00575	0.016057	yes
Kcnp1	-1.60724	-3.26681	5.00E-05	0.00022	yes
B930041F14Rik	-1.60799	-4.88192	5.00E-05	0.00022	yes
Elf2	-1.60806	-2.43807	5.00E-05	0.00022	yes
Kcnh2	-1.60824	-6.9739	5.00E-05	0.00022	yes
Zfp804a	-1.61008	-4.58725	5.00E-05	0.00022	yes
Cd101	-1.61074	0	1	1	no
Tor3a	-1.61256	-2.88395	5.00E-05	0.00022	yes
Frem1	-1.61279	-2.63766	5.00E-05	0.00022	yes
Tmem132b	-1.61308	-3.42178	5.00E-05	0.00022	yes
Zfp964	-1.61548	-1.66614	0.01095	0.028083	yes
Cox6a2	-1.61563	0	1	1	no
Abhd3	-1.61611	-4.77432	5.00E-05	0.00022	yes
Amn	-1.61613	0	1	1	no
Epas1	-1.61667	-7.44254	5.00E-05	0.00022	yes
Mafb	-1.61685	-2.23795	0.0002	0.000803	yes
Rxra	-1.61766	-4.82889	5.00E-05	0.00022	yes
Cpq	-1.61832	-4.17046	5.00E-05	0.00022	yes
Rnf17	-1.61887	0	1	1	no
Cyp2j6	-1.62155	-6.24793	5.00E-05	0.00022	yes

Fzd7	-1.62197	-4.07389	5.00E-05	0.00022	yes
Nrp2	-1.62197	-5.98187	5.00E-05	0.00022	yes
1700028J19Rik	-1.62337	0	1	1	no
Rcn1	-1.62367	-5.55289	5.00E-05	0.00022	yes
Sec14l2	-1.62409	-4.2824	5.00E-05	0.00022	yes
Eva1b	-1.62535	-2.16913	0.00215	0.006796	yes
Vcam1	-1.62657	-3.00411	5.00E-05	0.00022	yes
Gpc2	-1.62739	0	1	1	no
Slc22a8	-1.62771	0	1	1	no
2310022B05Rik	-1.62785	-6.37637	5.00E-05	0.00022	yes
Ror1	-1.63195	0	1	1	no
Slitrk3	-1.63208	-6.40372	5.00E-05	0.00022	yes
Pole2	-1.63219	0	1	1	no
Tnn	-1.63406	0	1	1	no
Cldn15	-1.6349	0	1	1	no
Clrn2	-1.63574	-2.19536	0.00325	0.009727	yes
S100a14	-1.63616	0	1	1	no
Ciita	-1.6362	0	1	1	no
38776	-1.6363	0	1	1	no
Prrg3	-1.63633	-5.60764	5.00E-05	0.00022	yes
Cyp3a13	-1.63657	0	1	1	no
Parva	-1.63714	-7.6417	5.00E-05	0.00022	yes
Zfp36l1	-1.63837	-5.11846	5.00E-05	0.00022	yes
Tesc	-1.6395	-6.00357	5.00E-05	0.00022	yes
Xylt1	-1.64005	0	1	1	no
Tmem37	-1.64023	0	1	1	no
Lhx6	-1.64078	0	1	1	no
St3gal3	-1.64095	-4.30648	5.00E-05	0.00022	yes
AU022754	-1.64125	0	1	1	no
Retnlg	-1.64188	-2.2554	0.0088	0.023271	yes
2310069G16Rik	-1.64309	-0.863105	0.10525	0.187379	no
Pitpnm3	-1.6431	-2.74386	5.00E-05	0.00022	yes
Prdm5	-1.64354	-1.72124	0.00665	0.018232	yes
Cdh4	-1.64495	-4.30347	5.00E-05	0.00022	yes
Ryr3	-1.64559	-3.39397	5.00E-05	0.00022	yes
Nxf2	-1.64705	0	1	1	no
Ky	-1.64736	0	1	1	no
D7Ert443e	-1.65028	-2.25954	0.0001	0.000422	yes
Nr1d2	-1.65029	-6.40056	5.00E-05	0.00022	yes
Endod1	-1.65206	-7.78311	5.00E-05	0.00022	yes
Thsd4	-1.65322	-3.23528	5.00E-05	0.00022	yes
Cnm1	-1.6536	-5.38025	5.00E-05	0.00022	yes
Tdrd9	-1.65384	0	1	1	no
Stox1	-1.65453	0	1	1	no
Adam17	-1.65459	-3.52774	5.00E-05	0.00022	yes
Rab20	-1.6548	-1.46908	0.05195	0.105369	no
4931409K22Rik	-1.65598	0	1	1	no
Abhd4	-1.65724	-6.9797	5.00E-05	0.00022	yes
Dppa2	-1.65915	0	1	1	no
Slc22a23	-1.65995	-6.24417	5.00E-05	0.00022	yes
Psma8	-1.66203	0	1	1	no
Gm4013	-1.6628	0	1	1	no
Galnt4	-1.66569	-1.84969	0.00895	0.023578	yes

1190002N15Rik	-1.66651	-6.36877	5.00E-05	0.00022	yes
Tead1	-1.66863	-5.48512	5.00E-05	0.00022	yes
Etv4	-1.66893	-2.03608	0.00135	0.004516	yes
Fbxo40	-1.66973	-1.9086	0.00285	0.008668	yes
4930525G20Rik	-1.67035	0	1	1	no
Qpct	-1.67111	-2.56549	0.00015	0.000615	yes
Siglecg	-1.67423	0	1	1	no
Mt2	-1.67502	-6.81782	5.00E-05	0.00022	yes
Smim1	-1.67523	-1.22404	0.02975	0.065991	no
Col11a1	-1.67627	-4.27496	5.00E-05	0.00022	yes
B230206H07Rik	-1.67691	-1.45668	0.0845	0.15666	no
Sort1	-1.67716	-6.65745	5.00E-05	0.00022	yes
Dleu7	-1.67808	0	1	1	no
Arhgef19	-1.67873	-3.5451	5.00E-05	0.00022	yes
Lhpp	-1.6791	-2.82987	5.00E-05	0.00022	yes
Chn2	-1.68002	-5.6006	5.00E-05	0.00022	yes
Arsk	-1.68005	-3.08561	5.00E-05	0.00022	yes
Cxcr2	-1.68116	0	1	1	no
Cyp2d26	-1.68124	0	1	1	no
Srd5a1	-1.68191	-4.18556	5.00E-05	0.00022	yes
Fam212a	-1.68206	-2.53506	0.0002	0.000803	yes
Pard3b	-1.683	-3.05998	5.00E-05	0.00022	yes
Fscn1	-1.68356	-5.31644	5.00E-05	0.00022	yes
Clcn2	-1.68412	-2.08791	0.00075	0.00267	yes
Robo1	-1.6852	-4.73403	5.00E-05	0.00022	yes
Sgce	-1.6876	-4.17884	5.00E-05	0.00022	yes
Zpbp2	-1.69019	0	1	1	no
Nuak2	-1.69063	0	1	1	no
Lmcd1	-1.6908	-2.24019	5.00E-05	0.00022	yes
Usp27x	-1.6908	-1.99977	0.00135	0.004516	yes
Fam65b	-1.69187	-2.23188	0.00025	0.000985	yes
Cysltr1	-1.69332	0	1	1	no
Nup62-il4i1	-1.69519	0	1	1	no
Opn3	-1.69744	-2.17231	0.0014	0.004657	yes
Dab2	-1.69951	-3.2686	5.00E-05	0.00022	yes
Sall4	-1.70017	0	1	1	no
Fam101a	-1.70062	-2.41487	0.00075	0.00267	yes
Myl1	-1.70288	0	1	1	no
Sema6a	-1.70308	-4.7175	5.00E-05	0.00022	yes
Pde6b	-1.70414	0	1	1	no
B230319C09Rik	-1.706	0	1	1	no
Itm2a	-1.70709	-6.53515	5.00E-05	0.00022	yes
Spata18	-1.70734	0	1	1	no
Ear3	-1.70858	0	1	1	no
Gng8	-1.70949	-3.39107	5.00E-05	0.00022	yes
C1qtnf1	-1.71039	-6.59028	5.00E-05	0.00022	yes
Tcf24	-1.71159	0	1	1	no
Sema6b	-1.71209	-2.93928	5.00E-05	0.00022	yes
6430571L13Rik	-1.71464	-3.75668	5.00E-05	0.00022	yes
Camk1d	-1.71471	-6.77243	5.00E-05	0.00022	yes
Gm53	-1.7154	-1.57729	0.0614	0.121021	no
Fhl2	-1.71621	-1.59522	0.09275	0.168772	no
4930539J05Rik	-1.71672	0	1	1	no

Smad3	-1.71697	-2.67266	5.00E-05	0.00022	yes
Iqck	-1.71929	0	1	1	no
Arpp21	-1.71996	-4.27197	5.00E-05	0.00022	yes
Gm13306	-1.72227	0	1	1	no
Garem	-1.72283	-4.31644	5.00E-05	0.00022	yes
Grasp	-1.72398	-2.55594	5.00E-05	0.00022	yes
Morn5	-1.72458	0	1	1	no
AB124611	-1.72645	-1.23478	0.017	0.04103	yes
Sdk1	-1.72714	-4.76849	5.00E-05	0.00022	yes
Vmn2r87	-1.72732	0	1	1	no
Prr15	-1.72784	-0.830007	0.1556	0.257528	no
Nav3	-1.72844	-3.56573	5.00E-05	0.00022	yes
Grik2	-1.72847	-3.7706	5.00E-05	0.00022	yes
Bcl2	-1.731	-6.25369	5.00E-05	0.00022	yes
Ptch1	-1.73124	-5.02069	5.00E-05	0.00022	yes
Ankrd66	-1.73321	0	1	1	no
3425401B19Rik	-1.73393	-2.76199	5.00E-05	0.00022	yes
Il15	-1.73418	0	1	1	no
Cacng5	-1.73494	-4.78436	5.00E-05	0.00022	yes
Olfml3	-1.73589	-1.60965	0.01285	0.032203	yes
Ltbr	-1.73626	-3.96183	5.00E-05	0.00022	yes
9430076C15Rik	-1.73698	0	1	1	no
Fhad1	-1.74155	0	1	1	no
Ntm	-1.74181	-3.53929	5.00E-05	0.00022	yes
Wls	-1.74261	-5.95693	5.00E-05	0.00022	yes
Cd300lb	-1.74302	0	1	1	no
Pak1	-1.74386	-7.57219	5.00E-05	0.00022	yes
Cux2	-1.74412	-4.05201	5.00E-05	0.00022	yes
Elovl2	-1.7451	-3.96135	5.00E-05	0.00022	yes
Tbc1d10a	-1.74584	-4.65389	5.00E-05	0.00022	yes
Arsg	-1.74588	-2.04406	0.00045	0.001682	yes
Pctp	-1.74732	-5.3616	5.00E-05	0.00022	yes
Gpc3	-1.74912	-4.80794	5.00E-05	0.00022	yes
Pla1a	-1.74955	0	1	1	no
Asap3	-1.75058	-3.58307	5.00E-05	0.00022	yes
Mycl	-1.75078	0	1	1	no
Slc2a5	-1.75322	0	1	1	no
Tmem220	-1.75473	0	1	1	no
Ramp2	-1.75485	-4.33877	5.00E-05	0.00022	yes
Gm16532	-1.7593	-3.00505	5.00E-05	0.00022	yes
Fam155a	-1.75938	-4.97678	5.00E-05	0.00022	yes
Snx24	-1.76067	-3.02742	5.00E-05	0.00022	yes
Gm17769	-1.76265	0	1	1	no
Clec1a	-1.76281	-2.0911	0.00175	0.00566	yes
Dusp23	-1.76366	-2.55812	0.0003	0.001164	yes
Asic1	-1.76778	-7.03658	5.00E-05	0.00022	yes
Tmem200b	-1.76782	-1.68898	0.0131	0.032767	yes
G530011O06Rik	-1.77011	0	1	1	no
Slc39a1	-1.77029	-5.24957	5.00E-05	0.00022	yes
Cd68	-1.77145	-1.08722	0.26955	0.394324	no
Tnfrsf1a	-1.77359	-4.95865	5.00E-05	0.00022	yes
Itpr2	-1.77438	0	1	1	no
2310040G24Rik	-1.77513	-1.22659	0.0142	0.035181	yes

Hnmt	-1.77612	-3.83034	5.00E-05	0.00022	yes
Peg10	-1.77931	-5.00272	5.00E-05	0.00022	yes
Tns3	-1.78163	-7.37999	5.00E-05	0.00022	yes
Cped1	-1.78215	-2.90393	5.00E-05	0.00022	yes
Gm6568	-1.78232	0	1	1	no
Nek6	-1.78294	-4.33744	5.00E-05	0.00022	yes
B430319G15Rik	-1.78331	0	1	1	no
Ccr1	-1.78367	0	1	1	no
Ecm1	-1.78427	-3.05956	5.00E-05	0.00022	yes
Klhdc7a	-1.78597	0	1	1	no
Lgr6	-1.78654	0	1	1	no
Ace	-1.78753	-2.99452	5.00E-05	0.00022	yes
Cacnb2	-1.78767	-2.49296	5.00E-05	0.00022	yes
Fgf7	-1.79228	-1.52747	0.01155	0.029395	yes
Zfp36l2	-1.79313	-5.2245	5.00E-05	0.00022	yes
Clca2	-1.79342	0	1	1	no
Rin3	-1.79495	-2.63424	5.00E-05	0.00022	yes
Pcdh10	-1.79524	-6.04571	5.00E-05	0.00022	yes
Mmp23	-1.79556	-1.90711	0.005	0.014211	yes
S100a3	-1.79559	0	1	1	no
Lrrc25	-1.79595	0	1	1	no
Gabra5	-1.79673	-2.98961	5.00E-05	0.00022	yes
Il16	-1.79718	-4.30018	5.00E-05	0.00022	yes
Tas1r3	-1.7972	0	1	1	no
D630023F18Rik	-1.80008	-1.17503	0.015	0.036839	yes
Tpm2	-1.80075	-3.27579	5.00E-05	0.00022	yes
Fam84b	-1.80202	-2.46092	5.00E-05	0.00022	yes
C030006K11Rik	-1.80324	-2.4661	0.0001	0.000422	yes
Dapl1	-1.80346	-1.5293	0.08075	0.151144	no
Vwa7	-1.80514	-7.52034	5.00E-05	0.00022	yes
9630001P10Rik	-1.80589	0	1	1	no
Pcp4l1	-1.80633	-9.1958	5.00E-05	0.00022	yes
Ankrd29	-1.8084	-6.12122	5.00E-05	0.00022	yes
2810454H06Rik	-1.81153	0	1	1	no
Slc25a2	-1.81215	0	1	1	no
Loxl2	-1.81292	-2.3108	0.0001	0.000422	yes
Hepacam2	-1.81852	0	1	1	no
Fzd10	-1.81928	0	1	1	no
Zfp607	-1.8194	0	1	1	no
Il17re	-1.81945	0	1	1	no
Tpcn1	-1.82076	-7.21503	5.00E-05	0.00022	yes
Fabp4	-1.82158	-2.45322	0.0053	0.014929	yes
Ccr5	-1.82172	0	1	1	no
Tnfrsf11b	-1.82193	0	1	1	no
Pde1a	-1.82218	-2.70117	5.00E-05	0.00022	yes
Kcnab3	-1.82361	-2.22351	0.0006	0.002181	yes
Ncf1	-1.82497	-1.64961	0.00165	0.00538	yes
Pou2f3	-1.8256	0	1	1	no
Lama1	-1.82626	0	1	1	no
Mn1	-1.8276	0	1	1	no
Serpinb1a	-1.8282	-6.87727	5.00E-05	0.00022	yes
Igf2bp2	-1.83095	-2.14391	0.0012	0.004068	yes
Tcf15	-1.83107	0	1	1	no

Rab42	-1.83156	0	1	1	no
Shc3	-1.83158	-2.65297	0.0001	0.000422	yes
Bicc1	-1.83379	-2.83167	5.00E-05	0.00022	yes
Greb1	-1.83455	-4.15801	5.00E-05	0.00022	yes
Nckap1l	-1.83521	0	1	1	no
Dhh	-1.83607	-6.67248	5.00E-05	0.00022	yes
Prkd3	-1.83693	-3.77983	5.00E-05	0.00022	yes
Rnf152	-1.8371	0	1	1	no
Rreb1	-1.83754	-3.00987	5.00E-05	0.00022	yes
Cd164l2	-1.83793	-2.0072	0.0084	0.022392	yes
Snta1	-1.83803	-4.49541	5.00E-05	0.00022	yes
Fgf18	-1.83914	-3.44147	5.00E-05	0.00022	yes
Pcdh11x	-1.8394	-2.85762	5.00E-05	0.00022	yes
AI427809	-1.84033	-1.57135	0.00625	0.017282	yes
Tlr12	-1.84037	0	1	1	no
Nsg1	-1.84097	-4.93684	5.00E-05	0.00022	yes
Heph	-1.8416	0	1	1	no
A2m	-1.84248	-4.13902	5.00E-05	0.00022	yes
Edn2	-1.84339	0	1	1	no
Slc7a11	-1.8437	0	1	1	no
Slc25a15	-1.84392	-4.03436	5.00E-05	0.00022	yes
Cdhr2	-1.84406	0	1	1	no
Ypel2	-1.84472	-0.52478	0.3338	0.464937	no
Gm11744	-1.84602	0	1	1	no
Col2a1	-1.84659	0	1	1	no
Mgmt	-1.84802	-2.39374	0.0027	0.008273	yes
Slco2a1	-1.84819	-3.53817	5.00E-05	0.00022	yes
Gpr88	-1.8485	0	1	1	no
Acox1	-1.84964	0	1	1	no
Csrp1	-1.84994	-8.11567	5.00E-05	0.00022	yes
BC100451	-1.85034	0	1	1	no
Gpr62	-1.8504	0	1	1	no
Nefm	-1.85109	-6.34452	5.00E-05	0.00022	yes
Hopx	-1.85148	-7.43278	5.00E-05	0.00022	yes
Ctdsp1	-1.852	-4.60466	5.00E-05	0.00022	yes
Tyro3	-1.85245	-6.04746	5.00E-05	0.00022	yes
Zbtb8b	-1.85275	0	1	1	no
Ngef	-1.85651	-3.09267	5.00E-05	0.00022	yes
Sorbs3	-1.85692	-4.43219	5.00E-05	0.00022	yes
Amot	-1.85733	-4.20459	5.00E-05	0.00022	yes
Bai1	-1.85971	-6.17748	5.00E-05	0.00022	yes
Agpat9	-1.85998	-2.66643	5.00E-05	0.00022	yes
Lphn2	-1.86163	-5.53392	5.00E-05	0.00022	yes
Tbxa2r	-1.86228	-2.0737	0.0008	0.002828	yes
Tnfsf12Tnfsf13	-1.86256	-1.00556	0.1025	0.183221	no
Myh10	-1.86427	-8.54415	5.00E-05	0.00022	yes
Enah	-1.86677	-8.34193	5.00E-05	0.00022	yes
Lrrc14b	-1.86729	0	1	1	no
Plekhg5	-1.86877	-4.15991	5.00E-05	0.00022	yes
Itrip1	-1.87383	-2.33709	0.00015	0.000615	yes
Slc8a3	-1.87398	-4.95453	5.00E-05	0.00022	yes
Entpd4	-1.87449	0	1	1	no
Ebf2	-1.875	-2.58137	5.00E-05	0.00022	yes

Filip1l	-1.8757	-1.41549	0.0464	0.096066	no
Sorcs3	-1.87643	-4.82233	5.00E-05	0.00022	yes
C6	-1.8765	0	1	1	no
Zkscan17	-1.87809	-2.82197	5.00E-05	0.00022	yes
Cdh6	-1.88093	-3.62803	5.00E-05	0.00022	yes
Ntn4	-1.88158	-2.28424	0.00115	0.00391	yes
Pappa	-1.88278	-4.25117	5.00E-05	0.00022	yes
Gucy2e	-1.88283	0	1	1	no
Tril	-1.8848	-3.79428	5.00E-05	0.00022	yes
Impa2	-1.88489	-3.23591	5.00E-05	0.00022	yes
Lao1	-1.88548	0	1	1	no
Lpl	-1.88819	-3.48273	5.00E-05	0.00022	yes
Srpk3	-1.88878	0	1	1	no
Mgp	-1.89015	-6.50964	5.00E-05	0.00022	yes
Slc14a2	-1.89063	0	1	1	no
Chrn4	-1.89083	-4.18337	5.00E-05	0.00022	yes
Cntnap1	-1.89205	-8.73358	5.00E-05	0.00022	yes
Dok7	-1.89333	-2.67465	0.0001	0.000422	yes
Clstn3	-1.89391	-7.88092	5.00E-05	0.00022	yes
Tead2	-1.89471	-1.76859	0.06095	0.120295	no
Nrarp	-1.8962	-5.41397	5.00E-05	0.00022	yes
Ccdc60	-1.89624	0	1	1	no
2900079G21Rik	-1.89868	-1.63302	0.00345	0.010237	yes
Pdlim3	-1.89888	0	1	1	no
Colq	-1.89961	-2.88996	5.00E-05	0.00022	yes
Gbp6	-1.9006	0	1	1	no
Arhgef3	-1.90104	-5.26626	5.00E-05	0.00022	yes
Pik3ap1	-1.90123	0	1	1	no
Anxa4	-1.90128	-4.74813	5.00E-05	0.00022	yes
C1ql2	-1.90184	0	1	1	no
Prrg1	-1.90185	-3.93894	5.00E-05	0.00022	yes
Ndnf	-1.90186	-4.07056	5.00E-05	0.00022	yes
Anxa9	-1.90244	0	1	1	no
Pcsk1	-1.90269	-7.15666	5.00E-05	0.00022	yes
Slc22a6	-1.90319	0	1	1	no
Ogdhl	-1.90452	-6.14403	5.00E-05	0.00022	yes
Plekha2	-1.90472	-5.66122	5.00E-05	0.00022	yes
Iqgap2	-1.90522	-1.57764	0.017	0.04103	yes
Sema4a	-1.90528	-2.91361	5.00E-05	0.00022	yes
Amotl2	-1.90748	-5.07766	5.00E-05	0.00022	yes
Arhgef10	-1.90764	-6.26007	5.00E-05	0.00022	yes
Tex15	-1.90855	0	1	1	no
Kctd12	-1.91451	-5.11533	5.00E-05	0.00022	yes
Fos	-1.91465	-8.27265	5.00E-05	0.00022	yes
Prima1	-1.91478	-3.45078	5.00E-05	0.00022	yes
Trem1	-1.91567	0	1	1	no
Nfatc2	-1.91596	0	1	1	no
Hsh2d	-1.91613	0	1	1	no
Whrn	-1.9173	-4.93118	5.00E-05	0.00022	yes
Slc22a22	-1.91816	0	1	1	no
Vipr1	-1.91898	0	1	1	no
Brinp1	-1.91948	-5.62103	5.00E-05	0.00022	yes
Ldlrad3	-1.92051	-4.31581	5.00E-05	0.00022	yes

Tst	-1.92073	-3.04215	0.0001	0.000422	yes
Tlr1	-1.92138	0	1	1	no
Bai3	-1.92205	-5.29944	5.00E-05	0.00022	yes
Ido2	-1.92226	0	1	1	no
Hist1h4h	-1.92263	-2.22932	0.03995	0.084465	no
Pde6a	-1.92331	0	1	1	no
Irx3	-1.92332	-1.77433	0.0028	0.008532	yes
Kcns1	-1.9234	-7.52873	5.00E-05	0.00022	yes
S100a8	-1.92356	-5.78542	5.00E-05	0.00022	yes
4631405J19Rik	-1.92497	0	1	1	no
Insc	-1.92661	-4.03711	5.00E-05	0.00022	yes
Sag	-1.92682	0	1	1	no
Efemp2	-1.92739	-3.3964	5.00E-05	0.00022	yes
Cdkn1c	-1.92823	-2.11182	0.0005	0.00185	yes
Cma1	-1.9289	0	1	1	no
Cacng8	-1.92896	-1.71488	0.0164	0.039806	yes
Padi4	-1.92973	0	1	1	no
Adra2c	-1.93037	-4.80274	5.00E-05	0.00022	yes
Fam46a	-1.93037	-2.75693	5.00E-05	0.00022	yes
Asb9	-1.93164	0	1	1	no
Tnfrsf12a	-1.93186	-1.37433	0.01615	0.039278	yes
Aifm3	-1.9319	-4.09908	5.00E-05	0.00022	yes
Klhl30	-1.93238	0	1	1	no
Cyr61	-1.93369	-6.41811	5.00E-05	0.00022	yes
Enpep	-1.93575	-3.11795	5.00E-05	0.00022	yes
Rnf130	-1.93576	-5.33458	5.00E-05	0.00022	yes
Rorc	-1.93648	-2.24648	0.00125	0.00422	yes
Gm6524	-1.93698	0	1	1	no
Atp2a1	-1.93715	0	1	1	no
Dennd1c	-1.93823	0	1	1	no
Vmn2r85	-1.93903	0	1	1	no
Gm4841	-1.93926	0	1	1	no
Gdpd4	-1.93952	0	1	1	no
Kcnj9	-1.93972	0	1	1	no
Sorbs2os	-1.94031	0	1	1	no
Ptn	-1.9405	-8.13763	5.00E-05	0.00022	yes
Elfn1	-1.94063	-6.18407	5.00E-05	0.00022	yes
Aard	-1.94074	-2.88574	0.0002	0.000803	yes
Scarf2	-1.94151	-2.3483	0.00055	0.002016	yes
Nrcam	-1.9473	-8.01986	5.00E-05	0.00022	yes
Trhde	-1.94758	-3.2998	5.00E-05	0.00022	yes
Ltbp4	-1.9492	-5.89517	5.00E-05	0.00022	yes
5830444B04Rik	-1.94983	0	1	1	no
Pvrl4	-1.95006	-5.16742	5.00E-05	0.00022	yes
Ctsh	-1.95079	-3.15332	5.00E-05	0.00022	yes
Mfge8	-1.95084	-4.00886	5.00E-05	0.00022	yes
Plin4	-1.95186	0	1	1	no
Col4a2	-1.95417	-7.23005	5.00E-05	0.00022	yes
Calml4	-1.9549	-1.86756	0.00185	0.005939	yes
Ano5	-1.95686	0	1	1	no
Gm19461	-1.9579	-0.8636	0.1189	0.206987	no
Slc27a1	-1.95892	-7.02378	5.00E-05	0.00022	yes
Gpr143	-1.95983	0	1	1	no

Klhl23	-1.9606	-3.2837	5.00E-05	0.00022	yes
Atoh8	-1.96094	0	1	1	no
Vil1	-1.9633	0	1	1	no
Frmprd4	-1.96344	-6.70712	5.00E-05	0.00022	yes
Il6ra	-1.96378	-2.23573	0.0008	0.002828	yes
Palld1	-1.96475	-4.58408	5.00E-05	0.00022	yes
Slc12a4	-1.96506	-5.07106	5.00E-05	0.00022	yes
Glb1l2	-1.96679	-4.10046	5.00E-05	0.00022	yes
Asrgl1	-1.96861	-6.37535	5.00E-05	0.00022	yes
Tfcp2l1	-1.9699	0	1	1	no
Cntn4	-1.97003	-4.43419	5.00E-05	0.00022	yes
9230116L04Rik	-1.97033	0	1	1	no
Itga9	-1.97083	-3.17755	5.00E-05	0.00022	yes
Spib	-1.97336	0	1	1	no
Thbs1	-1.97466	-4.64029	5.00E-05	0.00022	yes
Loxl4	-1.97491	-3.20044	5.00E-05	0.00022	yes
Ttc36	-1.97522	0	1	1	no
Pcdh8	-1.97531	-3.06111	5.00E-05	0.00022	yes
Leprel4	-1.97591	-3.37617	5.00E-05	0.00022	yes
Duxbl3	-1.97639	0	1	1	no
Tph1	-1.97659	0	1	1	no
Col13a1	-1.97672	0	1	1	no
Layn	-1.97747	-1.90677	0.00695	0.018933	yes
Ltbp1	-1.97767	-3.09676	5.00E-05	0.00022	yes
Itga1	-1.98094	-2.66278	0.0001	0.000422	yes
Egr1	-1.98095	-8.14586	5.00E-05	0.00022	yes
Gm5820	-1.98122	0	1	1	no
Ptk2b	-1.98255	-5.57675	5.00E-05	0.00022	yes
Dzip1l	-1.98317	0	1	1	no
1700017B05Rik	-1.98423	-2.67636	5.00E-05	0.00022	yes
Plch1	-1.98685	0	1	1	no
Phlda3	-1.98787	-5.69694	5.00E-05	0.00022	yes
Cps1	-1.98872	0	1	1	no
Gstm6	-1.98919	-2.43146	0.00135	0.004516	yes
Mfap3l	-1.98925	-7.92162	5.00E-05	0.00022	yes
Tpo	-1.99272	0	1	1	no
Ehd2	-1.99395	-6.6793	5.00E-05	0.00022	yes
Pbx1	-1.99422	-6.87451	5.00E-05	0.00022	yes
Zeb2	-1.99428	-7.70262	5.00E-05	0.00022	yes
Fign	-1.99477	-4.47795	5.00E-05	0.00022	yes
Dpysl4	-1.99716	-4.43453	5.00E-05	0.00022	yes
Arhgap10	-1.99772	-3.08608	5.00E-05	0.00022	yes
D930028M14Rik	-1.99936	-4.8	5.00E-05	0.00022	yes
Gm684	-2.00266	0	1	1	no
D1Pas1	-2.00311	0	1	1	no
Pi16	-2.00366	-3.94588	5.00E-05	0.00022	yes
Fam19a5	-2.00424	-5.91349	5.00E-05	0.00022	yes
Cdsn	-2.00446	0	1	1	no
Slc2a12	-2.00539	0	1	1	no
Lpar4	-2.00583	0	1	1	no
Vamp1	-2.00822	-9.04773	5.00E-05	0.00022	yes
Chrm2	-2.00954	-3.36167	5.00E-05	0.00022	yes
Iqch	-2.01097	0	1	1	no

Arhgef4	-2.01099	-7.70243	5.00E-05	0.00022	yes
Tnfsf9	-2.01104	0	1	1	no
Adra2a	-2.0119	-3.67064	5.00E-05	0.00022	yes
Hs3st4	-2.01382	-3.33891	5.00E-05	0.00022	yes
Arhgef40	-2.01533	-5.16667	5.00E-05	0.00022	yes
Rasgrf1	-2.01661	-3.15858	5.00E-05	0.00022	yes
Tgfbr3	-2.01769	-7.57544	5.00E-05	0.00022	yes
Arhgef6	-2.01783	-5.99806	5.00E-05	0.00022	yes
Cygb	-2.01849	-6.77345	5.00E-05	0.00022	yes
Adtrp	-2.01881	0	1	1	no
Asic3	-2.02009	-8.21304	5.00E-05	0.00022	yes
Zic5	-2.02123	0	1	1	no
Lipi	-2.0218	0	1	1	no
B3gat1	-2.02217	-2.6897	5.00E-05	0.00022	yes
Epha2	-2.02387	-2.65571	5.00E-05	0.00022	yes
Prkcb	-2.02409	-8.34149	5.00E-05	0.00022	yes
Epb4.1l2	-2.02412	-7.79518	5.00E-05	0.00022	yes
Met	-2.02485	0	1	1	no
Grm8	-2.02501	-5.33864	5.00E-05	0.00022	yes
Tex40	-2.02515	-3.08541	0.00025	0.000985	yes
Ajap1	-2.02753	0	1	1	no
Emilin1	-2.02775	-2.45272	0.00025	0.000985	yes
Ndrp2	-2.02799	-8.32645	5.00E-05	0.00022	yes
Emilin3	-2.03054	0	1	1	no
Phf19	-2.03124	0	1	1	no
Cntn1	-2.03565	-9.17051	5.00E-05	0.00022	yes
Ccdc65	-2.03966	-2.31843	0.00105	0.003607	yes
Stxbp5l	-2.04044	-7.02574	5.00E-05	0.00022	yes
Kndc1	-2.04087	-5.26161	5.00E-05	0.00022	yes
Traf1	-2.04113	0	1	1	no
Copz2	-2.04249	-2.59953	5.00E-05	0.00022	yes
Il34	-2.0459	-4.55782	5.00E-05	0.00022	yes
Dlgap2	-2.04666	0	1	1	no
Nr1d1	-2.0491	-5.85303	5.00E-05	0.00022	yes
L3hypdh	-2.05011	0	1	1	no
Lrtm2	-2.05101	0	1	1	no
Rhobtb3	-2.05158	-6.74799	5.00E-05	0.00022	yes
Vdr	-2.05403	0	1	1	no
Gm7854	-2.05481	0	1	1	no
Sla	-2.05618	0	1	1	no
Ikzf4	-2.05655	0	1	1	no
Hspb6	-2.05669	-4.03033	5.00E-05	0.00022	yes
Tuba4a	-2.0568	-7.89711	5.00E-05	0.00022	yes
Tlr5	-2.0574	-2.76749	5.00E-05	0.00022	yes
Asb2	-2.05862	-2.51626	0.00015	0.000615	yes
Spin4	-2.05938	0	1	1	no
Syt15	-2.06004	0	1	1	no
Slc16a14	-2.06159	-2.29836	0.00085	0.002983	yes
Phyhipl	-2.06399	-6.15809	5.00E-05	0.00022	yes
5930430L01Rik	-2.06476	0	1	1	no
Itih5	-2.07008	-8.26814	5.00E-05	0.00022	yes
S100a4	-2.07127	-6.00627	5.00E-05	0.00022	yes
Slc16a6	-2.07166	-4.73347	5.00E-05	0.00022	yes

Shroom2	-2.07351	-5.35602	5.00E-05	0.00022	yes
P2rx1	-2.07398	0	1	1	no
Cspg5	-2.07546	-3.4951	5.00E-05	0.00022	yes
Lamb1	-2.07596	-8.78095	5.00E-05	0.00022	yes
Plch2	-2.0761	-2.56553	5.00E-05	0.00022	yes
Chst1	-2.07686	-3.72296	5.00E-05	0.00022	yes
Ccl6	-2.07808	-1.6909	0.00645	0.017754	yes
Mep1a	-2.07879	0	1	1	no
Col25a1	-2.07891	-4.08111	5.00E-05	0.00022	yes
Col19a1	-2.0797	-3.33301	5.00E-05	0.00022	yes
Adam23	-2.07972	-9.21479	5.00E-05	0.00022	yes
Jam3	-2.08018	-7.10335	5.00E-05	0.00022	yes
Ecsr	-2.0828	-3.37171	5.00E-05	0.00022	yes
Gja1	-2.08438	-6.77228	5.00E-05	0.00022	yes
Shmt1	-2.08898	0	1	1	no
Raver2	-2.08957	-0.489504	0.3107	0.440297	no
Rab31	-2.09047	-6.35552	5.00E-05	0.00022	yes
Hrct1	-2.09168	0	1	1	no
Hbegf	-2.09427	-4.23734	5.00E-05	0.00022	yes
Styx11	-2.09607	0	1	1	no
Pde9a	-2.09742	0	1	1	no
Gng11	-2.09904	-3.68368	5.00E-05	0.00022	yes
Apobec2	-2.10037	0	1	1	no
Sez6l	-2.10146	-4.62564	5.00E-05	0.00022	yes
Btnl6	-2.10228	0	1	1	no
Rasd2	-2.1031	-3.92063	5.00E-05	0.00022	yes
Syt3	-2.10337	-5.98521	5.00E-05	0.00022	yes
Naprt1	-2.10447	-2.27227	0.0016	0.005236	yes
Ucp3	-2.10509	0	1	1	no
Kank4	-2.10606	-8.61396	5.00E-05	0.00022	yes
Tnfrsf22	-2.1068	-2.11485	0.0023	0.007205	yes
Cthrc1	-2.10947	-3.54778	5.00E-05	0.00022	yes
Lama4	-2.10984	-7.35671	5.00E-05	0.00022	yes
Setbp1	-2.11096	-3.95324	5.00E-05	0.00022	yes
Cpxm1	-2.11116	-3.96191	5.00E-05	0.00022	yes
Mdga1	-2.11305	-6.50633	5.00E-05	0.00022	yes
Bace2	-2.11542	-4.66242	5.00E-05	0.00022	yes
Sspo	-2.11627	0	1	1	no
Nfam1	-2.11644	0	1	1	no
Tcn2	-2.11654	-5.41575	5.00E-05	0.00022	yes
Creb3l4	-2.11757	0	1	1	no
S100a9	-2.11791	-3.30566	5.00E-05	0.00022	yes
Retsat	-2.11858	-3.27784	5.00E-05	0.00022	yes
Lhfpl1	-2.11872	-6.11601	5.00E-05	0.00022	yes
Ddit4l	-2.11927	0	1	1	no
Slc1a1	-2.11986	-3.54551	5.00E-05	0.00022	yes
Mal	-2.12037	-8.73845	5.00E-05	0.00022	yes
Abi3	-2.12304	0	1	1	no
Abhd11os	-2.12309	-0.755922	0.26485	0.389121	no
F2r	-2.1238	-5.72413	5.00E-05	0.00022	yes
Lrrtm4	-2.12414	-2.57825	5.00E-05	0.00022	yes
Cyp2s1	-2.12442	-2.53528	0.0004	0.001513	yes
Kcnq3	-2.12464	-4.27645	5.00E-05	0.00022	yes

Ptprq	-2.12499	0	1	1	no
Gm6249	-2.12876	0	1	1	no
Rassf4	-2.13061	-7.09752	5.00E-05	0.00022	yes
Prg2	-2.13103	-1.50027	0.0494	0.10114	no
D430041D05Rik	-2.13122	-5.76999	5.00E-05	0.00022	yes
Xkrx	-2.13142	0	1	1	no
Nova1	-2.13206	-3.31528	5.00E-05	0.00022	yes
Cntnap5b	-2.13238	-3.49747	5.00E-05	0.00022	yes
Tspan6	-2.13397	-3.9773	5.00E-05	0.00022	yes
Scn8a	-2.13481	-9.63408	5.00E-05	0.00022	yes
Ppp2r3a	-2.13483	-5.44676	5.00E-05	0.00022	yes
Adh1	-2.13777	-2.0334	0.0052	0.014691	yes
Dusp4	-2.13793	-3.32621	5.00E-05	0.00022	yes
Tyrobp	-2.13828	-2.57345	0.0076	0.02049	yes
Cyp4f18	-2.13916	0	1	1	no
Prtn3	-2.13995	0	1	1	no
Gatsl3	-2.1457	-2.77431	0.00025	0.000985	yes
Tbx15	-2.14572	0	1	1	no
Sapcd2	-2.14714	0	1	1	no
Tesk2	-2.15009	-2.3234	0.00075	0.00267	yes
Sult1a1	-2.15097	-4.08037	5.00E-05	0.00022	yes
Sash1	-2.15135	-6.89997	5.00E-05	0.00022	yes
5930412G12Rik	-2.15202	0	1	1	no
Nrtn	-2.15221	0	1	1	no
Fap	-2.15241	-2.19423	0.00185	0.005939	yes
Hck	-2.1567	0	1	1	no
Clmp	-2.15677	-6.86541	5.00E-05	0.00022	yes
Gramd3	-2.15731	-2.29811	0.00085	0.002983	yes
Gpr141	-2.15886	0	1	1	no
Skor1	-2.15915	0	1	1	no
Ephx3	-2.15918	0	1	1	no
Mertk	-2.16011	-4.15701	5.00E-05	0.00022	yes
Cyp1a1	-2.16211	0	1	1	no
Shpk	-2.16379	-4.95144	5.00E-05	0.00022	yes
Sall1	-2.16485	0	1	1	no
Gm5860	-2.1652	0	1	1	no
Klra21	-2.16876	0	1	1	no
Myh4	-2.16925	0	1	1	no
Clic4	-2.17018	-8.68752	5.00E-05	0.00022	yes
Gpr171	-2.17123	0	1	1	no
Arap2	-2.17278	-7.23191	5.00E-05	0.00022	yes
Apobec1	-2.17377	-2.44219	0.0002	0.000803	yes
Ptpn14	-2.17644	-5.37755	5.00E-05	0.00022	yes
Capg	-2.17895	-4.77514	5.00E-05	0.00022	yes
Ankrd33	-2.18094	0	1	1	no
Lrrc4c	-2.18366	-5.86232	5.00E-05	0.00022	yes
Fhod1	-2.18376	0	1	1	no
Scn4b	-2.18592	-10.3644	5.00E-05	0.00022	yes
Chst9	-2.18617	-1.96225	0.0078	0.020982	yes
AI464131	-2.18814	-5.94032	5.00E-05	0.00022	yes
Pcp4	-2.18837	-13.1744	5.00E-05	0.00022	yes
Plxnb1	-2.18853	-5.69001	5.00E-05	0.00022	yes
Plet1	-2.18859	0	1	1	no

Iqsec1	-2.19001	-9.08329	5.00E-05	0.00022	yes
Clu	-2.19095	-11.0569	5.00E-05	0.00022	yes
Nr1h3	-2.19113	-2.21519	0.00045	0.001682	yes
Gm3086	-2.19289	0	1	1	no
Gm11837	-2.19411	-0.582478	0.39915	0.530933	no
Spaca1	-2.20002	0	1	1	no
Reep6	-2.2001	-0.123802	0.59755	0.711451	no
Vangl1	-2.2007	-3.4975	5.00E-05	0.00022	yes
Phlpp1	-2.20178	-6.1668	5.00E-05	0.00022	yes
Twist2	-2.2028	0	1	1	no
Sgk2	-2.20362	0	1	1	no
35489	-2.20422	0	1	1	no
Slc27a6	-2.2061	0	1	1	no
1700023E05Rik	-2.20734	0	1	1	no
AI197445	-2.20874	0	1	1	no
Zcchc5	-2.20941	0	1	1	no
Rgma	-2.21031	-4.28606	5.00E-05	0.00022	yes
Bmp1	-2.21059	-4.41093	5.00E-05	0.00022	yes
Pon3	-2.213	-2.06686	0.00375	0.011009	yes
Grem2	-2.21325	-3.01372	5.00E-05	0.00022	yes
Cdh15	-2.21579	-4.12034	5.00E-05	0.00022	yes
Tgm4	-2.21674	-2.36465	0.00045	0.001682	yes
Hapln2	-2.21693	0	1	1	no
Wif1	-2.21697	0	1	1	no
Tenm2	-2.21733	-6.03441	5.00E-05	0.00022	yes
Prdm16	-2.21758	-3.56585	5.00E-05	0.00022	yes
C1rl	-2.21928	0	1	1	no
Mchr1	-2.21946	-2.46473	0.00025	0.000985	yes
Ifitm6	-2.21988	0	1	1	no
Syce1	-2.22028	0	1	1	no
Gm3985	-2.22099	0	1	1	no
Tmem47	-2.22156	-9.75448	5.00E-05	0.00022	yes
Gja5	-2.2219	0	1	1	no
Mt1	-2.2228	-9.77247	5.00E-05	0.00022	yes
Rcn3	-2.22387	-5.16785	5.00E-05	0.00022	yes
Sorcs1	-2.225	-6.34047	5.00E-05	0.00022	yes
Scube3	-2.2258	0	1	1	no
Heg1	-2.22629	-5.84835	5.00E-05	0.00022	yes
Col4a4	-2.22719	0	1	1	no
2310030G06Rik	-2.22782	-1.72024	0.02175	0.050597	no
Mmp8	-2.22874	0	1	1	no
Gal3st1	-2.22964	-4.15756	5.00E-05	0.00022	yes
Tnfaip8l1	-2.23019	-2.46966	0.0007	0.002506	yes
Qprt	-2.23039	-2.3413	0.00265	0.008146	yes
1700012D01Rik	-2.23174	0	1	1	no
Ramp3	-2.23206	-1.82582	0.0788	0.148458	no
Chrna7	-2.23243	-7.79312	5.00E-05	0.00022	yes
Igfals	-2.235	0	1	1	no
Shisa7	-2.23507	-3.24966	5.00E-05	0.00022	yes
Mmp9	-2.23561	0	1	1	no
Ust	-2.23678	-8.23489	5.00E-05	0.00022	yes
Tnxb	-2.2373	-5.51425	5.00E-05	0.00022	yes
E330011O21Rik	-2.23952	0	1	1	no

Atp6ap1l	-2.24085	-3.20254	5.00E-05	0.00022	yes
Lrp5	-2.24094	-4.59283	5.00E-05	0.00022	yes
Aoc3	-2.24138	-3.00129	5.00E-05	0.00022	yes
Klhl14	-2.24173	0	1	1	no
Nr4a3	-2.24324	0	1	1	no
Negr1	-2.24369	-6.16119	5.00E-05	0.00022	yes
Tnnt3	-2.24462	0	1	1	no
Rassf6	-2.2447	-2.30183	0.00145	0.004804	yes
Tctex1d1	-2.24618	-0.838038	0.0807	0.151072	no
Foxd2os	-2.24758	0	1	1	no
Itpripl2	-2.25007	-5.87437	5.00E-05	0.00022	yes
BC049352	-2.25237	-1.4956	0.2785	0.404207	no
Rrad	-2.25311	0	1	1	no
Arl11	-2.25332	0	1	1	no
Esr1	-2.25365	-4.6331	5.00E-05	0.00022	yes
Kank2	-2.25546	-5.2415	5.00E-05	0.00022	yes
4930447K03Rik	-2.25583	0	1	1	no
Dbp	-2.25772	-3.74093	5.00E-05	0.00022	yes
Sgk1	-2.25859	-6.58631	5.00E-05	0.00022	yes
Slc2a10	-2.25972	0	1	1	no
Igsf21	-2.26059	-5.65726	5.00E-05	0.00022	yes
Suclg2	-2.26107	-3.30129	5.00E-05	0.00022	yes
1700008O03Rik	-2.26227	0	1	1	no
Wnk3	-2.26338	-4.41121	5.00E-05	0.00022	yes
1110017D15Rik	-2.26362	0	1	1	no
6330410L21Rik	-2.2643	0	1	1	no
Nfix	-2.26493	-5.04361	5.00E-05	0.00022	yes
Kank1	-2.26496	-6.02852	5.00E-05	0.00022	yes
AI848285	-2.26555	0	1	1	no
Gm10658	-2.26586	0	1	1	no
St8sia2	-2.26648	0	1	1	no
Coch	-2.2677	0	1	1	no
Lrfn2	-2.26778	-4.2749	5.00E-05	0.00022	yes
Plekhg2	-2.26813	-4.77097	5.00E-05	0.00022	yes
2210039B01Rik	-2.26888	0	1	1	no
Tmem181c-ps	-2.26989	-3.35238	5.00E-05	0.00022	yes
Htr3a	-2.27723	-8.72836	5.00E-05	0.00022	yes
Gm9866	-2.28041	-3.01096	5.00E-05	0.00022	yes
Rhoj	-2.28202	-4.19368	5.00E-05	0.00022	yes
Aoah	-2.28342	0	1	1	no
Mybph	-2.28947	0	1	1	no
Cyp26c1	-2.28961	0	1	1	no
Athl1	-2.28986	-3.23099	5.00E-05	0.00022	yes
Hfe	-2.2902	-3.16473	5.00E-05	0.00022	yes
Unc80	-2.29162	-9.93692	5.00E-05	0.00022	yes
Pcdha8	-2.29172	0	1	1	no
Olfm2	-2.29313	-4.03179	5.00E-05	0.00022	yes
Vsx1	-2.29329	0	1	1	no
Grid2ip	-2.29486	-3.12216	5.00E-05	0.00022	yes
Lrp4	-2.29554	-4.58999	5.00E-05	0.00022	yes
Adamts6	-2.29581	0	1	1	no
Ptch2	-2.29667	0	1	1	no
Npy5r	-2.29821	0	1	1	no

Mylk	-2.29984	-4.68101	5.00E-05	0.00022	yes
F630028O10Rik	-2.30188	0	1	1	no
Acss3	-2.30516	0	1	1	no
Gsta4	-2.30583	-5.06046	5.00E-05	0.00022	yes
Slco5a1	-2.30593	-7.63038	5.00E-05	0.00022	yes
Ninj2	-2.3086	0	1	1	no
Ldhb	-2.31072	-10.6054	5.00E-05	0.00022	yes
Fgr	-2.31421	0	1	1	no
Dnah2	-2.31487	0	1	1	no
Kcne4	-2.31504	-2.89174	5.00E-05	0.00022	yes
Amhr2	-2.31504	0	1	1	no
Grp	-2.31589	0	1	1	no
Plscr2	-2.31764	-3.54082	5.00E-05	0.00022	yes
Scn1a	-2.32001	-9.96199	5.00E-05	0.00022	yes
Chrm1	-2.32013	0	1	1	no
Tmigd1	-2.32013	0	1	1	no
Lgr4	-2.32039	-8.52974	5.00E-05	0.00022	yes
Rbp1	-2.32083	-3.69249	5.00E-05	0.00022	yes
Gpr158	-2.32107	-10.3015	5.00E-05	0.00022	yes
Chrna3	-2.32108	-5.77257	5.00E-05	0.00022	yes
Cadm4	-2.32192	-9.84787	5.00E-05	0.00022	yes
Emp1	-2.32374	-4.44364	5.00E-05	0.00022	yes
Pxn	-2.32552	-6.26744	5.00E-05	0.00022	yes
Chpt1	-2.32779	-5.32596	5.00E-05	0.00022	yes
Gsap	-2.32905	-4.00754	5.00E-05	0.00022	yes
Il18	-2.32992	-2.625	0.0019	0.00608	yes
Ccdc170	-2.3306	0	1	1	no
Col26a1	-2.33216	-3.00653	5.00E-05	0.00022	yes
Hoxb9	-2.33236	-4.01574	5.00E-05	0.00022	yes
Fam198b	-2.33478	-7.26506	5.00E-05	0.00022	yes
Dcc	-2.33742	0	1	1	no
Gira3	-2.34238	0	1	1	no
Mboat2	-2.34253	-7.06291	5.00E-05	0.00022	yes
Dennd2a	-2.3433	-4.98932	5.00E-05	0.00022	yes
Flt3	-2.3441	-5.99858	5.00E-05	0.00022	yes
Dpep1	-2.34423	0	1	1	no
Nfasc	-2.3452	-10.3159	5.00E-05	0.00022	yes
Fam115c	-2.34705	-3.7574	5.00E-05	0.00022	yes
Hs3st1	-2.34879	-4.48455	5.00E-05	0.00022	yes
Il17rb	-2.34908	0	1	1	no
Fxyd7	-2.35534	-12.0918	5.00E-05	0.00022	yes
Cyp7b1	-2.35809	-3.72133	5.00E-05	0.00022	yes
Grm1	-2.36017	0	1	1	no
Kcnj15	-2.36133	0	1	1	no
D330050G23Rik	-2.36374	-1.58142	0.00455	0.013069	yes
Pla2g4e	-2.36404	0	1	1	no
Abca12	-2.36501	0	1	1	no
Relt	-2.36575	-5.43664	5.00E-05	0.00022	yes
Rapgef11	-2.36616	0	1	1	no
Ntf3	-2.36776	0	1	1	no
Cdc42ep1	-2.37018	-4.51514	5.00E-05	0.00022	yes
Tmco4	-2.37881	-3.19741	5.00E-05	0.00022	yes
Alox5ap	-2.3795	-2.29137	0.0077	0.020742	yes

Tmem163	-2.37961	-6.86467	5.00E-05	0.00022	yes
Pygm	-2.38143	0	1	1	no
Pgr	-2.38251	-4.12344	5.00E-05	0.00022	yes
Olfm3	-2.38377	-3.20033	5.00E-05	0.00022	yes
Rcsd1	-2.38572	-4.51379	5.00E-05	0.00022	yes
Lrrc8e	-2.38605	0	1	1	no
Clec4d	-2.38828	0	1	1	no
Cbln2	-2.38866	-6.99441	5.00E-05	0.00022	yes
Eln	-2.3889	-5.53646	5.00E-05	0.00022	yes
Akr1c13	-2.39077	0	1	1	no
Syt13	-2.39413	-2.96805	5.00E-05	0.00022	yes
Perm1	-2.39497	0	1	1	no
Meox2	-2.39835	-2.28586	0.00225	0.007062	yes
Fgf11	-2.39884	-4.47047	5.00E-05	0.00022	yes
Ciart	-2.39912	-1.87917	0.01475	0.036326	yes
Cpxm2	-2.40567	-3.47519	5.00E-05	0.00022	yes
Rad21l	-2.40801	0	1	1	no
Wnt5b	-2.41031	0	1	1	no
Smoc1	-2.4122	-4.34537	5.00E-05	0.00022	yes
Sowahb	-2.41223	0	1	1	no
Kazald1	-2.41234	-3.70804	5.00E-05	0.00022	yes
Fzd8	-2.41283	-4.37167	5.00E-05	0.00022	yes
Ociad2	-2.41387	-3.47483	5.00E-05	0.00022	yes
Anxa1	-2.41506	-3.90335	5.00E-05	0.00022	yes
Gabrb2	-2.4167	-6.46493	5.00E-05	0.00022	yes
Acot4	-2.41825	0	1	1	no
Ppap2b	-2.4199	-8.97234	5.00E-05	0.00022	yes
Lbp	-2.4215	-4.53337	5.00E-05	0.00022	yes
Cacna2d4	-2.4261	0	1	1	no
Kcnc3	-2.42831	-9.432	5.00E-05	0.00022	yes
Fgfr1	-2.42945	-10.3281	5.00E-05	0.00022	yes
Cpne6	-2.43047	-10.5227	5.00E-05	0.00022	yes
Fam178b	-2.43085	-5.14558	5.00E-05	0.00022	yes
Akr1b10	-2.43226	-3.02465	0.0002	0.000803	yes
Pik3r5	-2.43243	-2.71206	0.0002	0.000803	yes
Capn6	-2.43384	-2.39127	0.0007	0.002506	yes
Cox4i2	-2.43533	-0.633349	0.29375	0.421408	no
Ppargc1a	-2.43722	-6.24597	5.00E-05	0.00022	yes
Batf	-2.438	0	1	1	no
Plbd1	-2.43882	-2.08056	0.00575	0.016057	yes
Rab34	-2.44107	-3.56758	5.00E-05	0.00022	yes
Fn1	-2.44113	-7.55966	5.00E-05	0.00022	yes
Adra1b	-2.44183	0	1	1	no
Pcdh9	-2.44275	-8.93853	5.00E-05	0.00022	yes
Gatm	-2.44809	-11.091	5.00E-05	0.00022	yes
C130060K24Rik	-2.45024	0	1	1	no
Gpr124	-2.4506	-5.36684	5.00E-05	0.00022	yes
Samd4	-2.45218	-4.83512	5.00E-05	0.00022	yes
Lynx1	-2.45342	-11.5027	5.00E-05	0.00022	yes
Mcf2	-2.4543	-3.09815	5.00E-05	0.00022	yes
Tlr3	-2.45624	-3.92105	5.00E-05	0.00022	yes
Kcnc1	-2.45648	-8.4267	5.00E-05	0.00022	yes
Ankrd35	-2.45787	-4.42308	5.00E-05	0.00022	yes

Zfp750	-2.45854	0	1	1	no
9430041J12Rik	-2.45982	0	1	1	no
Chst2	-2.4605	-8.13831	5.00E-05	0.00022	yes
Sec14I5	-2.46265	-2.62197	0.00035	0.001342	yes
Lamc3	-2.46405	-3.72297	5.00E-05	0.00022	yes
Lcp2	-2.46452	-2.75584	0.00015	0.000615	yes
2410018L13Rik	-2.46468	-2.1028	0.00685	0.018707	yes
Inpp4b	-2.46696	0	1	1	no
Fam181b	-2.468	-4.7863	5.00E-05	0.00022	yes
Fads6	-2.4687	-4.92139	5.00E-05	0.00022	yes
Efna3	-2.46919	-2.35222	0.0035	0.01036	yes
BC026585	-2.4705	-2.47543	0.0017	0.005514	yes
Ddc	-2.4705	0	1	1	no
Il5ra	-2.47157	0	1	1	no
Rfx8	-2.47159	0	1	1	no
Dcaf12l2	-2.47309	0	1	1	no
Slc22a3	-2.47458	0	1	1	no
Nr2f2	-2.47551	-7.13758	5.00E-05	0.00022	yes
Creb5	-2.4764	-2.8146	0.00015	0.000615	yes
Mfap2	-2.47685	-1.56548	0.0894	0.163596	no
Wfdc6b	-2.47795	0	1	1	no
Ptprj	-2.4785	-4.83157	5.00E-05	0.00022	yes
Gm5607	-2.47893	0	1	1	no
Asb18	-2.47968	0	1	1	no
Trib1	-2.48046	-4.80095	5.00E-05	0.00022	yes
Klhl13	-2.48142	-6.05716	5.00E-05	0.00022	yes
Wfdc1	-2.48169	-2.62016	0.00155	0.005095	yes
Fbn1	-2.48322	-6.80457	5.00E-05	0.00022	yes
Syndig1	-2.48728	-3.6694	5.00E-05	0.00022	yes
Prex2	-2.48864	-6.3406	5.00E-05	0.00022	yes
Pard3	-2.48956	-5.18971	5.00E-05	0.00022	yes
Clec11a	-2.4918	-2.11848	0.0046	0.013192	yes
Gstk1	-2.49233	-4.0236	5.00E-05	0.00022	yes
Gfpt2	-2.49262	-2.37855	0.0011	0.00376	yes
AA467197	-2.49534	0	1	1	no
Vwc2l	-2.49664	-4.84128	5.00E-05	0.00022	yes
Lrrc17	-2.49847	-2.06356	0.1267	0.218359	no
Alox15	-2.49997	0	1	1	no
Hpd1	-2.50027	-2.3367	0.002	0.006363	yes
Fam69c	-2.50199	0	1	1	no
Epb4.1l4b	-2.5038	-5.39716	5.00E-05	0.00022	yes
4930502E18Rik	-2.50388	-2.01687	0.01195	0.030273	yes
Sulf2	-2.50502	-7.82299	5.00E-05	0.00022	yes
Glyat	-2.50601	0	1	1	no
Vit	-2.50716	-3.70285	5.00E-05	0.00022	yes
Fhod3	-2.50962	-3.0409	5.00E-05	0.00022	yes
Fam83f	-2.5103	-2.57345	0.0002	0.000803	yes
G0s2	-2.51106	-4.05155	5.00E-05	0.00022	yes
Gsn	-2.51198	-10.586	5.00E-05	0.00022	yes
Parp3	-2.51238	-4.76479	5.00E-05	0.00022	yes
Fam196a	-2.51274	0	1	1	no
Astn2	-2.51382	-4.40526	5.00E-05	0.00022	yes
Lctl	-2.51437	-1.26499	0.15665	0.258911	no

Cd33	-2.51486	0	1	1	no
Corin	-2.51525	0	1	1	no
B3galt5	-2.51609	-6.59715	5.00E-05	0.00022	yes
2010107G12Rik	-2.51854	0	1	1	no
Cgnl1	-2.52417	-10.1608	5.00E-05	0.00022	yes
Ptgis	-2.52531	-3.02532	0.0002	0.000803	yes
Fstl5	-2.52676	-7.40526	5.00E-05	0.00022	yes
Gucy1a3	-2.52681	-3.49925	5.00E-05	0.00022	yes
Nr4a1	-2.52892	-8.53377	5.00E-05	0.00022	yes
Fkbp11	-2.52894	0	1	1	no
Lct	-2.52955	0	1	1	no
Smtnl1	-2.52978	0	1	1	no
Pacsin3	-2.52997	-3.77267	5.00E-05	0.00022	yes
Gal3st4	-2.53254	0	1	1	no
Col4a1	-2.53327	-9.79307	5.00E-05	0.00022	yes
Gm1715	-2.53675	0	1	1	no
Thrsp	-2.53826	-5.04084	5.00E-05	0.00022	yes
Cxcr4	-2.54017	-5.90931	5.00E-05	0.00022	yes
4930505A04Rik	-2.54253	0	1	1	no
Dock1	-2.54301	-5.93565	5.00E-05	0.00022	yes
C1qtnf3	-2.54447	0	1	1	no
Wisp1	-2.54476	-3.81765	5.00E-05	0.00022	yes
Kcng4	-2.54499	-5.20423	5.00E-05	0.00022	yes
Ces4a	-2.54591	0	1	1	no
Glb1l3	-2.54594	0	1	1	no
Kbtbd13	-2.54705	0	1	1	no
Gprc5b	-2.55165	-6.09037	5.00E-05	0.00022	yes
Tomt	-2.55222	0	1	1	no
Lhfp	-2.55283	-7.37575	5.00E-05	0.00022	yes
Plekha7	-2.55394	-4.27757	5.00E-05	0.00022	yes
CK137956	-2.55401	-2.34391	0.0019	0.00608	yes
Mc4r	-2.55454	0	1	1	no
Pygo1	-2.55561	-2.91413	5.00E-05	0.00022	yes
Kcnk1	-2.5584	-9.3141	5.00E-05	0.00022	yes
Smpd2	-2.55999	-4.0054	5.00E-05	0.00022	yes
Rbpjl	-2.56024	0	1	1	no
Caskin2	-2.56122	-6.84319	5.00E-05	0.00022	yes
Sema3g	-2.56552	-6.67311	5.00E-05	0.00022	yes
Ddn	-2.56739	-4.90773	5.00E-05	0.00022	yes
Pld6	-2.56809	0	1	1	no
Sox5	-2.57189	-3.08121	5.00E-05	0.00022	yes
Igdcc4	-2.57226	-4.99811	5.00E-05	0.00022	yes
Dhrs3	-2.57265	-3.41161	5.00E-05	0.00022	yes
Slmo1	-2.57268	-3.87652	5.00E-05	0.00022	yes
Dio2	-2.5729	0	1	1	no
S100a16	-2.57379	-7.21677	5.00E-05	0.00022	yes
Renbp	-2.57416	-1.90216	0.07155	0.137513	no
Asb15	-2.57494	0	1	1	no
Cp	-2.57517	-2.94288	0.0001	0.000422	yes
Ccr2	-2.57767	-2.71126	5.00E-05	0.00022	yes
Gpx8	-2.57887	-4.17414	5.00E-05	0.00022	yes
Asb5	-2.57887	0	1	1	no
Stk32b	-2.58024	0	1	1	no

Ttc18	-2.58523	0	1	1	no
Sipa1l2	-2.58542	-6.80037	5.00E-05	0.00022	yes
Fhl3	-2.59331	-2.93729	0.00015	0.000615	yes
Sik3	-2.59347	-6.09938	5.00E-05	0.00022	yes
Nfkb2	-2.59855	-1.99823	0.0042	0.012158	yes
Gng7	-2.6015	-4.85353	5.00E-05	0.00022	yes
Pth1r	-2.60414	-5.60238	5.00E-05	0.00022	yes
Lrrc7	-2.60566	0	1	1	no
Pon2	-2.60661	-6.66655	5.00E-05	0.00022	yes
Lamc1	-2.61089	-9.75328	5.00E-05	0.00022	yes
Gm10941	-2.61166	0	1	1	no
Mdh1b	-2.61286	0	1	1	no
Cdh3	-2.61287	-2.84976	5.00E-05	0.00022	yes
Mael	-2.61374	0	1	1	no
Htra1	-2.6144	-10.6392	5.00E-05	0.00022	yes
Pcdhac1	-2.61571	-2.1019	0.00105	0.003607	yes
Csmd3	-2.61637	0	1	1	no
Ednra	-2.62311	-4.21679	5.00E-05	0.00022	yes
Chp2	-2.62449	-7.19816	5.00E-05	0.00022	yes
Caln1	-2.62452	-4.03164	5.00E-05	0.00022	yes
Sema5b	-2.62521	-3.82086	5.00E-05	0.00022	yes
Mmp28	-2.62539	-3.24776	5.00E-05	0.00022	yes
Slc43a3	-2.62754	-7.38402	5.00E-05	0.00022	yes
Tox	-2.62811	-3.3404	5.00E-05	0.00022	yes
Mir143hg	-2.62925	0	1	1	no
Tmem196	-2.63695	-3.09413	0.00015	0.000615	yes
Dag1	-2.63701	-11.2806	5.00E-05	0.00022	yes
Rsph9	-2.63793	-3.8879	5.00E-05	0.00022	yes
4933424G06Rik	-2.63829	0	1	1	no
Btnl5-ps	-2.63844	0	1	1	no
Alox5	-2.64153	0	1	1	no
Atp10b	-2.64244	0	1	1	no
Cd86	-2.64245	0	1	1	no
Angpt1	-2.64353	-3.27135	5.00E-05	0.00022	yes
Tnfsf13	-2.64411	-1.53146	0.0666	0.129558	no
Bmp7	-2.64596	-3.42701	5.00E-05	0.00022	yes
Sepp1	-2.64855	-11.0834	5.00E-05	0.00022	yes
Il1f9	-2.64881	0	1	1	no
Lonrf3	-2.64997	0	1	1	no
Rhod	-2.65453	0	1	1	no
1810014B01Rik	-2.65608	0	1	1	no
Rbms2	-2.65736	-5.5054	5.00E-05	0.00022	yes
Foxo1	-2.65755	-6.51828	5.00E-05	0.00022	yes
Baiap2l1	-2.65803	-4.955	5.00E-05	0.00022	yes
Epn3	-2.65967	-8.30678	5.00E-05	0.00022	yes
D630003M21Rik	-2.65973	-3.28361	5.00E-05	0.00022	yes
Slc25a13	-2.66135	-2.9141	5.00E-05	0.00022	yes
Syt1l	-2.66162	0	1	1	no
Myadml2	-2.6629	-3.05309	5.00E-05	0.00022	yes
38595	-2.66302	-7.67621	5.00E-05	0.00022	yes
Crybb1	-2.66342	-2.874	0.00155	0.005095	yes
Zfp395	-2.6645	-3.90131	5.00E-05	0.00022	yes
Asgr1	-2.66551	0	1	1	no

Sec1414	-2.66744	0	1	1	no
Fbxw10	-2.66955	0	1	1	no
6530402F18Rik	-2.67005	-4.62711	5.00E-05	0.00022	yes
Cuzd1	-2.67042	0	1	1	no
Pxdc1	-2.67044	-4.07834	5.00E-05	0.00022	yes
2810468N07Rik	-2.67054	-3.3835	5.00E-05	0.00022	yes
Gas2l3	-2.67104	-6.98641	5.00E-05	0.00022	yes
Pcdh18	-2.67139	-4.54171	5.00E-05	0.00022	yes
Fam160a1	-2.67369	0	1	1	no
Epha3	-2.67381	0	1	1	no
Zbtb16	-2.67405	-4.3362	5.00E-05	0.00022	yes
Snai2	-2.67592	0	1	1	no
Trappc3l	-2.67621	-7.27822	5.00E-05	0.00022	yes
Opn1mw	-2.67824	0	1	1	no
Lingo4	-2.68004	-4.06574	5.00E-05	0.00022	yes
Nfatc4	-2.68273	0	1	1	no
Gm5643	-2.68276	-1.41615	0.06425	0.125575	no
Plac9b	-2.68702	0	1	1	no
Vim	-2.68873	-13.2708	5.00E-05	0.00022	yes
Atp6v0a4	-2.68897	0	1	1	no
Ncam2	-2.68933	-6.52068	5.00E-05	0.00022	yes
Syt12	-2.69166	-5.03774	5.00E-05	0.00022	yes
Gc	-2.69673	0	1	1	no
Cmtm3	-2.69747	-3.98014	5.00E-05	0.00022	yes
Rell1	-2.69978	-5.8888	5.00E-05	0.00022	yes
Lrrn2	-2.70234	-6.57786	5.00E-05	0.00022	yes
Mrc1	-2.70248	-4.00901	5.00E-05	0.00022	yes
Osgin1	-2.70488	-2.19283	0.0055	0.015427	yes
Tmem229b	-2.70618	-11.081	5.00E-05	0.00022	yes
Fcer1g	-2.70774	-2.34214	0.0162	0.039385	yes
Me3	-2.7098	-3.74977	5.00E-05	0.00022	yes
Gm13749	-2.71198	0	1	1	no
Pxylp1	-2.71245	-2.51465	0.0001	0.000422	yes
4933425L06Rik	-2.71267	0	1	1	no
Mlip	-2.71723	-5.1907	5.00E-05	0.00022	yes
Rgcc	-2.71964	-7.06743	5.00E-05	0.00022	yes
Etnppl	-2.71964	0	1	1	no
Dmgdh	-2.72028	0	1	1	no
Wee1	-2.72223	-4.92515	5.00E-05	0.00022	yes
Rhbdl3	-2.72239	-5.74092	5.00E-05	0.00022	yes
E030011O05Rik	-2.72265	-0.910981	0.19655	0.309401	no
Dlg2	-2.72284	-8.92634	5.00E-05	0.00022	yes
Macc1	-2.7253	0	1	1	no
Adamtsl5	-2.72996	-0.289306	0.4892	0.616765	no
Clmn	-2.73499	-5.3915	5.00E-05	0.00022	yes
Yipf7	-2.73576	0	1	1	no
Irs1	-2.73647	-5.30118	5.00E-05	0.00022	yes
Tmem98	-2.73721	-3.54304	5.00E-05	0.00022	yes
Add3	-2.73726	-8.35062	5.00E-05	0.00022	yes
Myo5c	-2.73783	0	1	1	no
Drp2	-2.73978	-11.0193	5.00E-05	0.00022	yes
Smr2	-2.74408	-2.95938	5.00E-05	0.00022	yes
Wwtr1	-2.74484	-6.58083	5.00E-05	0.00022	yes

Casq1	-2.74696	0	1	1	no
Fat1	-2.74787	-9.05839	5.00E-05	0.00022	yes
Tlr13	-2.74887	0	1	1	no
Ppic	-2.74907	-3.79325	5.00E-05	0.00022	yes
Mas1	-2.7492	0	1	1	no
Sp9	-2.75056	0	1	1	no
Cdc42bpg	-2.7515	-3.52077	5.00E-05	0.00022	yes
Kank4os	-2.75625	0	1	1	no
Iffo2	-2.75801	-5.15103	5.00E-05	0.00022	yes
Klhl34	-2.75934	0	1	1	no
Aqp3	-2.76086	0	1	1	no
Arc	-2.76161	-3.90368	5.00E-05	0.00022	yes
Nfia	-2.76466	-9.92176	5.00E-05	0.00022	yes
Fam212b	-2.76805	-6.5862	5.00E-05	0.00022	yes
Gm11413	-2.77129	0	1	1	no
Hyal1	-2.77215	-2.41194	0.00125	0.00422	yes
F9	-2.77267	-2.98201	0.00015	0.000615	yes
Sucnr1	-2.77352	0	1	1	no
Cbln3	-2.77413	0	1	1	no
Slc5a9	-2.77521	0	1	1	no
Fgf10	-2.77657	0	1	1	no
Pla2g4a	-2.77679	-2.45041	0.00125	0.00422	yes
Proca1	-2.77811	0	1	1	no
Ppp1r9a	-2.7786	-8.61399	5.00E-05	0.00022	yes
Hoxb8	-2.77952	-4.89201	5.00E-05	0.00022	yes
Runx3	-2.77988	-4.72604	5.00E-05	0.00022	yes
Fam19a1	-2.78161	-6.28894	5.00E-05	0.00022	yes
Sipa1l1	-2.7834	-7.43391	5.00E-05	0.00022	yes
Clec4a1	-2.78461	0	1	1	no
Cxcl14	-2.78578	0	1	1	no
Mpzl2	-2.78696	0	1	1	no
Susd3	-2.78741	0	1	1	no
Pla2g16	-2.78756	-8.21672	5.00E-05	0.00022	yes
Glt8d2	-2.78813	-1.55447	0.06535	0.127481	no
Hic1	-2.78833	-2.29121	0.04	0.084557	no
Thy1	-2.78837	-13.7786	5.00E-05	0.00022	yes
Dbi	-2.79648	-9.42924	5.00E-05	0.00022	yes
B430212C06Rik	-2.79847	0	1	1	no
Edn3	-2.80078	0	1	1	no
Nipal1	-2.8019	0	1	1	no
S100b	-2.80215	-13.9124	5.00E-05	0.00022	yes
Cmklr1	-2.80482	0	1	1	no
Frem2	-2.80754	-4.2773	5.00E-05	0.00022	yes
Ptchd4	-2.80787	0	1	1	no
Htr6	-2.80872	0	1	1	no
Calb1	-2.80944	-8.89015	5.00E-05	0.00022	yes
9130019P16Rik	-2.81113	0	1	1	no
Has2	-2.81712	0	1	1	no
Smtn	-2.82111	-6.72706	5.00E-05	0.00022	yes
Snx33	-2.82247	-3.85186	5.00E-05	0.00022	yes
Hspb2	-2.83271	-2.04606	0.0145	0.03579	yes
Nkpd1	-2.83272	0	1	1	no
Grik3	-2.83296	-6.67972	5.00E-05	0.00022	yes

Esrrb	-2.83625	-3.94437	5.00E-05	0.00022	yes
Rad51ap2	-2.83875	0	1	1	no
Ramp1	-2.83916	0	1	1	no
Yap1	-2.84123	-6.45056	5.00E-05	0.00022	yes
Galm	-2.8424	-5.90044	5.00E-05	0.00022	yes
Sox9	-2.84277	0	1	1	no
Myrf1	-2.84306	0	1	1	no
Col6a1	-2.84496	-6.29799	5.00E-05	0.00022	yes
Tnfrsf23	-2.84632	0	1	1	no
Fam135b	-2.84725	0	1	1	no
Tspan11	-2.84746	-3.1184	0.0001	0.000422	yes
Tcf7l2	-2.85056	-3.31259	5.00E-05	0.00022	yes
Cdh22	-2.85194	0	1	1	no
Grm4	-2.8523	-6.74144	5.00E-05	0.00022	yes
Mrv1	-2.85443	-4.04228	5.00E-05	0.00022	yes
Plcx1	-2.85658	0	1	1	no
Tnfrsf25	-2.86014	-2.28482	0.00705	0.019182	yes
1700007K13Rik	-2.86293	0	1	1	no
493052004Rik	-2.86327	0	1	1	no
Arhgap19	-2.86441	-7.96083	5.00E-05	0.00022	yes
Sfrp4	-2.86512	-6.28014	5.00E-05	0.00022	yes
Ptx3	-2.86762	0	1	1	no
Ntng2	-2.87222	-6.25953	5.00E-05	0.00022	yes
Sparcl1	-2.87361	-12.9922	5.00E-05	0.00022	yes
Col5a1	-2.8799	-6.92296	5.00E-05	0.00022	yes
Cabp7	-2.88095	-4.87738	5.00E-05	0.00022	yes
Foxc2	-2.88205	-2.42039	0.0017	0.005514	yes
Faim2	-2.88383	-11.5107	5.00E-05	0.00022	yes
Padi2	-2.88641	-3.51981	5.00E-05	0.00022	yes
Glt2d2	-2.88677	0	1	1	no
Ndufa4l2	-2.88827	-0.984626	0.15145	0.252011	no
Iyd	-2.88891	0	1	1	no
Clec2l	-2.89168	-12.2669	5.00E-05	0.00022	yes
Loxl3	-2.89197	-1.72806	0.02545	0.057776	no
Cdc42ep5	-2.89324	-2.6254	0.0058	0.016179	yes
Cxcl9	-2.89456	0	1	1	no
1500012K07Rik	-2.89496	-0.600251	0.2714	0.396287	no
Zpld1	-2.89496	0	1	1	no
Pabpc4l	-2.89526	0	1	1	no
Cela1	-2.89549	-4.89713	5.00E-05	0.00022	yes
Chdh	-2.90306	-2.57694	0.00355	0.010494	yes
Scube1	-2.90357	-4.07808	5.00E-05	0.00022	yes
Syde1	-2.90414	-5.28622	5.00E-05	0.00022	yes
Sfmbt2	-2.90486	0	1	1	no
Col23a1	-2.90842	-6.93311	5.00E-05	0.00022	yes
Olfml2b	-2.90983	-6.91581	5.00E-05	0.00022	yes
Plip	-2.91024	-8.33207	5.00E-05	0.00022	yes
Rasgrp2	-2.91068	-3.16339	0.00015	0.000615	yes
Celsr1	-2.91126	-5.45137	5.00E-05	0.00022	yes
Rhpn1	-2.91638	-2.84542	0.14965	0.249517	no
Rasgrf2	-2.91657	-8.05245	5.00E-05	0.00022	yes
2610027K06Rik	-2.9166	0	1	1	no
C1ql3	-2.91714	-3.80769	5.00E-05	0.00022	yes

Frrs1l	-2.91992	-7.79125	5.00E-05	0.00022	yes
Stard8	-2.92183	-5.73076	5.00E-05	0.00022	yes
Plxdc2	-2.92554	-7.88375	5.00E-05	0.00022	yes
Bmp2	-2.9272	0	1	1	no
Tmem108	-2.92721	-4.80907	5.00E-05	0.00022	yes
C1ra	-2.92746	-2.64939	0.0008	0.002828	yes
Dnali1	-2.92772	0	1	1	no
Fbn2	-2.9293	0	1	1	no
Adm	-2.93252	-2.27516	0.0089	0.023488	yes
Impg1	-2.93469	0	1	1	no
Ckm	-2.93525	0	1	1	no
Bdh2	-2.93528	-1.32341	0.24165	0.363324	no
Rufy4	-2.93962	0	1	1	no
Grid2	-2.94021	-3.97277	5.00E-05	0.00022	yes
Hoga1	-2.9429	0	1	1	no
Rassf8	-2.94586	-4.19281	5.00E-05	0.00022	yes
Ly6g6f	-2.94711	0	1	1	no
Serpinh1	-2.94729	-8.45663	5.00E-05	0.00022	yes
Tacr3	-2.9474	0	1	1	no
Dmd	-2.94837	-8.98965	5.00E-05	0.00022	yes
E130310I04Rik	-2.94847	0	1	1	no
Dusp27	-2.94897	0	1	1	no
Usp2	-2.9493	-4.75262	5.00E-05	0.00022	yes
Myl3	-2.95328	0	1	1	no
Slc36a2	-2.95413	-5.28829	5.00E-05	0.00022	yes
Cyp2j9	-2.95626	-6.82002	5.00E-05	0.00022	yes
Prg4	-2.95747	-0.723942	0.174	0.281279	no
Onecut1	-2.95764	-2.89204	0.00055	0.002016	yes
Ajuba	-2.95808	-3.20955	5.00E-05	0.00022	yes
A730043L09Rik	-2.95823	0	1	1	no
Cmya5	-2.96033	0	1	1	no
Cdk6	-2.96193	-3.24286	5.00E-05	0.00022	yes
Gm3716	-2.96204	0	1	1	no
Tram2	-2.96221	0	1	1	no
Lrrc9	-2.96261	0	1	1	no
Inhbb	-2.96552	-4.71105	5.00E-05	0.00022	yes
5430421F17Rik	-2.96572	0	1	1	no
Hspg2	-2.96607	-11.1795	5.00E-05	0.00022	yes
Fam64a	-2.96927	0	1	1	no
BC049715	-2.9704	0	1	1	no
Casp12	-2.97252	-4.84135	5.00E-05	0.00022	yes
Egln3	-2.97323	-4.06406	5.00E-05	0.00022	yes
Krt9	-2.97562	0	1	1	no
Nefh	-2.97746	-8.57513	5.00E-05	0.00022	yes
Tmem178	-2.98095	-3.0743	5.00E-05	0.00022	yes
Meis2	-2.98474	-6.45566	5.00E-05	0.00022	yes
Hspb7	-2.99144	0	1	1	no
Pde5a	-2.99326	-3.75881	5.00E-05	0.00022	yes
Chadl	-2.99373	-3.27238	5.00E-05	0.00022	yes
Slitrk1	-3.00507	-7.99635	5.00E-05	0.00022	yes
Sh3pxd2b	-3.01204	-9.56577	5.00E-05	0.00022	yes
Cyp39a1	-3.01288	-5.15614	5.00E-05	0.00022	yes
Alox8	-3.01354	0	1	1	no

Anpep	-3.0139	-3.65284	5.00E-05	0.00022	yes
Ecm2	-3.01392	-2.00449	0.0002	0.000803	yes
Abcc3	-3.01524	0	1	1	no
Timp3	-3.01526	-5.93736	5.00E-05	0.00022	yes
Angptl4	-3.01554	-5.31903	5.00E-05	0.00022	yes
Gjb6	-3.01556	-1.82031	0.23815	0.359283	no
Vwa1	-3.01702	-9.97422	5.00E-05	0.00022	yes
Itgb4	-3.0179	-4.73691	5.00E-05	0.00022	yes
Efnb3	-3.01965	-2.93648	0.0003	0.001164	yes
Fcgr3	-3.02093	-2.62303	0.00285	0.008668	yes
Calr4	-3.02265	-1.54089	0.03235	0.070741	no
Rab38	-3.02384	-2.3917	0.00635	0.017515	yes
Mpo	-3.0254	0	1	1	no
Eda	-3.03022	-4.16153	5.00E-05	0.00022	yes
H2-M11	-3.03206	0	1	1	no
Asap2	-3.03625	-3.12967	5.00E-05	0.00022	yes
Matn2	-3.0402	-9.92075	5.00E-05	0.00022	yes
Chodl	-3.04089	-2.44435	0.0031	0.009315	yes
Pik3c2g	-3.04092	0	1	1	no
Kcna1	-3.04102	-13.4334	5.00E-05	0.00022	yes
Npr3	-3.04108	0	1	1	no
Lilrb4	-3.04318	0	1	1	no
Nms	-3.04448	0	1	1	no
Abca8b	-3.04633	-9.3374	5.00E-05	0.00022	yes
Pnmal2	-3.04912	-7.87226	5.00E-05	0.00022	yes
C5ar1	-3.04923	0	1	1	no
Zeb2os	-3.05165	-0.991699	0.0517	0.104975	no
Crhr1	-3.05721	-2.58097	0.00145	0.004804	yes
Rerg	-3.05744	-2.00665	0.1625	0.266521	no
Exoc3l4	-3.0639	0	1	1	no
Bhlhe22	-3.06417	0	1	1	no
Grhpr	-3.0689	-4.38498	5.00E-05	0.00022	yes
Hao1	-3.06964	0	1	1	no
Acacb	-3.07042	-5.01004	5.00E-05	0.00022	yes
Fcgrt	-3.07081	-6.99142	5.00E-05	0.00022	yes
P2ry13	-3.07115	0	1	1	no
Mdfic	-3.07194	-4.71548	5.00E-05	0.00022	yes
Rarb	-3.07272	-3.35712	5.00E-05	0.00022	yes
Slc38a4	-3.07392	0	1	1	no
Tbc1d8b	-3.07436	-5.34719	5.00E-05	0.00022	yes
Bai2	-3.07481	-5.20544	5.00E-05	0.00022	yes
Ccl22	-3.07676	0	1	1	no
Sema3d	-3.07717	-5.37313	5.00E-05	0.00022	yes
Cap2	-3.0815	-4.86328	5.00E-05	0.00022	yes
Egr3	-3.08218	-5.0921	5.00E-05	0.00022	yes
Aqp4	-3.08362	-5.27895	5.00E-05	0.00022	yes
P2rx7	-3.08475	-3.98966	5.00E-05	0.00022	yes
Fgf4	-3.086	0	1	1	no
Nes	-3.08601	-7.7142	5.00E-05	0.00022	yes
Aldh1l1	-3.08712	-4.37279	5.00E-05	0.00022	yes
Neb	-3.09034	0	1	1	no
Prkag3	-3.09857	0	1	1	no
Rasl10b	-3.09908	-9.1656	5.00E-05	0.00022	yes

Ankrd34c	-3.10272	-4.73759	5.00E-05	0.00022	yes
Coro6	-3.10408	-4.59851	5.00E-05	0.00022	yes
Gulp1	-3.10466	-5.71084	5.00E-05	0.00022	yes
Ankrd34b	-3.11046	-3.77992	5.00E-05	0.00022	yes
Dleu2	-3.11078	0	1	1	no
C3	-3.11304	-3.33157	0.01905	0.045164	yes
Akap3	-3.11396	0	1	1	no
Mgst1	-3.11761	-5.79676	5.00E-05	0.00022	yes
Fbxo24	-3.11857	0	1	1	no
4932412D23Rik	-3.11871	0	1	1	no
Nrl	-3.12082	0	1	1	no
Tmem232	-3.121	0	1	1	no
Ryr2	-3.12159	-10.7176	5.00E-05	0.00022	yes
Serpinb3a	-3.12526	0	1	1	no
Aox4	-3.12546	-3.91079	5.00E-05	0.00022	yes
Lgi2	-3.12572	-7.50332	5.00E-05	0.00022	yes
3632454L22Rik	-3.1321	0	1	1	no
Fam26d	-3.13547	-2.52722	0.0047	0.013433	yes
Ntn1	-3.13782	-4.84705	5.00E-05	0.00022	yes
Gm19522	-3.13891	0	1	1	no
Shox2	-3.14606	-4.17596	5.00E-05	0.00022	yes
Vsnl1	-3.14758	-12.5333	5.00E-05	0.00022	yes
Mrc2	-3.14774	-4.53183	5.00E-05	0.00022	yes
Cyp2d22	-3.14982	-5.22302	5.00E-05	0.00022	yes
Scara3	-3.15018	-5.45299	5.00E-05	0.00022	yes
Gpc4	-3.15039	-4.29902	5.00E-05	0.00022	yes
Chad	-3.15483	-2.28175	0.0019	0.00608	yes
Myo3b	-3.15695	0	1	1	no
Syna	-3.16177	-2.51317	0.0024	0.00748	yes
H2-Ab1	-3.16444	-5.32913	5.00E-05	0.00022	yes
E130114P18Rik	-3.16797	-1.31528	0.0975	0.175919	no
Itgb2l	-3.16834	0	1	1	no
Tagln	-3.16933	-1.79131	0.0182	0.043483	yes
Trp53cor1	-3.17264	0	1	1	no
Fut9	-3.17394	0	1	1	no
Gpr152	-3.17396	0	1	1	no
Dnaic2	-3.17408	-1.58717	0.0388	0.082348	no
Syt17	-3.17479	0	1	1	no
Sh3rf3	-3.17589	-3.19091	0.0001	0.000422	yes
Ppara	-3.17635	-3.02122	0.0261	0.059	no
Pls1	-3.17914	-7.32123	5.00E-05	0.00022	yes
Jag1	-3.17989	-7.21433	5.00E-05	0.00022	yes
Gm6416	-3.18094	0	1	1	no
P2rx6	-3.18095	-6.44493	5.00E-05	0.00022	yes
E130006D01Rik	-3.18288	0	1	1	no
Xntrpc	-3.18296	0	1	1	no
8030423F21Rik	-3.18504	0	1	1	no
Col22a1	-3.18585	0	1	1	no
Cntf	-3.18631	-2.20498	0.0177	0.042472	yes
Sh3bgr	-3.19127	-6.63776	5.00E-05	0.00022	yes
Myh1	-3.19142	0	1	1	no
Metrn1	-3.19536	-5.0145	5.00E-05	0.00022	yes
Cdkn2a	-3.19908	0	1	1	no

Pdzd2	-3.19975	-10.6357	5.00E-05	0.00022	yes
Plscr4	-3.20025	-5.57056	5.00E-05	0.00022	yes
Ctsk	-3.20873	-4.61689	5.00E-05	0.00022	yes
Zic4	-3.20913	0	1	1	no
Ddr2	-3.20936	-5.10387	5.00E-05	0.00022	yes
Mmp19	-3.21322	0	1	1	no
Pbxip1	-3.21703	-6.71929	5.00E-05	0.00022	yes
Gpam	-3.21871	-9.548	5.00E-05	0.00022	yes
Pthlh	-3.21875	-3.01447	0.0006	0.002181	yes
Fam19a2	-3.22387	-9.36291	5.00E-05	0.00022	yes
Mr1	-3.22421	-4.12332	5.00E-05	0.00022	yes
Antxr1	-3.22514	-7.21489	5.00E-05	0.00022	yes
Aebp1	-3.22773	-3.30466	0.0004	0.001513	yes
Ston1	-3.2288	-6.22921	5.00E-05	0.00022	yes
Duxbl2	-3.23028	0	1	1	no
Ccbe1	-3.23066	0	1	1	no
Krt79	-3.23111	0	1	1	no
Rassf2	-3.23181	-5.49299	5.00E-05	0.00022	yes
Tcf7l1	-3.23296	-3.99914	5.00E-05	0.00022	yes
Bcat1	-3.23707	-10.342	5.00E-05	0.00022	yes
Piwil4	-3.23758	0	1	1	no
Fgf9	-3.23792	-6.72499	5.00E-05	0.00022	yes
Gm12522	-3.23796	0	1	1	no
Stra6	-3.24324	-2.24434	0.1302	0.223145	no
Serpinb1c	-3.24519	0	1	1	no
St8sia5	-3.24841	-3.83394	5.00E-05	0.00022	yes
Crabp2	-3.2505	-2.82504	0.00615	0.017052	yes
Fgl2	-3.25058	-6.26217	5.00E-05	0.00022	yes
Qk	-3.25686	-12.1261	5.00E-05	0.00022	yes
Hcar1	-3.25801	0	1	1	no
Cald1	-3.26015	-7.98356	5.00E-05	0.00022	yes
Fam107a	-3.26281	-5.52101	5.00E-05	0.00022	yes
Lrig3	-3.2636	0	1	1	no
A230077H06Rik	-3.26521	0	1	1	no
Gabrg1	-3.26608	-7.01976	5.00E-05	0.00022	yes
Phldb3	-3.27356	0	1	1	no
Htr7	-3.27368	-5.852	5.00E-05	0.00022	yes
Epha6	-3.27375	-3.72229	5.00E-05	0.00022	yes
Cfi	-3.28193	0	1	1	no
Creg2	-3.28282	-7.33916	5.00E-05	0.00022	yes
A130077B15Rik	-3.28336	0	1	1	no
Fpr1	-3.28887	0	1	1	no
Colec12	-3.29039	-3.5175	5.00E-05	0.00022	yes
Gm12530	-3.29047	0	1	1	no
Rtkn2	-3.29112	0	1	1	no
Tbx2	-3.29135	-7.13782	5.00E-05	0.00022	yes
Igdcc3	-3.29224	0	1	1	no
Ctsc	-3.29702	-5.77485	5.00E-05	0.00022	yes
Gstm2	-3.29736	-2.40722	0.0124	0.031187	yes
B3galt2	-3.29998	-2.4523	0.00395	0.011515	yes
Medag	-3.30072	-4.90457	5.00E-05	0.00022	yes
Rasal1	-3.3017	0	1	1	no
Smtnl2	-3.30257	-3.34279	0.00015	0.000615	yes

Ltf	-3.30264	-3.21944	0.00015	0.000615	yes
Angpt4	-3.30399	0	1	1	no
2300005B03Rik	-3.30581	-1.88818	0.1603	0.26363	no
Mxra8	-3.30603	-7.00406	5.00E-05	0.00022	yes
Crispld2	-3.30838	-5.16813	5.00E-05	0.00022	yes
Zic1	-3.30877	-3.18772	0.00025	0.000985	yes
Hs3st2	-3.30947	-8.96249	5.00E-05	0.00022	yes
Ccl7	-3.31452	0	1	1	no
Sox8	-3.31535	-3.17926	0.00025	0.000985	yes
Slitrk2	-3.31605	-5.38626	5.00E-05	0.00022	yes
Lgi3	-3.31816	-12.6732	5.00E-05	0.00022	yes
Htra4	-3.32096	-2.81486	0.0015	0.004953	yes
Rnf128	-3.32424	-4.97167	5.00E-05	0.00022	yes
Serpina3c	-3.33267	-3.05248	0.0003	0.001164	yes
Fam196b	-3.33319	-3.83205	5.00E-05	0.00022	yes
Col8a1	-3.33535	-6.05167	5.00E-05	0.00022	yes
Omd	-3.33776	-1.32839	0.1053	0.187393	no
Cdkn2b	-3.3418	-3.55507	5.00E-05	0.00022	yes
Pvalb	-3.34343	-11.1878	5.00E-05	0.00022	yes
Fibin	-3.34364	-3.88938	5.00E-05	0.00022	yes
Piwil1	-3.34691	0	1	1	no
Omg	-3.34811	-2.89138	0.00015	0.000615	yes
Sdc4	-3.35523	-9.58584	5.00E-05	0.00022	yes
Sv2b	-3.35538	-13.8193	5.00E-05	0.00022	yes
Ephb1	-3.35601	-3.92493	5.00E-05	0.00022	yes
Evi2a	-3.35749	0	1	1	no
Notch1	-3.36077	-8.47027	5.00E-05	0.00022	yes
Gldc	-3.36341	-2.73862	0.0018	0.005802	yes
F13a1	-3.36635	-3.44725	5.00E-05	0.00022	yes
Fa2h	-3.36919	-6.99778	5.00E-05	0.00022	yes
Spint1	-3.37205	-3.18512	0.00025	0.000985	yes
Sbspon	-3.37457	-5.17104	5.00E-05	0.00022	yes
Lpar1	-3.37533	-10.9549	5.00E-05	0.00022	yes
Vangl2	-3.37557	-2.6246	0.0022	0.006933	yes
Ndst4	-3.39356	-8.50235	5.00E-05	0.00022	yes
Eya2	-3.39373	-3.03743	0.0152	0.037255	yes
Uts2b	-3.39608	-3.30618	0.00155	0.005095	yes
Mag	-3.3978	-6.13027	5.00E-05	0.00022	yes
Syt2	-3.40357	-13.2133	5.00E-05	0.00022	yes
Dcn	-3.40447	-11.7438	5.00E-05	0.00022	yes
Ntrk2	-3.40657	-13.5141	5.00E-05	0.00022	yes
Drd5	-3.4091	0	1	1	no
Bcl2a1d	-3.41353	0	1	1	no
Gpc6	-3.41515	-6.3704	5.00E-05	0.00022	yes
Col9a2	-3.41552	-3.89358	5.00E-05	0.00022	yes
Ankef1	-3.41621	0	1	1	no
Col4a5	-3.41832	-3.29166	0.0213	0.049734	yes
B230312C02Rik	-3.43063	-2.2557	0.24265	0.36425	no
Plac8	-3.43157	-1.66653	0.10185	0.182231	no
Spon2	-3.43503	-3.06804	0.0005	0.00185	yes
Serpinb12	-3.4353	0	1	1	no
Lancl3	-3.43621	-7.28717	5.00E-05	0.00022	yes
Afp	-3.4389	0	1	1	no

Syde2	-3.44366	-3.4634	5.00E-05	0.00022	yes
Sptssb	-3.44419	-2.33437	0.027	0.060703	no
H2-Eb1	-3.44434	-5.67109	5.00E-05	0.00022	yes
Derl3	-3.44441	0	1	1	no
Crlf1	-3.44495	0	1	1	no
Podnl1	-3.44659	0	1	1	no
Clrn1	-3.44814	-5.48991	5.00E-05	0.00022	yes
Itgb6	-3.44948	-3.189	5.00E-05	0.00022	yes
Pcdh7	-3.45112	-10.3658	5.00E-05	0.00022	yes
Il17b	-3.45165	0	1	1	no
A330050F15Rik	-3.45186	-4.38713	5.00E-05	0.00022	yes
Kif19a	-3.45293	-6.01662	5.00E-05	0.00022	yes
Ip6k3	-3.45351	0	1	1	no
Lyz1	-3.45472	0	1	1	no
Wnk4	-3.45855	-3.05088	0.0005	0.00185	yes
Hhatl	-3.4605	-6.45126	5.00E-05	0.00022	yes
Slc22a2	-3.46312	0	1	1	no
Cd22	-3.46521	0	1	1	no
Prss12	-3.46568	-6.86391	5.00E-05	0.00022	yes
Foxd2	-3.46587	0	1	1	no
Ephx2	-3.46672	-3.07862	5.00E-05	0.00022	yes
Slit2	-3.46763	-8.19377	5.00E-05	0.00022	yes
Plekhb1	-3.46842	-11.3588	5.00E-05	0.00022	yes
Plekhf1	-3.47239	-2.8455	0.00185	0.005939	yes
Bpifb5	-3.47255	0	1	1	no
Slc9a3r1	-3.47535	-10.251	5.00E-05	0.00022	yes
Peg12	-3.47717	0	1	1	no
Cgn	-3.47806	0	1	1	no
Trem2	-3.47891	0	1	1	no
Fkbp9	-3.48579	-9.89098	5.00E-05	0.00022	yes
Gdf10	-3.4874	-2.97926	0.0009	0.003139	yes
Klrb1a	-3.4909	-1.35698	0.2305	0.350894	no
F730043M19Rik	-3.49322	-3.33286	0.00035	0.001342	yes
Atp8b3	-3.49344	0	1	1	no
Slamf9	-3.49554	-1.83957	0.0529	0.10692	no
Afap1l2	-3.49689	-6.88148	5.00E-05	0.00022	yes
Cntn5	-3.50259	0	1	1	no
Slc13a4	-3.50603	-2.53126	0.00415	0.012021	yes
Agmo	-3.5072	-3.93067	5.00E-05	0.00022	yes
Mme	-3.50927	-7.35882	5.00E-05	0.00022	yes
Wwc1	-3.51263	0	1	1	no
Fcgr2b	-3.51371	-1.85925	0.2158	0.33353	no
Ccdc80	-3.51695	-5.03889	5.00E-05	0.00022	yes
Pde7b	-3.51816	-5.56884	5.00E-05	0.00022	yes
Wisp2	-3.51934	-2.62052	0.00535	0.015044	yes
Ccdc3	-3.5252	-3.38211	0.0001	0.000422	yes
Pid1	-3.52775	-5.40169	5.00E-05	0.00022	yes
Foxd1	-3.53059	-2.47975	0.00595	0.016553	yes
Chil1	-3.53355	-2.43858	0.0092	0.024131	yes
Itgb5	-3.53888	-6.6034	5.00E-05	0.00022	yes
Gm16796	-3.5399	0	1	1	no
Cd302	-3.54016	-2.62083	0.0463	0.095919	no
Mfap4	-3.54118	-4.8832	5.00E-05	0.00022	yes

Gpr34	-3.54523	0	1	1	no
Papss2	-3.54991	0	1	1	no
Fmod	-3.55073	-3.72217	5.00E-05	0.00022	yes
Shc4	-3.55091	-3.58663	5.00E-05	0.00022	yes
Sfrp1	-3.55342	-8.94748	5.00E-05	0.00022	yes
Evc2	-3.55479	-4.38612	5.00E-05	0.00022	yes
Esrrg	-3.55509	-8.40281	5.00E-05	0.00022	yes
Cox7a1	-3.55671	-4.00994	0.0188	0.044675	yes
Slc17a7	-3.55849	-13.1127	5.00E-05	0.00022	yes
Mrgprf	-3.56039	-2.64061	0.0039	0.011392	yes
Il33	-3.56272	-2.49793	0.04875	0.100103	no
Mettl24	-3.56294	0	1	1	no
Slitrk6	-3.56334	0	1	1	no
Acsf2	-3.56424	-2.39026	0.015	0.036839	yes
Sema5a	-3.56922	-12.0903	5.00E-05	0.00022	yes
Tmem28	-3.57084	-4.56228	5.00E-05	0.00022	yes
Ccl24	-3.57302	0	1	1	no
Kcnh5	-3.58564	-4.86416	5.00E-05	0.00022	yes
Slc35d3	-3.58744	-2.86802	0.001	0.003451	yes
Themis2	-3.59041	0	1	1	no
4932411E22Rik	-3.59106	-2.72005	0.0019	0.00608	yes
Egr2	-3.59177	-7.66536	5.00E-05	0.00022	yes
Zcchc24	-3.59344	-8.11428	5.00E-05	0.00022	yes
Kcne1l	-3.59819	-2.52005	0.0117	0.029708	yes
Myocd	-3.60082	0	1	1	no
Tmprss5	-3.60228	-3.59317	0.0001	0.000422	yes
Clec7a	-3.60563	0	1	1	no
Ndrgr1	-3.60684	-15.6421	5.00E-05	0.00022	yes
Plekha4	-3.607	-10.8845	5.00E-05	0.00022	yes
Ntng1	-3.60889	-8.11839	5.00E-05	0.00022	yes
Gstt3	-3.60898	-2.43841	0.00745	0.020147	yes
Kcnj14	-3.61796	0	1	1	no
Cspg4	-3.61945	-5.50029	5.00E-05	0.00022	yes
Slc35f1	-3.6291	-10.2225	5.00E-05	0.00022	yes
Smpx	-3.62927	-2.86086	5.00E-05	0.00022	yes
Bgn	-3.63314	-10.2253	5.00E-05	0.00022	yes
Tlr9	-3.63415	0	1	1	no
Lrrc4	-3.63461	-2.28943	0.00285	0.008668	yes
Vstm4	-3.63737	-4.19586	5.00E-05	0.00022	yes
Sparc	-3.64967	-14.2683	5.00E-05	0.00022	yes
Ngp	-3.65096	-4.30051	5.00E-05	0.00022	yes
Klf15	-3.65203	-4.13306	5.00E-05	0.00022	yes
Col5a2	-3.65211	-8.23303	5.00E-05	0.00022	yes
Aldh1a7	-3.65413	-3.89731	5.00E-05	0.00022	yes
A330074K22Rik	-3.65525	-4.79196	5.00E-05	0.00022	yes
Vwc2	-3.65531	-3.98775	5.00E-05	0.00022	yes
Mup3	-3.65634	0	1	1	no
Kcnk5	-3.65847	-4.07807	5.00E-05	0.00022	yes
Bhmt2	-3.65931	0	1	1	no
Limch1	-3.66031	-10.8328	5.00E-05	0.00022	yes
Fam198a	-3.66082	-3.07837	5.00E-05	0.00022	yes
Frk	-3.66238	0	1	1	no
Ripk4	-3.67018	-3.48812	5.00E-05	0.00022	yes

Pipox	-3.67324	-2.46174	0.0075	0.020274	yes
Cdh12	-3.67738	-4.87315	5.00E-05	0.00022	yes
Kcnq4	-3.67841	-7.94	5.00E-05	0.00022	yes
Pice1	-3.67974	-8.0276	5.00E-05	0.00022	yes
Brinp3	-3.68046	-2.36609	0.19235	0.304487	no
Epyc	-3.68198	0	1	1	no
Pld4	-3.68573	-2.0814	0.0212	0.049553	yes
Snhg18	-3.68737	-3.47045	0.0001	0.000422	yes
Fbln7	-3.6942	-2.97925	0.0011	0.00376	yes
Gm16551	-3.70146	-6.07522	5.00E-05	0.00022	yes
Sardh	-3.70214	-4.82067	5.00E-05	0.00022	yes
Itga2	-3.70341	-2.94433	0.00085	0.002983	yes
Gm10684	-3.70475	-0.449214	0.212	0.328729	no
Dgkb	-3.70961	-5.84642	5.00E-05	0.00022	yes
Pmel	-3.71162	0	1	1	no
Fpr2	-3.71299	0	1	1	no
Col15a1	-3.7169	-8.59047	5.00E-05	0.00022	yes
Ano1	-3.7184	-6.18259	5.00E-05	0.00022	yes
Bco2	-3.71931	0	1	1	no
Ncmap	-3.72447	-7.92366	5.00E-05	0.00022	yes
Tll1	-3.72601	-4.42289	5.00E-05	0.00022	yes
Spp1	-3.73187	-10.3365	5.00E-05	0.00022	yes
Six2	-3.73362	0	1	1	no
Lmod1	-3.73598	0	1	1	no
Rasl12	-3.73764	-2.72707	0.02075	0.048621	yes
B3gnt5	-3.74068	-4.30613	5.00E-05	0.00022	yes
Serpind1	-3.74565	-0.96636	0.17565	0.283497	no
Cotl1	-3.74615	-8.04865	5.00E-05	0.00022	yes
Chrna5	-3.74986	0	1	1	no
Notch2	-3.76778	-7.47139	5.00E-05	0.00022	yes
Leprel1	-3.77077	-3.33925	0.00045	0.001682	yes
Hapln4	-3.77214	-10.2828	5.00E-05	0.00022	yes
Drd2	-3.77272	0	1	1	no
Gm10790	-3.77504	0	1	1	no
H2-DMb1	-3.77537	-3.21927	0.00175	0.00566	yes
Rasa3	-3.78614	-6.98705	5.00E-05	0.00022	yes
Gldn	-3.78875	-7.11931	5.00E-05	0.00022	yes
Ackr3	-3.79213	-4.13632	5.00E-05	0.00022	yes
Rasgef1c	-3.80273	-4.86141	5.00E-05	0.00022	yes
Lrrc6	-3.81007	0	1	1	no
Igsf11	-3.8204	-7.09795	5.00E-05	0.00022	yes
Abcc9	-3.82064	-3.89928	5.00E-05	0.00022	yes
Pdk4	-3.82091	-4.63677	5.00E-05	0.00022	yes
Prox1	-3.82123	0	1	1	no
Pard6g	-3.82485	-5.24357	5.00E-05	0.00022	yes
Sult2b1	-3.82666	0	1	1	no
Gjd2	-3.82888	-3.64447	0.0002	0.000803	yes
Rab32	-3.82961	-2.52734	0.00555	0.015544	yes
Ogn	-3.83485	-8.17102	5.00E-05	0.00022	yes
Egfl8	-3.83855	-2.07438	0.0119	0.030181	yes
A830082K12Rik	-3.84182	0	1	1	no
Dtx1	-3.84229	0	1	1	no
Grid1	-3.84249	-5.49183	5.00E-05	0.00022	yes

Pappa2	-3.8429	-4.15151	5.00E-05	0.00022	yes
Rgs18	-3.8468	0	1	1	no
Lrrtm1	-3.85198	-1.45417	0.0726	0.138827	no
Gjb1	-3.85821	-4.25168	5.00E-05	0.00022	yes
Ccnd1	-3.8592	-7.62691	5.00E-05	0.00022	yes
Gmnc	-3.85951	0	1	1	no
Apod	-3.86642	-13.4457	5.00E-05	0.00022	yes
Cideb	-3.86966	0	1	1	no
P2ry14	-3.87231	-0.833148	0.00055	0.002016	yes
Chrdl1	-3.87516	-5.03652	5.00E-05	0.00022	yes
C1s1	-3.87855	-3.68344	0.1543	0.255919	no
Slnf9	-3.88183	0	1	1	no
Gbgt1	-3.88234	0	1	1	no
Pcdh20	-3.88238	0	1	1	no
Ephb3	-3.88354	-4.87218	5.00E-05	0.00022	yes
Wnt7b	-3.88838	0	1	1	no
Stk31	-3.89364	0	1	1	no
Ptgds	-3.89547	-9.32054	5.00E-05	0.00022	yes
Bpifb1	-3.89617	0	1	1	no
Gm10754	-3.89708	-2.98891	0.2279	0.348135	no
Sh3bp5	-3.89889	-7.90759	5.00E-05	0.00022	yes
Pcolce	-3.89898	-6.10366	5.00E-05	0.00022	yes
Ppp1r14c	-3.90482	-6.59176	5.00E-05	0.00022	yes
Cyth4	-3.90929	-2.756	0.0028	0.008532	yes
Ptgfr	-3.91012	-8.91657	5.00E-05	0.00022	yes
Pcsk5	-3.91029	-4.83322	0.0066	0.01811	yes
Itpr3	-3.91245	-10.7581	5.00E-05	0.00022	yes
Cubn	-3.91697	0	1	1	no
Wnt7a	-3.91742	-4.45115	5.00E-05	0.00022	yes
Aif1l	-3.92086	-7.25852	5.00E-05	0.00022	yes
Maf	-3.92101	-10.0449	5.00E-05	0.00022	yes
Cybb	-3.92481	-3.60876	5.00E-05	0.00022	yes
Pgf	-3.92616	-3.86213	5.00E-05	0.00022	yes
Igfbp5	-3.94023	-13.6947	5.00E-05	0.00022	yes
Arg2	-3.94042	-1.02078	0.18645	0.297276	no
Cd177	-3.94458	0	1	1	no
Cdh20	-3.94757	-4.53641	5.00E-05	0.00022	yes
Oaf	-3.9493	-4.6617	5.00E-05	0.00022	yes
Igf1	-3.96322	-3.10962	0.008	0.021468	yes
Smco3	-3.96455	-5.04404	0.0065	0.017869	yes
Shisa3	-3.96846	-3.65683	5.00E-05	0.00022	yes
Erbp2	-3.97109	-2.17884	0.0192	0.045454	yes
Tnc	-3.97608	0	1	1	no
Them7	-3.97871	0	1	1	no
Ccdc13	-3.98049	-2.72625	0.00525	0.014813	yes
Gm13629	-3.9831	-0.418002	0.29675	0.424518	no
Steap4	-3.988	-4.39548	5.00E-05	0.00022	yes
Adhfe1	-3.99023	0	1	1	no
Acot1	-3.99437	-3.5986	0.0006	0.002181	yes
Bcan	-3.99558	-10.1537	5.00E-05	0.00022	yes
Fkbp10	-3.99856	-2.77524	0.004	0.011645	yes
Lcat	-4.00099	-3.45074	0.00085	0.002983	yes
Pmepa1	-4.01544	-9.95566	5.00E-05	0.00022	yes

Svep1	-4.01856	0	1	1	no
Cldn11	-4.02057	-4.42445	5.00E-05	0.00022	yes
Dach2	-4.02177	0	1	1	no
Tead3	-4.03171	-2.23849	0.1425	0.240009	no
Twist1	-4.03829	0	1	1	no
C1qtnf6	-4.03864	-2.98888	5.00E-05	0.00022	yes
Trf	-4.04243	-6.81746	5.00E-05	0.00022	yes
Fjx1	-4.04287	-4.2132	5.00E-05	0.00022	yes
Mamdc2	-4.04384	-5.22373	5.00E-05	0.00022	yes
Clec3b	-4.05939	-3.96659	0.0003	0.001164	yes
Clec4a2	-4.06054	0	1	1	no
Tekt5	-4.07409	-1.5733	0.11335	0.198654	no
Slc15a5	-4.07651	0	1	1	no
Plin3	-4.07865	-6.45685	5.00E-05	0.00022	yes
Rdh5	-4.0857	-5.10114	5.00E-05	0.00022	yes
Kirrel	-4.08769	-7.50258	5.00E-05	0.00022	yes
Itih2	-4.09002	-2.67102	0.0085	0.022613	yes
Igfbp4	-4.09224	-12.4832	5.00E-05	0.00022	yes
Cxcl10	-4.09462	-0.986581	0.0152	0.037255	yes
Folr2	-4.10666	0	1	1	no
Mmp13	-4.1122	0	1	1	no
Mmp2	-4.11223	-5.45509	5.00E-05	0.00022	yes
Rgs6	-4.1137	-5.69688	5.00E-05	0.00022	yes
Ugt8a	-4.11488	-10.6806	5.00E-05	0.00022	yes
Tgfb1	-4.11709	-7.33789	5.00E-05	0.00022	yes
Efemp1	-4.11749	-6.56933	5.00E-05	0.00022	yes
Cx3cr1	-4.12107	-2.51359	0.0056	0.015668	yes
Pmfbp1	-4.13104	-3.02159	0.00215	0.006796	yes
Car14	-4.132	-1.61005	0.0462	0.095771	no
Ptplad2	-4.137	-2.28761	0.02575	0.058288	no
Itgav	-4.14999	-9.86003	5.00E-05	0.00022	yes
Ttn	-4.15385	0	1	1	no
Tspan18	-4.15996	-9.14483	5.00E-05	0.00022	yes
Fmo1	-4.17072	-6.83229	5.00E-05	0.00022	yes
C4b	-4.18847	-6.08906	5.00E-05	0.00022	yes
Kcnj8	-4.18863	0	1	1	no
Frmd6	-4.19004	-6.88595	5.00E-05	0.00022	yes
Ptprz1	-4.1927	-11.1717	5.00E-05	0.00022	yes
2010204K13Rik	-4.19844	-0.597581	0.19855	0.311957	no
Folh1	-4.20118	-6.87854	5.00E-05	0.00022	yes
Smo	-4.20389	-5.73978	5.00E-05	0.00022	yes
Mfap5	-4.22038	-7.24236	5.00E-05	0.00022	yes
Gas7	-4.22071	-8.83071	5.00E-05	0.00022	yes
Myo5b	-4.22487	0	1	1	no
Ccl9	-4.22561	0	1	1	no
Chst3	-4.23231	-5.3713	5.00E-05	0.00022	yes
Emid1	-4.23495	-4.7781	5.00E-05	0.00022	yes
Hrc	-4.23509	0	1	1	no
Slc38a11	-4.237	-3.98715	0.0002	0.000803	yes
Hey2	-4.23827	-8.28014	5.00E-05	0.00022	yes
Shank2	-4.24099	-1.19592	0.0529	0.10692	no
Slc47a1	-4.24697	-4.13395	5.00E-05	0.00022	yes
Nid2	-4.2566	-3.62683	5.00E-05	0.00022	yes

Pln	-4.25963	-2.14063	0.01105	0.02829	yes
Wdr72	-4.27106	-3.88579	5.00E-05	0.00022	yes
Pcsk6	-4.27144	-4.68806	5.00E-05	0.00022	yes
Nlgn1	-4.27215	-5.17366	5.00E-05	0.00022	yes
Col6a3	-4.27805	-6.87689	5.00E-05	0.00022	yes
Prelp	-4.27838	-5.23775	5.00E-05	0.00022	yes
Sp140	-4.28191	0	1	1	no
Vldlr	-4.28457	-9.1808	5.00E-05	0.00022	yes
Lpcat2	-4.28858	-3.23339	0.03695	0.07908	no
Camp	-4.2939	-2.23773	0.1136	0.199014	no
2210011C24Rik	-4.29497	-2.09926	0.1475	0.24677	no
Phyhd1	-4.29653	-0.976635	0.1155	0.201889	no
Col4a6	-4.30217	0	1	1	no
AA387883	-4.30231	0	1	1	no
Rbp4	-4.30377	-1.7615	0.2308	0.35123	no
Podn	-4.30481	-1.88546	0.2293	0.349348	no
Reln	-4.30854	-10.0965	5.00E-05	0.00022	yes
Adra1a	-4.31064	0	1	1	no
Myl9	-4.31132	-6.18195	5.00E-05	0.00022	yes
Shisa2	-4.31132	-4.26503	5.00E-05	0.00022	yes
Mpz	-4.31636	-14.4855	5.00E-05	0.00022	yes
Evc	-4.32422	-3.82479	5.00E-05	0.00022	yes
Stxbp6	-4.32554	-7.8055	5.00E-05	0.00022	yes
Mmp14	-4.33935	-8.03593	5.00E-05	0.00022	yes
Chrd	-4.34623	0	1	1	no
Pmp2	-4.3496	-7.55768	5.00E-05	0.00022	yes
Entpd2	-4.34994	-6.66018	5.00E-05	0.00022	yes
Lox	-4.35	-6.05644	5.00E-05	0.00022	yes
Fxyd3	-4.36289	-2.42184	0.0896	0.163871	no
C1qtnf5	-4.36478	-3.30564	0.0133	0.033218	yes
Thbs2	-4.3728	-5.27463	5.00E-05	0.00022	yes
Lrp2	-4.37884	0	1	1	no
Gpd1	-4.379	-7.50965	5.00E-05	0.00022	yes
Gucy1b3	-4.38028	-3.52509	0.0251	0.057089	no
Cd74	-4.38814	-6.56362	5.00E-05	0.00022	yes
Clec18a	-4.39136	-2.50425	0.024	0.054955	no
Hapln1	-4.39341	-8.90746	5.00E-05	0.00022	yes
Ehf	-4.39428	0	1	1	no
Cdo1	-4.39824	-5.87746	5.00E-05	0.00022	yes
Sema3b	-4.40347	-11.6314	5.00E-05	0.00022	yes
Fgd2	-4.40767	0	1	1	no
Slco1a5	-4.41079	0	1	1	no
Art3	-4.41282	-8.47388	5.00E-05	0.00022	yes
H2-Ob	-4.42244	0	1	1	no
P2ry6	-4.42269	0	1	1	no
Metrn	-4.42565	-7.3637	5.00E-05	0.00022	yes
Lmo3	-4.42995	0	1	1	no
Ankfn1	-4.4339	-2.36186	0.0326	0.071194	no
A530058N18Rik	-4.43435	0	1	1	no
Pou3f1	-4.44213	-4.96917	5.00E-05	0.00022	yes
Heyl	-4.44955	-5.14216	5.00E-05	0.00022	yes
Adamts5	-4.45207	-9.64921	5.00E-05	0.00022	yes
Dmp1	-4.45843	0	1	1	no

Srpx2	-4.45902	-2.05388	0.2371	0.358351	no
Prx	-4.47154	-15.3458	5.00E-05	0.00022	yes
Cd248	-4.48049	-3.44145	0.0013	0.004375	yes
Col27a1	-4.48174	-5.01072	5.00E-05	0.00022	yes
Emp2	-4.488	-10.1269	5.00E-05	0.00022	yes
Fras1	-4.4995	0	1	1	no
Gxylt2	-4.4999	0	1	1	no
Vstm2b	-4.50059	-4.75044	5.00E-05	0.00022	yes
Mmrn1	-4.50098	0	1	1	no
Ccdc158	-4.50528	0	1	1	no
Col1a1	-4.5076	-12.096	5.00E-05	0.00022	yes
Apoc1	-4.51163	-1.30115	0.2028	0.317207	no
Slit3	-4.52114	-4.02317	0.00015	0.000615	yes
Adamts12	-4.5224	0	1	1	no
Plxnb3	-4.52258	-6.56308	5.00E-05	0.00022	yes
Arhgef16	-4.53273	0	1	1	no
Lama2	-4.53571	-9.15149	5.00E-05	0.00022	yes
Lamp5	-4.53884	0	1	1	no
Olfm4	-4.55928	0	1	1	no
Pex11a	-4.57199	-3.35482	0.0107	0.027543	yes
Kif7	-4.57783	0	1	1	no
Prrx1	-4.59028	-3.88695	0.0095	0.024845	yes
Myh8	-4.6093	0	1	1	no
1500015010Rik	-4.61565	-3.06521	0.01715	0.041361	yes
C1qb	-4.61578	-3.86433	0.00095	0.003299	yes
Ranbp3l	-4.62541	0	1	1	no
Ibsp	-4.62625	-3.60628	0.0017	0.005514	yes
Cand2	-4.63098	-1.84467	0.0373	0.079688	no
Pdgfc	-4.63321	-4.33233	5.00E-05	0.00022	yes
Lgi4	-4.63809	-8.79967	5.00E-05	0.00022	yes
Gm7714	-4.6399	0	1	1	no
Cryab	-4.65052	-9.64532	5.00E-05	0.00022	yes
Rbpms2	-4.65077	0	1	1	no
Col1a2	-4.65886	-14.5349	5.00E-05	0.00022	yes
Ptgfrn	-4.65987	-10.2401	5.00E-05	0.00022	yes
9930014A18Rik	-4.66519	0	1	1	no
Ace2	-4.66546	-2.09251	0.22435	0.343738	no
Kcnj13	-4.6715	0	1	1	no
Cd163	-4.6817	-2.40028	0.18295	0.292892	no
Dlk1	-4.68928	0	1	1	no
Adamts20	-4.69025	-3.78099	0.0082	0.02192	yes
Ccdc8	-4.69142	-2.68709	0.0238	0.054535	no
Lmx1b	-4.69714	0	1	1	no
Egflam	-4.69784	-5.51937	5.00E-05	0.00022	yes
Phgdh	-4.70626	-4.42321	0.0001	0.000422	yes
Mrap	-4.73057	0	1	1	no
Notch3	-4.73756	-5.95143	5.00E-05	0.00022	yes
Calb2	-4.76518	-4.9239	0.0095	0.024845	yes
Foxd3	-4.77186	-5.48993	5.00E-05	0.00022	yes
Otop1	-4.77628	-3.78175	0.0003	0.001164	yes
Tgif2	-4.78734	-2.13019	0.02485	0.056589	no
Plp1	-4.78972	-15.8239	5.00E-05	0.00022	yes
Fam163a	-4.79191	-2.97657	0.0143	0.035369	yes

Ctnna3	-4.80559	-1.50724	0.0091	0.023921	yes
Col8a2	-4.81501	-3.52414	0.0006	0.002181	yes
Smoc2	-4.81881	-5.51713	0.0065	0.017869	yes
Ccl11	-4.83017	-2.77646	0.0437	0.091316	no
Cnn1	-4.83263	-0.668715	0.1439	0.242121	no
Fbln1	-4.83334	-3.82912	0.00055	0.002016	yes
Fam84a	-4.83613	0	1	1	no
Trp63	-4.83615	0	1	1	no
Sox3	-4.83659	0	1	1	no
Islr	-4.84997	-6.49779	5.00E-05	0.00022	yes
Angpt2	-4.85779	-3.15475	0.0014	0.004657	yes
Adamts7	-4.86689	-3.34503	0.0031	0.009315	yes
F3	-4.87424	-5.41875	5.00E-05	0.00022	yes
Cdh19	-4.87647	-8.52508	5.00E-05	0.00022	yes
Acta2	-4.8889	-6.19865	5.00E-05	0.00022	yes
Gli3	-4.89192	0	1	1	no
Pdpn	-4.89659	-5.27847	0.00585	0.016305	yes
Chrna10	-4.9003	0	1	1	no
Igfbp6	-4.90347	-6.31185	5.00E-05	0.00022	yes
Cldn19	-4.90361	-5.15799	5.00E-05	0.00022	yes
Abca13	-4.90705	0	1	1	no
Slc6a1	-4.91032	-4.23982	0.00015	0.000615	yes
Tmc1	-4.94092	0	1	1	no
Nkain4	-4.95874	-3.67405	0.0001	0.000422	yes
Fzd2	-4.96483	-4.11729	0.0001	0.000422	yes
Hk3	-4.98146	0	1	1	no
Matn4	-4.98327	-5.80737	5.00E-05	0.00022	yes
Rbm47	-4.98385	0	1	1	no
Nr2f1	-4.99341	-5.14401	5.00E-05	0.00022	yes
Rftn2	-4.99354	-4.84577	5.00E-05	0.00022	yes
Mgl2	-4.99511	-2.46349	0.0851	0.157663	no
Nxph1	-5.00188	-4.48666	0.00035	0.001342	yes
Myh11	-5.00409	-6.22569	5.00E-05	0.00022	yes
Sox10	-5.00549	-9.57313	5.00E-05	0.00022	yes
Lyz2	-5.01452	-6.16579	5.00E-05	0.00022	yes
Adap2	-5.01648	-1.58236	0.14765	0.246896	no
Gjb2	-5.02506	-2.68792	0.02355	0.054046	no
Aspa	-5.02575	-7.00197	5.00E-05	0.00022	yes
Gjc3	-5.02986	-8.87402	5.00E-05	0.00022	yes
Slc9a3	-5.0391	-2.12872	0.09	0.16449	no
Col3a1	-5.04535	-13.7115	5.00E-05	0.00022	yes
Paqr6	-5.04815	-5.69587	5.00E-05	0.00022	yes
Nid1	-5.07577	-11.9469	5.00E-05	0.00022	yes
Angptl7	-5.08462	-1.01151	0.18815	0.299267	no
Veph1	-5.09692	0	1	1	no
Mcpt4	-5.11107	0	1	1	no
Fam129a	-5.11355	-7.77189	5.00E-05	0.00022	yes
Pou3f2	-5.11387	-4.34948	5.00E-05	0.00022	yes
Crabp1	-5.12158	-1.52846	0.2215	0.34016	no
Cmtm5	-5.14343	-4.74703	0.0082	0.02192	yes
Map3k7cl	-5.14443	0	1	1	no
Ctss	-5.14949	-2.92519	0.24735	0.36959	no
Olfml2a	-5.15183	-6.72639	5.00E-05	0.00022	yes

Arhgef26	-5.15744	-4.99745	5.00E-05	0.00022	yes
Col14a1	-5.16709	-7.33951	5.00E-05	0.00022	yes
Tmem40	-5.19393	-1.10918	0.10465	0.186562	no
Pamr1	-5.2	-2.54833	0.07555	0.143476	no
Igf2	-5.20898	-7.19482	5.00E-05	0.00022	yes
Col12a1	-5.21482	-7.95421	5.00E-05	0.00022	yes
Erb3	-5.23755	-7.00858	0.00435	0.012551	yes
Myo16	-5.23768	-3.7471	0.0027	0.008273	yes
Hmgcs2	-5.23885	-10.2888	5.00E-05	0.00022	yes
Lum	-5.2439	-6.06094	5.00E-05	0.00022	yes
Galnt16	-5.24435	-6.17219	5.00E-05	0.00022	yes
Prrg4	-5.24514	-2.97025	0.01605	0.039064	yes
Gm10046	-5.26025	-3.1427	0.0865	0.159588	no
Papln	-5.27467	-5.04217	5.00E-05	0.00022	yes
Pm20d1	-5.27996	0	1	1	no
Gpr126	-5.2842	-8.15317	5.00E-05	0.00022	yes
Aspn	-5.28657	-2.20182	0.03215	0.070374	no
Axl	-5.29026	-6.20726	0.0051	0.014464	yes
Cybrd1	-5.29782	-5.71555	5.00E-05	0.00022	yes
Sorcs2	-5.29817	-5.95313	5.00E-05	0.00022	yes
Nwd1	-5.30302	-5.74059	5.00E-05	0.00022	yes
Itgb3	-5.30754	-7.01714	5.00E-05	0.00022	yes
Ppp1r1b	-5.31456	-3.18684	0.2507	0.373418	no
Myoc	-5.32768	-3.67697	0.23585	0.35695	no
Atp1b2	-5.35461	-11.1367	5.00E-05	0.00022	yes
Tsku	-5.35645	0	1	1	no
Csf1r	-5.37582	-4.57192	0.0245	0.055974	no
Sox2ot	-5.37786	-3.8032	0.0028	0.008532	yes
Gpm6b	-5.38022	-13.6251	5.00E-05	0.00022	yes
Atp1a2	-5.38227	-15.3734	5.00E-05	0.00022	yes
Sfrp5	-5.41355	-11.8306	5.00E-05	0.00022	yes
Ltbp2	-5.42055	-3.30857	0.0896	0.163871	no
Phex	-5.42638	0	1	1	no
Htra3	-5.44282	-3.17165	0.04765	0.098209	no
Cldn1	-5.44545	-5.12594	5.00E-05	0.00022	yes
Cyp4f14	-5.45103	-2.07316	0.0176	0.042247	yes
Egfl6	-5.45614	0	1	1	no
Vgll3	-5.45698	-4.20904	0.0009	0.003139	yes
Zfpm2	-5.46557	-3.10952	0.01785	0.042762	yes
Spon1	-5.466	-6.59504	5.00E-05	0.00022	yes
Extl1	-5.472	0	1	1	no
Adamts17	-5.47326	-3.23969	0.0173	0.041678	yes
Pdgfrl	-5.48588	-1.74582	0.14765	0.246896	no
Slc13a3	-5.48737	-3.93286	0.00175	0.00566	yes
Pla2g5	-5.49787	0	1	1	no
Hepacam	-5.50776	-5.9302	5.00E-05	0.00022	yes
Daam2	-5.52173	-9.32276	5.00E-05	0.00022	yes
2900052N01Rik	-5.54185	-4.94216	5.00E-05	0.00022	yes
Clec12a	-5.55069	0	1	1	no
Vipr2	-5.5517	0	1	1	no
Alpl	-5.55852	-4.35782	5.00E-05	0.00022	yes
Itgbl1	-5.59241	-3.36485	0.0124	0.031187	yes
Loxl1	-5.61225	-2.92281	0.03045	0.067274	no

Lipg	-5.62516	0	1	1	no
Gm14005	-5.63858	-0.866541	0.24985	0.372487	no
Slc7a2	-5.65053	-10.4021	5.00E-05	0.00022	yes
Tuba8	-5.6641	-2.47393	0.0911	0.166248	no
Fbln5	-5.68722	-10.2579	5.00E-05	0.00022	yes
Egfr	-5.6948	0	1	1	no
Kdelr3	-5.69664	-0.642518	0.24315	0.364835	no
Fxyd1	-5.69846	-4.61305	0.0064	0.017627	yes
Sod3	-5.70598	-6.23726	5.00E-05	0.00022	yes
C1qc	-5.71498	-3.16655	0.05005	0.102298	no
Mpeg1	-5.72768	-3.49876	0.0071	0.019306	yes
Col28a1	-5.75212	-10.7355	5.00E-05	0.00022	yes
5930403L14Rik	-5.77411	-5.41136	5.00E-05	0.00022	yes
Kcnj16	-5.78698	-2.00928	0.13735	0.232991	no
Myom3	-5.79523	0	1	1	no
B4galnt3	-5.79725	0	1	1	no
Rarres2	-5.81062	-2.04918	0.03345	0.07268	no
Vtn	-5.8215	-4.45956	0.00105	0.003607	yes
Des	-5.8239	-1.69531	0.041	0.086396	no
Thbs4	-5.82447	-3.23565	0.04235	0.088803	no
Pf4	-5.83678	-1.81734	0.23655	0.357764	no
Enpp1	-5.84978	-5.53691	5.00E-05	0.00022	yes
Cryba2	-5.86151	-1.5858	0.23785	0.358994	no
Gpr3711	-5.86726	-9.61228	5.00E-05	0.00022	yes
Fbln2	-5.87449	-12.3804	5.00E-05	0.00022	yes
Hba-a1,Hba-a2	-5.8789	0	1	1	no
Postn	-5.89287	-5.73794	0.1119	0.196607	no
Tlr7	-5.89817	0	1	1	no
Mafa	-5.91741	-2.68819	0.0921	0.167819	no
Srpx	-5.9175	-3.74289	0.00685	0.018707	yes
Lrrc4b	-5.92699	-5.3449	0.00015	0.000615	yes
Pi15	-5.94616	0	1	1	no
Fabp7	-5.95319	-15.4609	5.00E-05	0.00022	yes
Amd1,Amd2	-5.95323	-1.20289	0.3963	0.528042	no
Efs	-5.98221	-3.19951	0.0203	0.04771	yes
Fcrls	-5.99003	-1.84879	0.14765	0.246896	no
Lect1	-6.01284	-5.33366	0.0002	0.000803	yes
Gas1	-6.01586	-4.03286	0.004	0.011645	yes
Hes5	-6.02868	-1.1813	0.0652	0.127245	no
Car5b	-6.03916	-4.34991	0.00155	0.005095	yes
Serpine2	-6.05024	-10.8229	5.00E-05	0.00022	yes
Adcyap1r1	-6.07887	-2.92825	0.25035	0.373013	no
Ttyh1	-6.08735	-7.68795	0.0003	0.001164	yes
Abca9	-6.09342	-5.50467	5.00E-05	0.00022	yes
Mfrp	-6.11144	0	1	1	no
Tyrp1	-6.14312	-4.40411	0.1944	0.306927	no
Cacng4	-6.2335	-2.96641	0.1419	0.23915	no
Olf558	-6.25435	0	1	1	no
2610034M16Rik	-6.26504	0	1	1	no
Apoe	-6.28591	-22.5683	5.00E-05	0.00022	yes
Pdlim4	-6.29908	-4.25176	0.0188	0.044675	yes
Sostdc1	-6.35638	-8.31419	5.00E-05	0.00022	yes
Megf10	-6.36584	-8.17961	5.00E-05	0.00022	yes

Scara5	-6.42977	-3.5123	0.205	0.320119	no
Wnt6	-6.47643	-4.63768	0.0033	0.009856	yes
Lgr5	-6.5171	-5.41664	0.02695	0.060632	no
Abca8a	-6.56284	-13.6938	5.00E-05	0.00022	yes
P2ry12	-6.6123	-1.16128	0.1765	0.284696	no
H2-Aa	-6.62331	-4.93994	0.00835	0.022272	yes
Angptl1	-6.62445	-1.11718	0.1289	0.22146	no
Hif3a	-6.63837	0	1	1	no
Ptges	-6.67529	-4.28952	0.01445	0.0357	yes
5430435G22Rik	-6.68345	-1.50039	0.23655	0.357764	no
Aldh1a2	-6.69542	-1.44744	0.23785	0.358994	no
C1qa	-6.69904	-3.12629	0.1419	0.23915	no
Acsbg1	-6.81015	-8.4511	5.00E-05	0.00022	yes
Nfe2l3	-6.82916	-2.73752	0.14815	0.24742	no
Megf11	-6.91893	-1.68914	0.23825	0.359393	no
Tfap2a	-6.95648	-1.01413	0.1997	0.313467	no
Slc1a3	-6.99309	-5.50891	0.0013	0.004375	yes
Prss35	-7.06617	-7.76757	5.00E-05	0.00022	yes
H2-Q8	-7.06801	0	1	1	no
Emr1	-7.10775	-1.49563	0.23785	0.358994	no
Mmd2	-7.11883	-9.45111	5.00E-05	0.00022	yes
Sox2	-7.14981	-2.8884	0.03	0.066457	no
Ednrb	-7.17793	-9.05927	5.00E-05	0.00022	yes
Itgb8	-7.18296	-8.00901	5.00E-05	0.00022	yes
Olfml1	-7.27542	-0.660013	0.2124	0.329118	no
H19	-7.35714	-3.07567	0.0545	0.109703	no
Car13	-7.35927	-3.28915	0.0838	0.155711	no
Kcnj10	-7.36359	-9.4592	5.00E-05	0.00022	yes
Ugt1a6a	-7.58146	-2.69636	0.06925	0.133927	no
Bmp5	-7.65234	-1.37119	0.0652	0.127245	no
Gm10591	-8.91045	0	1	1	no
Gm13304	-9.07729	0	1	1	no
Gm21541	-9.11809	0	1	1	no
Fsbp	-9.18934	0	1	1	no
Slc6a11	-9.198	-1.59622	0.0652	0.127245	no
Gm12191	-10.3009	0	1	1	no
Rbm14-rbm4	-11.7252	0	1	1	no
Krt85	-11.7777	0	1	1	no
Hist1h4m,Hist1h4n	-13.4013	0	1	1	no
Pira1	-15.336	0	1	1	no
Ear2,Ear3	-19.1024	0	1	1	no

Genes depleted from MACS DRG

gene	locus	FPKM dissociated DRG	FPKM MACS DRG	log2 fold change
Kcnj10	chr1:172341209-172374085	25.1946	0.152984	-7.36359
Itgb8	chr12:119162802-119238276	25.5496	0.175833	-7.18296
Ednrb	chr14:103814614-103844476	63.0298	0.435286	-7.17793
Mmd2	chr5:142563480-142608752	58.5913	0.421553	-7.11883
Prss35	chr9:86743632-86757506	29.8687	0.222888	-7.06617
Slc1a3	chr15:8634123-8710807	5.94844	0.0466953	-6.99309
Acsbg1	chr9:54604996-54661885	30.7905	0.274382	-6.81015
H2-Aa	chr17:34282750-34287771	15.3354	0.155553	-6.62331
Abca8a	chr11:110025633-110095937	64.7776	0.685194	-6.56284
Wnt6	chr1:74771891-74785319	7.69204	0.0863859	-6.47643
Megf10	chr18:57133089-57297467	8.55432	0.103723	-6.36584
Sostdc1	chr12:36314168-36318452	32.9999	0.402764	-6.35638
Pdlim4	chr11:54054927-54069017	8.68026	0.110235	-6.29908
Apoe	chr7:19696243-19699166	2422.41	31.0456	-6.28591
Ttyh1	chr7:4074124-4136926	38.9537	0.572892	-6.08735
Serpine2	chr1:79794320-79858665	62.9212	0.949496	-6.05024
Lect1	chr14:79637689-79662170	14.1165	0.218615	-6.01284
Fabp7	chr10:57784922-57788450	322.961	5.21266	-5.95319
Lrrc4b	chr7:44442486-44463344	6.80041	0.111772	-5.92699
Fbln2	chr6:91212763-91272540	48.9744	0.834781	-5.87449
Gpr37l1	chr1:135160249-135167681	43.5701	0.746391	-5.86726
Enpp1	chr10:24641410-24712102	6.59106	0.114287	-5.84978
Vtn	chr11:78499119-78502325	6.82521	0.120689	-5.8215
5930403L14Ri	chr4:154316124-154636873	11.4213	0.208707	-5.77411
Col28a1	chr6:7997807-8192617	33.1054	0.614241	-5.75212
Sod3	chr5:52363803-52369738	12.9546	0.248172	-5.70598
Fxyd1	chr7:31051677-31055656	65.3426	1.25831	-5.69846
Fbln5	chr12:101746564-101819119	21.2586	0.412582	-5.68722
Slc7a2	chr8:40862366-40922070	18.812	0.374503	-5.65053
Alpl	chr4:137741730-137796384	6.06153	0.128618	-5.55852
2900052N01Ri	chr9:46913602-46927366	5.43881	0.116746	-5.54185
Daam2	chr17:49456021-49564337	15.142	0.329591	-5.52173
Hepacam	chr9:37367605-37386571	9.27856	0.203929	-5.50776
Sfrp5	chr19:42197970-42202252	78.3842	1.83902	-5.41355
Atp1a2	chr1:172271708-172298064	68.4787	1.64184	-5.38227
Gpm6b	chrX:166238942-166389033	110.609	2.65574	-5.38022
Atp1b2	chr11:69599749-69605960	40.6936	0.994554	-5.35461
Itgb3	chr11:104607999-104670471	6.89186	0.174023	-5.30754
Axl	chr7:25756499-25788733	9.43099	0.241007	-5.29026
Gpr126	chr10:14402584-14545036	8.69059	0.223022	-5.2842
Galnt16	chr12:80518989-80603896	7.17047	0.189165	-5.24435
Lum	chr10:97565500-97572703	15.4158	0.406812	-5.2439
Hmgcs2	chr3:98280430-98310738	30.4608	0.806659	-5.23885
ErbB3	chr10:128569367-128589501	16.3533	0.433455	-5.23755
Col12a1	chr9:79598986-79718722	5.36985	0.144592	-5.21482
Igf2	chr7:142650767-142670356	13.7769	0.372469	-5.20898
Col14a1	chr15:55307749-55520803	6.97519	0.194136	-5.16709
Olfml2a	chr2:38931979-38960585	11.5974	0.326215	-5.15183
Cmtm5	chr14:54936469-54939277	32.7856	0.927592	-5.14343

Fam129a	chr1:151571372-151719347	10.7947	0.311801	-5.11355
Nid1	chr13:13437601-13512275	27.793	0.824093	-5.07577
Paqr6	chr3:88364588-88368541	11.0556	0.334148	-5.04815
Col3a1	chr1:45311537-45349706	58.3065	1.76569	-5.04535
Gjc3	chr5:137953808-137962959	20.1718	0.617458	-5.02986
Aspa	chr11:73304987-73324637	25.0348	0.7685	-5.02575
Lyz2	chr10:117277540-117282272	19.0984	0.590848	-5.01452
Sox10	chr15:79154912-79164490	32.1017	0.999371	-5.00549
Nr2f1	chr13:78188972-78236564	7.0682	0.221892	-4.99341
Matn4	chr2:164389392-164415448	11.0272	0.348619	-4.98327
Nkain4	chr2:180934771-180954699	9.42345	0.303027	-4.95874
Cldn19	chr4:119255440-119262438	32.0812	1.07181	-4.90361
Igfbp6	chr15:102144185-102149512	19.8049	0.661733	-4.90347
Pdpm	chr4:143267408-143299564	15.3054	0.513838	-4.89659
Acta2	chr19:34240335-34255373	9.69859	0.327343	-4.8889
Cdh19	chr1:110889194-110977372	22.623	0.770168	-4.87647
F3	chr3:121723536-121735052	9.85746	0.336104	-4.87424
Angpt2	chr8:18595172-18803188	7.446	0.256793	-4.85779
Islr	chr9:58156263-58159221	16.8173	0.583136	-4.84997
Smoc2	chr17:14279505-14404790	10.6943	0.378917	-4.81881
Plp1	chrX:136822745-136838582	191.808	6.93454	-4.78972
Foxd3	chr4:99656298-99658671	7.39769	0.270783	-4.77186
Calb2	chr8:110142537-110168206	11.9156	0.438182	-4.76518
Ptgfrn	chr3:101040235-101110166	15.7544	0.62322	-4.65987
Col1a2	chr6:4505696-4541543	88.9173	3.5199	-4.65886
Cryab	chr9:50751071-50756635	119.196	4.74589	-4.65052
Lgi4	chr7:31059934-31076697	24.2186	0.972627	-4.63809
C1qb	chr4:136880144-136886177	5.82643	0.237638	-4.61578
Lama2	chr10:26981284-27616942	7.47464	0.32226	-4.53571
Plxnb3	chrX:73757102-73772510	5.46038	0.237569	-4.52258
Col1a1	chr11:94936269-94951856	48.0789	2.11365	-4.5076
Vstm2b	chr7:40899277-40929968	7.28504	0.321825	-4.50059
Emp2	chr16:10281748-10313968	24.8144	1.10581	-4.488
Prx	chr7:27499323-27520041	96.1528	4.33405	-4.47154
Adamts5	chr16:85858156-85901125	10.7471	0.491002	-4.45207
Metrn	chr17:25794570-25797045	21.6256	1.00627	-4.42565
Art3	chr5:92331840-92414627	40.1301	1.88399	-4.41282
Sema3b	chr9:107597673-107609241	50.442	2.3835	-4.40347
Cdo1	chr18:46713204-46728342	10.6261	0.50393	-4.39824
Hapln1	chr13:89540635-89611832	12.3731	0.588749	-4.39341
Cd74	chr18:60803848-60812652	28.3717	1.35495	-4.38814
Gpd1	chr15:99717592-99725007	12.8563	0.617883	-4.379
C1qtnf5	chr9:44101769-44109187	6.84385	0.332178	-4.36478
Lox	chr18:52516059-52529867	6.21158	0.304594	-4.35
Entpd2	chr2:25395873-25401323	13.1568	0.645193	-4.34994
Pmp2	chr3:10179850-10183885	24.5919	1.20624	-4.3496
Mmp14	chr14:54431603-54441258	17.0109	0.840333	-4.33935
Stxbp6	chr12:44852485-45074483	9.77266	0.487413	-4.32554
Mpz	chr1:171150712-171161123	1585.64	79.5886	-4.31636
Myl9	chr2:156775463-156781657	17.8889	0.901042	-4.31132
Reln	chr5:21884453-22344705	9.58975	0.483958	-4.30854
Vldlr	chr19:27217019-27254231	8.83414	0.453293	-4.28457
Nid2	chr14:19751256-19823823	7.33907	0.383951	-4.2566

Hey2	chr10:30832358-30842783	18.6154	0.986342	-4.23827
Emid1	chr11:5106265-5152222	5.4516	0.289518	-4.23495
Gas7	chr11:67532997-67688992	10.1283	0.543217	-4.22071
Mfap5	chr6:122513675-122529287	21.0542	1.12948	-4.22038
Folh1	chr7:86718975-86775864	11.0373	0.600043	-4.20118
Ptprz1	chr6:22875501-23052916	14.7545	0.80686	-4.1927
Frmd6	chr12:70825513-70902234	6.60218	0.36171	-4.19004
Fmo1	chr1:162829560-162866548	14.1248	0.784276	-4.17072
Tspan18	chr2:93201759-93334487	17.1885	0.961535	-4.15996
Itgav	chr2:83724396-83806917	12.931	0.728384	-4.14999
Efemp1	chr11:28853204-28926743	12.2345	0.704853	-4.11749
Tgfb1	chr13:56609602-56639339	13.0564	0.752411	-4.11709
Ugt8a	chr3:125865342-125938550	34.004	1.96259	-4.11488
Rgs6	chr12:82617037-83158813	9.02694	0.521426	-4.1137
Mmp2	chr8:92827327-92853420	5.32526	0.307919	-4.11223
Igfbp4	chr11:99041259-99052643	74.3154	4.35705	-4.09224
Kirrel	chr3:87078591-87174747	6.49831	0.382193	-4.08769
Rdh5	chr10:128913590-128919297	8.30093	0.488886	-4.0857
Plin3	chr17:56278961-56290511	10.6008	0.627396	-4.07865
Clec3b	chr9:123150945-123157432	5.70519	0.342192	-4.05939
Trf	chr9:103208875-103230286	12.1067	0.73474	-4.04243
Cldn11	chr3:31149919-31164326	5.18246	0.319319	-4.02057
Pmepa1	chr2:173224464-173276533	18.2138	1.12624	-4.01544
Bcan	chr3:87987530-88000356	38.949	2.44179	-3.99558
Smco3	chr6:136828842-136840557	10.6301	0.680909	-3.96455
Igfbp5	chr1:72858064-72874865	42.8562	2.79181	-3.94023
Pgf	chr12:85166638-85177313	6.83809	0.449826	-3.92616
Maf	chr8:115703252-115706894	25.6127	1.69089	-3.92101
Aif1l	chr2:31950302-31973442	11.5161	0.76034	-3.92086
Itpr3	chr17:27057303-27122223	14.6661	0.973976	-3.91245
Ptgfr	chr3:151798609-151837528	14.1675	0.942385	-3.91012
Ppp1r14c	chr10:3366149-3464975	9.61387	0.641843	-3.90482
Pcolce	chr5:137605106-137611404	14.4317	0.967401	-3.89898
Sh3bp5	chr14:31373963-31436033	16.6056	1.11319	-3.89889
Ptgds	chr2:25466711-25469749	73.402	4.93235	-3.89547
Apod	chr16:31296191-31314596	116.26	7.97112	-3.86642
Ccnd1	chr7:144929930-144939925	12.6538	0.87194	-3.8592
Grid1	chr14:34820135-35581115	5.46416	0.380906	-3.84249
Egfl8	chr17:34605860-34615971	27.7101	1.93696	-3.83855
Ogn	chr13:49464058-49652731	46.9717	3.29179	-3.83485
Igsf11	chr16:38902344-39027157	9.93646	0.703359	-3.8204
Gldn	chr9:54268579-54341777	8.78097	0.635351	-3.78875
Rasa3	chr8:13567217-13677587	8.21679	0.595607	-3.78614
Hapln4	chr8:70083528-70090862	26.2265	1.91961	-3.77214
Cotl1	chr8:119809213-119840579	24.2518	1.80734	-3.74615
Spp1	chr5:104435110-104441053	96.3289	7.25024	-3.73187
Ncmap	chr4:135369576-135398227	40.9055	3.0946	-3.72447
Ano1	chr7:144588548-144738592	5.62826	0.427588	-3.7184
Col15a1	chr4:47208011-47313165	11.4195	0.868457	-3.7169
Gm16551	chr9:74848436-74852872	7.9737	0.612927	-3.70146
Plce1	chr19:38524196-38785100	5.16373	0.402951	-3.67974
Kcnq4	chr4:120697472-120747176	16.7859	1.31109	-3.67841
Limch1	chr5:66745839-67057159	22.8104	1.80414	-3.66031

Col5a2	chr1:45374330-45503282	8.25474	0.656611	-3.65211
Ngp	chr9:110419807-110423012	8.23148	0.655285	-3.65096
Sparc	chr11:55394158-55420080	449.942	35.8506	-3.64967
Lrrc4	chr6:28480347-28888832	5.20926	0.419421	-3.63461
Bgn	chrX:73483634-73495936	38.635	3.11384	-3.63314
Slc35f1	chr10:52690500-53111622	18.9917	1.53496	-3.6291
Ntng1	chr3:109780049-110143472	14.5793	1.19496	-3.60889
Plekha4	chr7:45526329-45554229	40.6349	3.33491	-3.607
Ndrp1	chr15:66929317-66969641	169.853	13.9414	-3.60684
Zcchc24	chr14:25711639-25768856	11.8036	0.977873	-3.59344
Egr2	chr10:67537868-67542188	17.3605	1.43991	-3.59177
Tmem28	chrX:99821068-99846345	5.94622	0.500392	-3.57084
Sema5a	chr15:32244812-32696341	16.8652	1.42085	-3.56922
Slc17a7	chr7:45163920-45176139	99.4313	8.43941	-3.55849
Cox7a1	chr7:30184170-30186030	8.40184	0.713997	-3.55671
Esrrg	chr1:187609005-188214884	12.0086	1.02165	-3.55509
Sfrp1	chr8:23411501-23449632	14.7879	1.25957	-3.55342
Shc4	chr2:125627446-125724148	10.1574	0.866664	-3.55091
Mfap4	chr11:61485443-61488704	7.10272	0.610132	-3.54118
Itgb5	chr16:33829664-33949338	9.74407	0.838363	-3.53888
Pid1	chr1:84036292-84284645	6.98671	0.605778	-3.52775
Mme	chr3:63295434-63383713	7.49425	0.658162	-3.50927
Afap1l2	chr19:56912353-57008575	9.9244	0.879094	-3.49689
Fkbp9	chr6:56832058-56879360	28.0435	2.50325	-3.48579
Slc9a3r1	chr11:115163340-115181178	45.1303	4.05773	-3.47535
Plekha1	chr7:100643895-100662394	106.665	9.63659	-3.46842
Slit2	chr5:47983154-48306282	6.95541	0.628728	-3.46763
Prss12	chr3:123446912-123506602	11.6342	1.05308	-3.46568
Hhat1	chr9:121784015-121792507	17.1002	1.55341	-3.4605
Kif19a	chr11:114765388-114790575	7.03806	0.642715	-3.45293
Pcdh7	chr5:57718020-58132240	16.6081	1.51855	-3.45112
Clrn1	chr3:58844027-58885212	6.78095	0.621293	-3.44814
H2-Eb1	chr17:34305866-34316674	9.79743	0.900041	-3.44434
Lancl3	chrX:9199972-9268085	9.46441	0.87436	-3.43621
Ntrk2	chr13:58806568-59133970	46.2385	4.36039	-3.40657
Dcn	chr10:97479499-97518162	111.308	10.5119	-3.40447
Syt2	chr1:134646680-134749417	80.1341	7.5725	-3.40357
Mag	chr7:30899182-30914832	10.9632	1.04016	-3.3978
Ndst4	chr3:125404090-125724986	16.6083	1.58038	-3.39356
Lpar1	chr4:58435251-58553491	44.2857	4.26764	-3.37533
Sbspon	chr1:15853861-15892722	5.23768	0.505002	-3.37457
Fa2h	chr8:111345137-111393821	15.5782	1.50761	-3.36919
Notch1	chr2:26457901-26503822	6.86269	0.66804	-3.36077
Sv2b	chr7:75114894-75331419	81.7942	7.99197	-3.35538
Sdc4	chr2:164424246-164443188	31.4659	3.07479	-3.35523
Omg	chr11:79339891-79581609	10.5255	1.03362	-3.34811
Pvalb	chr15:78191117-78206351	101.564	10.0061	-3.34343
Rnf128	chrX:139563339-139673145	5.7481	0.573888	-3.32424
Lgi3	chr14:70530820-70538324	66.7493	6.69236	-3.31816
Hs3st2	chr7:121392295-121501768	27.4816	2.77199	-3.30947
Mxra8	chr4:155839679-155844102	14.8885	1.50534	-3.30603
Ctsc	chr7:88278092-88310875	7.84143	0.797797	-3.29702
Tbx2	chr11:85832614-85841948	9.8292	1.00398	-3.29135

Creg2	chr1:39618405-39651182	6.97584	0.716755	-3.28282
Epha6	chr16:59613320-60605531	5.67428	0.586697	-3.27375
Htr7	chr19:35958728-36057360	6.60622	0.683087	-3.27368
Gabrg1	chr5:70751046-70842617	7.45254	0.774671	-3.26608
Fam107a	chr14:8296277-8309776	5.78171	0.602355	-3.26281
Cald1	chr6:34709443-34775469	12.9579	1.35248	-3.26015
Qk	chr17:10206470-10319361	61.5446	6.43838	-3.25686
Fgl2	chr5:21292960-21424677	8.14094	0.855365	-3.25058
Fgf9	chr14:58072685-58112720	7.38422	0.782698	-3.23792
Bcat1	chr6:144993834-145076157	16.0024	1.69719	-3.23707
Ston1	chr17:88626554-88645724	8.04137	0.857758	-3.2288
Antxr1	chr6:87133852-87335775	7.72148	0.825728	-3.22514
Fam19a2	chr10:123264075-123741204	22.5623	2.41491	-3.22387
Gpam	chr19:55069733-55099447	21.8238	2.34424	-3.21871
Pbxip1	chr3:89436703-89450952	7.41001	0.796887	-3.21703
Ctsk	chr3:95499209-95509387	6.35636	0.687518	-3.20873
Plscr4	chr9:92457377-92492516	5.84289	0.635708	-3.20025
Pdzd2	chr15:12357053-12592556	9.68724	1.05433	-3.19975
Metrn1	chr11:121702426-121717389	5.73036	0.62558	-3.19536
Sh3bgr	chr16:96200469-96228933	18.6019	2.03652	-3.19127
Cntf	chr19:12763527-12796123	22.6159	2.48451	-3.18631
P2rx6	chr16:17561884-17572012	14.4395	1.59217	-3.18095
Jag1	chr2:137081450-137116520	7.52089	0.829902	-3.17989
Pls1	chr9:95752641-95845279	10.8785	1.20103	-3.17914
Tagln	chr9:45863690-45936058	15.4728	1.7199	-3.16933
H2-Ab1	chr17:34263226-34269418	11.3641	1.26749	-3.16444
Scara3	chr14:65919394-65953744	5.3096	0.598083	-3.15018
Cyp2d22	chr15:82370526-82380260	6.86665	0.773666	-3.14982
Vsnl1	chr12:11325244-11436649	98.6559	11.1329	-3.14758
Shox2	chr3:66973265-66981771	5.12968	0.579471	-3.14606
Lgi2	chr5:52537863-52566280	19.917	2.28186	-3.12572
Ryr2	chr13:11553102-12106945	8.46634	0.972755	-3.12159
Mgst1	chr6:138140536-138156752	17.1533	1.9763	-3.11761
Gulp1	chr1:44551670-44796836	8.49719	0.987825	-3.10466
Coro6	chr11:77463912-77469501	11.7761	1.36956	-3.10408
Rasl10b	chr11:83410071-83421038	21.9423	2.56074	-3.09908
Nes	chr3:87971092-87980451	8.04752	0.947718	-3.08601
P2rx7	chr5:122643910-122691432	5.55197	0.654403	-3.08475
Fcgrt	chr7:45092992-45103822	18.6433	2.21879	-3.07081
Grhpr	chr4:44981410-44990696	7.21735	0.860097	-3.0689
Pnmal2	chr7:16944681-16948828	12.1941	1.47324	-3.04912
Abca8b	chr11:109933405-109995816	14.0633	1.70236	-3.04633
Kcna1	chr6:126636462-126645801	99.1854	12.0506	-3.04102
Matn2	chr15:34306680-34436240	34.3979	4.18158	-3.0402
Itgb4	chr11:115974724-116012719	7.85818	0.970158	-3.0179
Vwa1	chr4:155768494-155774561	36.1144	4.46135	-3.01702
Angptl4	chr17:33774899-33781575	9.28338	1.14799	-3.01554
Timp3	chr10:86048745-86498896	93.0543	11.5094	-3.01526
Cyp39a1	chr17:43667371-43751431	6.07857	0.753067	-3.01288
Sh3pxd2b	chr11:32347810-32428183	13.2238	1.63924	-3.01204
Slitrk1	chr14:108909988-108914239	12.6511	1.57583	-3.00507
Chadl	chr15:81663888-81697287	9.21761	1.15722	-2.99373
Meis2	chr2:115861263-116065058	7.48913	0.946096	-2.98474

Nefh	chr11:4938755-5042794	757.806	96.2175	-2.97746
Casp12	chr9:5345475-5373034	5.16157	0.657605	-2.97252
Hspg2	chr4:137468802-137570630	17.5662	2.24802	-2.96607
Cyp2j9	chr4:96568428-96591485	16.0874	2.07284	-2.95626
Slc36a2	chr11:55158467-55185077	8.5043	1.09738	-2.95413
Dmd	chrX:82948869-85205050	6.39557	0.828573	-2.94837
Serpinh1	chr7:99345374-99353239	37.6943	4.88711	-2.94729
Rassf8	chr6:145808382-145817584	5.27543	0.684644	-2.94586
Plxdc2	chr2:16356303-16755839	8.00547	1.05369	-2.92554
Frrs1l	chr4:56960135-56990391	13.1994	1.7441	-2.91992
Rasgrf2	chr13:91880406-91988042	9.99967	1.32437	-2.91657
Plip	chr8:94674894-94696242	31.3727	4.17334	-2.91024
Olfml2b	chr1:170644531-170682789	11.3565	1.51112	-2.90983
Col23a1	chr11:51289919-51583925	7.21712	0.961263	-2.90842
Syde1	chr10:78584502-78591964	5.36622	0.716861	-2.90414
Cela1	chr15:100674421-100687920	9.88513	1.32847	-2.89549
Clec2l	chr6:38663068-38680865	128.219	17.277	-2.89168
Faim2	chr15:99497004-99528165	54.0537	7.32331	-2.88383
Cabp7	chr11:4738820-4746778	12.9625	1.75968	-2.88095
Col5a1	chr2:27886424-28039510	5.27863	0.717108	-2.8799
Sparcl1	chr5:104079108-104114088	183.564	25.0465	-2.87361
Ntng2	chr2:29194820-29252993	25.9492	3.54405	-2.87222
Sfrp4	chr13:19623174-19632823	14.5396	1.99556	-2.86512
Arhgap19	chr19:41766587-41802084	13.974	1.91887	-2.86441
Grm4	chr17:27422387-27503533	10.1537	1.40604	-2.8523
Col6a1	chr10:76708791-76726044	8.95657	1.24659	-2.84496
Galm	chr17:80127470-80185032	9.95351	1.38781	-2.8424
Yap1	chr9:7932000-8004596	8.8971	1.24152	-2.84123
Hspb2	chr9:50751071-50756635	5.04117	0.707618	-2.83271
Smtn	chr11:3517521-3539292	12.9367	1.83056	-2.82111
Calb1	chr4:15881263-15906709	27.6068	3.93815	-2.80944
S100b	chr10:76253835-76261319	416.322	59.6898	-2.80215
Dbi	chr1:120113279-120121096	279.419	40.2192	-2.79648
Thy1	chr9:44043383-44048579	508.722	73.6375	-2.78837
Pla2g16	chr19:7557458-7588545	19.8942	2.88128	-2.78756
Sipa1l1	chr12:82170015-82451784	7.33265	1.06506	-2.7834
Fam19a1	chr6:96113153-96657198	10.6261	1.54535	-2.78161
Hoxb8	chr11:96281904-96285325	5.38421	0.784156	-2.77952
Ppp1r9a	chr6:4903319-5165661	8.44914	1.23132	-2.7786
Fam212b	chr3:105704598-105720842	8.14496	1.1957	-2.76805
Nfia	chr4:97567874-98118876	15.63	2.29993	-2.76466
Fat1	chr8:44950207-45052257	6.67431	0.993606	-2.74787
Wwtr1	chr3:57455643-57575910	8.61247	1.28484	-2.74484
Smr2	chr5:88086555-88109053	9.52474	1.42168	-2.74408
Drp2	chrX:134404779-134456573	36.09	5.40295	-2.73978
Add3	chr19:53140442-53247326	19.041	2.85555	-2.73726
Dlg2	chr7:91090785-92449246	15.8526	2.40128	-2.72284
Rhbdl3	chr11:80300911-80355986	6.35879	0.963506	-2.72239
Rgcc	chr14:79288749-79301635	34.1231	5.18032	-2.71964
Mlip	chr9:77102083-77347870	11.6836	1.77668	-2.71723
Tmem229b	chr12:78961794-79007277	70.3215	10.7757	-2.70618
Lrrn2	chr1:132880354-132940005	10.1737	1.56312	-2.70234
Rell1	chr5:63908897-63968897	7.78305	1.19794	-2.69978

Syt12	chr19:4425456-4477143	6.1837	0.957147	-2.69166
Ncam2	chr16:81200696-81624287	10.6048	1.64412	-2.68933
Vim	chr2:13574310-13582826	312.036	48.3967	-2.68873
Trappc3l	chr10:34037596-34109815	51.4782	8.05384	-2.67621
Gas2l3	chr10:89408822-89443967	7.86012	1.23414	-2.67104
6530402F18Ri	chr2:29194820-29252993	6.46804	1.01626	-2.67005
Sep-09	chr11:117199660-117362325	23.0594	3.64082	-2.66302
Epn3	chr11:94489598-94499974	18.2142	2.88252	-2.65967
Baiap2l1	chr5:144244436-144361005	13.8361	2.19214	-2.65803
Foxo1	chr3:52268336-52350109	6.60329	1.04655	-2.65755
Sepp1	chr15:3270766-3280508	179.046	28.5544	-2.64855
Rsph9	chr17:46129276-46144198	6.75744	1.08564	-2.63793
Dag1	chr9:108204860-108263958	61.8579	9.94435	-2.63701
Slc43a3	chr2:84936645-84958509	19.8969	3.21972	-2.62754
Chp2	chr7:122219495-122222539	32.192	5.22032	-2.62449
Pcdhac1	chr18:36930284-37841872	19.8747	3.2426	-2.61571
Htra1	chr7:130936202-130985658	73.7341	12.0408	-2.6144
Lamc1	chr1:153218921-153332786	18.01	2.9482	-2.61089
Pon2	chr6:5264623-5298373	18.5683	3.04864	-2.60661
Pth1r	chr9:110722084-110747145	12.5398	2.06236	-2.60414
Gng7	chr10:80948623-81014925	5.5715	0.918	-2.6015
Sipa1l2	chr8:125418062-125492710	6.54748	1.0909	-2.58542
Gpx8	chr13:113035378-113091135	15.4392	2.58409	-2.57887
Cp	chr3:19957053-20035310	14.3095	2.40115	-2.57517
S100a16	chr3:90541222-90543151	35.2284	5.91706	-2.57379
Dhrs3	chr4:144892826-144927645	5.89778	0.991389	-2.57265
Ddn	chr15:98803781-98807925	5.69686	0.961112	-2.56739
Sema3g	chr14:31217872-31229511	11.1768	1.88807	-2.56552
Caskin2	chr11:115799351-115813592	9.45282	1.60161	-2.56122
Smpd2	chr10:41487171-41490340	5.52525	0.936956	-2.55999
Kcnk1	chr8:125995101-126030688	43.7343	7.42451	-2.5584
Lhfp	chr3:53041546-53261679	22.9137	3.90496	-2.55283
Gprc5b	chr7:118842217-118995211	30.3309	5.17323	-2.55165
Kcng4	chr8:119623853-119635680	5.17658	0.887003	-2.54499
Cxcr4	chr1:128588198-128592299	14.2569	2.45109	-2.54017
Thrsp	chr7:97412956-97417510	13.3788	2.30316	-2.53826
Col4a1	chr8:11198422-11312826	29.4197	5.08217	-2.53327
Pacsin3	chr2:91256164-91264680	5.56057	0.962771	-2.52997
Nr4a1	chr15:101266845-101274794	41.0628	7.11489	-2.52892
Fstl5	chr3:76074560-76710005	12.9749	2.25151	-2.52676
Cgnl1	chr9:71626508-71771602	26.7935	4.65777	-2.52417
B3galt5	chr16:96235800-96319858	8.93456	1.56191	-2.51609
Astn2	chr4:65380802-66404483	12.683	2.22068	-2.51382
Parp3	chr9:106470352-106476651	5.87475	1.02965	-2.51238
Gsn	chr2:35256358-35307902	116.688	20.4571	-2.51198
G0s2	chr1:193272159-193273188	9.52087	1.67021	-2.51106
Sulf2	chr2:166073898-166155683	19.6662	3.46445	-2.50502
Epb4.1l4b	chr4:57061725-57143156	7.25299	1.27878	-2.5038
Gstk1	chr6:42245934-42250441	7.84202	1.39367	-2.49233
Pard3	chr8:127064055-127612286	5.50679	0.980545	-2.48956
Prex2	chr1:10993464-11303682	5.36132	0.95525	-2.48864
Klhl13	chrX:23219270-23365082	11.152	1.99697	-2.48142
Nr2f2	chr7:70351949-70411146	12.2439	2.20149	-2.47551

Fads6	chr11:115283365-115297546	11.3872	2.05714	-2.4687
Fam181b	chr7:93079878-93081721	8.09885	1.4638	-2.468
Chst2	chr9:95400925-95407270	12.5514	2.28038	-2.4605
Kcnc1	chr7:46396467-46438704	21.3975	3.89842	-2.45648
Lynx1	chr15:74747855-74752979	157.363	28.7309	-2.45342
Gatm	chr2:122594472-122611277	101.873	18.6685	-2.44809
Pcdh9	chr14:93013699-93890669	22.4547	4.13015	-2.44275
Fn1	chr1:71585472-71653234	9.59686	1.76716	-2.44113
Rab34	chr11:78188426-78192193	7.62756	1.40459	-2.44107
Ppargc1a	chr5:51454248-51553921	5.94364	1.09743	-2.43722
Fam178b	chr1:36562695-36683183	27.914	5.17682	-2.43085
Cpne6	chr14:55510447-55517431	176.898	32.8155	-2.43047
Fgfr1	chr8:25518758-25575718	58.6167	10.8813	-2.42945
Kcnc3	chr7:44590885-44604751	32.2655	5.99438	-2.42831
Lbp	chr2:158306492-158332852	5.45301	1.01787	-2.4215
Ppap2b	chr4:105157346-105232767	35.0753	6.55448	-2.4199
Gabrb2	chr11:42419756-42632591	5.35282	1.0025	-2.4167
Anxa1	chr19:20373433-20390671	5.86754	1.10015	-2.41506
Kazald1	chr19:45076138-45079289	5.16113	0.969525	-2.41234
Fgf11	chr11:69796067-69801716	6.27778	1.19037	-2.39884
Eln	chr5:134702595-134747254	7.15667	1.36641	-2.3889
Cbln2	chr18:86713047-86718283	20.4512	3.90535	-2.38866
Rcsd1	chr1:165648944-165708094	6.5528	1.25387	-2.38572
Tmem163	chr1:127490341-127678021	17.5376	3.37005	-2.37961
Cdc42ep1	chr15:78842646-78855529	7.0332	1.36037	-2.37018
Relt	chr7:100845847-100863413	8.56521	1.66179	-2.36575
Fxyd7	chr7:31042514-31051454	231.684	45.2761	-2.35534
Hs3st1	chr5:39613934-39644631	8.11326	1.59272	-2.34879
Nfasc	chr1:132564689-132741797	36.9147	7.26481	-2.3452
Flt3	chr5:147330741-147400489	8.79299	1.73178	-2.3441
Mboat2	chr12:24831598-24960299	22.7847	4.49233	-2.34253
Fam198b	chr3:79885929-79946278	9.73123	1.92898	-2.33478
Chpt1	chr10:88459586-88503970	12.9387	2.57725	-2.32779
Pxn	chr5:115506675-115555987	12.3559	2.46504	-2.32552
Emp1	chr6:135362930-135383173	6.46847	1.29207	-2.32374
Cadm4	chr7:24482022-24504533	70.3086	14.0618	-2.32192
Chrna3	chr9:55011342-55026559	9.20085	1.84125	-2.32108
Gpr158	chr2:21367566-21830542	40.6674	8.13834	-2.32107
Lgr4	chr2:109917646-110014257	20.1066	4.02562	-2.32039
Scn1a	chr2:66270781-66440837	28.2254	5.6526	-2.32001
Plscr2	chr9:92275601-92297752	5.28177	1.0595	-2.31764
Ldhb	chr6:142490248-142507943	130.996	26.4035	-2.31072
Slco5a1	chr1:12866549-12991135	8.62223	1.74367	-2.30593
Gsta4	chr9:78191965-78209349	16.0367	3.24334	-2.30583
Olfm2	chr9:20667985-20728214	6.72234	1.37158	-2.29313
Unc80	chr1:66468446-66699148	19.8359	4.05141	-2.29162
Rhoj	chr12:75308312-75401455	5.24169	1.07774	-2.28202
Htr3a	chr9:48899212-48911099	70.9188	14.6301	-2.27723
Kank1	chr19:25237201-25434496	6.58474	1.37	-2.26496
Nfix	chr8:84701456-84800338	5.1714	1.07596	-2.26493
Igsf21	chr4:140026851-140246811	13.4824	2.81361	-2.26059
Sgk1	chr10:21882183-21999902	24.1679	5.05052	-2.25859
Dbp	chr7:45705246-45718002	17.1149	3.57876	-2.25772

Negr1	chr3:156561793-157316464	8.87115	1.8731	-2.24369
Ust	chr10:8204752-8518825	22.1575	4.70093	-2.23678
Chrna7	chr7:63098691-63212526	34.4394	7.32868	-2.23243
Gal3st1	chr11:3983635-3999328	9.11073	1.94251	-2.22964
Heg1	chr16:33684465-33768195	7.07451	1.51188	-2.22629
Sorcs1	chr19:50143300-50678646	11.2034	2.39639	-2.225
Rcn3	chr7:45082913-45092213	14.1017	3.01871	-2.22387
Mt1	chr8:94179088-94180327	128.34	27.4935	-2.2228
Tmem47	chrX:81070643-81097875	52.8972	11.3417	-2.22156
Rgma	chr7:73310379-73419899	5.0141	1.08349	-2.21031
Phlpp1	chr1:106171868-106394245	6.60745	1.43626	-2.20178
Clu	chr14:65968482-65981545	251.457	55.0709	-2.19095
Iqsec1	chr6:90659597-90810123	33.9261	7.43489	-2.19001
Pcp4	chr16:96467605-96525793	419.103	91.9509	-2.18837
AI464131	chr4:41495600-41503075	8.40502	1.84435	-2.18814
Scn4b	chr9:45139041-45154061	144.293	31.7115	-2.18592
Lrrc4c	chr2:96318168-97631664	11.5447	2.54119	-2.18366
Capg	chr6:72544390-72562983	19.8828	4.39084	-2.17895
Arap2	chr5:62602445-62766177	9.42169	2.08957	-2.17278
Clic4	chr4:135213969-135272760	34.2337	7.60614	-2.17018
Shpk	chr11:73199481-73224506	7.39158	1.64957	-2.16379
Clmp	chr9:40685963-40784046	18.2657	4.09623	-2.15677
Sash1	chr10:8722218-8886070	8.57433	1.9301	-2.15135
Sult1a1	chr7:126672869-126676357	8.35574	1.88139	-2.15097
Scn8a	chr15:100870644-101045938	36.3577	8.27855	-2.13481
Tspan6	chrX:133891069-133898429	6.16762	1.40517	-2.13397
Rassf4	chr6:116633007-116673836	17.2808	3.94627	-2.13061
Kcnq3	chr15:65994914-66286224	5.03976	1.15566	-2.12464
F2r	chr13:95601788-95618433	10.0867	2.31431	-2.1238
Mal	chr2:127633225-127656695	70.8689	16.299	-2.12037
Lhfpl1	chrX:145290358-145348894	20.1078	4.62982	-2.11872
S100a9	chr3:90692629-90695721	28.9284	6.66451	-2.11791
Tcn2	chr11:3917077-3932078	17.4188	4.01677	-2.11654
Bace2	chr16:97356727-97439012	5.10275	1.17761	-2.11542
Mdga1	chr17:29827957-29887882	6.92624	1.60106	-2.11305
Lama4	chr10:38965514-39110188	13.0669	3.02725	-2.10984
Cthrc1	chr15:39076931-39087119	6.18176	1.43252	-2.10947
Kank4	chr4:98754891-98817537	30.1532	7.00402	-2.10606
Syt3	chr7:44384125-44400030	18.671	4.34501	-2.10337
Gng11	chr6:4003986-4008446	9.10329	2.12484	-2.09904
Hbegf	chr18:36504926-36515805	5.92081	1.38657	-2.09427
Rab31	chr17:65651725-65772752	13.1244	3.08167	-2.09047
Gja1	chr10:56377299-56390419	19.1208	4.50863	-2.08438
Ecscr	chr18:35713088-35721491	5.80319	1.36988	-2.0828
Jam3	chr9:27097383-27155421	30.5318	7.22031	-2.08018
Adam23	chr1:63445903-63596515	117.114	27.7044	-2.07972
Lamb1	chr12:31265293-31329639	28.5008	6.75975	-2.07596
Shroom2	chrX:152609508-152769486	7.06751	1.6791	-2.07351
Slc16a6	chr11:109440077-109573329	6.19415	1.4735	-2.07166
S100a4	chr3:90603769-90606045	35.8161	8.52247	-2.07127
Itih5	chr2:10153542-10256529	20.6955	4.92855	-2.07008
Phyhipl	chr10:70440667-70599291	44.8915	10.736	-2.06399
Tuba4a	chr1:75210828-75219253	179.361	43.1094	-2.0568

Hspb6	chr7:30553301-30555439	8.55716	2.05686	-2.05669
Rhobtb3	chr13:75869536-75943824	12.1141	2.92217	-2.05158
Nr1d1	chr11:98767931-98775377	13.1252	3.1715	-2.0491
Il34	chr8:110741828-110805924	13.4723	3.26259	-2.0459
Copz2	chr11:96849875-96861202	6.33057	1.53671	-2.04249
Stxbp5l	chr16:37107309-37384958	6.71742	1.63294	-2.04044
Cntn1	chr15:92051164-92341967	133.551	32.5727	-2.03565
Ndrp2	chr14:51905270-51913488	82.4777	20.2232	-2.02799
Tex40	chr19:6922425-6925380	5.96139	1.46459	-2.02515
Grm8	chr6:27275120-28134369	9.36516	2.30104	-2.02501
Epb4.1l2	chr10:25359797-25523518	28.3289	6.96479	-2.02412
Prkcb	chr7:122289124-122634401	17.6231	4.33283	-2.02409
Asic3	chr5:24413450-24417834	55.5911	13.7055	-2.02009
Cygb	chr11:116645594-116654313	24.0753	5.9422	-2.01849
Arhgef6	chrX:57231484-57338729	9.2474	2.28345	-2.01783
Tgfb3	chr5:107106569-107289595	15.8089	3.90405	-2.01769
Arhgef40	chr14:51984832-52020733	10.9518	2.709	-2.01533
Arhgef4	chr1:34801721-34812754	33.2762	8.25592	-2.01099
Chrm2	chr6:36333137-36524774	5.13508	1.27531	-2.00954
Vamp1	chr6:125215580-125222306	294.394	73.1802	-2.00822
Fam19a5	chr15:87544298-87759364	19.4303	4.84334	-2.00424
Pi16	chr17:29318881-29328902	5.60092	1.39668	-2.00366
D930028M14R	chr7:25152456-25156630	31.5562	7.89256	-1.99936
Dpysl4	chr7:139086000-139101791	6.52482	1.63442	-1.99716
Zeb2	chr2:44983511-45114084	12.8427	3.22343	-1.99428
Pbx1	chr1:168119363-168432169	11.5731	2.90488	-1.99422
Ehd2	chr7:15948986-15967535	19.0004	4.77005	-1.99395
Mfap3l	chr8:60632859-60676731	21.4545	5.40374	-1.98925
Phlda3	chr1:135766084-135769134	21.5701	5.43806	-1.98787
Ptk2b	chr14:66153256-66281052	10.8918	2.75609	-1.98255
Egr1	chr18:34861206-34864956	78.8381	19.9715	-1.98095
Cntn4	chr6:105677744-106699305	5.95131	1.51905	-1.97003
Asrgl1	chr19:9111718-9135566	21.2845	5.43817	-1.96861
Slc12a4	chr8:105943589-105966115	8.20358	2.10118	-1.96506
Frmpd4	chrX:167471305-168577233	8.94312	2.29317	-1.96344
Slc27a1	chr8:71568926-71586708	24.9366	6.41419	-1.95892
Calml4	chr9:62838786-62875917	11.9283	3.07677	-1.9549
Col4a2	chr8:11312828-11449287	16.5672	4.27547	-1.95417
Mfge8	chr7:79133767-79149060	8.88372	2.29791	-1.95084
Pvrl4	chr1:171370172-171388287	9.71545	2.51441	-1.95006
Ltbp4	chr7:27305140-27337612	9.97981	2.58437	-1.9492
Nrcam	chr12:44328884-44601846	20.6487	5.35426	-1.9473
Elfn1	chr5:139907942-139974724	13.2786	3.45912	-1.94063
Ptn	chr6:36715662-36811361	58.8375	15.3287	-1.9405
Rnf130	chr11:50025330-50125719	35.5496	9.29208	-1.93576
Cyr61	chr3:145646970-145649985	28.9348	7.57396	-1.93369
Aifm3	chr16:17489676-17507485	8.1168	2.12729	-1.9319
Tnfrsf12a	chr17:23660522-23677449	9.18984	2.40858	-1.93186
Adra2c	chr5:35278565-35281763	7.28412	1.91107	-1.93037
Efemp2	chr19:5474689-5481854	7.48938	1.96899	-1.92739
Insc	chr7:114745765-114850380	6.10612	1.6062	-1.92661
S100a8	chr3:90669070-90670034	39.4618	10.4023	-1.92356
Kcns1	chr2:164163618-164171113	34.1256	8.99663	-1.9234

Bai3	chr1:25067475-25829707	6.62058	1.74704	-1.92205
Tst	chr15:78399555-78405859	5.06021	1.33651	-1.92073
Ldlrad3	chr2:101950200-102186460	5.39257	1.42451	-1.92051
Brinp1	chr4:68761371-68954397	10.9991	2.90759	-1.91948
Whrn	chr4:63414909-63495991	7.89266	2.08958	-1.9173
Prima1	chr12:103196907-103242146	7.77854	2.06296	-1.91478
Fos	chr12:85473900-85477270	191.273	50.7324	-1.91465
Kctd12	chr14:102976580-102982637	5.7537	1.52623	-1.91451
Arhgef10	chr8:14911662-15001085	11.166	2.97605	-1.90764
Amotl2	chr9:102717803-102733417	6.86292	1.82937	-1.90748
Plekha2	chr8:25039143-25101811	8.07817	2.15742	-1.90472
Ogdhl	chr14:32322018-32347820	14.345	3.83162	-1.90452
Pcsk1	chr13:75089986-75132498	30.7619	8.22708	-1.90269
Anxa4	chr6:86736839-86793584	10.8054	2.89267	-1.90128
Arhgef3	chr14:27143992-27403911	10.427	2.79184	-1.90104
Nrarp	chr2:25180757-25183332	12.7331	3.42075	-1.8962
Clstn3	chr6:124430755-124464784	32.4001	8.71812	-1.89391
Cntnap1	chr11:101176116-101190720	52.6172	14.1763	-1.89205
Mgp	chr6:136872434-136875805	56.1066	15.1364	-1.89015
Impa2	chr18:67289222-67318841	5.18496	1.4039	-1.88489
Slc8a3	chr12:81197914-81333180	6.45292	1.76048	-1.87398
Plekhg5	chr4:152086862-152115404	5.12584	1.40349	-1.86877
Enah	chr1:181896385-182019980	31.6686	8.68309	-1.86677
Myh10	chr11:68691914-68816624	39.81	10.9343	-1.86427
Lphn2	chr3:148815585-148954635	6.64403	1.82821	-1.86163
Bai1	chr15:74516195-74589464	8.98018	2.47432	-1.85971
Sorbs3	chr14:70180467-70207671	12.6557	3.49379	-1.85692
Tyro3	chr2:119797739-119818103	14.9379	4.13663	-1.85245
Ctdsp1	chr1:74391608-74397285	9.97583	2.76338	-1.852
Hopx	chr5:77086985-77115123	146.112	40.489	-1.85148
Nefm	chr14:68119544-68131371	1526.75	423.19	-1.85109
Csrp1	chr1:135729196-135752229	69.4418	19.2635	-1.84994
Nsg1	chr5:38039229-38159467	58.9809	16.4636	-1.84097
Fgf18	chr11:33116977-33147400	8.89955	2.48733	-1.83914
Snta1	chr2:154376313-154408084	9.5487	2.67081	-1.83803
Dhh	chr15:98893026-98898540	27.9354	7.82425	-1.83607
Serpinb1a	chr13:32842091-32851185	36.3579	10.2389	-1.8282
Tpcn1	chr5:120534156-120588613	22.6167	6.40217	-1.82076
Ankrd29	chr18:12252356-12305720	16.5674	4.73012	-1.8084
Pcp4l1	chr1:171173263-171196268	189.449	54.1665	-1.80633
Vwa7	chr17:35016578-35028016	34.4356	9.85386	-1.80514
C030006K11Ri	chr15:76715275-76723845	6.16515	1.7665	-1.80324
Pcdh10	chr3:45378397-45439309	16.9015	4.86973	-1.79524
Zfp36l2	chr17:84183927-84187947	10.0283	2.89361	-1.79313
Ecm1	chr3:95734147-95739569	5.34965	1.55312	-1.78427
Nek6	chr2:38511696-38587490	7.63141	2.21761	-1.78294
Tns3	chr11:8431651-8664535	17.3398	5.04336	-1.78163
Hnmt	chr2:24002912-24049379	8.03238	2.34519	-1.77612
Tnfrsf1a	chr6:125349722-125362483	13.2894	3.88691	-1.77359
Slc39a1	chr3:90248191-90253612	14.351	4.20698	-1.77029
Asic1	chr15:99670717-99701130	31.4513	9.23602	-1.76778
Fam155a	chr8:9206009-9771023	9.68929	2.86198	-1.75938
Ramp2	chr11:101246333-101248250	17.9183	5.30928	-1.75485

Gpc3	chrX:52272426-52619047	15.4852	4.60658	-1.74912
Pctp	chr11:89983416-90002894	18.0005	5.3615	-1.74732
Tbc1d10a	chr11:4186832-4215505	12.5814	3.75128	-1.74584
Pak1	chr7:97842938-97912381	44.4698	13.2773	-1.74386
Wls	chr3:159839694-159935175	25.1833	7.52547	-1.74261
Ntm	chr9:28995963-29963129	6.23039	1.86285	-1.74181
Ltbr	chr6:125306570-125313870	7.581	2.27541	-1.73626
Olfml3	chr3:103193822-103854618	17.6392	5.2957	-1.73589
Cacng5	chr11:107874604-107915055	9.00442	2.70511	-1.73494
Ptch1	chr13:63511532-63565520	7.75943	2.33709	-1.73124
Bcl2	chr1:106538177-106714290	12.0971	3.64418	-1.731
Arpp21	chr9:112065090-112348925	7.2922	2.2136	-1.71996
Camk1d	chr2:5293456-5714762	16.9505	5.16418	-1.71471
6430571L13Ri	chr9:107340639-107349683	5.64271	1.71922	-1.71464
C1qtnf1	chr11:118428456-118454995	22.6804	6.9306	-1.71039
Gng8	chr7:16891785-16895435	9.25247	2.8291	-1.70949
Itm2a	chrX:107397194-107403360	41.8335	12.8126	-1.70709
Opn3	chr1:175662420-175692632	5.81988	1.79446	-1.69744
Sgce	chr6:4674349-4747204	15.1228	4.69474	-1.6876
Fscn1	chr5:142960354-142973189	15.0379	4.68152	-1.68356
Srd5a1	chr13:69573448-69611463	7.49961	2.3374	-1.68191
Chn2	chr6:54039931-54430221	15.8871	4.958	-1.68002
Sort1	chr3:108284063-108361519	16.5974	5.18997	-1.67716
Mt2	chr8:94172617-94173567	76.9997	24.1133	-1.67502
Tead1	chr7:112679319-112906805	5.66077	1.78061	-1.66863
1190002N15Ri	chr9:94517863-94538081	19.8782	6.26193	-1.66651
Slc22a23	chr13:34179157-34345182	12.6591	4.00598	-1.65995
Abhd4	chr14:54254128-54269169	66.4998	21.0835	-1.65724
Adam17	chr12:21316391-21373632	8.34927	2.65196	-1.65459
Cnm1	chr19:43440435-43497213	9.20314	2.92519	-1.6536
Endod1	chr9:14353989-14381242	186.025	59.1903	-1.65206
Nr1d2	chr14:18204055-18239106	18.4947	5.89195	-1.65029
St3gal3	chr4:117932152-118134946	11.7656	3.77258	-1.64095
Tesc	chr5:118027823-118061870	46.8229	15.0287	-1.6395
Zfp36l1	chr12:80107759-80113013	13.2581	4.25874	-1.63837
Parva	chr7:112427705-112591688	61.7935	19.8662	-1.63714
Prrg3	chrX:71963020-71972728	9.49706	3.05496	-1.63633
Slitrk3	chr3:73048124-73056943	22.912	7.39193	-1.63208
2310022B05Ri	chr8:124635755-124663369	24.661	7.97955	-1.62785
Sec14l2	chr11:4097039-4118729	9.00618	2.92173	-1.62409
Rcn1	chr2:105385947-105399319	16.5798	5.38031	-1.62367
Nrp2	chr1:62703316-62818692	15.6997	5.10068	-1.62197
Cyp2j6	chr4:96516137-96553651	22.0422	7.1634	-1.62155
Cpq	chr15:33083128-33653436	14.2881	4.65382	-1.61832
Rxra	chr2:27677200-27763319	7.63767	2.48884	-1.61766
Epas1	chr17:86753863-86833410	48.9765	15.9707	-1.61667
Abhd3	chr18:10644410-10706696	15.5885	5.08519	-1.61611
Zfp804a	chr2:82053657-82259878	7.15236	2.34298	-1.61008
Kcnh2	chr5:24319588-24351604	33.348	10.9381	-1.60824
B930041F14Ri	chr4:155694341-155696483	15.1733	4.97769	-1.60799
Kcnip1	chr11:33629340-33993193	17.4521	5.72824	-1.60724
Strbp	chr2:37569867-37647285	8.92605	2.9326	-1.60584
Ndp	chrX:16885521-16911764	9.56626	3.16237	-1.59695

Stx1b	chr7:127806843-127824531	64.7792	21.4625	-1.59371
Syndig1l	chr12:84677277-84698807	7.08531	2.35805	-1.58723
Ddit4	chr10:59949674-59951770	61.7588	20.5583	-1.58692
Sft2d2	chr1:165174340-165194433	9.31092	3.10164	-1.58589
Phospho1	chr11:95824499-95845731	26.4106	8.79936	-1.58565
Spock1	chr13:57421194-57908332	100.11	33.3959	-1.58385
Efh1	chr1:87264363-87310791	10.5939	3.53432	-1.58373
Sh3gl2	chr4:85205455-85389379	60.5803	20.2411	-1.58156
Ptchd2	chr4:148236856-148287965	6.06519	2.02698	-1.58122
Fam81a	chr9:70089309-70141557	12.1227	4.06269	-1.5772
Satb1	chr17:51736186-51833290	10.4825	3.51308	-1.57718
Map2	chr1:66175328-66442583	29.2416	9.80663	-1.57619
Cntfr	chr4:41657497-41697091	40.8066	13.7286	-1.57162
Ctnnal1	chr4:56810934-56865211	18.6752	6.28447	-1.57126
Glrx	chr13:75839885-75850151	18.6786	6.31517	-1.56449
Slc5a5	chr8:70882888-70892757	7.22275	2.4456	-1.56236
Tgfb2	chr9:116087694-116175363	10.3232	3.50313	-1.55917
Slc41a1	chr1:131828011-131848864	7.79671	2.64652	-1.55877
Wipi1	chr11:109573520-109611389	11.3462	3.85929	-1.55581
S100a1	chr3:90511033-90514330	27.8945	9.50313	-1.55351
Mob3b	chr4:34949073-35157484	6.38812	2.17823	-1.55223
Pkd2	chr5:104459456-104505819	6.21872	2.12099	-1.55188
Scn1b	chr7:31116523-31126945	193.692	66.127	-1.55045
Dclk2	chr3:86786149-86920884	17.4125	6.0082	-1.53511
Zfp385a	chr15:103313894-103340086	18.6448	6.44735	-1.53199
Cish	chr9:107296688-107301961	7.53431	2.61018	-1.52933
St5	chr7:109523910-109617147	6.23564	2.16089	-1.52891
Sema3f	chr9:107681501-107710475	12.2461	4.24658	-1.52794
Trim16	chr11:62820252-62842948	7.65988	2.65816	-1.52689
Tnfsf12	chr11:69682576-69696098	9.13249	3.17063	-1.52624
Gria3	chrX:41401300-41678601	5.90801	2.05337	-1.52468
Kcna2	chr3:107101566-107115005	69.7651	24.3011	-1.52148
Arhgap29	chr3:121953325-122016153	5.07345	1.77595	-1.51438
Cplx2	chr13:54371348-54383917	91.5765	32.083	-1.51317
Slitrk4	chrX:64269443-64276996	9.45339	3.31734	-1.51081
Rhbdf1	chr11:32209584-32222293	6.98968	2.45757	-1.50799
Adcy1	chr11:7063488-7178505	10.097	3.55615	-1.50553
Rimbp2	chr5:128760400-128953362	5.77428	2.03486	-1.50472
Mxi1	chr19:53310505-53375810	10.1103	3.56674	-1.50314
Slc6a8	chrX:73673132-73682500	15.5398	5.49319	-1.50025
C2cd2	chr16:97855208-97922633	9.48226	3.3614	-1.49617
Wnk2	chr13:49036301-49148328	5.0459	1.79009	-1.49508
Nptx1	chr11:119538718-119547820	62.0886	22.0872	-1.49112
Id3	chr4:136143821-136145392	71.5407	25.4703	-1.48995
Pcx	chr19:4510471-4621752	17.8705	6.37091	-1.488
Bhlhe40	chr6:108577035-108666925	12.3953	4.41993	-1.4877
Serp1nb1b	chr13:33084102-33094380	8.6381	3.09122	-1.48254
Fads2	chr19:10064163-10101503	74.7192	26.8055	-1.47895
Mxra7	chr11:116803399-116828046	16.5252	5.93019	-1.47852
Tceal6	chrX:135208685-135210687	9.04678	3.25228	-1.47595
S1pr3	chr13:51408617-51422797	50.9584	18.3313	-1.47501
Abcd2	chr15:91145870-91191807	8.68106	3.13521	-1.46931
Stbd1	chr5:92603050-92606579	50.1852	18.1272	-1.4691

Nat8l	chr5:33995983-34005916	105.018	37.9505	-1.46844
Mapkapk2	chr1:131053703-131097543	14.2798	5.16772	-1.46638
Wwc2	chr8:47827605-47990551	5.31608	1.92591	-1.46482
Tagln3	chr16:45711229-45724531	230.343	83.5932	-1.46233
Htr1d	chr4:136423523-136444401	18.5369	6.73259	-1.46117
Agap2	chr10:127078906-127093169	6.54103	2.37693	-1.46042
Erbp2ip	chr13:103818785-103920586	7.24944	2.63632	-1.45934
Lingo2	chr4:35706647-36951744	5.6638	2.0646	-1.45591
Cnp	chr11:100574938-100581739	94.8766	34.6607	-1.45275
Tgfbr1	chr4:47353304-47414924	6.26922	2.29209	-1.45162
Cebpd	chr16:15887285-16146851	6.82274	2.50178	-1.4474
Ifitm2	chr7:140954838-140955961	28.6905	10.5216	-1.44722
Clvs2	chr10:33512333-33624600	5.01973	1.84539	-1.44368
Esrra	chr19:6909697-6921808	25.207	9.28727	-1.4405
Scrt1	chr15:76516202-76522129	30.2916	11.1636	-1.44011
Col6a2	chr10:76595755-76623404	9.60968	3.54669	-1.43802
Faah	chr4:115996655-116017902	7.21931	2.67178	-1.43406
Ly6h	chr15:75564744-75567182	33.713	12.5092	-1.43031
Sdc2	chr15:32920722-33034721	12.5715	4.67019	-1.4286
B3galt1	chr2:68104671-68122882	14.8136	5.51171	-1.42635
Cd164	chr10:41519499-41531042	145.748	54.3047	-1.42433
Fosb	chr7:19302695-19310045	38.4316	14.3224	-1.42402
6030419C18Ri	chr9:58488602-58499742	67.4093	25.1221	-1.42399
Sec24d	chr3:123267495-123365636	5.9026	2.20543	-1.42029
Fam57b	chr7:126816884-126830219	111.33	41.7024	-1.41664
Ntrk3	chr7:78192113-78577838	29.22	10.957	-1.4151
Rimkla	chr4:119465284-119492598	56.1137	21.0567	-1.41408
Entpd1	chr19:40659793-40741602	6.35125	2.38472	-1.41322
Soat1	chr1:156428107-156474328	8.62368	3.24481	-1.41017
Vat1l	chr8:114205639-114374070	115.437	43.5114	-1.40765
Sulf1	chr1:12692429-12860372	10.002	3.7886	-1.40056
Ctso	chr3:81932615-81956725	5.43632	2.0592	-1.40054
Ache	chr5:137288253-137294466	62.0343	23.4999	-1.40041
Tmem56	chr3:121202009-121263316	34.9266	13.2718	-1.39597
Celsr2	chr3:108390847-108415494	9.02004	3.43379	-1.39333
Megf9	chr4:70431926-70534928	40.8033	15.5433	-1.39239
Ccdc157	chr11:4135159-4160293	7.93645	3.02455	-1.39177
Chchd10	chr10:75935572-75940672	79.5787	30.335	-1.3914
Cd81	chr7:143021783-143067930	105.319	40.1968	-1.38961
Lrp1	chr10:127538157-127621148	13.0741	4.99233	-1.38893
Rnd2	chr11:101468337-101471306	31.1892	11.9276	-1.38674
Atp11a	chr8:12757015-12868728	105.764	40.517	-1.38425
Cntnap2	chr6:45060060-47301371	53.0097	20.3186	-1.38346
Csad	chr15:102176997-102189043	6.66299	2.55594	-1.38231
Pwwp2b	chr7:139248481-139267253	5.20483	1.99934	-1.38033
Ksr1	chr11:79014800-79146354	5.23715	2.01611	-1.3772
Adamts1	chr16:85793827-85803115	5.9316	2.28407	-1.37681
Jam2	chr16:84774122-84826375	16.866	6.49747	-1.37617
Slc4a2	chr5:24425231-24440947	24.6259	9.48744	-1.37609
Crim1	chr17:78200247-78418152	6.92804	2.67145	-1.37482
Ptprd	chr4:75941236-78211895	5.41246	2.08741	-1.37457
Fam13a	chr6:58933535-59024502	7.30391	2.8205	-1.37272
Glr3	chr3:80843598-80913660	76.1778	29.4547	-1.37087

Ctns	chr11:73183132-73199019	11.6342	4.51044	-1.36703
Psph	chr5:129765557-129787253	9.1155	3.5406	-1.36433
Zfp36	chr7:28376783-28379228	58.0225	22.5454	-1.36378
Pcdh17	chr14:84443562-84537060	7.00822	2.72374	-1.36346
P2rx5	chr11:73160529-73172687	6.04563	2.35216	-1.36191
Ikbip	chr10:91083038-91102613	10.3041	4.01849	-1.3585
Sall2	chr14:52311176-52328670	8.74472	3.42676	-1.35157
Txnip	chr3:96555767-96566801	37.6929	14.8018	-1.34852
Ckmt1	chr2:121358640-121380940	213.358	83.8295	-1.34774
4931406C07Ri	chr9:15283336-15357788	10.8699	4.28656	-1.34244
Csrnp1	chr9:119971165-119984658	5.14864	2.03128	-1.3418
Smpd3	chr8:106252547-106337988	12.1851	4.81322	-1.34004
Dtx4	chr19:12466335-12501996	5.4597	2.15665	-1.34003
Aatk	chr11:120007315-120047145	60.6649	23.9899	-1.33843
Plekhg1	chr10:3740376-3967302	6.82457	2.70296	-1.3362
Hoxd1	chr2:74762979-74765142	16.6988	6.61489	-1.33596
Htr1b	chr9:81631391-81645156	6.60054	2.62054	-1.33272
Ppap2a	chr13:112800776-112927380	54.0447	21.4821	-1.33102
Mtap	chr4:89137369-89181090	11.6586	4.65551	-1.32438
Slc24a3	chr2:145242610-145641939	11.8614	4.76739	-1.31501
Sep-04	chr11:87578388-87590539	28.005	11.2672	-1.31356
Itga6	chr2:71786938-71858427	20.0813	8.08349	-1.3128
Tmc7	chr7:118535843-118584686	6.78059	2.73036	-1.31232
Fndc3b	chr3:27416161-27710439	5.1013	2.05428	-1.31223
Cpt1a	chr19:3323300-3385733	54.1929	21.8541	-1.3102
Kazn	chr4:142102389-142239401	15.8538	6.40483	-1.3076
Yes1	chr5:32611170-32687066	5.56137	2.24703	-1.30742
Cttnbp2nl	chr3:105001914-105053146	12.5393	5.06693	-1.30727
Lrrk2	chr15:91673223-91816124	10.8543	4.38769	-1.30673
Gas6	chr8:13465373-13494535	78.763	31.8719	-1.30523
Gm2a	chr11:55097984-55113028	10.9721	4.44262	-1.30436
Laptm4b	chr15:34238025-34284295	59.0952	23.9561	-1.30265
Rell2	chr18:37955558-37969731	71.0642	28.9049	-1.29781
Lurap1	chr4:116136727-116144616	6.01706	2.44896	-1.29689
Acsl6	chr11:54303823-54361539	48.3725	19.7084	-1.29538
Elmo1	chr13:20090506-20608356	26.8146	10.9256	-1.2953
Pou4f3	chr18:42394596-42396093	8.7204	3.55514	-1.29449
Golim4	chr3:75876182-75956949	17.9355	7.31659	-1.29357
Cfh	chr1:140085854-140183411	9.70794	3.96591	-1.29151
Mpzl1	chr1:165592180-165634541	14.4805	5.92511	-1.2892
Mtfp1	chr11:4091480-4095431	10.1266	4.1458	-1.28843
Ermp1	chr19:29609882-29648420	48.227	19.7498	-1.288
Nkain2	chr10:31689318-32889915	12.7566	5.22559	-1.28758
Htr3b	chr9:48935007-48964990	11.7577	4.81663	-1.28751
Slc20a2	chr8:22462613-22569616	7.21514	2.96192	-1.2845
Pros1	chr16:62854333-62929340	6.38568	2.62319	-1.28352
Prickle2	chr6:92370891-92706184	9.82021	4.03931	-1.28165
Kcnq5	chr1:21398402-21961942	6.93256	2.85743	-1.27867
Plat	chr8:22757743-22782848	7.65492	3.15578	-1.27839
Fbxo44	chr4:148152798-148160094	38.0899	15.7522	-1.27386
2410131K14Ri	chr5:118245226-118263114	7.50736	3.11353	-1.26975
Nf1	chr11:79339891-79581609	21.407	8.8908	-1.2677
Mettl9	chr7:121034444-121076835	12.8391	5.3408	-1.26541

Map7d2	chrX:159414577-159498947	189.067	78.678	-1.26487
Angptl2	chr2:33133418-33371494	8.0046	3.33435	-1.26342
Hoxb7	chr11:96286645-96290163	6.16815	2.58246	-1.25609
Gnai1	chr5:18265134-18360413	59.7728	25.0302	-1.25582
Tlcd1	chr11:78178148-78180819	7.00038	2.93449	-1.25432
Cnr1	chr4:33924631-33948831	12.0143	5.04595	-1.25155
Slc9a1	chr4:133369771-133423698	17.4539	7.3448	-1.24876
Abcg2	chr6:58596671-58692451	39.9816	16.8365	-1.24774
Gstt1	chr10:75783812-75798584	11.9991	5.05486	-1.24719
Ngfr	chr11:95568820-95587698	254.907	107.554	-1.24491
Slco3a1	chr7:74275417-74554780	18.7021	7.89807	-1.24362
Btdb11	chr10:85386813-85660292	5.72653	2.42337	-1.24065
Marcks1	chr4:129513580-129515981	11.1254	4.70922	-1.2403
Nr3c2	chr8:76902507-77243639	5.54409	2.34776	-1.23967
Spsb1	chr4:149896283-149955006	12.1764	5.16616	-1.23692
Slc6a17	chr3:107467547-107518018	57.9275	24.5995	-1.23562
Stk32c	chr7:139103637-139242973	23.0583	9.8032	-1.23396
Dcun1d4	chr5:73481054-73560794	19.5436	8.32429	-1.2313
Lmo4	chr3:144188529-144205255	22.557	9.60908	-1.2311
Dock5	chr14:67751927-67933572	13.8497	5.90966	-1.2287
Ell2	chr13:75707483-75772358	11.3074	4.85331	-1.22023
Plcb1	chr2:134786163-135475258	8.63125	3.72633	-1.21181
Slc38a1	chr15:96571417-96642913	15.4975	6.69967	-1.20988
Socs3	chr11:117966086-117969366	36.5794	15.8162	-1.20963
Aldoc	chr11:78324197-78326760	92.7866	40.2529	-1.20482
Nrsn2	chr2:152345668-152376566	5.17561	2.24538	-1.20477
Mpp2	chr11:102057016-102088515	7.66258	3.3273	-1.20348
Mansc1	chr6:134609206-134632488	5.38926	2.34268	-1.20193
Scarb1	chr5:125277086-125341094	11.3725	4.95366	-1.19898
Fbxo2	chr4:148160667-148166417	204.747	89.2248	-1.19833
Cables2	chr2:180258538-180273465	11.0985	4.85462	-1.19293
Col16a1	chr4:130047839-130099277	5.88578	2.57723	-1.19141
Resp18	chr1:75272201-75278380	105.52	46.2174	-1.19101
Dgat2	chr7:99153662-99182713	7.94136	3.48702	-1.18739
Asah2	chr19:31984650-32103140	10.2727	4.51344	-1.18652
Secisbp2l	chr2:125736985-125782870	49.5331	21.7868	-1.18494
Atp1b1	chr1:164307674-164458355	730.843	321.556	-1.18449
Fam213b	chr4:154896429-154899043	47.9384	21.0977	-1.1841
Fgf1	chr18:38838672-38971274	223.184	98.2757	-1.18333
Dexi	chr16:10530206-10543054	32.5904	14.3993	-1.17845
Extl2	chr3:116007448-116029016	37.6849	16.6537	-1.17814
Oat	chr7:132557474-132576398	52.5569	23.2978	-1.17369
Soga1	chr2:157010441-157079265	5.06129	2.24445	-1.17314
Cyp1b1	chr17:79706952-79715041	6.99411	3.10691	-1.17066
Adcy3	chr12:4133396-4240123	7.76877	3.45525	-1.1689
Limd1	chr9:123478700-123521552	5.81346	2.58579	-1.16879
Ddah2	chr17:35059034-35062099	16.5143	7.35969	-1.166
Zak	chr2:72285636-72442610	8.6358	3.85058	-1.16526
Clybl	chr14:122181693-122451146	18.9167	8.45687	-1.16147
Hsd17b11	chr5:103989764-104021796	62.2216	27.8939	-1.15746
Nfib	chr4:82290172-82505779	10.7334	4.81675	-1.15597
Ryk	chr9:102834919-102908307	7.60275	3.41213	-1.15585
Slc1a5	chr7:16781345-16798274	13.2701	5.95676	-1.15558

Otud7b	chr3:96080595-96161129	12.9196	5.81468	-1.15179
Ablim2	chr5:35757879-35884979	13.1203	5.91776	-1.14867
Oprl1	chr2:181715015-181720985	8.79847	3.96903	-1.14846
Spred1	chr2:117121070-117182277	21.1438	9.54993	-1.14667
Map1b	chr13:99421463-99516602	752.194	340.085	-1.14521
Kitl	chr10:100015823-100100412	23.8046	10.7671	-1.14461
Nefl	chr14:68083883-68087737	2464.02	1121.4	-1.13572
Col5a3	chr9:20770049-20815034	15.2275	6.93316	-1.1351
Myl6b	chr10:128494156-128498685	9.81871	4.47341	-1.13416
Asb13	chr13:3634031-3651779	28.4598	12.9675	-1.13402
Rps6ka1	chr4:133847290-133887797	5.09872	2.32523	-1.13276
Kcnn4	chr7:24370262-24385212	7.90658	3.61177	-1.13035
Slc4a4	chr5:88887259-89239656	22.3113	10.213	-1.12736
Casc4	chr2:121866969-121936207	24.4771	11.2218	-1.12513
R3hcc1	chr14:69697303-69707580	13.3636	6.13156	-1.12399
Zfp365	chr10:67886104-67912662	27.0487	12.4159	-1.12337
Cdk17	chr10:93160875-93241342	11.7422	5.39181	-1.12286
Crtac1	chr19:42283036-42431783	15.4585	7.11016	-1.12045
Nptn	chr9:58582239-58741559	226.019	104.322	-1.1154
Hmgn1	chr16:96121587-96127725	23.3538	10.7806	-1.11522
Slc35b2	chr17:45564151-45567669	13.9649	6.44717	-1.11507
Gprc5c	chr11:114851531-114872617	15.9249	7.35424	-1.11463
Shisa4	chr1:135371455-135375063	47.1132	21.7808	-1.11307
1700086L19Ri	chr12:74284275-74295950	8.62843	3.98937	-1.11294
Vgll4	chr6:114862091-114921752	11.1172	5.14184	-1.11243
Cadps2	chr6:23262773-23839421	12.6614	5.87663	-1.10737
Tjp1	chr7:65296164-65371244	12.7833	5.94156	-1.10535
Agl	chr3:116739998-116808166	25.1387	11.6845	-1.10531
Csdc2	chr15:81936758-81950941	34.772	16.1715	-1.10448
Il11ra1	chr4:41760442-41774176	6.17228	2.87143	-1.10404
6430548M08R	chr8:120114151-120165307	53.167	24.8385	-1.09795
Ptrf	chr11:100956735-100970617	27.973	13.0721	-1.09755
Nfkb1	chr3:135584654-135691547	7.86843	3.67912	-1.09671
Foxj1	chr11:116330703-116335354	9.39115	4.39158	-1.09656
Plcb4	chr2:135741829-136013068	12.9215	6.04479	-1.09601
Kifc3	chr8:95081200-95142540	8.78105	4.11033	-1.09514
Zyx	chr6:42349827-42380558	31.3461	14.7074	-1.09175
Kif1c	chr11:70700547-70731970	7.19399	3.37544	-1.09172
Opcml	chr9:27791268-28925048	23.5295	11.0465	-1.09088
Comp	chr8:70373547-70382066	6.39873	3.01342	-1.08638
Rab30	chr7:92741713-92837117	9.25727	4.36239	-1.08547
Hebp2	chr10:18540122-18546076	29.7194	14.006	-1.08536
Ppm1h	chr10:122678761-122945793	29.6762	13.9937	-1.08452
Plxna2	chr1:194619828-194816868	21.5376	10.1588	-1.08413
Apbb2	chr5:66298724-66618817	21.9977	10.4003	-1.08072
Gas2	chr7:51879144-51994458	7.49744	3.54963	-1.07873
Rapgef5	chr12:117516478-117756978	11.0949	5.26012	-1.07673
Wfs1	chr5:36966103-36988982	28.4161	13.5051	-1.07321
Tnfrsf21	chr17:43016554-43089188	107.557	51.1507	-1.07228
Slc39a14	chr14:70303466-70351424	6.43985	3.0627	-1.07222
Itfg3	chr17:26212691-26244242	19.8154	9.42624	-1.07186
Bach1	chr16:87698953-87733346	5.14557	2.44816	-1.07163
Rnd3	chr2:51130438-51149111	9.61164	4.59127	-1.06589

Rem2	chr14:54476099-54480434	10.7027	5.11437	-1.06535
Sep-11	chr5:93093456-93174958	16.7801	8.04127	-1.06126
Gyg	chr3:20122083-20155116	94.5626	45.331	-1.06077
Inpp5j	chr11:3494271-3504821	19.1604	9.20597	-1.05748
Vwf	chr6:125552947-125686679	7.63825	3.67308	-1.05625
Pacs1	chr19:5133684-5273119	9.13783	4.3951	-1.05596
Snn	chr16:11066297-11134532	47.9723	23.0761	-1.0558
Pde4b	chr4:102254741-102607262	6.73167	3.24255	-1.05383
Kcnk3	chr5:30573986-30625270	6.80124	3.2793	-1.05241
Peli2	chr14:48120868-48260883	9.09826	4.38897	-1.05171
Ifngr1	chr10:19591957-19610225	16.0809	7.75901	-1.0514
Ifitm3	chr7:141009589-141010744	50.5241	24.3859	-1.05092
Atp8a2	chr14:59647740-60086834	67.7877	32.7494	-1.04956
Fam171a1	chr2:3118387-3227809	20.8079	10.0873	-1.04459
Lamb2	chr9:108479861-108490530	9.51887	4.61646	-1.044
Plod1	chr4:147909752-147936776	11.7884	5.7197	-1.04335
Atp2b3	chrX:73503085-73573270	21.0347	10.2092	-1.0429
Dlc1	chr8:36567738-36952442	13.9867	6.79585	-1.04133
Atp2b2	chr6:113745667-114042080	41.2503	20.1219	-1.03564
Rab11fip5	chr6:85334961-85374634	44.1667	21.5502	-1.03526
Rnaset2b	chr17:8128590-8147832	5.2354	2.55628	-1.03425
Nudt7	chr8:114133573-114152312	16.1364	7.8814	-1.0338
Luzp1	chr4:136469760-136549318	22.9614	11.2342	-1.03132
Gdf11	chr10:128884545-128891718	11.0703	5.4599	-1.01974
Sord	chr2:122234838-122265337	16.0903	7.94071	-1.01885
Fam126b	chr1:58522805-58586333	16.4941	8.14049	-1.01876
Reep3	chr10:67005074-67096988	10.6478	5.26767	-1.01531
Hcn1	chr13:117602319-117981028	23.6555	11.7425	-1.01043
Mab21l2	chr3:86224689-86782694	7.09614	3.53258	-1.00631
Tjp2	chr19:24094501-24225026	5.10703	2.54718	-1.00358
Aldh2	chr5:121567686-121593824	66.1298	33.0229	-1.00183
Rasal2	chr1:157135182-157420236	11.599	5.79522	-1.00106
Palm3	chr8:84021473-84042575	28.1291	14.0748	-0.998952
Adcy9	chr16:4284885-4420498	11.9706	5.99053	-0.998737
Mical2	chr7:112225835-112355194	8.48064	4.25317	-0.995633
Tcf12	chr9:71844251-72111819	9.35937	4.6949	-0.995316
Zfp191	chr18:24012266-24020771	16.377	8.21567	-0.995223
Bckdhb	chr9:83948780-84124240	15.851	7.9522	-0.995146
Psat1	chr19:15905122-15925059	32.4496	16.2831	-0.99482
Phlda1	chr10:111506285-111508649	11.7005	5.87795	-0.99319
Sema7a	chr9:57940134-57962865	43.3853	21.7957	-0.993159
Hes1	chr16:30065356-30067796	6.37874	3.20511	-0.992895
Agpat3	chr10:78271562-78351700	48.7026	24.4961	-0.991445
Adcy2	chr13:68620042-68999541	11.7739	5.9228	-0.991241
Selm	chr11:3514701-3517351	88.1792	44.4575	-0.988012
Arl5b	chr2:15055361-15079191	6.57365	3.31669	-0.986953
Rnf157	chr11:116336344-116413032	118.216	59.7213	-0.985104
Ado	chr10:67544510-67548955	10.8193	5.4738	-0.982988
Kit	chr5:75574986-75656721	23.8542	12.1066	-0.978447
Timp2	chr11:118301060-118355411	368.712	187.25	-0.977529
C530008M17R	chr5:76840598-76873554	14.0471	7.14613	-0.975044
Lrrc49	chr9:60587234-60688134	84.8574	43.1855	-0.974493
Atpaf1	chr4:115784813-115812314	6.55136	3.335	-0.974108

Plxnb2	chr15:89155545-89180788	7.08937	3.61166	-0.972994
Tenc1	chr15:102102987-102116401	6.80555	3.46767	-0.972746
Ndr3	chr2:156927341-156992111	61.122	31.1575	-0.972111
Nmnat1	chr4:149468786-149485142	5.62547	2.87247	-0.969682
Cds1	chr5:101765129-101823852	28.9997	14.8583	-0.964768
Ctnnd2	chr15:30172592-31029343	21.1986	10.877	-0.962685
Lrp6	chr6:134446477-134566913	9.23492	4.74724	-0.960011
Oxa1l	chr14:54360840-54417702	15.1702	7.79896	-0.959889
Pcolce2	chr9:95637627-95695551	20.6551	10.6191	-0.959836
Lgals1	chr15:78926724-78930465	173.94	89.4927	-0.958747
Ier2	chr8:84661330-84662852	24.7225	12.7226	-0.958433
Per1	chr11:69098955-69109957	8.33332	4.29207	-0.957219
Prrt3	chr6:113493638-113501931	16.4018	8.45517	-0.955952
Mmp15	chr8:95352336-95374293	46.7876	24.1396	-0.954726
Pcdhac2	chr18:36930284-37841872	44.557	23.0055	-0.953674
Pygb	chr2:150786795-150831748	331.909	171.42	-0.95325
Rnf215	chr11:4135159-4160293	14.1334	7.31497	-0.950184
Ndufaf2	chr13:108052588-108158625	42.405	21.9887	-0.947472
Fuca1	chr4:135920725-135940300	15.8614	8.2363	-0.945453
Pxdn	chr12:29938035-30017658	7.20376	3.74416	-0.944109
Ggct	chr6:54985094-54992867	7.93236	4.12915	-0.941904
Ckb	chr12:111669354-111672338	344.38	179.287	-0.941732
Ilvbl	chr10:78574499-78584502	14.6343	7.62261	-0.941
Dcl1	chr3:55242525-55539068	48.4825	25.2572	-0.940767
Lmo1	chr7:109138571-109170308	9.31748	4.85653	-0.940014
Kctd1	chr18:14968684-15151446	7.46294	3.89244	-0.939072
Arhgef17	chr7:100869745-100932161	18.6709	9.74366	-0.938258
Tsc22d3	chrX:140539528-140600522	132.738	69.3709	-0.93618
Mtss1l	chr8:110721483-110741400	18.9029	9.8827	-0.935633
1810011O10Ri	chr8:24437615-24438946	9.19387	4.80675	-0.935611
Pigz	chr16:31933850-31946046	15.0259	7.85891	-0.935047
Fbxo31	chr8:121549442-121578806	61.5806	32.2298	-0.934081
Gpr153	chr4:152274361-152285337	21.3428	11.1727	-0.933767
Iqgap1	chr7:80711582-80803331	10.0614	5.28366	-0.929218
Npc1	chr18:12168729-12236386	16.4243	8.6294	-0.928497
Camk2g	chr14:20734872-20794088	127.027	66.7463	-0.928379
Slc25a29	chr12:108825877-108835876	5.94745	3.12521	-0.928317
Rgl1	chr1:152517529-152625111	22.3681	11.7663	-0.926782
H2-DMa	chr17:34122831-34139101	6.23419	3.28031	-0.92637
Ppt1	chr4:122836226-122859175	34.5838	18.2331	-0.923538
Slc29a4	chr5:142702100-142722490	21.1664	11.1627	-0.923086
Ttc39b	chr4:83220300-83324189	12.6052	6.65157	-0.922248
Haghl	chr17:25773775-25785586	56.8316	30.0128	-0.921118
Gadd45b	chr10:80930090-80932204	9.23552	4.88345	-0.919292
Lmtk2	chr5:144100435-144188204	8.53348	4.51441	-0.918595
Bend6	chr1:33852051-33907621	56.9043	30.1094	-0.918323
Fkbp7	chr2:76663033-76673098	6.20035	3.29075	-0.913931
Cxxc5	chr18:35829817-35861688	15.0501	7.98991	-0.913518
Zfp651	chr9:121760032-121771742	9.34925	4.9723	-0.910937
Lss	chr10:76531626-76562226	13.2072	7.02835	-0.910069
Zdhhc22	chr12:86983380-86988676	10.2419	5.46437	-0.90636
Pdk3	chrX:93764615-93832095	27.5094	14.6859	-0.90549
Wdfy2	chr14:62837689-62956886	13.5815	7.26086	-0.903427

St8sia1	chr6:142814230-142964452	18.9406	10.1307	-0.90275
Kcnk2	chr1:189207929-189402273	6.61575	3.53945	-0.902381
Gria4	chr9:4417892-4796234	29.0596	15.5532	-0.901804
Heatr5a	chr12:51875872-51971321	15.5287	8.31561	-0.901038
Aga	chr8:53511701-53523422	12.4625	6.6807	-0.899526
Camkk1	chr11:73019007-73042065	12.8457	6.89116	-0.898469
Caly	chr7:140069879-140082548	8.6109	4.62119	-0.897899
Shf	chr2:122348891-122368918	14.3839	7.72607	-0.896651
Gpr64	chrX:160390689-160498076	16.4661	8.84449	-0.896649
Ano4	chr10:88948993-89257790	14.9185	8.01579	-0.896187
Paqr9	chr9:95559816-95562121	30.5211	16.4079	-0.895415
Vstm2a	chr11:16257723-16284551	11.385	6.12494	-0.894363
Paqr8	chr1:20890621-20938756	22.2662	11.989	-0.893141
Ptpn13	chr5:103425191-103598361	7.20173	3.88003	-0.892275
Smad9	chr3:54755581-54801269	17.909	9.65131	-0.891891
Snap25	chr2:136713449-136782428	744.637	401.372	-0.891598
Ackr1	chr1:173331885-173333503	114.735	61.8528	-0.891396
Tor1aip1	chr1:156004598-156068859	8.1805	4.41029	-0.891317
Lzts2	chr19:45015175-45045772	9.42414	5.08573	-0.889908
Irs2	chr8:10986963-11054541	10.3221	5.57399	-0.88896
Slc30a1	chr1:191894071-191913247	6.8155	3.68552	-0.886953
Tm7sf3	chr6:146602275-146634592	22.0922	11.9474	-0.886841
Sdc3	chr4:130792536-130826318	64.1488	34.694	-0.886738
Jun	chr4:95049035-95052222	118.207	64.0068	-0.885021
Mctp1	chr13:76384960-77031810	13.3755	7.24454	-0.884627
Galnt2	chr8:124231393-124345723	10.3342	5.59986	-0.88396
Synj1	chr16:90936096-91044379	51.9966	28.1823	-0.883627
Susd4	chr1:182764905-182895654	37.9244	20.5801	-0.881872
Wwp1	chr4:19608299-19709004	12.2852	6.67441	-0.880209
Slc24a2	chr4:86983125-87230540	63.3139	34.4208	-0.87924
Focad	chr4:88094629-88411011	6.14994	3.34627	-0.878019
Pmp22	chr11:62951192-63386069	875.285	476.72	-0.87661
Fam102a	chr2:32535358-32569750	26.5366	14.471	-0.874823
Gcsh	chr8:116981827-116993449	53.1941	29.0117	-0.874633
Chgb	chr2:132781277-132795072	51.5181	28.1173	-0.873623
Calu	chr6:29348105-29380513	54.2177	29.6218	-0.872105
Apcdd1	chr18:62922326-62953195	5.39474	2.94826	-0.87169
Rxrg	chr1:167598361-167639623	5.54938	3.03327	-0.871451
9330102E08Ri	chr6:128169699-128183803	5.78629	3.16707	-0.869491
Enpp5	chr17:44078845-44086561	71.2358	39.0576	-0.866998
Lgmn	chr12:102394097-102439697	188.024	103.17	-0.865897
Ctdsp2	chr10:126978716-126999975	17.113	9.39949	-0.864436
Arhgef9	chrX:95048934-95166539	14.8642	8.16937	-0.863543
Grb10	chr11:11930498-12037420	10.8128	5.94393	-0.863258
Nfic	chr10:81396190-81427173	77.4962	42.6293	-0.86228
Plbd2	chr5:120476546-120503623	69.4885	38.2412	-0.861647
Amigo2	chr15:97244073-97385691	21.8272	12.0172	-0.861033
Cst3	chr2:148871731-148875468	413.606	227.914	-0.859764
Edil3	chr13:88821471-89323225	110.021	60.6635	-0.858879
Dock10	chr1:80501067-80758553	5.97374	3.29425	-0.858685
Tmem53	chr4:117251950-117268588	10.358	5.71627	-0.857605
H2-Q4	chr17:35379616-35384674	6.10836	3.38525	-0.85152
Ivd	chr2:118861999-118881357	12.1922	6.76126	-0.850595

Chml	chr1:175662420-175692632	8.37109	4.64512	-0.8497
Ezr	chr17:6738130-6782780	19.0796	10.5882	-0.849574
Dact3	chr7:16875316-16887301	12.3512	6.85561	-0.849295
Hey1	chr3:8663358-8667038	13.761	7.63872	-0.849188
Itm2c	chr1:85894509-85908698	180.56	100.408	-0.84661
Maged2	chrX:150806420-150814339	29.8403	16.6176	-0.844552
Bcar3	chr3:122419779-122530182	7.88578	4.39193	-0.844397
Gpr137c	chr14:45219716-45280976	9.53005	5.31066	-0.843593
Elovl5	chr9:77917364-77984519	122.516	68.3282	-0.84242
Arhgdig	chr17:26199182-26201350	84.2727	47.0452	-0.841017
Slc22a17	chr14:54906726-54913132	76.319	42.6558	-0.839299
Ehd3	chr17:73804840-73832093	81.9319	45.8059	-0.838893
Ahcy12	chr6:29768442-29912310	31.6014	17.6745	-0.838318
Kcnk4	chr19:6925689-6934515	5.19385	2.91195	-0.83482
Cplx1	chr5:108518553-108550027	533.362	299.185	-0.834076
Traf3	chr12:111166369-111267155	9.81435	5.50877	-0.833163
Mpp6	chr6:50110240-50198598	7.39065	4.15047	-0.832425
Ccdc184	chr15:98167805-98170134	8.86138	4.97842	-0.831843
1110008P14Ri	chr2:32379100-32381915	170.361	95.7207	-0.831694
Cyfp1	chr7:55842070-55962493	20.1487	11.3352	-0.829877
Synpo	chr18:60593989-60624305	11.3266	6.37661	-0.828848
Kcns3	chr12:11090201-11150842	23.3065	13.1257	-0.828344
Qsox1	chr1:155778154-155812899	23.6847	13.3431	-0.82786
Fam69b	chr2:26628456-26636497	30.9107	17.4236	-0.827064
Sacs	chr14:61138456-61258490	7.59747	4.28367	-0.826672
Slc19a2	chr1:164249045-164265385	9.14569	5.15714	-0.82652
Abhd2	chr7:79273265-79361601	53.6986	30.2841	-0.826323
Efr3a	chr15:65787040-65873812	27.406	15.4579	-0.82615
Zfp423	chr8:87661809-87959595	6.0219	3.40552	-0.822343
Ptprs	chr17:56412425-56476480	86.8029	49.1145	-0.821594
Arhgap35	chr7:16494472-16614993	49.5237	28.0281	-0.821248
Tenm3	chr8:48225664-48674690	10.087	5.71656	-0.819281
Sphkap	chr1:83255780-83408200	9.18719	5.20773	-0.818968
Lima1	chr15:99778467-99875456	5.60807	3.1818	-0.817661
Plekhh1	chr12:79029162-79103939	5.90942	3.35297	-0.817577
Cdr2l	chr11:115381915-115396132	40.4617	23.0282	-0.813151
Tmem245	chr4:56876012-56947429	7.72542	4.39698	-0.813101
Efcab14	chr4:115738072-115777327	14.0038	7.97253	-0.812712
Them6	chr15:74721233-74724373	151.154	86.0645	-0.812533
Smim19	chr8:22462613-22569616	15.2035	8.66286	-0.811487
Shh	chr5:28456839-28719209	10.9404	6.23915	-0.810245
Phyh	chr2:4918995-4938743	48.1998	27.5324	-0.807897
Scamp2	chr9:57560943-57588798	9.95445	5.68866	-0.807254
Gpt2	chr8:85492616-85527558	26.2042	14.975	-0.807245
Cdh2	chr18:16588876-16809049	22.6199	12.9288	-0.807
Mdh1	chr11:21556691-21571934	321.438	183.767	-0.806665
Cflar	chr1:58711507-58759203	8.27585	4.73366	-0.805951
Neat1	chr19:5842301-5845478	26.3253	15.0584	-0.805881
9530068E07Ri	chr11:52396427-52408723	79.2449	45.4378	-0.802425
Sccpdh	chr1:179668230-179687184	47.5252	27.279	-0.800899
Fzd3	chr14:65192440-65262463	7.08949	4.07173	-0.80004
Depdc5	chr5:32863720-32994233	17.2622	9.91511	-0.799917
Dagla	chr19:10245264-10304877	6.91777	3.97607	-0.798965

Fam210a	chr18:68260184-68300333	6.29907	3.63618	-0.792716
Rmdn2	chr17:79614899-79682152	8.13346	4.69736	-0.792019
Mbp	chr18:82475122-82585637	593.438	343.218	-0.78997
Mgat5	chr1:127204985-127482972	9.21118	5.32755	-0.789913
Zfp219	chr14:51984832-52020733	10.7308	6.22287	-0.786111
Ephx1	chr1:180989555-181017495	66.9222	38.8092	-0.786087
Spsb4	chr9:96943481-97018355	5.25271	3.04721	-0.785572
Etv6	chr6:134035706-134270147	5.58357	3.23961	-0.785367
Kcnip3	chr2:127456497-127522094	85.5713	49.6871	-0.784255
Dlg1	chr16:31663442-31873356	6.56169	3.81057	-0.784061
Arhgap5	chr12:52516076-52567851	14.6771	8.52884	-0.783147
Nr3c1	chr18:39410544-39487245	12.1163	7.04338	-0.782613
Sp1	chr15:102406315-102436404	5.90861	3.43487	-0.782563
Rap1gap	chr4:137664725-137729861	34.8279	20.2535	-0.782071
Fut8	chr12:77238103-77475996	28.7673	16.7629	-0.779158
Inf2	chr12:112588783-112615557	14.5271	8.47031	-0.778264
Endog	chr2:30171523-30178459	9.71398	5.66607	-0.777715
Rapgef4	chr2:71981214-72257474	50.5687	29.5007	-0.777495
Phldb1	chr9:44686307-44735198	10.6933	6.23837	-0.777463
Atp2a2	chr5:122453512-122502225	120.303	70.233	-0.776456
Ttyh2	chr11:114344525-114757886	5.57206	3.25361	-0.776166
Nxt2	chrX:142226769-142239700	16.0641	9.38502	-0.775409
Nsun4	chr4:116031769-116053876	7.53558	4.40541	-0.774442
Tmem64	chr4:15265819-15286753	16.6794	9.75631	-0.773655
Ndc1	chr4:107367783-107414338	9.29572	5.44035	-0.772868
Sptb	chr12:76580487-76710547	18.7372	10.9672	-0.772705
Anp32a	chr9:62341342-62378805	26.8296	15.731	-0.770213
Arhgap44	chr11:64979034-65162961	37.2689	21.8575	-0.769839
Gpr125	chr5:49959950-50058996	10.3094	6.0478	-0.769481
Hsd12	chr4:59581562-59618694	41.6312	24.444	-0.768183
Crtap	chr9:114368323-114390712	8.13491	4.78603	-0.765298
Ufsp1	chr5:137294668-137295664	8.24736	4.86008	-0.762952
Ppif	chr14:25694169-25701282	13.5474	7.98546	-0.762569
Tcf4	chr18:69344491-69687967	7.52204	4.43862	-0.761013
Prps2	chrX:167346332-167382699	10.5887	6.24918	-0.760792
Cnst	chr1:179546528-179627473	56.9871	33.674	-0.758999
A630007B06Ri	chr19:56790962-56813683	13.1814	7.7913	-0.758567
Mfsd2a	chr4:122946850-122961188	18.5486	10.9672	-0.758112
Lrrc20	chr10:61475832-61582228	11.9572	7.0714	-0.757816
Prdx4	chrX:155323919-155338454	28.1236	16.6331	-0.757724
Kat2b	chr17:53566970-53672721	9.92688	5.87114	-0.757699
Rab11fip4	chr11:79591211-79694012	24.1487	14.2842	-0.757528
Rcbtb1	chr14:59201227-59237265	23.8342	14.0994	-0.757401
Slc6a6	chr6:91684066-91759063	7.65895	4.53823	-0.755019
Ntrk1	chr3:87778243-87795162	146.787	87.0517	-0.753776
Mgrn1	chr16:4886099-4941020	18.4536	10.9463	-0.753456
Gid4	chr11:60417144-60445277	12.5474	7.44505	-0.753035
Cdc42ep2	chr19:5917555-5924816	19.2858	11.4586	-0.75111
Nxpe3	chr16:55839952-55895279	12.4913	7.42637	-0.75019
Vamp3	chr4:151047304-151057953	16.1245	9.59193	-0.749361
Auh	chr13:52835109-52929677	62.2905	37.0661	-0.74891
Rnft2	chr5:118190735-118245025	10.6657	6.34802	-0.748597
Tmx2	chr2:84671310-84715164	82.0674	48.9136	-0.746574

Fxyd5	chr7:31032722-31042331	10.7294	6.39515	-0.746523
Pigx	chr16:32084415-32099727	7.38508	4.4101	-0.743803
Net1	chr13:3882017-3918220	8.17102	4.88365	-0.742555
Kcnq2	chr2:181075578-181135225	24.9988	14.9445	-0.742239
Slitrk5	chr14:111675114-111683135	9.40817	5.63184	-0.740309
Ptgr1	chr4:58965589-58987078	5.85155	3.50473	-0.739517
Bcas1	chr2:170346990-170427845	11.0806	6.63673	-0.739493
Cdc26	chr4:62394588-62408623	17.6594	10.5806	-0.739023
Phb	chr11:95666956-95680773	16.2794	9.75431	-0.73894
Srgn	chr10:62494427-62507755	14.8104	8.88452	-0.737249
Vwa8	chr14:78849177-79202310	15.2364	9.15432	-0.735001
Igf2r	chr17:12682405-12868143	8.23682	4.9649	-0.730322
Tspan3	chr9:56135883-56161070	188.015	113.339	-0.730211
Rgs2	chr1:143999337-144004149	6.10268	3.68023	-0.729648
Fkbp14	chr6:54577604-54593128	9.9556	6.01105	-0.727891
Tsc22d4	chr5:137745968-137768453	23.3848	14.1259	-0.72723
Eid1	chr2:125627446-125724148	37.715	22.7892	-0.726788
Efhd2	chr4:141858141-141874920	19.4762	11.7867	-0.724549
Lgalsl	chr11:20823354-20831108	14.9075	9.02621	-0.723844
Fbxo7	chr10:86021928-86048328	17.5642	10.6414	-0.722951
Alg9	chr9:50775224-50843639	6.00503	3.64045	-0.722055
St3gal5	chr6:72097607-72154570	24.3513	14.7637	-0.721946
Gtdc1	chr2:44564411-44861622	8.96559	5.44	-0.720793
Tmem123	chr9:7764076-7794332	8.12963	4.93359	-0.720553
Itm2b	chr14:73362231-73385271	451.969	274.34	-0.72026
Hrsp12	chr15:34484021-34495246	32.3336	19.6369	-0.719467
4931406P16Ri	chr7:34236713-34285609	7.54893	4.58514	-0.719306
Gm2115	chr7:84528953-84578339	26.0376	15.8175	-0.719079
Epb4.1l1	chr2:156420908-156543214	42.155	25.6242	-0.718199
Atp1a1	chr3:101576218-101604707	1087.2	661.802	-0.716151
Rapgef2	chr3:79062528-79145875	9.24585	5.63009	-0.715647
Entpd6	chr2:150749080-150771674	11.6602	7.10156	-0.715388
Cbfb	chr8:105170673-105217988	125.799	76.6224	-0.715281
Pip4k2a	chr2:18842255-18998121	37.8318	23.0483	-0.714936
Prkrir	chr7:98703362-98718061	14.7396	8.99514	-0.71248
Sptbn2	chr19:4711222-4752352	30.0605	18.359	-0.711381
Sh3d19	chr3:86084433-86130521	9.43115	5.76029	-0.711293
Sorbs1	chr19:40292039-40513812	58.1062	35.54	-0.709249
Iglon5	chr7:43472906-43490023	13.3418	8.17354	-0.706921
Lym5	chr6:145211133-145216542	20.8659	12.7887	-0.706277
Fam101b	chr11:76019194-76027782	7.94659	4.87682	-0.704395
Tbx3	chr5:119670861-119684724	7.61028	4.67042	-0.704395
Bak1	chr17:27018034-27036378	6.86878	4.21565	-0.704301
Flna	chrX:74223460-74246534	16.7307	10.2864	-0.701762
Smpd1	chr7:105554359-105558389	43.019	26.4507	-0.701664
Cabp1	chr5:115168690-115186121	127.522	78.4129	-0.701583
Cd200	chr16:45382134-45409053	43.6974	26.8961	-0.70015
Gm4980	chr7:99624066-99627103	24.5778	15.1287	-0.700071
Sez6l2	chr7:126950534-126970606	58.778	36.1963	-0.699435
Ggcx	chr6:72414307-72431106	5.16515	3.1829	-0.698471
Ldb3	chr14:34526698-34588681	5.23159	3.22543	-0.697756
Slc25a10	chr11:120491836-120501161	7.3031	4.5037	-0.697397
Epb4.1l3	chr17:69156809-69289987	255.603	157.643	-0.697246

Prkaca	chr8:83972977-83996442	168.203	103.766	-0.696869
E2f6	chr12:16810964-16826752	25.8778	15.9733	-0.696053
Abcg4	chr9:44273189-44288244	19.2357	11.8843	-0.694727
Hsd17b7	chr1:169949536-169969205	24.0389	14.8747	-0.692504
Dok5	chr2:170731806-170879775	5.38984	3.33751	-0.691469
Rnf26	chr9:44110780-44113051	15.9474	9.87585	-0.691349
Osbp2	chr11:3703730-3863903	6.32977	3.9247	-0.68957
Lrrc24	chr15:76715275-76723845	7.00572	4.34691	-0.688542
Cox5a	chr9:57521231-57532426	325.444	202.015	-0.687947
Cadm3	chr1:173334253-173367695	197.342	122.513	-0.687763
Nrg1	chr8:31818027-31918203	34.8248	21.6349	-0.686752
Cdh18	chr15:23036462-23474418	12.0425	7.48182	-0.686669
Dner	chr1:84369838-84696221	58.4211	36.311	-0.686085
Chga	chr12:102554968-102565027	106.543	66.2938	-0.684495
Xk	chrX:9272783-9313245	6.70342	4.17202	-0.684151
Rnf208	chr2:25242928-25244261	46.5738	28.995	-0.683714
Ninj1	chr13:49187546-49196251	19.7469	12.2986	-0.683137
Asah1	chr8:41340642-41374697	41.777	26.023	-0.682924
Dsel	chr1:111858701-111864918	7.22615	4.50265	-0.682453
Trip10	chr17:57249450-57263697	12.473	7.77463	-0.681964
Lcp1	chr14:75004109-75388146	61.0843	38.0893	-0.681416
S100a13	chr3:90514434-90524581	83.3079	51.97	-0.680775
Pdhb	chr14:8165990-8172992	73.899	46.1105	-0.680459
Tubgcp4	chr2:121171167-121271407	22.2198	13.874	-0.679461
Habp4	chr13:64161865-64186537	61.4006	38.3502	-0.679018
Siae	chr9:37613846-37648318	10.9902	6.8647	-0.678953
Sorl1	chr9:41968488-42124289	57.6161	36.0249	-0.677476
Foxo4	chrX:101254527-101260873	6.57925	4.11678	-0.676406
Txndc16	chr14:45134447-45219394	15.854	9.92351	-0.675925
Agap1	chr1:89454810-89895282	11.4998	7.20264	-0.675006
Gm7120	chr13:119487256-119610459	6.58435	4.1295	-0.673074
Dip2a	chr10:76263048-76345291	10.9985	6.90161	-0.672302
Mpi	chr9:57544267-57552752	32.6716	20.5216	-0.670897
Ctgf	chr10:24595441-24598682	8.67083	5.44751	-0.670574
Fam20b	chr1:156678570-156718910	35.7371	22.4571	-0.670249
Six4	chr12:73100258-73113245	12.0783	7.59412	-0.669462
Abl2	chr1:156558786-156649619	7.1971	4.53197	-0.667277
Mtx3	chr13:92844786-92858230	12.1656	7.66098	-0.667203
Bhlhb9	chrX:135885850-135891081	17.3999	10.9644	-0.666255
Ndufa12	chr10:94199008-94220948	23.8771	15.0495	-0.665912
Atp6v1g2	chr17:35236595-35238768	78.4557	49.4754	-0.665165
Atp5c1	chr2:10056030-10080510	150.965	95.3177	-0.663396
Abcg1	chr17:31057693-31117981	17.8968	11.3032	-0.662975
Lancl1	chr1:67000516-67038872	38.3511	24.2304	-0.662453
Mettl21a	chr1:64606479-64617168	7.01645	4.43401	-0.662128
Vkorc1	chr7:127893062-127895617	32.3424	20.4388	-0.662117
Tecr	chr8:83571697-83594491	329.347	208.213	-0.661548
Srgap2	chr1:131285250-131527361	7.73484	4.89411	-0.660325
Enpp2	chr15:54838678-54920146	7.59616	4.81336	-0.658226
Acss2	chr2:155518042-155562743	37.9424	24.0612	-0.657103
Tmbim6	chr15:99392946-99410049	151.87	96.3716	-0.656156
Got1	chr19:43499752-43524605	120.935	76.7778	-0.655476
Slc44a1	chr4:53440412-53622478	71.2694	45.2475	-0.655445

Klf2	chr8:72319061-72321654	13.3409	8.4774	-0.654159
Krt222	chr11:99233097-99244067	18.339	11.6541	-0.654071
Slc12a9	chr5:137314557-137333582	7.51979	4.77961	-0.6538
Ubttd2	chr11:32455371-32518709	15.1997	9.66815	-0.652727
Amer1	chrX:95420313-95444840	7.46344	4.75313	-0.650964
Eva1c	chr16:90830858-90904885	7.07297	4.50647	-0.650319
Chl1	chr6:103510875-103733035	18.7375	11.9756	-0.645831
Large	chr8:72814598-73352556	39.8424	25.4809	-0.64489
Fnta	chr8:25998721-26015601	63.4169	40.5642	-0.644661
Ankrd28	chr14:31700014-31830415	5.95258	3.80952	-0.643906
Podxl2	chr6:88842557-88874044	22.4889	14.4133	-0.641811
Cyp2u1	chr3:131290490-131303227	5.00679	3.20913	-0.641702
Eno2	chr6:124760054-124769509	310.035	198.734	-0.641593
Slc27a4	chr2:29802679-29817522	47.4651	30.4739	-0.639293
Sfxn5	chr6:85213050-85333422	11.593	7.44398	-0.639102
Sh3pxd2a	chr19:47260173-47464411	20.2646	13.0146	-0.638833
Slc12a2	chr18:57878677-57946821	45.4556	29.2053	-0.638231
Fam58b	chr11:78750505-78751729	9.22222	5.92714	-0.637778
Zfyve21	chr12:111814169-111828388	8.94175	5.75149	-0.636621
Syt12	chr7:90302354-90410719	48.0606	30.9326	-0.63573
Creb3l2	chr6:37331020-37442148	5.12868	3.30326	-0.634695
AI593442	chr9:52673031-52679780	30.1856	19.4658	-0.632921
Me1	chr9:86581362-86701253	31.4796	20.3274	-0.630987
Plxna1	chr6:89316313-89362613	10.3714	6.69875	-0.630653
Sgpp2	chr1:78310345-78488897	75.2303	48.6069	-0.630154
Clstn1	chr4:149586467-149648899	205.565	132.837	-0.629934
Farp1	chr14:121035573-121283726	5.91269	3.82475	-0.628451
Slc25a20	chr9:108662097-108684641	15.7893	10.2223	-0.627225
Sh3kbp1	chrX:159627271-159975920	7.30191	4.72829	-0.626956
Sec14l1	chr11:117115171-117159268	25.2558	16.3651	-0.625992
Supt16	chr14:52110902-52197239	20.9472	13.5736	-0.62595
Fam53b	chr7:132712083-132813196	7.14852	4.63477	-0.625146
Tmem25	chr9:44793778-44799216	52.4986	34.0387	-0.625106
Rnf149	chr1:39551295-39577347	13.4471	8.72289	-0.624416
Cartpt	chr13:99898482-99900683	21.4776	13.9415	-0.62345
Tmem176a	chr6:48841482-48845364	67.6069	43.904	-0.622818
Mgst3	chr1:167372383-167393797	116.609	75.7295	-0.622745
Efnb2	chr8:8617438-8660773	12.8403	8.33992	-0.62257
Shroom3	chr5:92683434-92965759	5.13066	3.33686	-0.620655
Msi2	chr11:88339381-88718267	16.9945	11.0541	-0.62049
Tpgs2	chr18:24708622-25168877	24.1828	15.7445	-0.619131
Adam10	chr9:70679000-70780229	38.4709	25.0717	-0.617707
Slc43a2	chr11:75531693-75577572	17.9158	11.6819	-0.616955
Aco2	chr15:81872462-81926213	97.7651	63.7674	-0.6165
Galnt1	chr18:24205343-24286816	17.493	11.4103	-0.616439
Ric3	chr7:109010879-109083324	25.6948	16.7616	-0.616318
Cyb5d2	chr11:72777231-72795839	14.2958	9.3277	-0.615993
Vezf1	chr11:88068278-88084729	8.94114	5.83454	-0.615839
Nde1	chr16:14163274-14192923	7.37786	4.81533	-0.615569
Ckap4	chr10:84526304-84533888	15.6878	10.2433	-0.61496
Cacna2d3	chr14:28904942-29721864	21.5163	14.0648	-0.613341
Slc35e1	chr8:72477994-72492614	16.5632	10.8411	-0.61147
Dusp6	chr10:99263230-99267489	16.0694	10.518	-0.611453

Gramd1b	chr9:40297906-40455764	36.149	23.6728	-0.610724
Gltpd1	chr4:155864722-155869440	29.5401	19.3458	-0.610656
Nkiras1	chr14:18271141-18331844	25.119	16.4707	-0.608876
Elp3	chr14:65530445-65593112	42.1544	27.6473	-0.608543
Slc25a33	chr4:149744035-149774267	26.6901	17.5187	-0.607407
Ptgir	chr7:16906489-16910905	24.0398	15.7851	-0.606867
Oscp1	chr4:126058564-126089334	9.18925	6.03461	-0.606688
Cd63	chr10:128908918-128912818	14.6256	9.60944	-0.605969
Vps26a	chr10:62454842-62486805	22.9627	15.0901	-0.605688
Slc16a1	chr3:104638663-104658462	23.9102	15.716	-0.605394
Tm6sf1	chr7:81859000-81934459	22.3593	14.6977	-0.605291
Junb	chr8:84976908-84978748	66.8822	43.9769	-0.604878
Plekhd1	chr12:80692600-80724216	30.4667	20.0382	-0.604481
Stox2	chr8:47180047-47352348	6.01264	3.95491	-0.604353
Kcnj3	chr2:55437155-55595525	9.24897	6.08465	-0.604119
Hadh	chr3:131233419-131272101	27.3365	17.9873	-0.603849
Rock2	chr12:16894977-16988274	13.5122	8.89384	-0.603384
Camk2b	chr11:5969665-6065748	20.2585	13.3374	-0.603051
Slc25a25	chr2:32414486-32455476	38.9412	25.6496	-0.602359
Pxmp4	chr2:154587043-154603673	10.9999	7.2467	-0.602091
Ndufb5	chr3:32737062-32751559	80.6226	53.1183	-0.601976
Klf6	chr13:5861488-5870393	28.4809	18.7655	-0.601913
Fntb	chr12:76837466-76921412	19.0711	12.5689	-0.601524
Sun2	chr15:79724067-79742536	21.9395	14.4618	-0.601285
Vma21	chrX:71816079-71824706	21.7937	14.368	-0.601056
Lphn1	chr8:83900097-83941954	32.2575	21.2708	-0.600757
Dennd5a	chr7:109893780-109960422	31.4773	20.7651	-0.600146
Myh14	chr7:44605802-44670843	22.6266	14.927	-0.600095
Mknk1	chr4:115839197-115879256	14.229	9.39198	-0.599335
Mia3	chr1:183326235-183369565	27.8047	18.3554	-0.599122
Grwd1	chr7:45825222-45830789	7.85998	5.18957	-0.598913
Atp9b	chr18:80734140-80934058	22.5713	14.9039	-0.598803
B630019K06Ri	chrX:8892352-8894964	17.0521	11.2598	-0.598768
Utrn	chr10:12382187-12861735	45.861	30.3118	-0.597385
Pttg1ip	chr10:77581766-77598732	39.1539	25.8832	-0.59714
Errfi1	chr4:150855090-150868880	15.2377	10.0749	-0.596878
Smim13	chr13:41249843-41276577	53.6957	35.5028	-0.596872
Prpf19	chr19:10895230-10909559	31.7512	21.0033	-0.596198
Ndufv2	chr17:66078794-66101559	91.3647	60.4757	-0.595281
Znrf1	chr8:111536639-111626030	10.8414	7.17898	-0.594698
Serpini1	chr3:75557532-75642523	59.4663	39.3836	-0.594475
Hspa12a	chr19:58795750-58860984	162.817	107.902	-0.593536
0610007P14Ri	chr12:85815454-85824545	22.8406	15.1484	-0.592433
Mcam	chr9:44134657-44142726	78.077	51.7849	-0.592366
Coq7	chr7:118525061-118533313	30.1207	19.9853	-0.591818
Hist1h2bc	chr13:23684198-23692480	60.1998	39.9442	-0.591772
Klf4	chr4:55527136-55532475	8.9856	5.96665	-0.590694
Tmem219	chr7:126886218-126898278	12.2472	8.13506	-0.59023
Gng12	chr6:66896396-67021361	9.77698	6.49491	-0.59008
Ltbp3	chr19:5740903-5771401	18.6844	12.4131	-0.589968
Ets2	chr16:95702406-95721049	10.655	7.0794	-0.589826
Pcca	chr14:122534327-122889944	9.27045	6.16169	-0.589314
Amph	chr13:18948350-19150919	76.6253	50.9397	-0.589031

Vhl	chr6:113624020-113631633	8.422	5.60599	-0.587195
Tmem246	chr4:49584505-49597870	34.445	22.931	-0.586998
Slc1a4	chr11:20302179-20332713	26.7883	17.837	-0.586729
Ankrd52	chr10:128377123-128394006	51.9278	34.5769	-0.586702
Tacc1	chr8:25154551-25201542	20.1257	13.4051	-0.586255
Entpd7	chr19:43689688-43753000	5.11133	3.40501	-0.586041
Pik3r3	chr4:116221913-116303056	16.5461	11.0231	-0.585963
Nit2	chr16:57156664-57167332	6.97139	4.64573	-0.585541
B2m	chr2:122120107-122186189	192.558	128.337	-0.58535
Stxbp3a	chr3:108793179-108840502	5.10722	3.40463	-0.585042
Ak1	chr2:32621757-32635058	73.1079	48.7398	-0.584927
Abhd12	chr2:150832514-150904731	141.321	94.2797	-0.583954
Mef2c	chr13:83504033-83667079	7.08589	4.73346	-0.582054
Ralgapa2	chr2:146241298-146512004	6.00242	4.01106	-0.581561
Tab3	chrX:85574021-85634469	9.44081	6.3198	-0.579032
Sarm1	chr11:78472329-78497754	14.9983	10.0469	-0.578051
1700020I14Ril	chr2:119594295-119600744	38.972	26.1184	-0.577371
Diras1	chr10:81019589-81025377	97.2451	65.2627	-0.575366
Sesn3	chr9:14276300-14326134	12.8192	8.60546	-0.574982
Usp24	chr4:106316212-106441327	6.23875	4.19254	-0.573432
Smad5	chr13:56703009-56742378	6.24693	4.20071	-0.572512
Pde4dip	chr3:97689828-97888707	43.7654	29.4373	-0.572146
Tomm20	chr8:126930663-126945921	41.7953	28.1187	-0.571811
Stk39	chr2:68210446-68471981	93.4277	62.869	-0.5715
Plvap	chr8:71497752-71511769	7.88902	5.30882	-0.571457
Kcnh7	chr2:62702945-63184287	13.5821	9.14499	-0.570658
Tmem127	chr2:127247974-127260764	40.1654	27.0553	-0.570045
Cnpy2	chr10:128322458-128327187	22.2934	15.0171	-0.570018
Fggy	chr4:95557506-95926939	6.89183	4.64293	-0.569852
BC048546	chr6:128539821-128581606	7.64434	5.15991	-0.567045
Twsg1	chr17:65923064-65951187	12.8331	8.6628	-0.566962
Rcbtb2	chr14:73142509-73184054	10.5322	7.11229	-0.566427
Slc35f6	chr5:30647935-30659729	17.3947	11.7529	-0.565639
Marcks	chr10:37133242-37138926	39.9127	26.9838	-0.564756
Ccdc126	chr6:49319352-49341581	9.65084	6.53898	-0.561589
Dnajb4	chr3:152183870-152210083	28.1628	19.085	-0.561352
Lmln	chr16:33062520-33125659	6.30438	4.27432	-0.56066
Aldh4a1	chr4:139622893-139649691	9.99589	6.7778	-0.560518
Fam73b	chr2:30364232-30385519	20.9865	14.238	-0.559709
Tmem141	chr2:25620065-25622005	13.4485	9.13356	-0.558191
Emb	chr13:117220572-117274415	114.349	77.7107	-0.557259
Nek7	chr1:138484713-138619696	100.536	68.4092	-0.55545
Atat1	chr17:35897597-35910068	5.34623	3.63858	-0.555146
Dhrs4	chr14:55478757-55490340	13.148	8.95125	-0.554679
Etl4	chr2:20289912-20810535	18.7246	12.7491	-0.554532
Hdac3	chr18:37936970-37954988	36.4644	24.8352	-0.554104
Oxr1	chr15:41447481-41861047	88.3703	60.209	-0.553584
A830018L16Ri	chr1:11414104-11975902	20.0764	13.6792	-0.553516
Pisd	chr5:32736313-32785626	10.9821	7.484	-0.553274
Aak1	chr6:86849516-87003227	20.7214	14.1215	-0.55323
Ptgr2	chr12:84285295-84315832	16.463	11.2199	-0.553172
Ppp4r4	chr12:103532564-103613832	9.18531	6.26191	-0.552726
Dolk	chr2:30284228-30286354	20.5084	13.9815	-0.552695

Mob1a	chr6:83326038-83340949	11.1937	7.63602	-0.551791
Arl16	chr11:120458128-120467600	18.1966	12.4139	-0.551712
Inpp11	chr7:101818312-101838226	6.17904	4.2163	-0.551407
Btg2	chr1:134074864-134079155	22.0734	15.0649	-0.551116
Pde8b	chr13:95024104-95250304	5.42048	3.70014	-0.550841
Kcnc4	chr3:107438302-107458898	33.5738	22.9424	-0.54932
Sgsm2	chr11:74849263-74897080	9.71681	6.64108	-0.549064
Its1	chr16:91729370-91920579	12.3569	8.4532	-0.54775
Cox4i1	chr8:120668289-120674209	684.653	468.625	-0.546938
Tspyl4	chr10:34297420-34301320	179.051	122.564	-0.546829
Celf2	chr2:6539698-7396198	11.987	8.20925	-0.546146
Lmbrd1	chr1:24678543-24766301	37.9998	26.0272	-0.545973
Ttc3	chr16:94358762-94469221	92.6197	63.5145	-0.544233
Zyg11b	chr4:108227754-108301090	32.6128	22.3792	-0.543282
Ttc1	chr11:43730005-43747973	57.6576	39.5968	-0.542127
Cxx1c	chrX:53607921-53609134	93.0441	63.9132	-0.541801
Tmem59l	chr8:70483866-70487358	111.521	76.6435	-0.541087
Snx18	chr13:113592178-113618564	14.9721	10.29	-0.541033
Syn2	chr6:115134901-115282626	80.7326	55.5231	-0.540063
Gucy1a2	chr9:3532348-3905787	5.98262	4.11532	-0.539772
Flnb	chr14:7817956-7951587	10.7251	7.3815	-0.538998
Tmed7	chr18:46585927-46597535	39.6771	27.3708	-0.53567
Prkcdbp	chr7:105480615-105482197	20.0317	13.8268	-0.534812
Zdhhc15	chrX:104536969-104671064	8.83487	6.09895	-0.534647
Atp1a3	chr7:24978168-25005937	293.01	202.277	-0.534615
2900097C17Ri	chr2:156388062-156392979	216.672	149.593	-0.534472
Gstm1	chr3:108012249-108017973	8.64769	5.97058	-0.534443
St3gal2	chr8:110919864-110972497	23.3668	16.135	-0.534266
Ptpre	chr7:135537823-135686294	11.8362	8.18006	-0.53302
Nrep	chr18:33437018-33464029	17.8527	12.3433	-0.532415
Serp1	chr3:58521970-58557501	24.5648	16.9842	-0.532402
Sat1	chrX:155213125-155216449	42.5894	29.4634	-0.531574
Dlat	chr9:50634632-50659780	43.8391	30.3344	-0.531265
Eme2	chr17:24892151-24895087	9.92718	6.87117	-0.530829
Sirt2	chr7:28766751-28788665	79.2319	54.8598	-0.53033
Pnkd	chr1:74285033-74353692	59.5857	41.2636	-0.530097
Cyc1	chr15:76343522-76345934	138.732	96.0945	-0.529771
Pdpr	chr8:111094744-111145498	9.3104	6.45118	-0.529279
Elovl1	chr4:118428092-118437343	28.3939	19.6799	-0.528855
Ak3	chr19:29020831-29048729	31.9998	22.1793	-0.528853
Rab8b	chr9:66843663-66919705	13.0181	9.02294	-0.528849
Tgm2	chr2:158116404-158146392	6.1696	4.27727	-0.528487
Rnf13	chr3:57736065-57835233	69.1345	47.9546	-0.527736
Qpctl	chr7:19140216-19149196	6.63313	4.60118	-0.527686
Prepl	chr17:85028346-85090274	160.696	111.518	-0.527067
Idh3g	chrX:73778962-73786897	65.4726	45.4393	-0.526951
Carns1	chr19:4164323-4175479	7.74094	5.37457	-0.52636
Tspan13	chr12:36014554-36042478	82.4341	57.253	-0.525891
Dcbld1	chr10:52233618-52321377	12.2888	8.53758	-0.525445
Tubgcp2	chr7:139995954-140040605	15.1377	10.5221	-0.524721
Zscan29	chr2:121157426-121171149	5.38252	3.74359	-0.523857
Nceh1	chr3:27183003-27244911	27.9406	19.4389	-0.523415
Hoxd9	chr2:74697762-74700208	6.73288	4.68468	-0.523272

Sowahc	chr10:59221921-59226433	5.98799	4.16918	-0.522308
Atr	chr9:95855417-95951644	6.54209	4.55676	-0.521744
Glul	chr1:153899925-153909723	184.154	128.328	-0.521074
Susd2	chr10:75636618-75644008	190.225	132.566	-0.520994
Sephs2	chr7:127271878-127274059	14.4423	10.0691	-0.520365
Syt13	chr17:6673609-6738044	11.0127	7.67817	-0.520327
Cdc3711	chr19:28990493-29017569	23.4074	16.3292	-0.519506
Rab3ip	chr10:116905783-116950380	12.9405	9.02886	-0.519281
Mtmr2	chr9:13749180-13806481	27.5695	19.2386	-0.519069
Ctnna1	chr18:35118911-35254775	62.2549	43.4584	-0.518554
P2ry2	chr7:100996571-101011991	6.72379	4.69388	-0.518492
Dnajc18	chr18:35671104-35703144	25.1411	17.555	-0.518165
Dtna	chr18:23310019-23659719	20.6163	14.3975	-0.51797
Fermt2	chr14:45458791-45530065	51.3794	35.8817	-0.517941
Hadha	chr5:30103583-30154980	52.6842	36.7935	-0.517919
Ispd	chr12:36381449-36689503	9.98731	6.97808	-0.517265
Man1a2	chr3:100562204-100685473	30.7139	21.4603	-0.517227
Tmem43	chr6:91473750-91488458	16.8325	11.7716	-0.515931
Mtmr4	chr11:87592216-87616296	34.7532	24.3377	-0.513957
Med27	chr2:29346809-29524790	22.6894	15.9019	-0.512823
Tmem260	chr14:48446351-48515159	6.3774	4.47072	-0.51246
Map1a	chr2:121289601-121351013	268.672	188.366	-0.512311
Ccdc28a	chr10:18213684-18234981	33.897	23.7889	-0.51087
Slc30a4	chr2:122681232-122702663	5.49336	3.85581	-0.510655
Pdgfrb	chr18:61045149-61085067	7.40603	5.20186	-0.509673
Nrip2	chr6:128399765-128408935	11.5447	8.10926	-0.509592
Abcb6	chr1:75171640-75180283	10.19	7.16204	-0.508707
Sacm1l	chr9:123529881-123592598	77.0732	54.1738	-0.508634
Nap1l2	chrX:103184058-103186664	69.0614	48.5467	-0.508507
Clec16a	chr16:10545338-10744878	11.213	7.88297	-0.508357
Decr1	chr4:15917239-15945507	17.6117	12.3883	-0.50755
Git1	chr11:77493411-77507774	28.2066	19.8448	-0.50727
Trpm8	chr1:88306711-88388851	10.3879	7.30955	-0.507047
Sez6	chr11:77930838-77979052	11.0899	7.80982	-0.50588
Cnksr2	chrX:157821572-158043110	5.95116	4.19418	-0.504781
2610507B11Ri	chr11:78261753-78290625	52.9664	37.3482	-0.504039
Tti1	chr2:157981802-158009360	7.56739	5.33752	-0.503628
Plxna4	chr6:32144556-32588192	17.5563	12.3846	-0.503438
Pkm	chr9:59656367-59679375	387.279	273.435	-0.502176
Tarsl2	chr7:65644897-65692093	13.7974	9.74284	-0.50198
Atp6v0a2	chr5:124629051-124724455	16.825	11.8827	-0.501742
Fads1	chr19:10182887-10196872	58.6483	41.4211	-0.501725
Btbd3	chr2:138256583-138287422	37.379	26.4082	-0.50124

gene	test stat	p value	q value	significant
Kcnj10	-9.4592	5.00E-05	0.00021987	yes
Itgb8	-8.00901	5.00E-05	0.00021987	yes
Ednrb	-9.05927	5.00E-05	0.00021987	yes
Mmd2	-9.45111	5.00E-05	0.00021987	yes
Prss35	-7.76757	5.00E-05	0.00021987	yes
Slc1a3	-5.50891	0.0013	0.00437522	yes
Acsbg1	-8.4511	5.00E-05	0.00021987	yes
H2-Aa	-4.93994	0.00835	0.0222717	yes
Abca8a	-13.6938	5.00E-05	0.00021987	yes
Wnt6	-4.63768	0.0033	0.00985617	yes
Megf10	-8.17961	5.00E-05	0.00021987	yes
Sostdc1	-8.31419	5.00E-05	0.00021987	yes
Pdlim4	-4.25176	0.0188	0.0446748	yes
ApoE	-22.5683	5.00E-05	0.00021987	yes
Ttyh1	-7.68795	0.0003	0.00116377	yes
Serpine2	-10.8229	5.00E-05	0.00021987	yes
Lect1	-5.33366	0.0002	0.00080284	yes
Fabp7	-15.4609	5.00E-05	0.00021987	yes
Lrrc4b	-5.3449	0.00015	0.00061459	yes
Fbln2	-12.3804	5.00E-05	0.00021987	yes
Gpr37l1	-9.61228	5.00E-05	0.00021987	yes
Enpp1	-5.53691	5.00E-05	0.00021987	yes
Vtn	-4.45956	0.00105	0.00360703	yes
5930403L14Ri	-5.41136	5.00E-05	0.00021987	yes
Col28a1	-10.7355	5.00E-05	0.00021987	yes
Sod3	-6.23726	5.00E-05	0.00021987	yes
Fxyd1	-4.61305	0.0064	0.0176269	yes
Fbln5	-10.2579	5.00E-05	0.00021987	yes
Slc7a2	-10.4021	5.00E-05	0.00021987	yes
Alpl	-4.35782	5.00E-05	0.00021987	yes
2900052N01Ri	-4.94216	5.00E-05	0.00021987	yes
Daam2	-9.32276	5.00E-05	0.00021987	yes
Hepacam	-5.9302	5.00E-05	0.00021987	yes
Sfrp5	-11.8306	5.00E-05	0.00021987	yes
Atp1a2	-15.3734	5.00E-05	0.00021987	yes
Gpm6b	-13.6251	5.00E-05	0.00021987	yes
Atp1b2	-11.1367	5.00E-05	0.00021987	yes
Itgb3	-7.01714	5.00E-05	0.00021987	yes
Axl	-6.20726	0.0051	0.0144638	yes
Gpr126	-8.15317	5.00E-05	0.00021987	yes
Galnt16	-6.17219	5.00E-05	0.00021987	yes
Lum	-6.06094	5.00E-05	0.00021987	yes
Hmgcs2	-10.2888	5.00E-05	0.00021987	yes
ErbB3	-7.00858	0.00435	0.0125514	yes
Col12a1	-7.95421	5.00E-05	0.00021987	yes
Igf2	-7.19482	5.00E-05	0.00021987	yes
Col14a1	-7.33951	5.00E-05	0.00021987	yes
Olfml2a	-6.72639	5.00E-05	0.00021987	yes
Cmtm5	-4.74703	0.0082	0.0219201	yes

Fam129a	-7.77189	5.00E-05	0.00021987	yes
Nid1	-11.9469	5.00E-05	0.00021987	yes
Paqr6	-5.69587	5.00E-05	0.00021987	yes
Col3a1	-13.7115	5.00E-05	0.00021987	yes
Gjc3	-8.87402	5.00E-05	0.00021987	yes
Aspa	-7.00197	5.00E-05	0.00021987	yes
Lyz2	-6.16579	5.00E-05	0.00021987	yes
Sox10	-9.57313	5.00E-05	0.00021987	yes
Nr2f1	-5.14401	5.00E-05	0.00021987	yes
Matn4	-5.80737	5.00E-05	0.00021987	yes
Nkain4	-3.67405	0.0001	0.00042184	yes
Cldn19	-5.15799	5.00E-05	0.00021987	yes
Igfbp6	-6.31185	5.00E-05	0.00021987	yes
Pdpr	-5.27847	0.00585	0.016305	yes
Acta2	-6.19865	5.00E-05	0.00021987	yes
Cdh19	-8.52508	5.00E-05	0.00021987	yes
F3	-5.41875	5.00E-05	0.00021987	yes
Angpt2	-3.15475	0.0014	0.00465742	yes
Islr	-6.49779	5.00E-05	0.00021987	yes
Smoc2	-5.51713	0.0065	0.0178689	yes
Plp1	-15.8239	5.00E-05	0.00021987	yes
Foxd3	-5.48993	5.00E-05	0.00021987	yes
Calb2	-4.9239	0.0095	0.0248446	yes
Ptgfrn	-10.2401	5.00E-05	0.00021987	yes
Col1a2	-14.5349	5.00E-05	0.00021987	yes
Cryab	-9.64532	5.00E-05	0.00021987	yes
Lgi4	-8.79967	5.00E-05	0.00021987	yes
C1qb	-3.86433	0.00095	0.00329852	yes
Lama2	-9.15149	5.00E-05	0.00021987	yes
Plxnb3	-6.56308	5.00E-05	0.00021987	yes
Col1a1	-12.096	5.00E-05	0.00021987	yes
Vstm2b	-4.75044	5.00E-05	0.00021987	yes
Emp2	-10.1269	5.00E-05	0.00021987	yes
Prx	-15.3458	5.00E-05	0.00021987	yes
Adamts5	-9.64921	5.00E-05	0.00021987	yes
Metrn	-7.3637	5.00E-05	0.00021987	yes
Art3	-8.47388	5.00E-05	0.00021987	yes
Sema3b	-11.6314	5.00E-05	0.00021987	yes
Cdo1	-5.87746	5.00E-05	0.00021987	yes
Hapln1	-8.90746	5.00E-05	0.00021987	yes
Cd74	-6.56362	5.00E-05	0.00021987	yes
Gpd1	-7.50965	5.00E-05	0.00021987	yes
C1qtnf5	-3.30564	0.0133	0.0332175	yes
Lox	-6.05644	5.00E-05	0.00021987	yes
Entpd2	-6.66018	5.00E-05	0.00021987	yes
Pmp2	-7.55768	5.00E-05	0.00021987	yes
Mmp14	-8.03593	5.00E-05	0.00021987	yes
Stxbp6	-7.8055	5.00E-05	0.00021987	yes
Mpz	-14.4855	5.00E-05	0.00021987	yes
MyI9	-6.18195	5.00E-05	0.00021987	yes
Reln	-10.0965	5.00E-05	0.00021987	yes
Vldlr	-9.1808	5.00E-05	0.00021987	yes
Nid2	-3.62683	5.00E-05	0.00021987	yes

Hey2	-8.28014	5.00E-05	0.00021987	yes
Emid1	-4.7781	5.00E-05	0.00021987	yes
Gas7	-8.83071	5.00E-05	0.00021987	yes
Mfap5	-7.24236	5.00E-05	0.00021987	yes
Folh1	-6.87854	5.00E-05	0.00021987	yes
Ptprz1	-11.1717	5.00E-05	0.00021987	yes
Frmd6	-6.88595	5.00E-05	0.00021987	yes
Fmo1	-6.83229	5.00E-05	0.00021987	yes
Tspan18	-9.14483	5.00E-05	0.00021987	yes
Itgav	-9.86003	5.00E-05	0.00021987	yes
Efemp1	-6.56933	5.00E-05	0.00021987	yes
Tgfb1	-7.33789	5.00E-05	0.00021987	yes
Ugt8a	-10.6806	5.00E-05	0.00021987	yes
Rgs6	-5.69688	5.00E-05	0.00021987	yes
Mmp2	-5.45509	5.00E-05	0.00021987	yes
Igfbp4	-12.4832	5.00E-05	0.00021987	yes
Kirrel	-7.50258	5.00E-05	0.00021987	yes
Rdh5	-5.10114	5.00E-05	0.00021987	yes
Plin3	-6.45685	5.00E-05	0.00021987	yes
Clec3b	-3.96659	0.0003	0.00116377	yes
Trf	-6.81746	5.00E-05	0.00021987	yes
Cldn11	-4.42445	5.00E-05	0.00021987	yes
Pmepa1	-9.95566	5.00E-05	0.00021987	yes
Bcan	-10.1537	5.00E-05	0.00021987	yes
Smco3	-5.04404	0.0065	0.0178689	yes
Igfbp5	-13.6947	5.00E-05	0.00021987	yes
Pgf	-3.86213	5.00E-05	0.00021987	yes
Maf	-10.0449	5.00E-05	0.00021987	yes
Aif1l	-7.25852	5.00E-05	0.00021987	yes
Itpr3	-10.7581	5.00E-05	0.00021987	yes
Ptgfr	-8.91657	5.00E-05	0.00021987	yes
Ppp1r14c	-6.59176	5.00E-05	0.00021987	yes
Pcolce	-6.10366	5.00E-05	0.00021987	yes
Sh3bp5	-7.90759	5.00E-05	0.00021987	yes
Ptgds	-9.32054	5.00E-05	0.00021987	yes
Apod	-13.4457	5.00E-05	0.00021987	yes
Ccnd1	-7.62691	5.00E-05	0.00021987	yes
Grid1	-5.49183	5.00E-05	0.00021987	yes
Egfl8	-2.07438	0.0119	0.0301811	yes
Ogn	-8.17102	5.00E-05	0.00021987	yes
Igsf11	-7.09795	5.00E-05	0.00021987	yes
Gldn	-7.11931	5.00E-05	0.00021987	yes
Rasa3	-6.98705	5.00E-05	0.00021987	yes
Hapln4	-10.2828	5.00E-05	0.00021987	yes
Cotl1	-8.04865	5.00E-05	0.00021987	yes
Spp1	-10.3365	5.00E-05	0.00021987	yes
Ncmap	-7.92366	5.00E-05	0.00021987	yes
Ano1	-6.18259	5.00E-05	0.00021987	yes
Col15a1	-8.59047	5.00E-05	0.00021987	yes
Gm16551	-6.07522	5.00E-05	0.00021987	yes
Plce1	-8.0276	5.00E-05	0.00021987	yes
Kcnq4	-7.94	5.00E-05	0.00021987	yes
Limch1	-10.8328	5.00E-05	0.00021987	yes

Col5a2	-8.23303	5.00E-05	0.00021987	yes
Ngp	-4.30051	5.00E-05	0.00021987	yes
Sparc	-14.2683	5.00E-05	0.00021987	yes
Lrrc4	-2.28943	0.00285	0.00866826	yes
Bgn	-10.2253	5.00E-05	0.00021987	yes
Slc35f1	-10.2225	5.00E-05	0.00021987	yes
Ntng1	-8.11839	5.00E-05	0.00021987	yes
Plekha4	-10.8845	5.00E-05	0.00021987	yes
Ndrg1	-15.6421	5.00E-05	0.00021987	yes
Zcchc24	-8.11428	5.00E-05	0.00021987	yes
Egr2	-7.66536	5.00E-05	0.00021987	yes
Tmem28	-4.56228	5.00E-05	0.00021987	yes
Sema5a	-12.0903	5.00E-05	0.00021987	yes
Slc17a7	-13.1127	5.00E-05	0.00021987	yes
Cox7a1	-4.00994	0.0188	0.0446748	yes
Esrrg	-8.40281	5.00E-05	0.00021987	yes
Sfrp1	-8.94748	5.00E-05	0.00021987	yes
Shc4	-3.58663	5.00E-05	0.00021987	yes
Mfap4	-4.8832	5.00E-05	0.00021987	yes
Itgb5	-6.6034	5.00E-05	0.00021987	yes
Pid1	-5.40169	5.00E-05	0.00021987	yes
Mme	-7.35882	5.00E-05	0.00021987	yes
Afap1l2	-6.88148	5.00E-05	0.00021987	yes
Fkbp9	-9.89098	5.00E-05	0.00021987	yes
Slc9a3r1	-10.251	5.00E-05	0.00021987	yes
Plekha1	-11.3588	5.00E-05	0.00021987	yes
Slit2	-8.19377	5.00E-05	0.00021987	yes
Prss12	-6.86391	5.00E-05	0.00021987	yes
Hhatl	-6.45126	5.00E-05	0.00021987	yes
Kif19a	-6.01662	5.00E-05	0.00021987	yes
Pcdh7	-10.3658	5.00E-05	0.00021987	yes
Clrn1	-5.48991	5.00E-05	0.00021987	yes
H2-Eb1	-5.67109	5.00E-05	0.00021987	yes
Lancl3	-7.28717	5.00E-05	0.00021987	yes
Ntrk2	-13.5141	5.00E-05	0.00021987	yes
Dcn	-11.7438	5.00E-05	0.00021987	yes
Syt2	-13.2133	5.00E-05	0.00021987	yes
Mag	-6.13027	5.00E-05	0.00021987	yes
Ndst4	-8.50235	5.00E-05	0.00021987	yes
Lpar1	-10.9549	5.00E-05	0.00021987	yes
Sbspon	-5.17104	5.00E-05	0.00021987	yes
Fa2h	-6.99778	5.00E-05	0.00021987	yes
Notch1	-8.47027	5.00E-05	0.00021987	yes
Sv2b	-13.8193	5.00E-05	0.00021987	yes
Sdc4	-9.58584	5.00E-05	0.00021987	yes
Omg	-2.89138	0.00015	0.00061459	yes
Pvalb	-11.1878	5.00E-05	0.00021987	yes
Rnf128	-4.97167	5.00E-05	0.00021987	yes
Lgi3	-12.6732	5.00E-05	0.00021987	yes
Hs3st2	-8.96249	5.00E-05	0.00021987	yes
Mxra8	-7.00406	5.00E-05	0.00021987	yes
Ctsc	-5.77485	5.00E-05	0.00021987	yes
Tbx2	-7.13782	5.00E-05	0.00021987	yes

Creg2	-7.33916	5.00E-05	0.00021987	yes
Epha6	-3.72229	5.00E-05	0.00021987	yes
Htr7	-5.852	5.00E-05	0.00021987	yes
Gabrg1	-7.01976	5.00E-05	0.00021987	yes
Fam107a	-5.52101	5.00E-05	0.00021987	yes
Cald1	-7.98356	5.00E-05	0.00021987	yes
Qk	-12.1261	5.00E-05	0.00021987	yes
Fgl2	-6.26217	5.00E-05	0.00021987	yes
Fgf9	-6.72499	5.00E-05	0.00021987	yes
Bcat1	-10.342	5.00E-05	0.00021987	yes
Ston1	-6.22921	5.00E-05	0.00021987	yes
Antxr1	-7.21489	5.00E-05	0.00021987	yes
Fam19a2	-9.36291	5.00E-05	0.00021987	yes
Gpam	-9.548	5.00E-05	0.00021987	yes
Pbxip1	-6.71929	5.00E-05	0.00021987	yes
Ctsk	-4.61689	5.00E-05	0.00021987	yes
Plscr4	-5.57056	5.00E-05	0.00021987	yes
Pdzd2	-10.6357	5.00E-05	0.00021987	yes
Metrn1	-5.0145	5.00E-05	0.00021987	yes
Sh3bgr	-6.63776	5.00E-05	0.00021987	yes
Cntf	-2.20498	0.0177	0.0424717	yes
P2rx6	-6.44493	5.00E-05	0.00021987	yes
Jag1	-7.21433	5.00E-05	0.00021987	yes
Pls1	-7.32123	5.00E-05	0.00021987	yes
Tagln	-1.79131	0.0182	0.0434827	yes
H2-Ab1	-5.32913	5.00E-05	0.00021987	yes
Scara3	-5.45299	5.00E-05	0.00021987	yes
Cyp2d22	-5.22302	5.00E-05	0.00021987	yes
Vsnl1	-12.5333	5.00E-05	0.00021987	yes
Shox2	-4.17596	5.00E-05	0.00021987	yes
Lgi2	-7.50332	5.00E-05	0.00021987	yes
Ryr2	-10.7176	5.00E-05	0.00021987	yes
Mgst1	-5.79676	5.00E-05	0.00021987	yes
Gulp1	-5.71084	5.00E-05	0.00021987	yes
Coro6	-4.59851	5.00E-05	0.00021987	yes
Rasl10b	-9.1656	5.00E-05	0.00021987	yes
Nes	-7.7142	5.00E-05	0.00021987	yes
P2rx7	-3.98966	5.00E-05	0.00021987	yes
Fcgrt	-6.99142	5.00E-05	0.00021987	yes
Grhpr	-4.38498	5.00E-05	0.00021987	yes
Pnmal2	-7.87226	5.00E-05	0.00021987	yes
Abca8b	-9.3374	5.00E-05	0.00021987	yes
Kcna1	-13.4334	5.00E-05	0.00021987	yes
Matn2	-9.92075	5.00E-05	0.00021987	yes
Itgb4	-4.73691	5.00E-05	0.00021987	yes
Vwa1	-9.97422	5.00E-05	0.00021987	yes
Angptl4	-5.31903	5.00E-05	0.00021987	yes
Timp3	-5.93736	5.00E-05	0.00021987	yes
Cyp39a1	-5.15614	5.00E-05	0.00021987	yes
Sh3pxd2b	-9.56577	5.00E-05	0.00021987	yes
Slitrk1	-7.99635	5.00E-05	0.00021987	yes
Chadl	-3.27238	5.00E-05	0.00021987	yes
Meis2	-6.45566	5.00E-05	0.00021987	yes

Nefh	-8.57513	5.00E-05	0.00021987	yes
Casp12	-4.84135	5.00E-05	0.00021987	yes
Hspg2	-11.1795	5.00E-05	0.00021987	yes
Cyp2j9	-6.82002	5.00E-05	0.00021987	yes
Slc36a2	-5.28829	5.00E-05	0.00021987	yes
Dmd	-8.98965	5.00E-05	0.00021987	yes
Serpinh1	-8.45663	5.00E-05	0.00021987	yes
Rassf8	-4.19281	5.00E-05	0.00021987	yes
Plxdc2	-7.88375	5.00E-05	0.00021987	yes
Frrs1l	-7.79125	5.00E-05	0.00021987	yes
Rasgrf2	-8.05245	5.00E-05	0.00021987	yes
Plip	-8.33207	5.00E-05	0.00021987	yes
Olfml2b	-6.91581	5.00E-05	0.00021987	yes
Col23a1	-6.93311	5.00E-05	0.00021987	yes
Syde1	-5.28622	5.00E-05	0.00021987	yes
Cela1	-4.89713	5.00E-05	0.00021987	yes
Clec2l	-12.2669	5.00E-05	0.00021987	yes
Faim2	-11.5107	5.00E-05	0.00021987	yes
Cabp7	-4.87738	5.00E-05	0.00021987	yes
Col5a1	-6.92296	5.00E-05	0.00021987	yes
Sparcl1	-12.9922	5.00E-05	0.00021987	yes
Ntng2	-6.25953	5.00E-05	0.00021987	yes
Sfrp4	-6.28014	5.00E-05	0.00021987	yes
Arhgap19	-7.96083	5.00E-05	0.00021987	yes
Grm4	-6.74144	5.00E-05	0.00021987	yes
Col6a1	-6.29799	5.00E-05	0.00021987	yes
Galm	-5.90044	5.00E-05	0.00021987	yes
Yap1	-6.45056	5.00E-05	0.00021987	yes
Hspb2	-2.04606	0.0145	0.03579	yes
Smtn	-6.72706	5.00E-05	0.00021987	yes
Calb1	-8.89015	5.00E-05	0.00021987	yes
S100b	-13.9124	5.00E-05	0.00021987	yes
Dbi	-9.42924	5.00E-05	0.00021987	yes
Thy1	-13.7786	5.00E-05	0.00021987	yes
Pla2g16	-8.21672	5.00E-05	0.00021987	yes
Sipa1l1	-7.43391	5.00E-05	0.00021987	yes
Fam19a1	-6.28894	5.00E-05	0.00021987	yes
Hoxb8	-4.89201	5.00E-05	0.00021987	yes
Ppp1r9a	-8.61399	5.00E-05	0.00021987	yes
Fam212b	-6.5862	5.00E-05	0.00021987	yes
Nfia	-9.92176	5.00E-05	0.00021987	yes
Fat1	-9.05839	5.00E-05	0.00021987	yes
Wwtr1	-6.58083	5.00E-05	0.00021987	yes
Smr2	-2.95938	5.00E-05	0.00021987	yes
Drp2	-11.0193	5.00E-05	0.00021987	yes
Add3	-8.35062	5.00E-05	0.00021987	yes
Dlg2	-8.92634	5.00E-05	0.00021987	yes
Rhbdl3	-5.74092	5.00E-05	0.00021987	yes
Rgcc	-7.06743	5.00E-05	0.00021987	yes
Mlip	-5.1907	5.00E-05	0.00021987	yes
Tmem229b	-11.081	5.00E-05	0.00021987	yes
Lrrn2	-6.57786	5.00E-05	0.00021987	yes
Rell1	-5.8888	5.00E-05	0.00021987	yes

Syt12	-5.03774	5.00E-05	0.00021987	yes
Ncam2	-6.52068	5.00E-05	0.00021987	yes
Vim	-13.2708	5.00E-05	0.00021987	yes
Trappc3l	-7.27822	5.00E-05	0.00021987	yes
Gas2l3	-6.98641	5.00E-05	0.00021987	yes
6530402F18Ri	-4.62711	5.00E-05	0.00021987	yes
Sep-09	-7.67621	5.00E-05	0.00021987	yes
Epn3	-8.30678	5.00E-05	0.00021987	yes
Baiap2l1	-4.955	5.00E-05	0.00021987	yes
Foxo1	-6.51828	5.00E-05	0.00021987	yes
Sepp1	-11.0834	5.00E-05	0.00021987	yes
Rsph9	-3.8879	5.00E-05	0.00021987	yes
Dag1	-11.2806	5.00E-05	0.00021987	yes
Slc43a3	-7.38402	5.00E-05	0.00021987	yes
Chp2	-7.19816	5.00E-05	0.00021987	yes
Pcdhac1	-2.1019	0.00105	0.00360703	yes
Htra1	-10.6392	5.00E-05	0.00021987	yes
Lamc1	-9.75328	5.00E-05	0.00021987	yes
Pon2	-6.66655	5.00E-05	0.00021987	yes
Pth1r	-5.60238	5.00E-05	0.00021987	yes
Gng7	-4.85353	5.00E-05	0.00021987	yes
Sipa1l2	-6.80037	5.00E-05	0.00021987	yes
Gpx8	-4.17414	5.00E-05	0.00021987	yes
Cp	-2.94288	0.0001	0.00042184	yes
S100a16	-7.21677	5.00E-05	0.00021987	yes
Dhrs3	-3.41161	5.00E-05	0.00021987	yes
Ddn	-4.90773	5.00E-05	0.00021987	yes
Sema3g	-6.67311	5.00E-05	0.00021987	yes
Caskin2	-6.84319	5.00E-05	0.00021987	yes
Smpd2	-4.0054	5.00E-05	0.00021987	yes
Kcnk1	-9.3141	5.00E-05	0.00021987	yes
Lhfp	-7.37575	5.00E-05	0.00021987	yes
Gprc5b	-6.09037	5.00E-05	0.00021987	yes
Kcng4	-5.20423	5.00E-05	0.00021987	yes
Cxcr4	-5.90931	5.00E-05	0.00021987	yes
Thrsp	-5.04084	5.00E-05	0.00021987	yes
Col4a1	-9.79307	5.00E-05	0.00021987	yes
Pacsin3	-3.77267	5.00E-05	0.00021987	yes
Nr4a1	-8.53377	5.00E-05	0.00021987	yes
Fstl5	-7.40526	5.00E-05	0.00021987	yes
Cgnl1	-10.1608	5.00E-05	0.00021987	yes
B3galt5	-6.59715	5.00E-05	0.00021987	yes
Astn2	-4.40526	5.00E-05	0.00021987	yes
Parp3	-4.76479	5.00E-05	0.00021987	yes
Gsn	-10.586	5.00E-05	0.00021987	yes
G0s2	-4.05155	5.00E-05	0.00021987	yes
Sulf2	-7.82299	5.00E-05	0.00021987	yes
Epb4.1l4b	-5.39716	5.00E-05	0.00021987	yes
Gstk1	-4.0236	5.00E-05	0.00021987	yes
Pard3	-5.18971	5.00E-05	0.00021987	yes
Prex2	-6.3406	5.00E-05	0.00021987	yes
Klhl13	-6.05716	5.00E-05	0.00021987	yes
Nr2f2	-7.13758	5.00E-05	0.00021987	yes

Fads6	-4.92139	5.00E-05	0.00021987	yes
Fam181b	-4.7863	5.00E-05	0.00021987	yes
Chst2	-8.13831	5.00E-05	0.00021987	yes
Kcnc1	-8.4267	5.00E-05	0.00021987	yes
Lynx1	-11.5027	5.00E-05	0.00021987	yes
Gatm	-11.091	5.00E-05	0.00021987	yes
Pcdh9	-8.93853	5.00E-05	0.00021987	yes
Fn1	-7.55966	5.00E-05	0.00021987	yes
Rab34	-3.56758	5.00E-05	0.00021987	yes
Ppargc1a	-6.24597	5.00E-05	0.00021987	yes
Fam178b	-5.14558	5.00E-05	0.00021987	yes
Cpne6	-10.5227	5.00E-05	0.00021987	yes
Fgfr1	-10.3281	5.00E-05	0.00021987	yes
Kcnc3	-9.432	5.00E-05	0.00021987	yes
Lbp	-4.53337	5.00E-05	0.00021987	yes
Ppap2b	-8.97234	5.00E-05	0.00021987	yes
Gabrb2	-6.46493	5.00E-05	0.00021987	yes
Anxa1	-3.90335	5.00E-05	0.00021987	yes
Kazald1	-3.70804	5.00E-05	0.00021987	yes
Fgf11	-4.47047	5.00E-05	0.00021987	yes
Eln	-5.53646	5.00E-05	0.00021987	yes
Cbln2	-6.99441	5.00E-05	0.00021987	yes
Rcsd1	-4.51379	5.00E-05	0.00021987	yes
Tmem163	-6.86467	5.00E-05	0.00021987	yes
Cdc42ep1	-4.51514	5.00E-05	0.00021987	yes
Relt	-5.43664	5.00E-05	0.00021987	yes
Fxyd7	-12.0918	5.00E-05	0.00021987	yes
Hs3st1	-4.48455	5.00E-05	0.00021987	yes
Nfasc	-10.3159	5.00E-05	0.00021987	yes
Flt3	-5.99858	5.00E-05	0.00021987	yes
Mboat2	-7.06291	5.00E-05	0.00021987	yes
Fam198b	-7.26506	5.00E-05	0.00021987	yes
Chpt1	-5.32596	5.00E-05	0.00021987	yes
Pxn	-6.26744	5.00E-05	0.00021987	yes
Emp1	-4.44364	5.00E-05	0.00021987	yes
Cadm4	-9.84787	5.00E-05	0.00021987	yes
Chrna3	-5.77257	5.00E-05	0.00021987	yes
Gpr158	-10.3015	5.00E-05	0.00021987	yes
Lgr4	-8.52974	5.00E-05	0.00021987	yes
Scn1a	-9.96199	5.00E-05	0.00021987	yes
Plscr2	-3.54082	5.00E-05	0.00021987	yes
Ldhb	-10.6054	5.00E-05	0.00021987	yes
Slco5a1	-7.63038	5.00E-05	0.00021987	yes
Gsta4	-5.06046	5.00E-05	0.00021987	yes
Olfm2	-4.03179	5.00E-05	0.00021987	yes
Unc80	-9.93692	5.00E-05	0.00021987	yes
Rhoj	-4.19368	5.00E-05	0.00021987	yes
Htr3a	-8.72836	5.00E-05	0.00021987	yes
Kank1	-6.02852	5.00E-05	0.00021987	yes
Nfix	-5.04361	5.00E-05	0.00021987	yes
Igsf21	-5.65726	5.00E-05	0.00021987	yes
Sgk1	-6.58631	5.00E-05	0.00021987	yes
Dbp	-3.74093	5.00E-05	0.00021987	yes

Negr1	-6.16119	5.00E-05	0.00021987	yes
Ust	-8.23489	5.00E-05	0.00021987	yes
Chrna7	-7.79312	5.00E-05	0.00021987	yes
Gal3st1	-4.15756	5.00E-05	0.00021987	yes
Heg1	-5.84835	5.00E-05	0.00021987	yes
Sorcs1	-6.34047	5.00E-05	0.00021987	yes
Rcn3	-5.16785	5.00E-05	0.00021987	yes
Mt1	-9.77247	5.00E-05	0.00021987	yes
Tmem47	-9.75448	5.00E-05	0.00021987	yes
Rgma	-4.28606	5.00E-05	0.00021987	yes
Phlpp1	-6.1668	5.00E-05	0.00021987	yes
Clu	-11.0569	5.00E-05	0.00021987	yes
Iqsec1	-9.08329	5.00E-05	0.00021987	yes
Pcp4	-13.1744	5.00E-05	0.00021987	yes
AI464131	-5.94032	5.00E-05	0.00021987	yes
Scn4b	-10.3644	5.00E-05	0.00021987	yes
Lrrc4c	-5.86232	5.00E-05	0.00021987	yes
Capg	-4.77514	5.00E-05	0.00021987	yes
Arap2	-7.23191	5.00E-05	0.00021987	yes
Clic4	-8.68752	5.00E-05	0.00021987	yes
Shpk	-4.95144	5.00E-05	0.00021987	yes
Clmp	-6.86541	5.00E-05	0.00021987	yes
Sash1	-6.89997	5.00E-05	0.00021987	yes
Sult1a1	-4.08037	5.00E-05	0.00021987	yes
Scn8a	-9.63408	5.00E-05	0.00021987	yes
Tspan6	-3.9773	5.00E-05	0.00021987	yes
Rassf4	-7.09752	5.00E-05	0.00021987	yes
Kcnq3	-4.27645	5.00E-05	0.00021987	yes
F2r	-5.72413	5.00E-05	0.00021987	yes
Mal	-8.73845	5.00E-05	0.00021987	yes
Lhfpl1	-6.11601	5.00E-05	0.00021987	yes
S100a9	-3.30566	5.00E-05	0.00021987	yes
Tcn2	-5.41575	5.00E-05	0.00021987	yes
Bace2	-4.66242	5.00E-05	0.00021987	yes
Mdga1	-6.50633	5.00E-05	0.00021987	yes
Lama4	-7.35671	5.00E-05	0.00021987	yes
Cthrc1	-3.54778	5.00E-05	0.00021987	yes
Kank4	-8.61396	5.00E-05	0.00021987	yes
Syt3	-5.98521	5.00E-05	0.00021987	yes
Gng11	-3.68368	5.00E-05	0.00021987	yes
Hbegf	-4.23734	5.00E-05	0.00021987	yes
Rab31	-6.35552	5.00E-05	0.00021987	yes
Gja1	-6.77228	5.00E-05	0.00021987	yes
Ecscr	-3.37171	5.00E-05	0.00021987	yes
Jam3	-7.10335	5.00E-05	0.00021987	yes
Adam23	-9.21479	5.00E-05	0.00021987	yes
Lamb1	-8.78095	5.00E-05	0.00021987	yes
Shroom2	-5.35602	5.00E-05	0.00021987	yes
Slc16a6	-4.73347	5.00E-05	0.00021987	yes
S100a4	-6.00627	5.00E-05	0.00021987	yes
Itih5	-8.26814	5.00E-05	0.00021987	yes
Phyhipl	-6.15809	5.00E-05	0.00021987	yes
Tuba4a	-7.89711	5.00E-05	0.00021987	yes

Hspb6	-4.03033	5.00E-05	0.00021987	yes
Rhobtb3	-6.74799	5.00E-05	0.00021987	yes
Nr1d1	-5.85303	5.00E-05	0.00021987	yes
Il34	-4.55782	5.00E-05	0.00021987	yes
Copz2	-2.59953	5.00E-05	0.00021987	yes
Stxbp5l	-7.02574	5.00E-05	0.00021987	yes
Cntn1	-9.17051	5.00E-05	0.00021987	yes
Ndrg2	-8.32645	5.00E-05	0.00021987	yes
Tex40	-3.08541	0.00025	0.00098508	yes
Grm8	-5.33864	5.00E-05	0.00021987	yes
Epb4.1l2	-7.79518	5.00E-05	0.00021987	yes
Prkcb	-8.34149	5.00E-05	0.00021987	yes
Asic3	-8.21304	5.00E-05	0.00021987	yes
Cygb	-6.77345	5.00E-05	0.00021987	yes
Arhgef6	-5.99806	5.00E-05	0.00021987	yes
Tgfb3	-7.57544	5.00E-05	0.00021987	yes
Arhgef40	-5.16667	5.00E-05	0.00021987	yes
Arhgef4	-7.70243	5.00E-05	0.00021987	yes
Chrm2	-3.36167	5.00E-05	0.00021987	yes
Vamp1	-9.04773	5.00E-05	0.00021987	yes
Fam19a5	-5.91349	5.00E-05	0.00021987	yes
Pi16	-3.94588	5.00E-05	0.00021987	yes
D930028M14R	-4.8	5.00E-05	0.00021987	yes
Dpysl4	-4.43453	5.00E-05	0.00021987	yes
Zeb2	-7.70262	5.00E-05	0.00021987	yes
Pbx1	-6.87451	5.00E-05	0.00021987	yes
Ehd2	-6.6793	5.00E-05	0.00021987	yes
Mfap3l	-7.92162	5.00E-05	0.00021987	yes
Phlda3	-5.69694	5.00E-05	0.00021987	yes
Ptk2b	-5.57675	5.00E-05	0.00021987	yes
Egr1	-8.14586	5.00E-05	0.00021987	yes
Cntn4	-4.43419	5.00E-05	0.00021987	yes
Asrgl1	-6.37535	5.00E-05	0.00021987	yes
Slc12a4	-5.07106	5.00E-05	0.00021987	yes
Frmpd4	-6.70712	5.00E-05	0.00021987	yes
Slc27a1	-7.02378	5.00E-05	0.00021987	yes
Calml4	-1.86756	0.00185	0.00593853	yes
Col4a2	-7.23005	5.00E-05	0.00021987	yes
Mfge8	-4.00886	5.00E-05	0.00021987	yes
Pvrl4	-5.16742	5.00E-05	0.00021987	yes
Ltbp4	-5.89517	5.00E-05	0.00021987	yes
Nrcam	-8.01986	5.00E-05	0.00021987	yes
Elfn1	-6.18407	5.00E-05	0.00021987	yes
Ptn	-8.13763	5.00E-05	0.00021987	yes
Rnf130	-5.33458	5.00E-05	0.00021987	yes
Cyr61	-6.41811	5.00E-05	0.00021987	yes
Aifm3	-4.09908	5.00E-05	0.00021987	yes
Tnfrsf12a	-1.37433	0.01615	0.0392781	yes
Adra2c	-4.80274	5.00E-05	0.00021987	yes
Efemp2	-3.3964	5.00E-05	0.00021987	yes
Insc	-4.03711	5.00E-05	0.00021987	yes
S100a8	-5.78542	5.00E-05	0.00021987	yes
Kcns1	-7.52873	5.00E-05	0.00021987	yes

Bai3	-5.29944	5.00E-05	0.00021987	yes
Tst	-3.04215	0.0001	0.00042184	yes
Ldlrad3	-4.31581	5.00E-05	0.00021987	yes
Brinp1	-5.62103	5.00E-05	0.00021987	yes
Whrn	-4.93118	5.00E-05	0.00021987	yes
Prima1	-3.45078	5.00E-05	0.00021987	yes
Fos	-8.27265	5.00E-05	0.00021987	yes
Kctd12	-5.11533	5.00E-05	0.00021987	yes
Arhgef10	-6.26007	5.00E-05	0.00021987	yes
Amotl2	-5.07766	5.00E-05	0.00021987	yes
Plekha2	-5.66122	5.00E-05	0.00021987	yes
Ogdhl	-6.14403	5.00E-05	0.00021987	yes
Pcsk1	-7.15666	5.00E-05	0.00021987	yes
Anxa4	-4.74813	5.00E-05	0.00021987	yes
Arhgef3	-5.26626	5.00E-05	0.00021987	yes
Nrarp	-5.41397	5.00E-05	0.00021987	yes
Clstn3	-7.88092	5.00E-05	0.00021987	yes
Cntnap1	-8.73358	5.00E-05	0.00021987	yes
Mgp	-6.50964	5.00E-05	0.00021987	yes
Impa2	-3.23591	5.00E-05	0.00021987	yes
Slc8a3	-4.95453	5.00E-05	0.00021987	yes
Plekhg5	-4.15991	5.00E-05	0.00021987	yes
Enah	-8.34193	5.00E-05	0.00021987	yes
Myh10	-8.54415	5.00E-05	0.00021987	yes
Lphn2	-5.53392	5.00E-05	0.00021987	yes
Bai1	-6.17748	5.00E-05	0.00021987	yes
Sorbs3	-4.43219	5.00E-05	0.00021987	yes
Tyro3	-6.04746	5.00E-05	0.00021987	yes
Ctdsp1	-4.60466	5.00E-05	0.00021987	yes
Hopx	-7.43278	5.00E-05	0.00021987	yes
Nefm	-6.34452	5.00E-05	0.00021987	yes
Csrp1	-8.11567	5.00E-05	0.00021987	yes
Nsg1	-4.93684	5.00E-05	0.00021987	yes
Fgf18	-3.44147	5.00E-05	0.00021987	yes
Snta1	-4.49541	5.00E-05	0.00021987	yes
Dhh	-6.67248	5.00E-05	0.00021987	yes
Serpib1a	-6.87727	5.00E-05	0.00021987	yes
Tpcn1	-7.21503	5.00E-05	0.00021987	yes
Ankrd29	-6.12122	5.00E-05	0.00021987	yes
Pcp4l1	-9.1958	5.00E-05	0.00021987	yes
Vwa7	-7.52034	5.00E-05	0.00021987	yes
C030006K11Ri	-2.4661	0.0001	0.00042184	yes
Pcdh10	-6.04571	5.00E-05	0.00021987	yes
Zfp36l2	-5.2245	5.00E-05	0.00021987	yes
Ecm1	-3.05956	5.00E-05	0.00021987	yes
Nek6	-4.33744	5.00E-05	0.00021987	yes
Tns3	-7.37999	5.00E-05	0.00021987	yes
Hnmt	-3.83034	5.00E-05	0.00021987	yes
Tnfrsf1a	-4.95865	5.00E-05	0.00021987	yes
Slc39a1	-5.24957	5.00E-05	0.00021987	yes
Asic1	-7.03658	5.00E-05	0.00021987	yes
Fam155a	-4.97678	5.00E-05	0.00021987	yes
Ramp2	-4.33877	5.00E-05	0.00021987	yes

Gpc3	-4.80794	5.00E-05	0.00021987	yes
Pctp	-5.3616	5.00E-05	0.00021987	yes
Tbc1d10a	-4.65389	5.00E-05	0.00021987	yes
Pak1	-7.57219	5.00E-05	0.00021987	yes
Wls	-5.95693	5.00E-05	0.00021987	yes
Ntm	-3.53929	5.00E-05	0.00021987	yes
Ltbr	-3.96183	5.00E-05	0.00021987	yes
Olfml3	-1.60965	0.01285	0.0322027	yes
Cacng5	-4.78436	5.00E-05	0.00021987	yes
Ptch1	-5.02069	5.00E-05	0.00021987	yes
Bcl2	-6.25369	5.00E-05	0.00021987	yes
Arpp21	-4.27197	5.00E-05	0.00021987	yes
Camk1d	-6.77243	5.00E-05	0.00021987	yes
6430571L13Ri	-3.75668	5.00E-05	0.00021987	yes
C1qtnf1	-6.59028	5.00E-05	0.00021987	yes
Gng8	-3.39107	5.00E-05	0.00021987	yes
Itm2a	-6.53515	5.00E-05	0.00021987	yes
Opn3	-2.17231	0.0014	0.00465742	yes
Sgce	-4.17884	5.00E-05	0.00021987	yes
Fscn1	-5.31644	5.00E-05	0.00021987	yes
Srd5a1	-4.18556	5.00E-05	0.00021987	yes
Chn2	-5.6006	5.00E-05	0.00021987	yes
Sort1	-6.65745	5.00E-05	0.00021987	yes
Mt2	-6.81782	5.00E-05	0.00021987	yes
Tead1	-5.48512	5.00E-05	0.00021987	yes
1190002N15Ri	-6.36877	5.00E-05	0.00021987	yes
Slc22a23	-6.24417	5.00E-05	0.00021987	yes
Abhd4	-6.9797	5.00E-05	0.00021987	yes
Adam17	-3.52774	5.00E-05	0.00021987	yes
Cnm1	-5.38025	5.00E-05	0.00021987	yes
Endod1	-7.78311	5.00E-05	0.00021987	yes
Nr1d2	-6.40056	5.00E-05	0.00021987	yes
St3gal3	-4.30648	5.00E-05	0.00021987	yes
Tesc	-6.00357	5.00E-05	0.00021987	yes
Zfp36l1	-5.11846	5.00E-05	0.00021987	yes
Parva	-7.6417	5.00E-05	0.00021987	yes
Prrg3	-5.60764	5.00E-05	0.00021987	yes
Slitrk3	-6.40372	5.00E-05	0.00021987	yes
2310022B05Ri	-6.37637	5.00E-05	0.00021987	yes
Sec14l2	-4.2824	5.00E-05	0.00021987	yes
Rcn1	-5.55289	5.00E-05	0.00021987	yes
Nrp2	-5.98187	5.00E-05	0.00021987	yes
Cyp2j6	-6.24793	5.00E-05	0.00021987	yes
Cpq	-4.17046	5.00E-05	0.00021987	yes
Rxra	-4.82889	5.00E-05	0.00021987	yes
Epas1	-7.44254	5.00E-05	0.00021987	yes
Abhd3	-4.77432	5.00E-05	0.00021987	yes
Zfp804a	-4.58725	5.00E-05	0.00021987	yes
Kcnh2	-6.9739	5.00E-05	0.00021987	yes
B930041F14Ri	-4.88192	5.00E-05	0.00021987	yes
Kcnip1	-3.26681	5.00E-05	0.00021987	yes
Strbp	-6.82292	5.00E-05	0.00021987	yes
Ndp	-3.98693	5.00E-05	0.00021987	yes

Stx1b	-6.9618	5.00E-05	0.00021987	yes
Syndig1l	-3.85597	5.00E-05	0.00021987	yes
Ddit4	-6.87028	5.00E-05	0.00021987	yes
Sft2d2	-5.3807	5.00E-05	0.00021987	yes
Phospho1	-5.54051	5.00E-05	0.00021987	yes
Spock1	-7.25923	5.00E-05	0.00021987	yes
Efhd1	-4.01542	5.00E-05	0.00021987	yes
Sh3gl2	-7.26214	5.00E-05	0.00021987	yes
Ptchd2	-5.34317	5.00E-05	0.00021987	yes
Fam81a	-4.84703	5.00E-05	0.00021987	yes
Satb1	-5.57317	5.00E-05	0.00021987	yes
Map2	-6.53775	5.00E-05	0.00021987	yes
Cntfr	-5.73279	5.00E-05	0.00021987	yes
Ctnnal1	-5.68354	5.00E-05	0.00021987	yes
Glrx	-4.54253	5.00E-05	0.00021987	yes
Slc5a5	-4.0275	5.00E-05	0.00021987	yes
Tgfb2	-4.95695	5.00E-05	0.00021987	yes
Slc41a1	-4.77601	5.00E-05	0.00021987	yes
Wipi1	-4.09628	5.00E-05	0.00021987	yes
S100a1	-4.52542	5.00E-05	0.00021987	yes
Mob3b	-4.64985	5.00E-05	0.00021987	yes
Pkd2	-4.51236	5.00E-05	0.00021987	yes
Scn1b	-8.06608	5.00E-05	0.00021987	yes
Dclk2	-5.50332	5.00E-05	0.00021987	yes
Zfp385a	-5.12826	5.00E-05	0.00021987	yes
Cish	-3.66319	5.00E-05	0.00021987	yes
St5	-3.48106	5.00E-05	0.00021987	yes
Sema3f	-4.96676	5.00E-05	0.00021987	yes
Trim16	-4.42122	5.00E-05	0.00021987	yes
Tnfsf12	-2.61114	5.00E-05	0.00021987	yes
Gria3	-3.99193	5.00E-05	0.00021987	yes
Kcna2	-6.95081	5.00E-05	0.00021987	yes
Arhgap29	-4.06573	5.00E-05	0.00021987	yes
Cplx2	-7.27435	5.00E-05	0.00021987	yes
Slitrk4	-4.72788	5.00E-05	0.00021987	yes
Rhbdf1	-3.57532	5.00E-05	0.00021987	yes
Adcy1	-6.30535	5.00E-05	0.00021987	yes
Rimbp2	-4.07162	5.00E-05	0.00021987	yes
Mxi1	-4.97437	5.00E-05	0.00021987	yes
Slc6a8	-5.20519	5.00E-05	0.00021987	yes
C2cd2	-5.26304	5.00E-05	0.00021987	yes
Wnk2	-4.4577	5.00E-05	0.00021987	yes
Nptx1	-7.08516	5.00E-05	0.00021987	yes
Id3	-6.44725	5.00E-05	0.00021987	yes
Pcx	-4.56235	5.00E-05	0.00021987	yes
Bhlhe40	-4.40538	5.00E-05	0.00021987	yes
Serpib1b	-3.50468	5.00E-05	0.00021987	yes
Fads2	-6.7427	5.00E-05	0.00021987	yes
Mxra7	-4.46042	5.00E-05	0.00021987	yes
Tceal6	-3.17143	5.00E-05	0.00021987	yes
S1pr3	-6.82528	5.00E-05	0.00021987	yes
Abcd2	-4.97546	5.00E-05	0.00021987	yes
Stbd1	-6.36365	5.00E-05	0.00021987	yes

Nat8l	-6.89023	5.00E-05	0.00021987	yes
Mapkapk2	-4.69778	5.00E-05	0.00021987	yes
Wwc2	-4.10836	5.00E-05	0.00021987	yes
Tagln3	-7.90852	5.00E-05	0.00021987	yes
Htr1d	-4.80729	5.00E-05	0.00021987	yes
Agap2	-4.5473	5.00E-05	0.00021987	yes
Erb2ip	-4.69085	5.00E-05	0.00021987	yes
Lingo2	-3.7173	5.00E-05	0.00021987	yes
Cnp	-6.46062	5.00E-05	0.00021987	yes
Tgfbr1	-4.44652	5.00E-05	0.00021987	yes
Cebpd	-2.71713	5.00E-05	0.00021987	yes
Ifitm2	-4.33484	5.00E-05	0.00021987	yes
Clvs2	-3.16377	5.00E-05	0.00021987	yes
Esrra	-4.53934	5.00E-05	0.00021987	yes
Scrt1	-6.2043	5.00E-05	0.00021987	yes
Col6a2	-4.39131	5.00E-05	0.00021987	yes
Faah	-4.11845	5.00E-05	0.00021987	yes
Ly6h	-3.76345	5.00E-05	0.00021987	yes
Sdc2	-4.70262	5.00E-05	0.00021987	yes
B3galt1	-5.53981	5.00E-05	0.00021987	yes
Cd164	-7.08348	5.00E-05	0.00021987	yes
Fosb	-5.47134	5.00E-05	0.00021987	yes
6030419C18Ri	-6.59245	5.00E-05	0.00021987	yes
Sec24d	-3.82615	5.00E-05	0.00021987	yes
Fam57b	-6.35517	5.00E-05	0.00021987	yes
Ntrk3	-5.3885	5.00E-05	0.00021987	yes
Rimk1a	-6.63101	5.00E-05	0.00021987	yes
Entpd1	-3.93382	5.00E-05	0.00021987	yes
Soat1	-4.60299	5.00E-05	0.00021987	yes
Vat1l	-6.67849	5.00E-05	0.00021987	yes
Sulf1	-4.56874	5.00E-05	0.00021987	yes
Ctso	-3.53002	5.00E-05	0.00021987	yes
Ache	-5.8134	5.00E-05	0.00021987	yes
Tmem56	-6.42393	5.00E-05	0.00021987	yes
Celsr2	-5.48253	5.00E-05	0.00021987	yes
Megf9	-6.1549	5.00E-05	0.00021987	yes
Ccdc157	-3.62795	5.00E-05	0.00021987	yes
Chchd10	-6.02503	5.00E-05	0.00021987	yes
Cd81	-5.76913	5.00E-05	0.00021987	yes
Lrp1	-6.22722	5.00E-05	0.00021987	yes
Rnd2	-4.40783	5.00E-05	0.00021987	yes
Atp11a	-6.14065	5.00E-05	0.00021987	yes
Cntnap2	-5.8988	5.00E-05	0.00021987	yes
Csad	-3.29307	5.00E-05	0.00021987	yes
Pwwp2b	-2.79993	5.00E-05	0.00021987	yes
Ksr1	-3.51539	5.00E-05	0.00021987	yes
Adamts1	-3.97195	5.00E-05	0.00021987	yes
Jam2	-5.40464	5.00E-05	0.00021987	yes
Slc4a2	-5.46179	5.00E-05	0.00021987	yes
Crim1	-2.63751	5.00E-05	0.00021987	yes
Ptprd	-4.711	5.00E-05	0.00021987	yes
Fam13a	-4.14813	5.00E-05	0.00021987	yes
Glr3	-6.17675	5.00E-05	0.00021987	yes

Ctns	-4.35095	5.00E-05	0.00021987	yes
Psph	-3.25716	5.00E-05	0.00021987	yes
Zfp36	-5.5476	5.00E-05	0.00021987	yes
Pcdh17	-4.87234	5.00E-05	0.00021987	yes
P2rx5	-3.14421	5.00E-05	0.00021987	yes
Ikbip	-2.67884	5.00E-05	0.00021987	yes
Sall2	-4.30385	5.00E-05	0.00021987	yes
Txnip	-5.25493	5.00E-05	0.00021987	yes
Ckmt1	-6.14327	5.00E-05	0.00021987	yes
4931406C07Ri	-2.79258	5.00E-05	0.00021987	yes
Csrnp1	-3.12811	5.00E-05	0.00021987	yes
Smpd3	-4.99751	5.00E-05	0.00021987	yes
Dtx4	-4.03848	5.00E-05	0.00021987	yes
Aatk	-5.99598	5.00E-05	0.00021987	yes
Plekhg1	-4.51833	5.00E-05	0.00021987	yes
Hoxd1	-4.22325	5.00E-05	0.00021987	yes
Htr1b	-1.91985	0.0007	0.00250591	yes
Ppap2a	-3.72245	5.00E-05	0.00021987	yes
Mtap	-4.05675	5.00E-05	0.00021987	yes
Slc24a3	-4.12241	5.00E-05	0.00021987	yes
Sep-04	-3.95979	5.00E-05	0.00021987	yes
Itga6	-5.40734	5.00E-05	0.00021987	yes
Tmc7	-3.95617	5.00E-05	0.00021987	yes
Fndc3b	-3.98335	5.00E-05	0.00021987	yes
Cpt1a	-6.18922	5.00E-05	0.00021987	yes
Kazn	-4.46586	5.00E-05	0.00021987	yes
Yes1	-3.41393	5.00E-05	0.00021987	yes
Cttnbp2nl	-4.66876	5.00E-05	0.00021987	yes
Lrrk2	-5.25316	5.00E-05	0.00021987	yes
Gas6	-6.26568	5.00E-05	0.00021987	yes
Gm2a	-4.53948	5.00E-05	0.00021987	yes
Laptm4b	-5.91585	5.00E-05	0.00021987	yes
Rel2	-5.31883	5.00E-05	0.00021987	yes
Lurap1	-2.64051	5.00E-05	0.00021987	yes
Acsl6	-5.37429	5.00E-05	0.00021987	yes
Elmo1	-5.28685	5.00E-05	0.00021987	yes
Pou4f3	-2.85996	0.00015	0.00061459	yes
Golim4	-4.97203	5.00E-05	0.00021987	yes
Cfh	-4.20404	5.00E-05	0.00021987	yes
Mpzl1	-3.74198	5.00E-05	0.00021987	yes
Mtfp1	-3.17399	5.00E-05	0.00021987	yes
Ermp1	-6.10541	5.00E-05	0.00021987	yes
Nkain2	-3.85731	5.00E-05	0.00021987	yes
Htr3b	-3.90901	5.00E-05	0.00021987	yes
Slc20a2	-2.82483	5.00E-05	0.00021987	yes
Pros1	-3.43136	5.00E-05	0.00021987	yes
Prickle2	-4.85654	5.00E-05	0.00021987	yes
Kcnq5	-4.2969	5.00E-05	0.00021987	yes
Plat	-3.3065	5.00E-05	0.00021987	yes
Fbxo44	-4.40954	5.00E-05	0.00021987	yes
2410131K14Ri	-3.3953	5.00E-05	0.00021987	yes
Nf1	-5.69803	5.00E-05	0.00021987	yes
Mettl9	-3.63989	5.00E-05	0.00021987	yes

Map7d2	-6.05093	5.00E-05	0.00021987	yes
Angptl2	-2.30745	0.0001	0.00042184	yes
Hoxb7	-2.51825	0.0002	0.00080284	yes
Gnai1	-5.94145	5.00E-05	0.00021987	yes
Tlcd1	-2.28495	5.00E-05	0.00021987	yes
Cnr1	-4.81302	5.00E-05	0.00021987	yes
Slc9a1	-4.81055	5.00E-05	0.00021987	yes
Abcg2	-5.37155	5.00E-05	0.00021987	yes
Gstt1	-3.06392	5.00E-05	0.00021987	yes
Ngfr	-5.91558	5.00E-05	0.00021987	yes
Slco3a1	-4.29672	5.00E-05	0.00021987	yes
Btbd11	-3.16727	5.00E-05	0.00021987	yes
Marcks1	-3.29699	5.00E-05	0.00021987	yes
Nr3c2	-3.42027	5.00E-05	0.00021987	yes
Spsb1	-4.09633	5.00E-05	0.00021987	yes
Slc6a17	-5.88915	5.00E-05	0.00021987	yes
Stk32c	-4.23669	5.00E-05	0.00021987	yes
Dcun1d4	-4.75983	5.00E-05	0.00021987	yes
Lmo4	-3.72692	5.00E-05	0.00021987	yes
Dock5	-5.27658	5.00E-05	0.00021987	yes
Eil2	-4.1425	5.00E-05	0.00021987	yes
Plcb1	-4.41591	5.00E-05	0.00021987	yes
Slc38a1	-4.98198	5.00E-05	0.00021987	yes
Socs3	-4.90642	5.00E-05	0.00021987	yes
Aldoc	-5.85269	5.00E-05	0.00021987	yes
Nrsn2	-1.9873	0.00055	0.0020157	yes
Mpp2	-3.72343	5.00E-05	0.00021987	yes
Mansc1	-2.77442	5.00E-05	0.00021987	yes
Scarb1	-3.30782	5.00E-05	0.00021987	yes
Fbxo2	-6.4736	5.00E-05	0.00021987	yes
Cables2	-3.79555	5.00E-05	0.00021987	yes
Col16a1	-3.54944	5.00E-05	0.00021987	yes
Resp18	-5.90012	5.00E-05	0.00021987	yes
Dgat2	-3.1192	5.00E-05	0.00021987	yes
Asah2	-4.25204	5.00E-05	0.00021987	yes
Secisbp2l	-5.60801	5.00E-05	0.00021987	yes
Atp1b1	-4.58673	5.00E-05	0.00021987	yes
Fam213b	-4.62344	5.00E-05	0.00021987	yes
Fgf1	-5.44299	5.00E-05	0.00021987	yes
Dexi	-4.45574	5.00E-05	0.00021987	yes
Extl2	-4.82193	5.00E-05	0.00021987	yes
Oat	-5.3386	5.00E-05	0.00021987	yes
Soga1	-4.47166	5.00E-05	0.00021987	yes
Cyp1b1	-3.75417	5.00E-05	0.00021987	yes
Adcy3	-2.85741	5.00E-05	0.00021987	yes
Limd1	-3.48182	5.00E-05	0.00021987	yes
Ddah2	-2.9609	5.00E-05	0.00021987	yes
Zak	-3.93079	5.00E-05	0.00021987	yes
Clybl	-2.98531	5.00E-05	0.00021987	yes
Hsd17b11	-5.32161	5.00E-05	0.00021987	yes
Nfib	-4.62501	5.00E-05	0.00021987	yes
Ryk	-3.14846	5.00E-05	0.00021987	yes
Slc1a5	-3.8062	5.00E-05	0.00021987	yes

Otud7b	-4.74077	5.00E-05	0.00021987	yes
Ablim2	-3.87603	5.00E-05	0.00021987	yes
Oprl1	-3.22496	5.00E-05	0.00021987	yes
Spred1	-4.77829	5.00E-05	0.00021987	yes
Map1b	-3.27655	5.00E-05	0.00021987	yes
Kitl	-4.9915	5.00E-05	0.00021987	yes
Nefl	-3.51226	5.00E-05	0.00021987	yes
Col5a3	-4.51316	5.00E-05	0.00021987	yes
Myl6b	-2.62194	0.00015	0.00061459	yes
Asb13	-4.22888	5.00E-05	0.00021987	yes
Rps6ka1	-2.601	5.00E-05	0.00021987	yes
Kcnn4	-2.53187	5.00E-05	0.00021987	yes
Slc4a4	-4.96058	5.00E-05	0.00021987	yes
Casc4	-4.48355	5.00E-05	0.00021987	yes
R3hcc1	-3.33975	5.00E-05	0.00021987	yes
Zfp365	-4.90187	5.00E-05	0.00021987	yes
Cdk17	-3.69874	5.00E-05	0.00021987	yes
Crtac1	-3.91357	5.00E-05	0.00021987	yes
Nptn	-5.73242	5.00E-05	0.00021987	yes
Hmgn1	-3.68271	5.00E-05	0.00021987	yes
Slc35b2	-3.56933	5.00E-05	0.00021987	yes
Gprc5c	-3.15497	5.00E-05	0.00021987	yes
Shisa4	-4.61481	5.00E-05	0.00021987	yes
1700086L19Ri	-1.76683	0.00085	0.00298332	yes
Vgll4	-2.85777	5.00E-05	0.00021987	yes
Cadps2	-3.98195	5.00E-05	0.00021987	yes
Tjp1	-4.37714	5.00E-05	0.00021987	yes
Agl	-5.1506	5.00E-05	0.00021987	yes
Csdc2	-4.73871	5.00E-05	0.00021987	yes
Il11ra1	-2.17528	0.00075	0.00266977	yes
6430548M08R	-5.0573	5.00E-05	0.00021987	yes
Ptrf	-4.59013	5.00E-05	0.00021987	yes
Nfkb1	-3.51012	5.00E-05	0.00021987	yes
Foxj1	-3.23567	5.00E-05	0.00021987	yes
Plcb4	-3.95882	5.00E-05	0.00021987	yes
Kifc3	-2.17705	0.00015	0.00061459	yes
Zyx	-4.26406	5.00E-05	0.00021987	yes
Kif1c	-3.75745	5.00E-05	0.00021987	yes
Opcml	-4.89303	5.00E-05	0.00021987	yes
Comp	-2.73329	5.00E-05	0.00021987	yes
Rab30	-2.91978	5.00E-05	0.00021987	yes
Hebp2	-4.28678	5.00E-05	0.00021987	yes
Ppm1h	-4.85245	5.00E-05	0.00021987	yes
Plxna2	-5.03001	5.00E-05	0.00021987	yes
Apbb2	-4.53479	5.00E-05	0.00021987	yes
Gas2	-2.78555	5.00E-05	0.00021987	yes
Rapgef5	-3.80082	5.00E-05	0.00021987	yes
Wfs1	-4.64195	5.00E-05	0.00021987	yes
Tnfrsf21	-5.25606	5.00E-05	0.00021987	yes
Slc39a14	-3.25007	5.00E-05	0.00021987	yes
Itfg3	-3.79653	5.00E-05	0.00021987	yes
Bach1	-3.32276	5.00E-05	0.00021987	yes
Rnd3	-3.2747	5.00E-05	0.00021987	yes

Rem2	-3.02914	5.00E-05	0.00021987	yes
Sep-11	-4.39753	5.00E-05	0.00021987	yes
Gyg	-5.2568	5.00E-05	0.00021987	yes
Inpp5j	-4.22208	5.00E-05	0.00021987	yes
Vwf	-4.02012	5.00E-05	0.00021987	yes
Pacs1	-3.62305	5.00E-05	0.00021987	yes
Snn	-4.48784	5.00E-05	0.00021987	yes
Pde4b	-2.96231	5.00E-05	0.00021987	yes
Kcnk3	-2.87555	5.00E-05	0.00021987	yes
Peli2	-3.81483	5.00E-05	0.00021987	yes
Ifngr1	-3.54796	5.00E-05	0.00021987	yes
Ifitm3	-4.11541	5.00E-05	0.00021987	yes
Atp8a2	-5.04835	5.00E-05	0.00021987	yes
Fam171a1	-4.3889	5.00E-05	0.00021987	yes
Lamb2	-3.80223	5.00E-05	0.00021987	yes
Plod1	-3.57811	5.00E-05	0.00021987	yes
Atp2b3	-4.67191	5.00E-05	0.00021987	yes
Dlc1	-4.12559	5.00E-05	0.00021987	yes
Atp2b2	-4.76626	5.00E-05	0.00021987	yes
Rab11fip5	-4.61695	5.00E-05	0.00021987	yes
Rnaset2b	-1.90197	0.00365	0.0107538	yes
Nudt7	-2.41968	5.00E-05	0.00021987	yes
Luzp1	-4.71329	5.00E-05	0.00021987	yes
Gdf11	-2.90498	5.00E-05	0.00021987	yes
Sord	-3.52847	5.00E-05	0.00021987	yes
Fam126b	-4.55129	5.00E-05	0.00021987	yes
Reep3	-3.72022	5.00E-05	0.00021987	yes
Hcn1	-4.54863	5.00E-05	0.00021987	yes
Mab21l2	-1.81649	0.0009	0.00313888	yes
Tjp2	-2.76667	5.00E-05	0.00021987	yes
Aldh2	-4.7898	5.00E-05	0.00021987	yes
Rasa1	-4.14885	5.00E-05	0.00021987	yes
Palm3	-4.08843	5.00E-05	0.00021987	yes
Adcy9	-4.11159	5.00E-05	0.00021987	yes
Mical2	-2.96307	5.00E-05	0.00021987	yes
Tcf12	-3.28762	5.00E-05	0.00021987	yes
Zfp191	-3.75406	5.00E-05	0.00021987	yes
Bckdhb	-3.02536	5.00E-05	0.00021987	yes
Psat1	-3.79398	5.00E-05	0.00021987	yes
Phlda1	-2.96842	5.00E-05	0.00021987	yes
Sema7a	-4.53759	5.00E-05	0.00021987	yes
Hes1	-2.16973	0.00045	0.00168221	yes
Agpat3	-4.68205	5.00E-05	0.00021987	yes
Adcy2	-3.6442	5.00E-05	0.00021987	yes
Selm	-4.79839	5.00E-05	0.00021987	yes
Arl5b	-2.89384	5.00E-05	0.00021987	yes
Rnf157	-4.73126	5.00E-05	0.00021987	yes
Ado	-3.60007	5.00E-05	0.00021987	yes
Kit	-4.09922	5.00E-05	0.00021987	yes
Timp2	-4.29431	5.00E-05	0.00021987	yes
C530008M17R	-4.12837	5.00E-05	0.00021987	yes
Lrrc49	-4.45859	5.00E-05	0.00021987	yes
Atpaf1	-2.49443	5.00E-05	0.00021987	yes

Plxnb2	-3.3653	5.00E-05	0.00021987	yes
Tenc1	-3.14493	5.00E-05	0.00021987	yes
Ndr3	-4.27337	5.00E-05	0.00021987	yes
Nmnat1	-1.84129	0.00445	0.0128065	yes
Cds1	-4.25908	5.00E-05	0.00021987	yes
Ctnnd2	-4.28389	5.00E-05	0.00021987	yes
Lrp6	-3.97021	5.00E-05	0.00021987	yes
Oxa1l	-1.89629	0.00175	0.00565998	yes
Pcolce2	-3.4582	5.00E-05	0.00021987	yes
Lgals1	-5.38873	5.00E-05	0.00021987	yes
Ier2	-3.41073	5.00E-05	0.00021987	yes
Per1	-3.17122	5.00E-05	0.00021987	yes
Pr3	-3.56413	5.00E-05	0.00021987	yes
Mmp15	-4.54085	5.00E-05	0.00021987	yes
Pcdhac2	-1.75124	0.00055	0.0020157	yes
Pygb	-4.22165	5.00E-05	0.00021987	yes
Rnf215	-2.39855	5.00E-05	0.00021987	yes
Ndufaf2	-3.6312	5.00E-05	0.00021987	yes
Fuca1	-3.37986	5.00E-05	0.00021987	yes
Pxdn	-3.39597	5.00E-05	0.00021987	yes
Ggct	-2.2343	0.0004	0.00151277	yes
Ckb	-5.06228	5.00E-05	0.00021987	yes
Ilvbl	-3.21293	5.00E-05	0.00021987	yes
Dclk1	-4.39838	5.00E-05	0.00021987	yes
Lmo1	-2.22112	0.0007	0.00250591	yes
Kctd1	-2.27755	5.00E-05	0.00021987	yes
Arhgef17	-4.24539	5.00E-05	0.00021987	yes
Tsc22d3	-4.31554	5.00E-05	0.00021987	yes
Mtss1l	-3.93851	5.00E-05	0.00021987	yes
1810011O10Ri	-2.30881	5.00E-05	0.00021987	yes
Pigz	-3.17199	5.00E-05	0.00021987	yes
Fbxo31	-4.51606	5.00E-05	0.00021987	yes
Gpr153	-3.92219	5.00E-05	0.00021987	yes
Iqgap1	-3.70777	5.00E-05	0.00021987	yes
Npc1	-3.12069	5.00E-05	0.00021987	yes
Camk2g	-4.26955	5.00E-05	0.00021987	yes
Slc25a29	-2.19623	0.0001	0.00042184	yes
Rgl1	-3.95311	5.00E-05	0.00021987	yes
H2-DMa	-2.11854	0.00065	0.00234272	yes
Ppt1	-4.03699	5.00E-05	0.00021987	yes
Slc29a4	-3.65061	5.00E-05	0.00021987	yes
Ttc39b	-3.98965	5.00E-05	0.00021987	yes
Haghl	-3.00039	5.00E-05	0.00021987	yes
Gadd45b	-2.2487	0.00025	0.00098508	yes
Lmtk2	-3.65473	5.00E-05	0.00021987	yes
Bend6	-4.33572	5.00E-05	0.00021987	yes
Fkbp7	-1.78138	0.00715	0.0194343	yes
Cxxc5	-3.13442	5.00E-05	0.00021987	yes
Zfp651	-3.52377	5.00E-05	0.00021987	yes
Lss	-3.05247	5.00E-05	0.00021987	yes
Zdhhc22	-2.08683	0.00325	0.00972654	yes
Pdk3	-3.63074	5.00E-05	0.00021987	yes
Wdfy2	-2.62146	5.00E-05	0.00021987	yes

St8sia1	-4.05192	5.00E-05	0.00021987	yes
Kcnk2	-2.47526	5.00E-05	0.00021987	yes
Gria4	-3.04801	5.00E-05	0.00021987	yes
Heatr5a	-3.95594	5.00E-05	0.00021987	yes
Aga	-2.11358	5.00E-05	0.00021987	yes
Camkk1	-3.28359	5.00E-05	0.00021987	yes
Caly	-1.62997	0.0019	0.00607991	yes
Shf	-2.75649	5.00E-05	0.00021987	yes
Gpr64	-3.49985	5.00E-05	0.00021987	yes
Ano4	-3.37506	5.00E-05	0.00021987	yes
Paqr9	-3.77942	5.00E-05	0.00021987	yes
Vstm2a	-2.98059	5.00E-05	0.00021987	yes
Paqr8	-3.8811	5.00E-05	0.00021987	yes
Ptpn13	-3.43468	5.00E-05	0.00021987	yes
Smad9	-3.83256	5.00E-05	0.00021987	yes
Snap25	-3.61459	5.00E-05	0.00021987	yes
Ackr1	-4.60543	5.00E-05	0.00021987	yes
Tor1aip1	-1.83567	0.00085	0.00298332	yes
Lzts2	-2.62679	5.00E-05	0.00021987	yes
Irs2	-2.9976	5.00E-05	0.00021987	yes
Slc30a1	-2.84107	5.00E-05	0.00021987	yes
Tm7sf3	-3.68916	5.00E-05	0.00021987	yes
Sdc3	-4.28508	5.00E-05	0.00021987	yes
Jun	-4.1948	5.00E-05	0.00021987	yes
Mctp1	-3.43465	5.00E-05	0.00021987	yes
Galnt2	-3.16753	5.00E-05	0.00021987	yes
Synj1	-4.0459	5.00E-05	0.00021987	yes
Susd4	-3.83097	5.00E-05	0.00021987	yes
Wwp1	-3.50554	5.00E-05	0.00021987	yes
Slc24a2	-3.97659	5.00E-05	0.00021987	yes
Focad	-2.85939	5.00E-05	0.00021987	yes
Pmp22	-3.46116	5.00E-05	0.00021987	yes
Fam102a	-3.89822	5.00E-05	0.00021987	yes
Gcsh	-3.91921	5.00E-05	0.00021987	yes
Chgb	-4.12648	5.00E-05	0.00021987	yes
Calu	-4.15031	5.00E-05	0.00021987	yes
Apcdd1	-2.19903	0.0001	0.00042184	yes
Rxrg	-1.83546	0.00045	0.00168221	yes
9330102E08Ri	-2.53598	5.00E-05	0.00021987	yes
Enpp5	-3.88392	5.00E-05	0.00021987	yes
Lgmn	-4.52574	5.00E-05	0.00021987	yes
Ctdsp2	-3.36296	5.00E-05	0.00021987	yes
Arhgef9	-3.41048	5.00E-05	0.00021987	yes
Grb10	-3.14196	5.00E-05	0.00021987	yes
Nfic	-3.98568	5.00E-05	0.00021987	yes
Plbd2	-3.97777	5.00E-05	0.00021987	yes
Amigo2	-3.23193	5.00E-05	0.00021987	yes
Cst3	-5.44184	5.00E-05	0.00021987	yes
Edil3	-3.93933	5.00E-05	0.00021987	yes
Dock10	-2.97594	5.00E-05	0.00021987	yes
Tmem53	-1.65562	0.0012	0.00406755	yes
H2-Q4	-1.9828	0.0009	0.00313888	yes
Ivd	-2.68107	5.00E-05	0.00021987	yes

Chml	-2.96419	5.00E-05	0.00021987	yes
Ezr	-3.38588	5.00E-05	0.00021987	yes
Dact3	-2.92885	5.00E-05	0.00021987	yes
Hey1	-2.84719	5.00E-05	0.00021987	yes
Itm2c	-4.3978	5.00E-05	0.00021987	yes
Maged2	-3.17431	5.00E-05	0.00021987	yes
Bcar3	-2.626	5.00E-05	0.00021987	yes
Gpr137c	-2.56107	5.00E-05	0.00021987	yes
Elovl5	-4.2362	5.00E-05	0.00021987	yes
Arhgdig	-4.12307	5.00E-05	0.00021987	yes
Slc22a17	-4.12289	5.00E-05	0.00021987	yes
Ehd3	-4.12538	5.00E-05	0.00021987	yes
Ahcyl2	-3.77233	5.00E-05	0.00021987	yes
Kcnk4	-1.8301	0.0019	0.00607991	yes
Cplx1	-3.92495	5.00E-05	0.00021987	yes
Traf3	-3.26197	5.00E-05	0.00021987	yes
Mpp6	-2.02598	0.0001	0.00042184	yes
Ccdc184	-2.42814	5.00E-05	0.00021987	yes
1110008P14Ri	-4.84872	5.00E-05	0.00021987	yes
Cyfp1	-3.10091	5.00E-05	0.00021987	yes
Synpo	-3.0612	5.00E-05	0.00021987	yes
Kcns3	-3.19868	5.00E-05	0.00021987	yes
Qsox1	-3.15744	5.00E-05	0.00021987	yes
Fam69b	-3.32675	5.00E-05	0.00021987	yes
Sacs	-2.47746	5.00E-05	0.00021987	yes
Slc19a2	-2.60745	5.00E-05	0.00021987	yes
Abhd2	-3.93005	5.00E-05	0.00021987	yes
Efr3a	-3.79034	5.00E-05	0.00021987	yes
Zfp423	-2.64246	5.00E-05	0.00021987	yes
Ptprs	-3.79153	5.00E-05	0.00021987	yes
Arhgap35	-3.92708	5.00E-05	0.00021987	yes
Tenm3	-3.49999	5.00E-05	0.00021987	yes
Sphkap	-3.17245	5.00E-05	0.00021987	yes
Lima1	-2.30808	5.00E-05	0.00021987	yes
Plekhh1	-2.55927	5.00E-05	0.00021987	yes
Cdr2l	-3.80167	5.00E-05	0.00021987	yes
Tmem245	-2.98319	5.00E-05	0.00021987	yes
Efcab14	-3.21644	5.00E-05	0.00021987	yes
Them6	-4.27676	5.00E-05	0.00021987	yes
Smim19	-1.98392	0.00175	0.00565998	yes
Shh	-2.64076	5.00E-05	0.00021987	yes
Phyh	-3.6047	5.00E-05	0.00021987	yes
Scamp2	-2.47342	0.0001	0.00042184	yes
Gpt2	-3.53596	5.00E-05	0.00021987	yes
Cdh2	-3.56641	5.00E-05	0.00021987	yes
Mdh1	-4.13424	5.00E-05	0.00021987	yes
Cflar	-3.10363	5.00E-05	0.00021987	yes
Neat1	-3.17726	5.00E-05	0.00021987	yes
9530068E07Ri	-3.9703	5.00E-05	0.00021987	yes
Sccpdh	-3.64461	5.00E-05	0.00021987	yes
Fzd3	-3.33589	5.00E-05	0.00021987	yes
Depdc5	-3.32844	5.00E-05	0.00021987	yes
Dagla	-2.80158	5.00E-05	0.00021987	yes

Fam210a	-3.02752	5.00E-05	0.00021987	yes
Rmdn2	-2.09359	0.0004	0.00151277	yes
Mbp	-2.62656	5.00E-05	0.00021987	yes
Mgat5	-2.54594	0.0001	0.00042184	yes
Zfp219	-1.79224	0.0004	0.00151277	yes
Ephx1	-3.77269	5.00E-05	0.00021987	yes
Spsb4	-1.8717	0.001	0.00345135	yes
Etv6	-2.57256	5.00E-05	0.00021987	yes
Kcnip3	-3.63192	5.00E-05	0.00021987	yes
Dlg1	-2.42702	5.00E-05	0.00021987	yes
Arhgap5	-3.25395	5.00E-05	0.00021987	yes
Nr3c1	-3.23061	5.00E-05	0.00021987	yes
Sp1	-2.8271	5.00E-05	0.00021987	yes
Rap1gap	-3.31302	5.00E-05	0.00021987	yes
Fut8	-3.11447	5.00E-05	0.00021987	yes
Inf2	-3.16977	5.00E-05	0.00021987	yes
Endog	-1.48668	0.01955	0.0461594	yes
Rapgef4	-3.56554	5.00E-05	0.00021987	yes
Phldb1	-3.05121	5.00E-05	0.00021987	yes
Atp2a2	-3.45912	5.00E-05	0.00021987	yes
Ttyh2	-1.96953	0.00035	0.00134243	yes
Nxt2	-2.62091	5.00E-05	0.00021987	yes
Nsun4	-2.44302	5.00E-05	0.00021987	yes
Tmem64	-3.24431	5.00E-05	0.00021987	yes
Ndc1	-2.39222	5.00E-05	0.00021987	yes
Sptb	-3.48581	5.00E-05	0.00021987	yes
Anp32a	-3.13695	5.00E-05	0.00021987	yes
Arhgap44	-3.09584	5.00E-05	0.00021987	yes
Gpr125	-2.85744	5.00E-05	0.00021987	yes
Hsd12	-3.53397	5.00E-05	0.00021987	yes
Crtap	-1.75813	0.0007	0.00250591	yes
Ufsp1	-1.74569	0.00655	0.0179915	yes
Ppif	-2.19227	5.00E-05	0.00021987	yes
Tcf4	-2.77115	5.00E-05	0.00021987	yes
Prps2	-2.70616	5.00E-05	0.00021987	yes
Cnst	-3.6887	5.00E-05	0.00021987	yes
A630007B06Ri	-2.69187	5.00E-05	0.00021987	yes
Mfsd2a	-2.7527	5.00E-05	0.00021987	yes
Lrrc20	-2.56703	5.00E-05	0.00021987	yes
Prdx4	-2.71409	5.00E-05	0.00021987	yes
Kat2b	-2.58921	5.00E-05	0.00021987	yes
Rab11fip4	-3.00975	5.00E-05	0.00021987	yes
Rcbtb1	-3.31651	5.00E-05	0.00021987	yes
Slc6a6	-2.76959	5.00E-05	0.00021987	yes
Ntrk1	-3.77307	5.00E-05	0.00021987	yes
Mgrn1	-2.21082	0.0002	0.00080284	yes
Gid4	-2.93682	5.00E-05	0.00021987	yes
Cdc42ep2	-2.58336	5.00E-05	0.00021987	yes
Nxpe3	-3.14332	5.00E-05	0.00021987	yes
Vamp3	-2.64217	5.00E-05	0.00021987	yes
Auh	-3.5165	5.00E-05	0.00021987	yes
Rnft2	-2.68607	5.00E-05	0.00021987	yes
Tmx2	-2.66469	5.00E-05	0.00021987	yes

Fxyd5	-1.52516	0.0025	0.00773857	yes
Pigx	-1.30168	0.00995	0.0258583	yes
Net1	-2.31982	5.00E-05	0.00021987	yes
Kcnq2	-2.85681	5.00E-05	0.00021987	yes
Slitrk5	-2.7428	5.00E-05	0.00021987	yes
Ptgr1	-1.81866	0.0014	0.00465742	yes
Bcas1	-2.30068	5.00E-05	0.00021987	yes
Cdc26	-2.16685	0.0018	0.0058019	yes
Phb	-2.52471	5.00E-05	0.00021987	yes
Srgn	-2.05407	0.00185	0.00593853	yes
Vwa8	-2.97472	5.00E-05	0.00021987	yes
Igf2r	-2.97401	5.00E-05	0.00021987	yes
Tspan3	-3.85589	5.00E-05	0.00021987	yes
Rgs2	-2.04003	0.00025	0.00098508	yes
Fkbp14	-2.34012	5.00E-05	0.00021987	yes
Tsc22d4	-2.68853	5.00E-05	0.00021987	yes
Eid1	-2.67978	5.00E-05	0.00021987	yes
Efhd2	-2.79961	5.00E-05	0.00021987	yes
Lgalsl	-2.83399	5.00E-05	0.00021987	yes
Fbxo7	-2.57016	5.00E-05	0.00021987	yes
Alg9	-1.82469	0.0004	0.00151277	yes
St3gal5	-2.60196	5.00E-05	0.00021987	yes
Gtdc1	-2.21417	0.0001	0.00042184	yes
Tmem123	-2.05396	5.00E-05	0.00021987	yes
Itm2b	-3.65144	5.00E-05	0.00021987	yes
Hrsp12	-2.73577	0.0001	0.00042184	yes
4931406P16Ri	-2.62097	5.00E-05	0.00021987	yes
Gm2115	-2.85697	5.00E-05	0.00021987	yes
Epb4.1l1	-3.3441	5.00E-05	0.00021987	yes
Atp1a1	-2.18495	0.0002	0.00080284	yes
Rapgef2	-2.83544	5.00E-05	0.00021987	yes
Entpd6	-2.39325	5.00E-05	0.00021987	yes
Cbfb	-3.33291	5.00E-05	0.00021987	yes
Pip4k2a	-3.32183	5.00E-05	0.00021987	yes
Prkrir	-2.75999	5.00E-05	0.00021987	yes
Sptbn2	-3.3733	5.00E-05	0.00021987	yes
Sh3d19	-2.81857	5.00E-05	0.00021987	yes
Sorbs1	-3.26922	5.00E-05	0.00021987	yes
Iglon5	-2.49201	5.00E-05	0.00021987	yes
Lym5	-2.13109	0.00015	0.00061459	yes
Fam101b	-2.28055	0.00015	0.00061459	yes
Tbx3	-2.31913	5.00E-05	0.00021987	yes
Bak1	-1.77561	0.0017	0.0055144	yes
Flna	-3.03334	5.00E-05	0.00021987	yes
Smpd1	-3.23681	5.00E-05	0.00021987	yes
Cabp1	-3.69799	5.00E-05	0.00021987	yes
Cd200	-3.22725	5.00E-05	0.00021987	yes
Gm4980	-2.97149	5.00E-05	0.00021987	yes
Sez6l2	-3.21098	5.00E-05	0.00021987	yes
Ggcx	-1.91716	0.00045	0.00168221	yes
Ldb3	-1.36836	0.00865	0.0229473	yes
Slc25a10	-2.28605	5.00E-05	0.00021987	yes
Epb4.1l3	-2.9861	5.00E-05	0.00021987	yes

Prkaca	-3.26128	5.00E-05	0.00021987	yes
E2f6	-2.66273	5.00E-05	0.00021987	yes
Abcg4	-2.90125	5.00E-05	0.00021987	yes
Hsd17b7	-3.09899	5.00E-05	0.00021987	yes
Dok5	-1.39748	0.00605	0.0167919	yes
Rnf26	-2.50237	5.00E-05	0.00021987	yes
Osbp2	-2.17281	5.00E-05	0.00021987	yes
Lrrc24	-1.6132	0.005	0.0142106	yes
Cox5a	-4.3832	5.00E-05	0.00021987	yes
Cadm3	-3.21595	5.00E-05	0.00021987	yes
Nrg1	-2.99386	5.00E-05	0.00021987	yes
Cdh18	-2.39064	5.00E-05	0.00021987	yes
Dner	-3.15356	5.00E-05	0.00021987	yes
Chga	-3.49396	5.00E-05	0.00021987	yes
Xk	-2.28733	5.00E-05	0.00021987	yes
Rnf208	-3.02455	5.00E-05	0.00021987	yes
Ninj1	-2.24919	0.0001	0.00042184	yes
Asah1	-3.10471	5.00E-05	0.00021987	yes
Dsel	-2.4718	5.00E-05	0.00021987	yes
Trip10	-2.07685	5.00E-05	0.00021987	yes
Lcp1	-2.92926	5.00E-05	0.00021987	yes
S100a13	-3.37437	5.00E-05	0.00021987	yes
Pdhb	-3.33383	5.00E-05	0.00021987	yes
Tubgcp4	-1.71696	0.00195	0.00621891	yes
Habp4	-3.29439	5.00E-05	0.00021987	yes
Siae	-2.43637	5.00E-05	0.00021987	yes
Sorl1	-3.24647	5.00E-05	0.00021987	yes
Foxo4	-1.99662	0.0003	0.00116377	yes
Txndc16	-2.76218	5.00E-05	0.00021987	yes
Agap1	-2.89251	5.00E-05	0.00021987	yes
Gm7120	-1.57154	0.00415	0.0120214	yes
Dip2a	-2.76198	5.00E-05	0.00021987	yes
Mpi	-2.81795	5.00E-05	0.00021987	yes
Ctgf	-1.98704	0.00045	0.00168221	yes
Fam20b	-3.15133	5.00E-05	0.00021987	yes
Six4	-2.7341	5.00E-05	0.00021987	yes
Abl2	-2.69873	5.00E-05	0.00021987	yes
Mtx3	-2.79332	5.00E-05	0.00021987	yes
Bhlhb9	-2.42119	5.00E-05	0.00021987	yes
Ndufa12	-2.13269	0.0068	0.0185935	yes
Atp6v1g2	-3.28864	5.00E-05	0.00021987	yes
Atp5c1	-2.97315	5.00E-05	0.00021987	yes
Abcg1	-2.93194	5.00E-05	0.00021987	yes
Lancl1	-3.00117	5.00E-05	0.00021987	yes
Mettl21a	-1.90135	0.0005	0.00185035	yes
Vkorc1	-2.42968	0.0003	0.00116377	yes
Tecr	-3.07761	5.00E-05	0.00021987	yes
Srgap2	-2.63303	5.00E-05	0.00021987	yes
Enpp2	-1.9774	0.00015	0.00061459	yes
Acss2	-2.79966	5.00E-05	0.00021987	yes
Tmbim6	-3.06783	5.00E-05	0.00021987	yes
Got1	-3.35994	5.00E-05	0.00021987	yes
Slc44a1	-3.01556	5.00E-05	0.00021987	yes

Klf2	-2.06799	0.00045	0.00168221	yes
Krt222	-2.58053	5.00E-05	0.00021987	yes
Slc12a9	-2.0594	0.0003	0.00116377	yes
Ubtcd2	-2.50069	5.00E-05	0.00021987	yes
Amer1	-2.60706	5.00E-05	0.00021987	yes
Eva1c	-1.58716	0.00195	0.00621891	yes
Chl1	-2.95687	5.00E-05	0.00021987	yes
Large	-2.87343	5.00E-05	0.00021987	yes
Fnta	-3.11509	5.00E-05	0.00021987	yes
Ankrd28	-2.15515	5.00E-05	0.00021987	yes
Podxl2	-2.37881	5.00E-05	0.00021987	yes
Cyp2u1	-1.56368	0.0049	0.0139473	yes
Eno2	-3.0897	5.00E-05	0.00021987	yes
Slc27a4	-3.0748	5.00E-05	0.00021987	yes
Sfxn5	-2.37713	5.00E-05	0.00021987	yes
Sh3pxd2a	-2.94886	5.00E-05	0.00021987	yes
Slc12a2	-3.07884	5.00E-05	0.00021987	yes
Fam58b	-1.63102	0.00835	0.0222717	yes
Zfyve21	-1.63745	0.00605	0.0167919	yes
Syt12	-2.60883	5.00E-05	0.00021987	yes
Creb3l2	-1.7532	0.0011	0.00376029	yes
AI593442	-2.87401	5.00E-05	0.00021987	yes
Me1	-2.8394	5.00E-05	0.00021987	yes
Plxna1	-2.69874	5.00E-05	0.00021987	yes
Sgpp2	-2.65283	5.00E-05	0.00021987	yes
Clstn1	-2.74159	5.00E-05	0.00021987	yes
Farp1	-2.05635	0.00025	0.00098508	yes
Slc25a20	-2.15055	0.0002	0.00080284	yes
Sh3kbp1	-2.09641	5.00E-05	0.00021987	yes
Sec14l1	-2.51104	5.00E-05	0.00021987	yes
Supt16	-2.58182	5.00E-05	0.00021987	yes
Fam53b	-2.08337	5.00E-05	0.00021987	yes
Tmem25	-2.97419	5.00E-05	0.00021987	yes
Rnf149	-2.19971	5.00E-05	0.00021987	yes
Cartpt	-1.51614	0.0035	0.0103602	yes
Tmem176a	-2.39364	5.00E-05	0.00021987	yes
Mgst3	-3.41864	5.00E-05	0.00021987	yes
Efnb2	-2.46098	5.00E-05	0.00021987	yes
Shroom3	-2.0827	5.00E-05	0.00021987	yes
Msi2	-2.64898	5.00E-05	0.00021987	yes
Tpgs2	-2.4163	5.00E-05	0.00021987	yes
Adam10	-2.92018	5.00E-05	0.00021987	yes
Slc43a2	-2.70305	5.00E-05	0.00021987	yes
Aco2	-2.97409	5.00E-05	0.00021987	yes
Galnt1	-2.44593	5.00E-05	0.00021987	yes
Ric3	-2.37018	5.00E-05	0.00021987	yes
Cyb5d2	-2.20226	5.00E-05	0.00021987	yes
Vezf1	-2.25568	5.00E-05	0.00021987	yes
Nde1	-1.47911	0.00375	0.0110093	yes
Ckap4	-2.36299	5.00E-05	0.00021987	yes
Cacna2d3	-2.48677	5.00E-05	0.00021987	yes
Slc35e1	-2.73991	5.00E-05	0.00021987	yes
Dusp6	-2.31164	5.00E-05	0.00021987	yes

Gramd1b	-2.58967	5.00E-05	0.00021987	yes
Gltpd1	-2.67212	5.00E-05	0.00021987	yes
Nkiras1	-2.24228	5.00E-05	0.00021987	yes
Elp3	-2.66973	5.00E-05	0.00021987	yes
Slc25a33	-2.47149	5.00E-05	0.00021987	yes
Ptgir	-2.61555	5.00E-05	0.00021987	yes
Oscp1	-1.81621	0.0019	0.00607991	yes
Cd63	-1.34215	0.0081	0.0217009	yes
Vps26a	-2.40051	5.00E-05	0.00021987	yes
Slc16a1	-2.69032	5.00E-05	0.00021987	yes
Tm6sf1	-1.31501	0.0212	0.0495526	yes
Junb	-2.81584	5.00E-05	0.00021987	yes
Plekhd1	-2.72141	5.00E-05	0.00021987	yes
Stox2	-2.33188	5.00E-05	0.00021987	yes
Kcnj3	-1.68938	0.003	0.00906422	yes
Hadh	-2.45651	5.00E-05	0.00021987	yes
Rock2	-2.65384	5.00E-05	0.00021987	yes
Camk2b	-2.45939	5.00E-05	0.00021987	yes
Slc25a25	-2.80423	5.00E-05	0.00021987	yes
Pxmp4	-1.73153	0.00325	0.00972654	yes
Ndufb5	-2.98459	5.00E-05	0.00021987	yes
Klf6	-2.71112	5.00E-05	0.00021987	yes
Fntb	-2.37144	5.00E-05	0.00021987	yes
Sun2	-2.46948	5.00E-05	0.00021987	yes
Vma21	-2.51174	5.00E-05	0.00021987	yes
Lphn1	-2.87835	5.00E-05	0.00021987	yes
Dennd5a	-2.81785	5.00E-05	0.00021987	yes
Myh14	-2.66068	5.00E-05	0.00021987	yes
Mknk1	-2.0155	0.00015	0.00061459	yes
Mia3	-2.81376	5.00E-05	0.00021987	yes
Grwd1	-1.63669	0.0034	0.0101093	yes
Atp9b	-2.63287	5.00E-05	0.00021987	yes
B630019K06Ri	-2.2952	5.00E-05	0.00021987	yes
Utrn	-2.77095	5.00E-05	0.00021987	yes
Pttg1ip	-2.69887	5.00E-05	0.00021987	yes
Errfi1	-2.28374	5.00E-05	0.00021987	yes
Smim13	-2.90672	5.00E-05	0.00021987	yes
Prpf19	-2.72256	5.00E-05	0.00021987	yes
Ndufv2	-2.6202	5.00E-05	0.00021987	yes
Znrf1	-2.24956	5.00E-05	0.00021987	yes
Serpini1	-2.89498	5.00E-05	0.00021987	yes
Hspa12a	-2.66209	5.00E-05	0.00021987	yes
O610007P14Ri	-2.10513	0.00045	0.00168221	yes
Mcam	-2.9212	5.00E-05	0.00021987	yes
Coq7	-2.18494	0.00085	0.00298332	yes
Hist1h2bc	-1.89504	0.00015	0.00061459	yes
Klf4	-1.89906	0.0002	0.00080284	yes
Tmem219	-1.24408	0.01405	0.0348479	yes
Gng12	-2.06342	5.00E-05	0.00021987	yes
Ltbp3	-1.9082	0.0005	0.00185035	yes
Ets2	-2.12443	0.00015	0.00061459	yes
Pcca	-1.88034	0.0005	0.00185035	yes
Amph	-2.73325	5.00E-05	0.00021987	yes

Vhl	-1.83263	0.0008	0.00282803	yes
Tmem246	-2.68242	5.00E-05	0.00021987	yes
Slc1a4	-2.65081	5.00E-05	0.00021987	yes
Ankrd52	-2.74616	5.00E-05	0.00021987	yes
Tacc1	-2.55637	5.00E-05	0.00021987	yes
Entpd7	-1.43537	0.0067	0.0183427	yes
Pik3r3	-2.52158	5.00E-05	0.00021987	yes
Nit2	-1.37424	0.02135	0.0498242	yes
B2m	-2.55251	5.00E-05	0.00021987	yes
Stxbp3a	-1.46405	0.0082	0.0219201	yes
Ak1	-2.6086	5.00E-05	0.00021987	yes
Abhd12	-3.03495	5.00E-05	0.00021987	yes
Mef2c	-2.10744	5.00E-05	0.00021987	yes
Ralgapa2	-2.24127	5.00E-05	0.00021987	yes
Tab3	-2.32487	5.00E-05	0.00021987	yes
Sarm1	-2.34882	5.00E-05	0.00021987	yes
1700020I14Ril	-2.15245	5.00E-05	0.00021987	yes
Diras1	-2.8855	5.00E-05	0.00021987	yes
Sesn3	-1.94692	0.00035	0.00134243	yes
Usp24	-2.32223	5.00E-05	0.00021987	yes
Smad5	-2.02801	5.00E-05	0.00021987	yes
Pde4dip	-2.64108	5.00E-05	0.00021987	yes
Tomm20	-2.75672	5.00E-05	0.00021987	yes
Stk39	-2.85613	5.00E-05	0.00021987	yes
Plvap	-1.58312	0.00505	0.0143435	yes
Kcnh7	-2.2429	5.00E-05	0.00021987	yes
Tmem127	-2.72091	5.00E-05	0.00021987	yes
Cnpy2	-1.94785	0.0021	0.00664933	yes
Fggy	-1.33376	0.0085	0.0226127	yes
BC048546	-2.00603	0.00025	0.00098508	yes
Twsg1	-2.23144	0.0001	0.00042184	yes
Rcbtb2	-1.92093	0.0001	0.00042184	yes
Slc35f6	-2.12606	5.00E-05	0.00021987	yes
Marcks	-2.66989	5.00E-05	0.00021987	yes
Ccdc126	-1.75045	0.00175	0.00565998	yes
Dnajb4	-2.23745	5.00E-05	0.00021987	yes
Lmln	-1.71278	0.00065	0.00234272	yes
Aldh4a1	-1.85516	0.0003	0.00116377	yes
Fam73b	-2.24546	5.00E-05	0.00021987	yes
Tmem141	-1.18106	0.019	0.0450774	yes
Emb	-2.82844	5.00E-05	0.00021987	yes
Nek7	-2.77377	5.00E-05	0.00021987	yes
Atat1	-1.18118	0.01995	0.0469868	yes
Dhrs4	-1.36455	0.00755	0.0203838	yes
Etl4	-2.35639	5.00E-05	0.00021987	yes
Hdac3	-2.46455	5.00E-05	0.00021987	yes
Oxr1	-2.38674	5.00E-05	0.00021987	yes
A830018L16Ri	-2.06226	5.00E-05	0.00021987	yes
Pisd	-1.77913	0.0015	0.00495284	yes
Aak1	-2.57951	5.00E-05	0.00021987	yes
Ptgr2	-2.0542	5.00E-05	0.00021987	yes
Ppp4r4	-1.94826	0.0004	0.00151277	yes
Dolk	-2.16033	5.00E-05	0.00021987	yes

Mob1a	-1.63281	0.00535	0.0150442	yes
Arl16	-1.52574	0.0024	0.00747963	yes
Inpp1	-1.7496	0.0006	0.00218147	yes
Btg2	-2.17408	5.00E-05	0.00021987	yes
Pde8b	-1.63615	0.00115	0.00391006	yes
Kcnc4	-2.47962	5.00E-05	0.00021987	yes
Sgsm2	-1.99867	5.00E-05	0.00021987	yes
Itsn1	-2.09312	5.00E-05	0.00021987	yes
Cox4i1	-3.65093	5.00E-05	0.00021987	yes
Tspyl4	-2.60322	5.00E-05	0.00021987	yes
Celf2	-2.3165	5.00E-05	0.00021987	yes
Lmbrd1	-2.62078	5.00E-05	0.00021987	yes
Ttc3	-2.4193	5.00E-05	0.00021987	yes
Zyg11b	-2.59434	5.00E-05	0.00021987	yes
Ttc1	-2.56209	5.00E-05	0.00021987	yes
Cxx1c	-2.78158	5.00E-05	0.00021987	yes
Tmem59l	-2.81024	5.00E-05	0.00021987	yes
Snx18	-2.24887	5.00E-05	0.00021987	yes
Syn2	-2.6572	5.00E-05	0.00021987	yes
Gucy1a2	-2.26489	5.00E-05	0.00021987	yes
Flnb	-2.29322	5.00E-05	0.00021987	yes
Tmed7	-2.53019	5.00E-05	0.00021987	yes
Prkcdbp	-1.77315	0.00415	0.0120214	yes
Zdhhc15	-2.0572	5.00E-05	0.00021987	yes
Atp1a3	-2.23749	5.00E-05	0.00021987	yes
2900097C17Ri	-2.36712	5.00E-05	0.00021987	yes
Gstm1	-1.37453	0.02125	0.0496432	yes
St3gal2	-2.40268	5.00E-05	0.00021987	yes
Ptpre	-2.14038	5.00E-05	0.00021987	yes
Nrep	-1.80423	0.00065	0.00234272	yes
Serp1	-1.69506	0.003	0.00906422	yes
Sat1	-1.82592	0.00025	0.00098508	yes
Dlat	-2.55433	5.00E-05	0.00021987	yes
Eme2	-1.49404	0.00875	0.0231617	yes
Sirt2	-2.35627	5.00E-05	0.00021987	yes
Pnkd	-1.86428	0.0003	0.00116377	yes
Cyc1	-2.858	5.00E-05	0.00021987	yes
Pdpr	-1.68447	0.0024	0.00747963	yes
Elovl1	-2.1558	0.0001	0.00042184	yes
Ak3	-2.28485	5.00E-05	0.00021987	yes
Rab8b	-2.15214	5.00E-05	0.00021987	yes
Tgm2	-1.58881	0.0034	0.0101093	yes
Rnf13	-2.20869	5.00E-05	0.00021987	yes
Qpctl	-1.40778	0.01145	0.0291736	yes
Prepl	-2.4159	5.00E-05	0.00021987	yes
Idh3g	-2.54163	5.00E-05	0.00021987	yes
Carns1	-1.78859	0.0007	0.00250591	yes
Tspan13	-2.6393	5.00E-05	0.00021987	yes
Dcbld1	-1.92518	0.0004	0.00151277	yes
Tubgcp2	-1.90263	0.00065	0.00234272	yes
Zscan29	-1.29359	0.0112	0.0286301	yes
Nceh1	-2.40939	5.00E-05	0.00021987	yes
Hoxd9	-1.40519	0.0115	0.0292898	yes

Sowahc	-1.70938	0.00105	0.00360703	yes
Atr	-1.97922	5.00E-05	0.00021987	yes
Glul	-2.40463	5.00E-05	0.00021987	yes
Susd2	-2.38469	5.00E-05	0.00021987	yes
Sephs2	-1.84972	0.0006	0.00218147	yes
Syt13	-1.31249	0.01105	0.0282903	yes
Cdc3711	-2.17435	0.00015	0.00061459	yes
Rab3ip	-1.88156	0.00065	0.00234272	yes
Mtmr2	-2.16077	5.00E-05	0.00021987	yes
Ctnna1	-2.19657	5.00E-05	0.00021987	yes
P2ry2	-1.55657	0.00405	0.0117651	yes
Dnajc18	-2.38765	5.00E-05	0.00021987	yes
Dtna	-1.72005	0.0004	0.00151277	yes
Fermt2	-2.49585	5.00E-05	0.00021987	yes
Hadha	-2.38808	5.00E-05	0.00021987	yes
Ispd	-1.57574	0.0017	0.0055144	yes
Man1a2	-2.47614	5.00E-05	0.00021987	yes
Tmem43	-2.0401	0.00025	0.00098508	yes
Mtmr4	-2.45979	5.00E-05	0.00021987	yes
Med27	-1.55957	0.00215	0.00679629	yes
Tmem260	-1.78612	0.0008	0.00282803	yes
Map1a	-1.55172	0.00245	0.00760509	yes
Ccdc28a	-2.07178	0.0008	0.00282803	yes
Slc30a4	-1.65551	0.00105	0.00360703	yes
Pdgfrb	-1.79391	0.0001	0.00042184	yes
Nrip2	-1.44783	0.00395	0.011515	yes
Abcb6	-1.74702	0.001	0.00345135	yes
Sacm1l	-2.52987	5.00E-05	0.00021987	yes
Nap1l2	-2.51593	5.00E-05	0.00021987	yes
Clec16a	-2.05044	5.00E-05	0.00021987	yes
Decr1	-1.90053	0.00015	0.00061459	yes
Git1	-2.30371	5.00E-05	0.00021987	yes
Trpm8	-1.85186	0.00045	0.00168221	yes
Sez6	-1.8562	0.00025	0.00098508	yes
Cnksr2	-1.72055	0.00115	0.00391006	yes
2610507B11Ri	-2.42458	5.00E-05	0.00021987	yes
Tti1	-1.68828	0.0017	0.0055144	yes
Plxna4	-2.342	5.00E-05	0.00021987	yes
Pkm	-2.18187	5.00E-05	0.00021987	yes
Tarsl2	-1.93111	0.0002	0.00080284	yes
Atp6v0a2	-2.20088	5.00E-05	0.00021987	yes
Fads1	-2.31005	5.00E-05	0.00021987	yes
Btbd3	-2.28353	5.00E-05	0.00021987	yes

Genes enriched in MACS DRG

gene	locus	FPKM dissociated DRG	FPKM MACS DRG	log2 fold change
Mobp	chr9:120149741-120176091	0.494799	8.57956	4.11599
Sprr1a	chr3:92483953-92485881	0.723039	6.19335	3.09858
C1ql4	chr15:99084753-99087728	4.3798	25.459	2.53924
Snhg11	chr2:158375637-158386145	36.2003	209.829	2.53514
Ccl5	chr11:83525778-83530518	1.01888	5.83732	2.51833
Meg3	chr12:109540995-109571729	38.0262	206.413	2.44047
Slc51a	chr16:32475577-32487879	0.993672	5.28095	2.40996
Pde4c	chr8:70724063-70751176	2.32634	12.2795	2.40012
Wfdc2	chr2:164562715-164568506	4.90589	24.0105	2.29108
Cdh9	chr15:16778100-16856777	2.69985	12.9506	2.26207
Bhlha9	chr11:76672469-76673676	5.44651	26.0586	2.25835
Th	chr7:142892775-142899966	44.8482	208.333	2.21577
Mrgpra3	chr7:47588949-47601372	14.0776	62.2377	2.14438
Ceacam10	chr7:24777203-24784655	4.77003	20.9802	2.13696
Amy1	chr3:113555951-113577750	3.44901	14.9848	2.11924
A930011O12Rik	chr14:64588114-64593961	3.72841	15.9681	2.09856
Cacna1i	chr15:80287237-80398292	2.17031	9.25567	2.09244
Slc17a8	chr10:89574019-89621249	3.91945	16.2287	2.04982
Nxpe2	chr9:48318003-48340898	3.11021	12.3391	1.98815
Tmprss11c	chr5:86231480-86289308	1.71747	6.76192	1.97715
Dgkk	chrX:6873483-6948363	1.61636	6.07713	1.91064
Gm7271	chr5:76484076-76516628	47.0629	174.27	1.88867
Mirg	chr12:109734980-109749457	4.23411	15.2178	1.84563
Fbp2	chr13:62836884-62858370	1.70161	6.01929	1.8227
Lgals3	chr14:47373859-47386167	4.03869	14.2712	1.82115
Ccdc68	chr18:69925558-69969484	12.0693	41.9807	1.79839
Bmp15	chrX:6314105-6320723	1.91327	6.59549	1.78544
Card11	chr5:140872998-141000596	2.49761	8.51389	1.76927
P2rx2	chr5:110339811-110343035	1.94761	6.54405	1.74848
Fxyd2	chr9:45399708-45410278	607.391	2035.6	1.74475
Nts	chr10:102481755-102490418	5.18462	17.1737	1.72789
Miat	chr5:112213227-112228948	18.1515	59.2417	1.70653
Mrgprb5	chr7:48168016-48168985	5.94189	19.335	1.70222
Wdfy1	chr1:79702261-79761769	3.67641	11.9041	1.69509
AW551984	chr9:39587395-39604124	1.6063	5.16749	1.68572
Mrgprx1	chr7:48020970-48027597	14.431	46.0247	1.67324
Il31ra	chr13:112522806-112580662	6.35222	20.2027	1.66922
Fam19a4	chr6:96831208-97060411	25.392	80.7151	1.66846
2810008D09Rik	chr11:117076782-117078955	7.18133	22.2027	1.62841
Insm1	chr2:146221996-146225018	3.41746	10.5448	1.62554
Scin	chr12:40059770-40134228	4.54131	13.9631	1.62044
Klf5	chr14:99298690-99313409	14.1979	43.5496	1.61698
Nppb	chr4:147985787-147987205	11.5426	34.9622	1.59883
Adam8	chr7:139978937-139992509	2.11102	6.38586	1.59694
Ly86	chr13:37345344-37419036	58.9898	178.365	1.5963
Rnf112	chr11:61448416-61453992	45.0243	135.9	1.59377
Plaur	chr7:24462499-24475873	3.06948	9.23192	1.58864
Tmem158	chr9:123259056-123260789	51.1339	152.882	1.58007
Celf3	chr3:94478294-94492198	4.51423	13.4408	1.57407

Smim5	chr11:115892594-115933492	5.47549	16.2571	1.57001
Fam167a	chr14:63436393-63465502	2.31177	6.79963	1.55646
Nptxr	chr15:79786350-79834333	20.273	59.214	1.54638
Dnase1l3	chr14:7965189-7994182	4.15721	12.0824	1.53922
Cpn1	chr19:43956307-43986520	2.41052	7.00292	1.53861
Casp1	chr9:5298516-5307281	3.56451	10.3536	1.53836
Rgs8	chr1:153653036-153697665	12.7367	36.9804	1.53777
Zdhhc23	chr16:43969145-43979050	2.51237	7.22064	1.52308
Scn2b	chr9:45079182-45135606	19.398	55.1479	1.5074
Kcnh6	chr11:106008202-106034064	11.2649	32.0067	1.50654
Stx3	chr19:11775117-11819403	2.72897	7.62657	1.48268
D7Erttd715e	chr7:59969576-59974431	14.8775	41.5111	1.48037
Myo1a	chr10:127705255-127720940	10.8712	30.2437	1.47612
Cyp4f39	chr17:32452722-32493320	6.78942	18.8514	1.47331
Rarres1	chr3:67478885-67515523	34.6985	96.0882	1.46949
Ppp1r1a	chr15:103530278-103537992	21.8334	60.3361	1.46649
Paqr5	chr9:61953737-62026790	11.8149	32.6304	1.46561
Cysltr2	chr14:73029127-73049114	4.93942	13.5079	1.45139
Lpar5	chr6:125067919-125082472	8.18619	22.2504	1.44257
Osmr	chr15:6813576-6874313	10.5765	28.7426	1.44233
Rasgrp1	chr2:117279992-117342877	50.6337	137.336	1.43954
Nxph3	chr11:95509845-95514565	5.79728	15.6915	1.43653
Kcnk12	chr17:87745820-87797994	7.44636	20.0779	1.431
Celf6	chr9:59578336-59607292	19.8591	53.2602	1.42326
Capn9	chr8:124576110-124618731	2.78996	7.38192	1.40375
Rspo4	chr2:151842926-151874668	1.97533	5.22009	1.40198
Pthr1	chr2:32775820-32784405	12.4205	32.5967	1.392
Gm13498	chr2:50909683-50911846	2.56652	6.71282	1.3871
1700003M02Rik	chr4:34711331-34730206	3.44232	8.98301	1.38382
Ctxn3	chr18:57468485-57478134	48.4221	125.877	1.37828
Ppp1r2-ps3	chr19:30538875-30539679	2.78031	7.22249	1.37725
Gfra2	chr14:70890129-70979838	68.3953	177.267	1.37395
A3galt2	chr4:128759257-128769298	17.2829	44.7644	1.37301
Gpr35	chr1:92973118-92986391	8.8864	22.9123	1.36645
Rgs10	chr7:128373624-128418172	137.501	354.443	1.36611
Lxn	chr3:67430114-67475068	184.94	476.185	1.36446
Acpp	chr9:104288239-104337722	131.722	338.437	1.36139
Cmtm8	chr9:114789344-114844152	2.31264	5.88826	1.3483
Ms4a3	chr19:11629496-11640834	5.0909	12.9377	1.34558
Gm11549	chr3:36515056-36521445	3.66638	9.28461	1.34048
Ldb2	chr5:44472132-44799746	47.2482	119.582	1.33967
Pnpla3	chr15:84167815-84189521	3.99589	10.0945	1.33699
Nrn1l	chr8:105893569-105895015	18.4387	46.5793	1.33695
Nt5e	chr9:88327608-88372089	16.3601	41.2015	1.33251
P2ry1	chr3:61002784-61008982	22.9793	57.7654	1.32987
Trim14	chr4:46505071-46536141	3.15203	7.8985	1.3253
Insm2	chr12:55598916-55602017	6.3283	15.813	1.32122
Nnat	chr2:157556361-157566361	13.8098	34.3594	1.31501
Rsrp1	chr4:134923624-134927370	75.0788	186.398	1.31191
Nptx2	chr5:144545886-144557478	45.6728	113.352	1.31141
Rasa4	chr5:136083915-136111861	7.09664	17.5833	1.309
Cckar	chr5:53698484-53707704	11.4473	28.2087	1.30113
Car8	chr4:8141492-8239041	4.48229	11.0306	1.29921

Dusp26	chr8:31089661-31097047	92.656	227.328	1.29482
Syt5	chr7:4539764-4546567	33.5326	81.4237	1.27989
Msantd2	chr9:37489320-37524150	2.10882	5.11001	1.27689
Mal2	chr15:54571365-54602846	89.8087	217.472	1.2759
Sox11	chr12:27334267-27342718	2.29673	5.55328	1.27376
Pou4f2	chr8:78433008-78436652	7.57354	18.2333	1.26754
Sst	chr16:23889580-23890844	15.8063	38.0425	1.26711
Pdlim1	chr19:40222238-40271616	6.50473	15.5801	1.26014
Nbl1	chr4:139082291-139092970	90.5025	216.711	1.25974
Ass1	chr2:31470269-31520670	5.05376	12.0911	1.25851
Gpx2	chr12:76792334-76795554	2.10114	5.0265	1.25838
Dgkz	chr2:91932821-91963563	161.227	383.569	1.25039
Kcng2	chr18:80294543-80364254	4.65535	11.0753	1.25039
Firre	chrX:50555743-50635258	5.76584	13.7161	1.25027
Grik1	chr16:87895896-88290258	85.2794	202.837	1.25005
Kcnip2	chr19:45792345-45816063	54.5379	129.711	1.24997
Rps17	chr7:81342732-81345234	7.47309	17.7607	1.24891
Zfp40	chr17:23173868-23193228	5.62862	13.3714	1.24829
Gm16702	chr17:8372395-8422726	3.31534	7.87118	1.24742
Zbtb48	chr4:152019775-152027671	2.24282	5.27835	1.23477
Atf5	chr7:44812255-44849079	32.3517	75.8435	1.22919
Synpr	chr14:13284779-13615469	145.602	341.308	1.22904
Gpr162	chr6:124858444-124863917	10.1986	23.9063	1.22902
Mst1r	chr9:107906888-107920383	2.3233	5.43661	1.22653
Prkcd	chr14:30595353-30626208	119.971	280.535	1.22549
Isl2	chr9:55541148-55546178	81.7221	190.99	1.2247
Tmem45b	chr9:31426195-31464238	109.094	254.443	1.22178
Slc10a6	chr5:103605710-103629403	3.81745	8.89477	1.22035
Syt7	chr19:10389089-10453181	45.1442	105.048	1.21843
Socs2	chr10:95411489-95416857	15.5128	36.0513	1.2166
Plxnc1	chr10:94790865-94944578	59.4887	138.2	1.21607
Dgki	chr6:36846021-37299976	28.7491	66.759	1.21545
Gm527	chr12:64917910-64924591	5.7805	13.3832	1.21116
Fam122b	chrX:53243414-53269805	6.41953	14.8418	1.20912
Hspa1b	chr17:34956428-34959238	7.25762	16.7635	1.20776
Ypel1	chr16:17070138-17111252	2.79554	6.45239	1.20671
Adamts9	chr6:92772698-92901441	2.30415	5.31534	1.20593
Slc45a3	chr1:131962914-131982972	10.3901	23.9633	1.20561
Ssh3	chr19:4261668-4269172	4.71871	10.8794	1.20514
Ptgdr	chr14:44851234-44859375	17.4054	39.9455	1.1985
Snhg7	chr2:26637175-26640244	2.69981	6.19551	1.19836
Fam222a	chr5:114568250-114613218	3.33616	7.64935	1.19715
Gna14	chr19:16435666-16610818	33.7869	77.4094	1.19605
Trpc3	chr3:36620481-36690167	36.0726	82.3544	1.19094
Serinc2	chr4:130253496-130275586	15.0028	34.229	1.18999
Slc37a1	chr17:31295482-31350698	6.56055	14.9124	1.18463
N4bp2l1	chr5:150571642-150594525	4.54131	10.2614	1.17605
Nog	chr11:89300637-89302559	2.94987	6.66094	1.17507
Zfp521	chr18:13687013-13972733	8.80978	19.8338	1.17078
Kcnip4	chr5:48389502-49285659	87.0295	195.867	1.1703
Slc16a12	chr19:34668405-34747111	5.98954	13.4435	1.1664
Tnr	chr1:159523768-159924922	2.80068	6.27876	1.1647
Rgs4	chr1:169741476-169747642	464.407	1041.02	1.16453

Cyp2j12	chr4:96099317-96141152	4.24458	9.50122	1.16249
Tlx3	chr11:33200751-33203588	38.5865	86.1592	1.15891
Atg16l2	chr7:101289615-101302088	2.3425	5.23037	1.15886
Myt1	chr2:181763331-181827775	15.019	33.4874	1.15683
Tubb2b	chr13:34127007-34130354	164.977	367.79	1.15662
Plekha5	chr6:140424098-140594906	6.34873	14.1264	1.15386
Cdk15	chr1:59256906-59352369	23.266	51.7423	1.15312
Hyls1	chr9:35559465-35570069	3.45701	7.68484	1.15249
Nkain1	chr4:130530130-130574036	5.79097	12.8652	1.1516
Tia1	chr6:86404218-86433405	3.80603	8.42912	1.1471
Tubb2a-ps2	chr12:11882195-11882899	49.1676	108.887	1.14705
Grhl3	chr4:135541887-135573620	3.72934	8.25651	1.14661
Casz1	chr4:148804391-148954892	14.4527	31.9926	1.1464
Rasgef1a	chr6:118066384-118091546	19.2068	42.4556	1.14434
4931429I11Rik	chr9:40894848-40964112	6.18992	13.6679	1.1428
Kcnn1	chr8:70842048-70857008	9.03001	19.9238	1.1417
Prdm12	chr2:31640036-31655795	64.8452	142.945	1.14039
Kcnt1	chr2:25863853-25918273	30.7203	67.6819	1.13957
Tmem233	chr5:116040533-116083246	206.674	454.533	1.13703
Vstm5	chr9:15239044-15259413	32.9116	72.312	1.13564
Aff2	chrX:69360330-69868037	2.9213	6.41539	1.13492
Mmp25	chr17:23629457-23645269	18.018	39.5623	1.13469
9430021M05Rik	chr2:162661162-162675204	6.49662	14.22	1.13016
Camk2a	chr18:60925631-60988152	46.25	101.101	1.12827
Slc35b3	chr13:38932139-38960875	6.01332	13.1305	1.12669
Trpc6	chr9:8544141-8740988	7.13048	15.5383	1.12376
Setd6	chr8:95715912-95719004	5.06273	11.0097	1.12078
Slc4a11	chr2:130684107-130697519	7.3353	15.9202	1.11793
Moxd1	chr10:24223516-24302783	14.6084	31.5741	1.11195
Cpne2	chr8:94533027-94570529	24.5861	52.9124	1.10577
Hmga2-ps1	chr1:176814659-177020432	4.68591	10.0755	1.10445
Actn1	chr12:80167541-80260371	17.404	37.4067	1.10387
Hmox1	chr8:75093617-75100593	14.2657	30.6412	1.10292
Cnih2	chr19:5088537-5098418	8.71718	18.7016	1.10122
Kcnk13	chr12:99964498-100062682	4.61203	9.89282	1.10098
Fnbp1l	chr3:122538718-122619714	7.40714	15.8865	1.10081
Fmnl1	chr11:103171137-103198900	24.7759	52.9682	1.09619
Scn11a	chr9:119753764-119825456	147.309	314.697	1.09512
Kcng3	chr17:83585956-83631895	3.65145	7.74312	1.08445
Gm525	chr11:89073840-89093064	3.05454	6.45801	1.08013
Pcgf1	chr6:83078389-83080855	9.93021	20.9747	1.07876
Rian	chr12:109603944-109661711	62.5428	132.025	1.07789
Pnlsr	chr4:21846326-21876475	8.89515	18.723	1.07372
Lrrc3	chr10:77897575-77902536	6.87661	14.4667	1.07296
Fam220a	chr5:143548705-143564525	17.5997	36.9734	1.07093
Mab21l1	chr3:55625197-56183701	2.69624	5.65705	1.0691
Zcchc7	chr4:44756558-44932214	4.84868	10.1398	1.06436
Pcgf6	chr19:47033618-47050845	2.88951	6.03753	1.06313
Plcb3	chr19:6953712-6969814	113.299	236.447	1.06138
A430105I19Rik	chr2:118754144-118762661	2.91073	6.06289	1.05863
2010107G23Rik	chr10:62107655-62111013	14.7269	30.6448	1.05718
Ror2	chr13:53109316-53286109	3.49369	7.26975	1.05715
Kcnd3	chr3:105448189-105674002	38.4005	79.7905	1.05509

Tmem200a	chr10:25991185-26079447	12.2716	25.3662	1.04759
Stx1a	chr5:135023571-135051099	17.6794	36.5316	1.04708
St6galnac3	chr3:153202508-153725133	2.99429	6.18212	1.04589
N28178	chr4:42917250-42941607	260.47	536.951	1.04367
Fam89a	chr8:124740256-124751809	36.3109	74.7045	1.04079
Nrg2	chr18:36017657-36197160	2.98258	6.13335	1.04011
Fam193b	chr13:55539315-55571120	4.23231	8.69723	1.03911
Tox2	chr2:163225453-163323102	7.04412	14.4729	1.03887
Dgkh	chr14:78569608-78725089	91.3741	187.55	1.03742
Syt9	chr7:107284774-107591365	45.6169	93.5697	1.03647
Npy2r	chr3:82538382-82548085	8.22588	16.8471	1.03426
Hpca	chr4:129105529-129121925	17.3732	35.5195	1.03175
Tcerg1l	chr7:138208971-138397730	7.29298	14.9075	1.03145
Rab33a	chrX:48519284-48530240	7.91763	16.1835	1.03138
Samsn1	chr16:75858793-75909266	6.3077	12.8843	1.03043
Spink2	chr5:77205105-77211471	3.25061	6.63676	1.02977
Hs6st2	chrX:51386636-51681602	29.3921	60.0057	1.02967
Ttc14	chr3:33800182-33844310	5.29474	10.8018	1.02864
Scg3	chr9:75643365-75684056	410.621	837.423	1.02815
Gpr27	chr6:99692678-99693818	3.36472	6.85752	1.0272
Eml1	chr12:108371152-108702306	153.626	311.913	1.02172
St6galnac5	chr3:152820709-152982207	5.84588	11.865	1.02122
Zfhx2	chr14:55061658-55092048	6.69321	13.5768	1.02037
Rab27b	chr18:69979130-70141590	19.4388	39.4178	1.01991
Pak4	chr7:28558818-28598184	4.08585	8.26713	1.01675
Cd44	chr2:102811141-102901665	77.0094	155.691	1.01558
Stac	chr9:111561433-111690216	28.6869	57.9941	1.01551
Snrpf	chr10:93540631-93605245	3.87701	7.83686	1.01533
Zfp692	chr11:58307068-58314613	2.71104	5.47694	1.01452
Iqcg	chr16:32914099-33056186	3.54449	7.15002	1.01237
Ppp1r14b	chr19:6975047-6977324	8.35059	16.836	1.0116
Tmem132c	chr5:127241825-127565790	3.50219	7.04674	1.0087
Mrgprd	chr7:145314834-145324059	66.7719	134.11	1.0061
Redrum	chr18:54422294-54453294	2.82484	5.67168	1.0056
39141	chr15:26309071-26409573	10.5145	21.0836	1.00374
Kcnc2	chr10:112271122-112466304	6.04687	12.1185	1.00295
Rspo1	chr4:124986429-125009099	4.11246	8.21844	0.998861
Timeless	chr10:128232062-128252941	4.49198	8.97523	0.998597
Nfil3	chr13:52967208-52981039	2.84965	5.67917	0.994894
Gabra2	chr5:70961056-71095849	11.7759	23.463	0.994558
Clasrp	chr7:19581042-19604468	6.29815	12.5456	0.994181
Fam150b	chr12:30884323-30911612	6.75444	13.4475	0.993426
Nxpe4	chr9:48362040-48400025	3.7046	7.37013	0.992373
Hes6	chr1:91411482-91413222	13.1416	26.1314	0.991645
Rgs5	chr1:169655500-169693526	53.9022	106.77	0.98609
6720468P15Rik	chr19:57508563-57512788	3.66293	7.23903	0.982799
Klhdc8b	chr9:108447638-108465945	10.3035	20.3593	0.982552
Klhl29	chr12:5077465-5375682	7.89542	15.5997	0.982427
Clgn	chr8:83389890-83426829	52.2039	103.082	0.981559
Pstpip2	chr18:77794549-77882879	17.2132	33.9455	0.979703
Dpp10	chr1:123332137-124045559	51.5312	101.586	0.979191
2210408F21Rik	chr6:31220350-31337394	8.62795	16.9857	0.977227
Lrp8	chr4:107802258-107876840	5.17825	10.1655	0.973143

Tmem79	chr3:88328652-88334433	47.4108	93.0201	0.972328
Sdc1	chr12:8771395-8793687	10.299	20.1939	0.971419
Amer2	chr14:60378285-60381003	8.67797	17.0024	0.970311
Palm2	chr4:57568247-57717128	14.0831	27.5765	0.969474
Mical1	chr10:41476313-41487030	23.9169	46.8253	0.969254
Rgs11	chr17:26202961-26211324	4.98534	9.74811	0.967432
Sdsl	chr5:120458201-120472763	3.40431	6.65462	0.966992
Ankrd10	chr8:11611580-11635757	10.1806	19.8991	0.966879
Mapk7	chr11:61488811-61494266	7.52896	14.6973	0.965026
Lpar3	chr3:146220960-146286214	33.3301	65.0331	0.96435
Eno3	chr11:70657175-70662513	3.89248	7.58353	0.962181
Mex3d	chr10:80380354-80387651	5.90083	11.4837	0.960591
Htr4	chr18:62324203-62467802	3.12981	6.08992	0.960346
Zdhhc12	chr2:30078765-30093635	8.91271	17.3396	0.960132
Arhgap26	chr18:38993144-39376285	17.4433	33.8969	0.958479
Ubald2	chr11:116434093-116439077	4.32152	8.39541	0.958063
Dapk1	chr13:60601946-60763191	22.1293	42.8703	0.954022
Rhebl1	chr15:98877759-98881414	11.3531	21.9504	0.951161
Cpne3	chr4:19519251-19570104	78.7717	151.858	0.946978
Bach2	chr4:32417434-32586108	3.07651	5.92365	0.945192
Magi1	chr6:93675452-94283917	41.8162	80.4143	0.94339
Frmd4b	chr6:97286866-97617657	6.24471	12.0084	0.943343
Rgs3	chr4:62559846-62703019	14.8704	28.5645	0.941783
Lime1	chr2:181381234-181383628	5.03112	9.63985	0.93813
Med10	chr13:69809881-69816094	28.5195	54.5568	0.935808
AI413582	chr17:27563768-27565727	62.8663	120.114	0.934051
Trim39	chr17:36258872-36272004	4.43794	8.47515	0.93335
Dgkg	chr16:22466568-22657231	15.1395	28.8685	0.931182
Pafah1b3	chr7:25295048-25297955	17.7411	33.8242	0.930965
Bex4	chrX:136139044-136140437	3.98175	7.59061	0.930812
Ccdc141	chr2:77009905-77170635	16.4857	31.3823	0.928736
Rgs17	chr10:5825663-5922400	11.214	21.3145	0.926539
P2rx3	chr2:84996551-85035834	111.77	211.955	0.923227
Rhov	chr2:119269200-119271226	20.1123	38.11	0.922088
Pisd-ps3	chrUn_JH584304:52673-59689	10.6369	20.1336	0.92052
Ptbp3	chr4:59471867-59549364	16.7017	31.6112	0.920444
Zfp945	chr17:22846696-22867134	3.37713	6.39174	0.920409
Ndst3	chr3:123526165-123672392	3.69179	6.97403	0.91767
Prkcq	chr2:11172381-11301226	33.6652	63.5433	0.916479
Gnb4	chr3:32583527-32616535	37.1262	69.8156	0.911112
Neurl1a	chr19:47178819-47259441	10.5139	19.7116	0.906746
Pdlim2	chr14:70164217-70177672	10.2102	19.1391	0.906507
Sh2d5	chr4:138250410-138260968	3.61108	6.75871	0.904317
Cblb	chr16:52031548-52208046	7.94826	14.8617	0.902884
4930503L19Rik	chr18:70453139-70501065	2.89264	5.40215	0.901145
Prkca	chr11:107933386-108343888	60.6531	113.27	0.901112
Izumo4	chr10:80702692-80705382	13.6158	25.4237	0.900891
Arhgap28	chr17:67842707-68004108	26.6613	49.7811	0.900852
Mrgpra2b	chr7:47463806-47489582	5.6603	10.5582	0.899409
Ptger3	chr3:157566891-157644758	7.48439	13.9493	0.898234
Tle1	chr4:72109944-72200893	22.0174	41.009	0.897296
Klhl2	chr8:64739674-64849924	20.0227	37.28	0.896767
Mrgprb4	chr7:48198212-48199178	13.4722	25.0583	0.895306

Tox3	chr8:90247111-90348252	6.76159	12.5733	0.894929
Actl6b	chr5:137553554-137569573	16.2207	30.1525	0.894446
Smarca1	chrX:47809369-47892552	8.83306	16.4138	0.893923
Bex2	chrX:136066564-136068236	194.481	360.474	0.890265
Rpl34,Rpl34-ps1	chr3:130726826-130730398	5.61151	10.3902	0.888755
Plcx3	chr15:4375490-4575579	19.7767	36.6044	0.888216
Exosc6	chr8:111056338-111057664	5.4963	10.1709	0.887919
Tmem164	chrX:142681399-142843494	21.7072	40.1636	0.887713
Nsg2	chr11:32000418-32059211	86.6828	160.373	0.887617
Fam83h	chr15:76001091-76014336	3.06164	5.65939	0.886341
Celsr3	chr9:108826319-108852969	4.83204	8.92905	0.885876
5031425E22Rik	chr5:23431807-23434353	3.52178	6.50371	0.884959
Sox4	chr13:28950729-28953682	11.1473	20.5538	0.882706
Fads3	chr19:10041547-10059671	21.8271	40.2104	0.881449
Fdx1	chr9:51943306-51963533	10.1817	18.7279	0.879212
Smyd3	chr1:178955038-179518003	7.98327	14.6802	0.878824
Uaca	chr9:60794547-60880370	22.1622	40.6741	0.876011
Pitpnc1	chr11:107207891-107470720	65.7978	120.758	0.876006
Trpa1	chr1:14872647-14918862	18.6735	34.2468	0.874976
Basp1	chr15:25363276-25413764	123.468	226.435	0.874956
Hcn3	chr3:89146774-89160157	11.1843	20.5054	0.874528
Lcorl	chr5:45669924-45857540	6.83288	12.5249	0.87423
Prrxl1	chr14:32599926-32649246	15.2569	27.9518	0.873476
Ica1l	chr1:59989067-60043087	4.244	7.76989	0.87247
Gnao1	chr8:93810837-93969388	305.811	558.236	0.868235
Tes	chr6:17065148-17105825	4.88649	8.88822	0.863096
Lap3	chr5:45493373-45512691	25.1905	45.7901	0.862155
Tagln2	chr1:172500245-172507375	126.898	230.401	0.860479
Nyap1	chr5:137730962-137739998	31.5156	57.1982	0.859902
Unc13c	chr9:73479423-73933567	6.69281	12.1403	0.859118
Lrrc45	chr11:120713952-120721127	4.78961	8.68751	0.859036
Arap1	chr7:101348068-101412586	11.5387	20.9221	0.858541
Tmem159	chr7:120102425-120120986	7.42478	13.4583	0.858078
Srek1	chr13:103741614-103764582	5.59321	10.1309	0.857016
Trmt10b	chr4:45297167-45316131	5.23878	9.47058	0.854222
Hyi	chr4:118359998-118409263	18.1355	32.766	0.853384
Trim11	chr11:58978092-58991462	5.13837	9.27914	0.852681
Tshz2	chr2:169633645-169888504	45.7996	82.683	0.852255
Irf6	chr1:193153111-193172035	2.78778	5.02536	0.85011
Slc12a7	chr13:73763696-73816742	6.87407	12.3827	0.849087
Prph	chr15:99055173-99058978	1065.39	1918.98	0.848962
Ctxn1	chr8:4257645-4259274	36.7868	66.2085	0.84783
Unc13b	chr4:43058983-43264887	3.84719	6.92389	0.847778
Sncg	chr14:34370273-34374669	2246.55	4037.66	0.845806
Ppfia2	chr10:106470309-106933468	9.36111	16.8239	0.84576
Efn1	chr3:89271729-89280951	19.5254	35.0772	0.84518
Slc4a3	chr1:75546265-75559431	4.56178	8.18272	0.842984
Rpl29	chr9:106429538-106431567	30.6387	54.9577	0.842965
Psd	chr19:46304736-46327156	3.39088	6.0636	0.838515
Zfp760	chr17:21707740-21725636	3.11496	5.56654	0.837568
Bok	chr1:93685693-93695762	4.48124	8.00665	0.837302
Magi3	chr3:104013264-104220406	54.14	96.6172	0.835586
2810032G03Rik	chr12:5376501-5416132	3.61615	6.45082	0.835029

Vgf	chr5:137030294-137033351	43.5806	77.6806	0.833867
Tmem151b	chr17:45523433-45549677	21.208	37.7782	0.832947
Hsbp1l1	chr18:80229755-80247102	21.3241	37.973	0.832488
Phactr3	chr2:178118974-178338492	5.98244	10.6482	0.831805
Hal	chr10:93488767-93516743	3.42255	6.08885	0.831098
Tyw5	chr1:57388243-57415958	5.59134	9.94701	0.83107
Grip1	chr10:119454033-120112965	8.87331	15.775	0.830099
Tapbpl	chr6:125224211-125239934	8.1358	14.4325	0.826969
Lmbr1l	chr15:98903920-98918098	5.90722	10.4778	0.826782
Abhd14b	chr9:106448639-106452918	10.4258	18.474	0.825341
Gnaq	chr19:16132830-16387453	103.772	183.723	0.824113
E4f1	chr17:24443778-24455311	3.89283	6.89188	0.824077
Bex1	chrX:136213971-136215513	7.13669	12.634	0.823989
Prkd1	chr12:50341231-50649223	8.5444	15.1158	0.823005
Cpne8	chr15:90487480-90679388	27.7905	49.1135	0.82153
Zfp579	chr7:4992851-4996101	3.33504	5.89324	0.821356
Schip1	chr3:67892219-68626482	32.3523	57.1475	0.82082
Chia1	chr3:106113381-106132116	3.64517	6.43652	0.820294
Cadm1	chr9:47530351-47853385	126.225	222.86	0.820138
Ptms	chr6:124913674-124917946	245.707	433.156	0.817949
Tstd1	chr1:171419032-171420352	6.44466	11.341	0.815374
Fam132a	chr4:155962311-155966629	9.97493	17.5481	0.81494
Arhgap22	chr14:33216822-33369936	8.40394	14.7835	0.814851
Bhlhe41	chr6:145858242-145865420	10.4548	18.3911	0.81484
Odf2l	chr3:145118588-145153915	4.35341	7.65299	0.813876
5330417C22Rik	chr3:108458068-108536522	4.24087	7.45161	0.813191
Pde11a	chr2:75991131-76338653	13.8868	24.3954	0.812893
Tmem72	chr6:116692724-116716758	13.2493	23.2693	0.812511
Zfp948	chr17:21567045-21588682	6.52926	11.4649	0.812226
Syt1	chr10:108497649-109010975	78.0097	136.955	0.81198
Shkbp1	chr7:27342132-27356008	4.83404	8.47904	0.81067
Camk4	chr18:32939040-33195767	4.08034	7.15175	0.809609
Mex3b	chr7:82867332-82871576	3.73299	6.54178	0.809349
Agtr1b	chr3:20314472-20367177	3.74766	6.56257	0.80827
Ptptr	chr2:161521987-162661147	23.346	40.878	0.80815
Ebf3	chr7:137193670-137314445	21.3776	37.399	0.806901
Rpl30	chr15:34440505-34443276	6.95372	12.1624	0.806576
Rarg	chr15:102234937-102257522	13.7816	24.0813	0.805166
Rgs19	chr2:181688418-181693977	5.38113	9.40142	0.804971
Fam129b	chr2:32876133-32961255	33.6246	58.7031	0.803919
Inha	chr1:75507076-75510354	3.47718	6.07008	0.803797
Rnh1	chr7:141160325-141172851	46.898	81.8685	0.80378
Sft2d1	chr17:8283812-8327442	5.57484	9.72513	0.802788
Klhl5	chr5:65131230-65168142	36.8512	64.2216	0.801345
Mpped2	chr2:106693458-106868360	20.0778	34.9805	0.80095
Chka	chr19:3851772-3894369	26.8995	46.857	0.800685
Pld5	chr1:175962305-176275312	19.7142	34.3149	0.799603
Srrm3	chr5:135818105-135874772	6.31068	10.9778	0.798719
Nrsn1	chr13:25252038-25269996	45.1705	78.562	0.798452
S100a6	chr3:90612893-90614414	511.496	888.956	0.797389
Hivep3	chr4:119814677-120135411	2.93228	5.09581	0.797285
Arpc1b	chr5:145114255-145128186	92.4992	160.686	0.796728
Tpd52	chr3:8929435-9004515	136.577	237.157	0.796132

Ret	chr6:118151747-118197744	162.265	281.532	0.794943
Acbd4	chr11:103101687-103112199	21.3949	37.105	0.794346
Rbms1	chr2:60751952-60963204	51.6348	89.5003	0.79355
Scn3b	chr9:40269215-40291618	32.0746	55.5313	0.791872
H2afy	chr13:56073621-56135550	24.2043	41.9047	0.791849
Slc7a7	chr14:54360840-54417702	41.7696	72.3066	0.791676
Rnf144a	chr12:26306793-26415262	18.431	31.8791	0.790476
Bcat2	chr7:45567794-45589710	15.1224	26.1437	0.78978
Nedd4l	chr18:64887755-65751537	54.1916	93.6837	0.789728
Dok4	chr8:94857449-94876312	134.304	232.095	0.789211
Il4ra	chr7:125552281-125579474	8.57857	14.8218	0.788915
Wipf3	chr6:54452882-54503768	35.7087	61.5735	0.786034
Mapk4	chr18:73928485-74064949	7.01155	12.0766	0.784404
Adrbk2	chr5:112910477-113015538	5.28975	9.11038	0.784311
Bri3	chr5:144244436-144361005	18.9926	32.6968	0.783711
Ube2ql1	chr13:69702831-69739897	32.2267	55.4638	0.783288
Asic2	chr11:80880162-81968396	40.7991	70.2082	0.783102
Dclk3	chr9:111439080-111489611	13.6059	23.3813	0.781116
Mvp	chr7:126986859-127014594	20.6043	35.3945	0.78058
Gprin1	chr13:54736672-54749669	3.99786	6.86501	0.780035
Ppef1	chrX:160623093-160719972	38.8228	66.6284	0.779235
Flot1	chr17:35823356-35832787	171.822	294.834	0.778988
Mb21d2	chr16:28826175-28929698	7.15722	12.2722	0.777918
Pusl1	chr4:155869566-155891762	8.21137	14.0785	0.777802
Kcnk18	chr19:59219647-59237370	4.73889	8.11874	0.776706
Tusc5	chr11:76679872-76698664	255.299	437.315	0.776488
Cenpv	chr11:62524943-62539261	5.32295	9.11647	0.776248
Arhgef1	chr7:24902985-24926591	12.8669	22.0241	0.775425
Gm13826	chr5:115102921-115110268	71.9509	123.14	0.775217
9930104L06Rik	chr4:124937047-124944661	3.00025	5.13281	0.774666
Tbc1d1	chr5:64160259-64351486	10.5281	18.0025	0.773948
Mmp17	chr5:129584213-129608211	4.40699	7.52857	0.772581
Rab27a	chr9:73044864-73097592	11.0969	18.9532	0.772288
Scn10a	chr9:119608455-119719032	212.704	363.038	0.771271
Fam135a	chr1:24010757-24100341	5.92361	10.1094	0.771142
6820431F20Rik	chr8:20268285-20297432	3.04634	5.1934	0.769602
Gpd1l	chr9:114899338-114933987	39.6072	67.3265	0.765413
Wnt2b	chr3:104944804-104961709	8.98123	15.2657	0.765306
Ccdc43	chr11:102684687-102697725	17.3097	29.4188	0.765153
Bcl3	chr7:19808461-19822755	3.25631	5.53258	0.764716
Cdh10	chr15:18820328-19014234	5.44225	9.24196	0.763995
1700019D03Rik	chr1:52925126-52952840	5.26692	8.93559	0.762605
Arhgap39	chr15:76723984-76818170	22.0067	37.3334	0.762521
Arl4d	chr11:101665540-101667832	12.2816	20.8347	0.762496
Serpina3g	chr12:104214543-104241934	35.9627	60.9505	0.761137
Gng2	chr14:19872558-19977249	107.657	182.451	0.761068
Plagl1	chr10:13090787-13131695	16.012	27.1259	0.760513
Fbxl2	chr9:113930933-114026751	26.0697	44.1212	0.759098
Def6	chr17:28207777-28228608	11.0659	18.7181	0.758316
Ppp1r2	chr16:30920553-31275697	102.376	172.864	0.755754
F2rl2	chr13:95627176-95891922	41.649	70.1458	0.752074
Scand1	chr2:156311845-156375638	13.1561	22.1558	0.751952
Apba1	chr19:23758875-23949597	94.6435	159.304	0.751205

Snx11	chr11:96767548-96777555	22.6302	38.0672	0.7503
Golga7b	chr19:42247577-42270348	25.2693	42.4878	0.749662
Itpkb	chr1:180326968-180423659	32.2869	54.2524	0.748735
Zfp593	chr4:134243305-134245873	4.13132	6.94178	0.748705
Htr5b	chr1:121509772-121528465	3.40524	5.71148	0.746107
Camk1g	chr1:193346345-193370282	11.2101	18.801	0.746007
Nudt8	chr19:4000579-4002102	5.77339	9.68192	0.745875
Tmeff1	chr4:48585192-48663131	14.65	24.5342	0.743895
Tmem63a	chr1:180942517-180975104	9.28726	15.5333	0.742035
Ptger1	chr8:83666639-83699179	8.85994	14.8183	0.74201
Pde1c	chr6:56069803-56369634	17.0232	28.4675	0.74181
Krit1	chr5:3803164-3844515	5.49104	9.17818	0.741128
Dock4	chr12:40446052-40846488	7.78319	13.0054	0.740675
Kcnmb1	chr11:33629340-33993193	11.2669	18.8194	0.740134
Fam43a	chr16:30599722-30602797	3.18745	5.32389	0.740078
Map7	chr10:20148919-20281590	17.0187	28.3914	0.738335
Nipsnap3b	chr4:53011923-53022059	22.0686	36.8	0.737709
Kctd16	chr18:40258360-40531184	16.5833	27.6342	0.736729
Samd12	chr15:53461800-53902436	14.9516	24.9023	0.73598
Anxa11	chr14:25842154-25886804	16.5687	27.5909	0.735732
Trnp1	chr4:133491099-133498550	275.669	458.506	0.734005
Impact	chr18:12972251-12992948	39.0591	64.9521	0.733719
Tspan14	chr14:40906443-40966807	28.4795	47.3584	0.733694
9530077C05Rik	chr9:22411576-22444679	7.23609	12.0281	0.733121
Tradd	chr8:105258574-105264594	8.32771	13.8394	0.732785
Adamts3	chr5:89673840-89883334	3.2099	5.33417	0.732733
Ifit2	chr19:34550693-34576534	9.76742	16.2305	0.732655
Gtpbp6	chr5:110099968-110108197	12.4196	20.6244	0.731737
H13	chr2:152669460-152708668	30.316	50.314	0.73088
Rras	chr7:45018006-45021644	32.4943	53.9282	0.730854
Txndc11	chr16:11066297-11134532	5.9909	9.93978	0.730442
36585	chr1:72427111-72536564	5.39699	8.94051	0.728201
2700094K13Rik	chr2:84669220-84670708	25.4439	42.1285	0.727477
Serf1	chr13:100108018-100114233	29.6207	49.0251	0.726915
Rspo2	chr15:43020794-43170818	25.2956	41.852	0.726408
Nek1	chr8:60993219-61130234	23.2814	38.5064	0.725918
Hnrnpa1	chr15:103240396-103246698	9.99832	16.5366	0.725907
Hmgcll1	chr9:76014976-76136350	3.82949	6.33092	0.725263
Chd5	chr4:152338650-152390194	12.2881	20.3077	0.724765
Snx9	chr17:5841379-5930711	14.5571	24.0496	0.724288
Snhg6	chr1:9942024-9944118	13.8802	22.8905	0.721716
Rnase4	chr14:51091076-51106151	10.4301	17.1995	0.721621
Diras2	chr13:52504374-52530836	12.3861	20.4143	0.720862
Sema3e	chr5:14025275-14256689	4.61343	7.6002	0.720197
Zmat4	chr8:23669660-24063116	11.6135	19.1313	0.72013
Kcna4	chr2:107290588-107298504	7.53034	12.3911	0.718513
Zfx3	chr8:108714643-108961636	13.1858	21.6859	0.717773
Kctd8	chr5:69109284-69341709	23.9238	39.3445	0.717717
A330021E22Rik	chr5:5580981-5664232	3.07546	5.05415	0.716669
Ier3	chr17:35821712-35822911	19.0557	31.2557	0.713899
Zfp580	chr7:5051531-5053723	10.177	16.681	0.71289
Card10	chr15:78775135-78803042	3.80798	6.24095	0.712739
Car11	chr7:45699966-45704661	31.0535	50.8532	0.711584

Kri1	chr9:21265284-21287969	8.83971	14.4642	0.710418
Ankrd6	chr4:32804034-32950826	7.33709	11.9997	0.709721
Nek3	chr8:22128282-22166435	3.9114	6.3935	0.708921
Lbh	chr17:72918304-72941946	34.9467	57.0966	0.708249
Rims2	chr15:39198285-39684372	9.70151	15.8461	0.707845
Ctsl	chr13:64363213-64370306	412.355	672.458	0.705558
Cacna2d2	chr9:107399879-107529343	8.64915	14.1005	0.705115
Tlx2	chr6:83068324-83070225	40.7746	66.3746	0.702962
Ddx55	chr5:124552863-124569660	4.3463	7.06946	0.701812
Zcchc9	chr13:91796532-91807696	7.08635	11.5253	0.701686
Ano3	chr2:110655200-110950244	64.752	105.215	0.700337
Rab15	chr12:76797962-76822524	69.9104	113.552	0.699768
Cacnb3	chr15:98632327-98644536	109.195	177.31	0.699369
Tnfrsf11a	chr1:105780722-105847981	8.86578	14.3961	0.69936
Cdkn1a	chr17:29090985-29100722	34.7025	56.3435	0.69921
Ebf1	chr11:44618099-45008096	46.4298	75.3745	0.699027
Klf8	chrX:153238044-153396134	4.31985	7.00744	0.697906
Anks1b	chr10:89873508-90972984	9.88292	16.0303	0.69779
Slc35f4	chr14:49298519-49525837	7.11492	11.5396	0.697668
Nup93	chr8:94214600-94315066	38.9466	63.1548	0.697394
Tmem132e	chr11:82388899-82446327	47.7418	77.3285	0.695747
Pcbd1	chr10:61089330-61094329	29.3864	47.5706	0.69492
Thra	chr11:98741872-98765111	71.6991	116.023	0.694382
Mfsd10	chr5:34633646-34637114	8.66608	14.0204	0.694081
Auts2	chr5:131437681-132542343	11.2281	18.1319	0.691412
Pde10a	chr17:8526800-8986648	6.65739	10.7498	0.691278
Nt5c	chr11:115475676-115491814	46.189	74.5666	0.690981
Tmem198	chr1:75479531-75485693	3.2952	5.31415	0.689472
Hypk	chr2:121457087-121458440	95.6832	154.252	0.68895
Slc25a27	chr17:43641899-43667015	11.5684	18.6439	0.68851
Syt4	chr18:31437807-31447415	126.698	204.117	0.688007
Nckap5l	chr15:99422033-99457748	7.9067	12.7379	0.687977
Tmsb4x	chrX:167207093-167209218	1569.18	2527.15	0.687495
Dock11	chrX:35888831-36076562	32.6793	52.5807	0.686158
Pou4f1	chr14:104462324-104467999	64.0662	103.05	0.685703
Plau	chr14:20836661-20843388	4.48719	7.21527	0.68524
Pura	chr18:36281161-36288244	12.7217	20.4349	0.683741
Hctr2	chr9:76225879-76323578	3.93078	6.3124	0.68337
Arhgap17	chr7:123279148-123369915	22.7859	36.5835	0.683049
Rgmb	chr17:15806252-15826586	81.8353	131.338	0.682487
Zfp946	chr17:22424267-22456689	7.15501	11.4831	0.682487
Serp2	chr14:76532811-76556889	35.4418	56.8746	0.682333
Xylt2	chr11:94663846-94677493	11.4072	18.3029	0.682123
Nrn1	chr13:36725621-36734477	332.066	532.674	0.681784
Zfp524	chr7:5015507-5018488	4.01795	6.4444	0.681587
Myt1l	chr12:29528383-29923209	20.4567	32.7807	0.680273
Hpcal1	chr12:17690813-17791926	78.9773	126.529	0.679955
Slit1	chr19:41600256-41743856	27.3332	43.7851	0.679789
C2cd5	chr6:143010919-143100152	12.8044	20.5105	0.679725
4921524J17Rik	chr8:85408758-85432841	5.82587	9.323	0.678322
Fam124a	chr14:62555736-62608485	5.03566	8.05694	0.678052
Gpr19	chr6:134869091-134897925	5.87237	9.39217	0.677516
Ndn	chr7:62348276-62349927	117.846	188.35	0.67651

Fgf13	chrX:59062145-59585572	348.187	556.392	0.67624
Rgl2	chr17:33929893-33937687	6.88732	11.0054	0.67619
Eogt	chr6:97110943-97148883	6.82171	10.8985	0.675925
Sema4d	chr13:51701247-51793747	22.3474	35.662	0.67428
Sfn	chr4:133600555-133602168	3.4443	5.49386	0.673612
Tsen34	chr7:3693609-3701035	26.5219	42.2517	0.671825
Cds2	chr2:132263147-132312050	182.459	290.163	0.66929
Tpm4	chr8:72135291-72153129	35.7666	56.8208	0.667808
Ankrd13b	chr11:77470486-77489678	25.701	40.7974	0.66665
Myd88	chr9:119335987-119340040	4.48125	7.10972	0.665892
Ubald1	chr16:4874778-4879851	36.3267	57.5929	0.664861
Avil	chr10:127000708-127020994	281.18	445.734	0.664688
Rpl13	chr8:123102349-123105242	6.81732	10.799	0.663627
Slc15a4	chr5:127595665-127617392	10.8937	17.2554	0.663555
Akap17b	chrX:36608182-36645414	5.67838	8.99437	0.663542
Csnk1e	chr15:79417851-79442057	22.3626	35.4156	0.663294
Lrrc16b	chr14:55491092-55508264	13.8522	21.931	0.662858
Deaf1	chr7:141297175-141338783	14.2442	22.5458	0.662482
Cystm1	chr18:36348623-36393370	71.8709	113.73	0.662129
Myadm	chr7:3289037-3299349	64.868	102.636	0.661964
Rnaseh1	chr12:28649601-28659591	6.38256	10.087	0.660284
Cbr3	chr16:93683218-93690991	5.65749	8.94062	0.660214
Ina	chr19:46886830-47024346	17.3747	27.4544	0.66005
Mtcl1	chr17:66336981-66449750	24.0222	37.933	0.659085
Tppp3	chr8:105467491-105471422	1107.27	1747.59	0.658356
Ralgps1	chr2:33133418-33371494	3.90534	6.14954	0.655029
Bst2	chr8:71534261-71537437	11.2122	17.6475	0.654402
Unc119	chr11:78343521-78349156	33.2972	52.4066	0.654346
Pvrl1	chr9:43744575-43807461	16.2551	25.583	0.654295
Fez1	chr9:36843658-36878640	248.193	390.45	0.653674
Klf7	chr1:64035670-64121389	61.001	95.9163	0.652943
Sh3bgrl3	chr4:134127405-134128753	439.547	690.638	0.651914
Tspan2	chr3:102720230-102772310	33.2992	52.2534	0.650038
Mgat4a	chr1:37439339-37541016	13.3019	20.8685	0.6497
Pqlc3	chr12:16988647-17000118	32.7742	51.402	0.649263
Ccdc109b	chr3:129914959-129970206	17.7914	27.9008	0.649129
Coro1a	chr7:126699773-126704754	70.4661	110.39	0.647613
Snx10	chr6:51523902-51590670	78.5115	122.982	0.647472
Faim	chr9:98986372-99002019	19.4861	30.5213	0.647367
Znf512b	chr2:181569152-181592461	7.87464	12.3314	0.647047
Tmem206	chr1:191325964-191397041	4.95754	7.76201	0.646806
Popdc3	chr10:45289304-45318450	15.5249	24.3028	0.646535
Fam189b	chr3:89183224-89189289	183.273	286.819	0.646151
Ankrd13d	chr19:4270179-4283137	29.8869	46.7557	0.645628
Hdac9	chr12:34047581-34917095	7.66699	11.987	0.64474
Tmsb10	chr6:72957346-72958748	119.127	186.236	0.64463
F8a	chrX:73228305-73230795	6.43214	10.0525	0.644182
Lrrc75b	chr10:75550124-75560330	40.3832	63.1005	0.643895
Gm13889	chr2:93955809-93957100	78.923	123.286	0.64349
Med11	chr11:70451930-70453726	12.812	19.989	0.641716
Pfkl	chr10:77986948-78009796	25.7561	40.1815	0.641621
Psma5	chr3:108256925-108279952	6.26175	9.76733	0.641398
Ttc8	chr12:98920573-98983238	4.37523	6.81996	0.640405

Ggta1	chr2:35400178-35461425	8.74979	13.6284	0.639297
Trpv2	chr11:62574485-62600305	28.3063	44.0709	0.638706
Ap3b1	chr13:94358959-94566316	6.48318	10.0919	0.638422
1500004A13Rik	chr3:88777056-88832487	6.09451	9.47892	0.637212
1500011B03Rik	chr5:114808195-114813976	54.5371	84.803	0.636876
Ptpn9	chr9:56994967-57071966	26.54	41.2644	0.636729
Tmem169	chr1:72284372-72302995	5.84383	9.07778	0.635424
Lmnb2	chr10:80901362-80918245	3.75735	5.83574	0.635202
Gm17066	chr14:105106727-105177327	6.10504	9.47992	0.634873
Rmnd5b	chr11:51619772-51635896	15.4206	23.9334	0.634172
Chrna6	chr8:27403211-27413944	22.9159	35.559	0.633864
Six1	chr12:73041826-73046712	25.0527	38.8619	0.633389
Abca5	chr11:110269368-110337716	27.7932	43.1036	0.633075
Ltv1	chr10:13178637-13193137	13.0106	20.1568	0.631579
Gstp1	chr19:4035410-4037912	32.3094	50.0362	0.631021
Lrrc8d	chr5:105699968-105815215	32.5873	50.397	0.629029
Agk	chr6:40325477-40396762	4.06561	6.28681	0.628854
Sertad4	chr1:192844487-192855752	11.5593	17.874	0.628812
Skap2	chr6:51859164-52012549	16.4729	25.4385	0.626919
Arhgef28	chr13:97898594-98206165	5.84518	9.02354	0.626447
Enox1	chr14:77156762-77721763	16.7506	25.8458	0.625716
Rcan3	chr4:135412308-135433805	28.1986	43.4992	0.625364
Rmdn1	chr4:19575065-19606932	3.96372	6.11225	0.624846
Coro2a	chr4:46536936-46601929	51.1237	78.8252	0.624664
Cntn3	chr6:102163305-102464667	3.90556	6.01962	0.624144
4931428F04Rik	chr8:105276446-105289528	10.5945	16.3139	0.622786
Rufy2	chr10:62980222-63023849	8.84357	13.6136	0.622351
Brinp2	chr1:158245268-158356260	14.1124	21.7085	0.621298
Erlin1	chr19:44034942-44069785	6.77551	10.4203	0.621002
Brd9	chr13:73937837-73960895	14.8591	22.8474	0.62068
Cacna2d1	chr5:15934690-16374511	44.2517	68.0367	0.620578
Stk11ip	chr1:75521528-75537335	8.09348	12.441	0.62027
Rac3	chr11:120721467-120723969	27.6683	42.5214	0.619956
Uri1	chr7:37959991-38019552	10.0251	15.4005	0.619356
Zc3h7a	chr16:11136593-11176393	8.48492	13.0283	0.618673
Cxxc4	chr3:134236494-134262089	4.70818	7.22896	0.618618
Icmt	chr4:152297213-152318625	47.2822	72.5743	0.61816
Bbs5	chr2:69647254-69667569	7.06313	10.8393	0.617895
Gramd4	chr15:86057694-86137636	13.1833	20.2314	0.617888
Armcx6	chrX:134748454-134751419	5.47151	8.39667	0.617878
Rsph3a	chr17:7945613-7979556	4.85024	7.44288	0.617804
Snx7	chr3:117781496-117868936	78.5812	120.526	0.617089
Tac1	chr6:7555070-7562973	188.8	289.472	0.616566
B3glct	chr5:149678256-149762599	12.5912	19.2966	0.615927
Boc	chr16:44485044-44558870	6.28079	9.62355	0.615624
Vezt	chr10:93968099-94035748	14.8229	22.7022	0.615007
Aacs	chr5:125475872-125517403	54.855	84.0048	0.614848
Ccdc12	chr9:110656502-110711593	7.84602	12.0152	0.614831
Bdnf	chr2:109674699-109727043	9.21153	14.1019	0.614372
Nol3	chr8:105276446-105289528	42.3412	64.7975	0.613878
B4galt5	chr2:167298444-167349178	32.7663	50.1142	0.613009
Hilpda	chr6:29272487-29275449	6.20655	9.49182	0.612894
Abr	chr11:76416731-76577739	60.7909	92.9577	0.612719

Kifc2	chr15:76660640-76668196	13.7947	21.0911	0.61252
Bend4	chr5:67392146-67427799	3.48219	5.32293	0.612225
Prdm8	chr5:98180868-98187448	7.63028	11.6607	0.611842
Snx21	chr2:164786020-164804881	35.0435	53.5439	0.611574
Supt20	chr3:54693104-54716837	11.1734	17.0716	0.611537
Zdhhc13	chr7:48789002-48827437	17.0199	26.0033	0.611472
Rab40c	chr17:25882113-25919714	11.8805	18.1492	0.611315
Wipf1	chr2:73429609-73529487	13.8356	21.1291	0.610847
1110007C09Rik	chr13:49202950-49216026	43.0135	65.6672	0.610384
Plcl1	chr1:55405945-55754285	3.47142	5.29757	0.609804
Utp18	chr11:93859242-93885766	5.1263	7.82064	0.609368
Asl	chr5:130011502-130024331	14.3327	21.8525	0.60849
Ralgds	chr2:28513166-28553082	21.7336	33.1256	0.608018
Ino80b	chr6:83121827-83125029	9.04555	13.7858	0.607903
Creld1	chr6:113483568-113493338	99.6485	151.85	0.607723
8430427H17Rik	chr2:153407460-153529971	19.812	30.1826	0.607339
2010111I01Rik	chr13:62964892-63431745	21.6158	32.9262	0.607146
Glipr2	chr4:43957701-43979118	7.24067	11.0245	0.606523
Ankrd12	chr17:65967500-66077046	10.0006	15.222	0.606069
Rp9	chr9:22448311-22468356	21.4134	32.5709	0.605071
Zmat5	chr11:4704677-4737666	18.5755	28.2457	0.604631
Pla2g6	chr15:79286227-79328371	12.034	18.2956	0.604385
Ydjc	chr16:17146966-17148857	9.44873	14.3634	0.604208
Rpusd1	chr17:25727750-25731456	9.60435	14.597	0.603912
Gpatch4	chr3:88043105-88055994	8.64985	13.1422	0.603461
Fbxo36	chr1:84839840-84900486	7.63436	11.5993	0.603458
Flot2	chr11:78037940-78060432	140.006	212.615	0.60275
Cep78	chr19:15955772-15984989	4.21976	6.40722	0.602536
Wbscr17	chr5:130874950-131307522	50.5631	76.7386	0.601868
Tec	chr5:72755717-72868448	3.62284	5.4967	0.601445
Jph4	chr14:55106825-55116935	50.6527	76.8172	0.60079
Gucd1	chr10:75506813-75517322	11.2307	17.0291	0.600559
Zfp827	chr8:79028436-79193766	5.44555	8.25329	0.599891
Fam178a	chr19:44931118-44984550	3.82463	5.79562	0.599642
Zcchc18	chrX:136981115-137038302	82.5457	125.059	0.599343
AW549877	chr15:3982034-3995752	25.4253	38.5137	0.599109
Nagk	chr6:83795056-83802556	44.0442	66.6892	0.598501
Grk5	chr19:60889748-61092555	5.44676	8.24652	0.598386
Pknox2	chr9:36890978-37147322	20.9052	31.6497	0.598329
Rps19bp1	chr15:80260613-80264306	11.0525	16.7279	0.597887
Pygl	chr12:70190814-70227683	11.1903	16.9344	0.597707
Socs7	chr11:97362550-97398542	20.1869	30.546	0.597566
Dennd6b	chr15:89182212-89196474	4.23366	6.40561	0.59743
Anxa5	chr3:36448923-36475887	640.234	967.842	0.596172
Erich3	chr3:154711132-154749012	3.48788	5.27207	0.596018
Slc25a1	chr16:17925210-17928219	65.4516	98.8534	0.594863
Rnf219	chr14:104477533-104522666	9.73866	14.706	0.594611
Fah	chr7:84585158-84605942	13.5849	20.5041	0.593912
Id4	chr13:48044230-48264036	27.4859	41.4835	0.593846
Tmem74	chr15:43866694-43870029	15.537	23.4386	0.593179
Rtn4rl1	chr11:75193992-75267762	39.0057	58.7689	0.59137
Gcnt2	chr13:40859767-40960892	111.801	168.346	0.590487
Pde8a	chr7:81213803-81333622	3.32466	5.00393	0.589857

Ugcg	chr4:59189549-59222833	54.5559	82.1009	0.589664
Ankzf1	chr1:75192159-75210778	4.97716	7.49008	0.58966
Zfp941	chr7:140809676-140822178	5.76556	8.66933	0.588459
Cdh1	chr8:106603367-106670246	51.2669	76.9926	0.586691
2510009E07Rik	chr16:21649044-21694665	43.4253	65.2086	0.586527
Cacna1b	chr2:24603888-24763152	22.0412	33.0934	0.586341
Ppp1r1c	chr2:79707779-79818546	123.184	184.878	0.585756
Nkiras2	chr11:100622954-100650693	13.5898	20.3806	0.584677
Fam189a2	chr19:23972749-24031019	12.7599	19.1264	0.583951
Emp3	chr7:45918022-45921426	28.6394	42.8926	0.582727
Rrp36	chr17:46667452-46674255	8.62876	12.9203	0.582413
Frat2	chr19:41845975-41848132	5.63341	8.43484	0.582351
Dbndd2	chr2:164486139-164493323	8.37646	12.5353	0.581578
Nipal2	chr15:34572798-34679204	10.0304	15.005	0.58107
Fam102b	chr3:108970996-109027607	58.9717	88.1789	0.580411
Tspan5	chr3:138742194-138904424	48.6281	72.6711	0.579594
C77080	chr4:129189794-129261404	38.9646	58.2246	0.579467
Fbxo22	chr9:55208934-55283625	26.8944	40.1626	0.578546
Lclat1	chr17:73107984-73243366	23.1676	34.5864	0.578095
Rnf7	chr9:96470956-96478595	88.1451	131.59	0.578093
Eef1g	chr19:8967040-8978180	16.534	24.6794	0.577869
Bbs9	chr9:22475714-22888280	6.39062	9.53645	0.577496
Myc	chr15:61985340-61990361	4.62496	6.89908	0.576965
Ccdc85a	chr11:28385683-28584324	15.6701	23.3724	0.576798
Lypd6b	chr2:49787685-49948846	4.15571	6.19621	0.576289
Pten	chr19:32757576-32826160	44.1691	65.8353	0.575826
Tmem256	chr11:69838524-69839558	67.0782	99.9723	0.575684
Tcof1	chr18:60813755-60848964	5.0445	7.51817	0.575671
Raph1	chr1:60483184-60566765	18.42	27.4522	0.575653
Rnps1	chr17:24414674-24425897	11.9318	17.7805	0.575491
37499	chrX:36910833-36989695	33.6244	50.1005	0.575316
Taf9b	chrX:106206873-106221158	14.9687	22.2996	0.575073
Vav3	chr3:109340682-109685694	7.73783	11.5268	0.574986
Clk2	chr3:89164804-89177087	4.51737	6.72851	0.574803
Tmem106a	chr11:101582241-101591785	3.94941	5.87832	0.573767
Kdsr	chr1:106720409-106759742	11.18	16.6336	0.573182
Trim46	chr3:89234176-89245897	13.9702	20.7803	0.572864
Zadh2	chr18:84088157-84097514	20.4347	30.3931	0.572727
Plekha6	chr1:133246096-133303435	54.1547	80.5455	0.572717
Slc9a3r2	chr17:24639281-24650305	51.3576	76.3847	0.572706
Arl10	chr13:54575012-54581128	10.2048	15.1697	0.571952
Pwwp2a	chr11:43681997-43722633	3.84794	5.71899	0.571673
2900056M20Rik	chrX:152294823-152327493	5.94834	8.83192	0.570238
Gtf3a	chr5:146948656-146963797	11.6585	17.3057	0.569858
Mrgpre	chr7:143778362-143784500	9.27307	13.7599	0.569352
Tmem29	chrX:150397772-150459150	11.1274	16.5097	0.569189
Gadd45g	chr13:51846674-51848474	18.9937	28.1726	0.568768
Leo1	chr9:75441523-75466432	14.1059	20.914	0.568172
Ankrd24	chr10:81628539-81647612	4.56136	6.76222	0.568032
Lrch4	chr5:137629122-137642902	9.45851	14.0144	0.567225
Zmym6	chr4:127077382-127124374	3.85734	5.71503	0.567157
Spag7	chr11:70663768-70669416	37.4946	55.5262	0.566485
Mbnl2	chr14:120275668-120431698	153.729	227.483	0.565373

Pkp4	chr2:59160849-59355205	10.2769	15.2051	0.565151
Cisd3	chr11:97685951-97688625	49.365	73.0155	0.564712
Pgls	chr8:71592183-71596267	25.0058	36.9778	0.564397
Supt4a	chr11:87737564-87743617	11.9622	17.6854	0.564069
Zfp738	chr13:67667440-67683512	5.01256	7.40435	0.562828
Lyar	chr5:38220481-38234306	5.02996	7.42635	0.562108
Hdac10	chr15:89123302-89128700	6.36098	9.3837	0.560906
Rbfox1	chr16:5884792-7412480	64.6056	95.2511	0.560077
A230050P20Rik	chr9:20868641-20879710	6.21831	9.15741	0.558418
Cd34	chr1:194938820-194976959	28.4079	41.8246	0.558058
Nin	chr12:70011434-70112035	3.63201	5.34412	0.557185
Cobl	chr11:12236675-12464960	17.9751	26.443	0.556886
Pitpnm2	chr5:124118688-124249760	45.5515	66.9324	0.555205
Trpv1	chr11:73238258-73260507	44.4312	65.284	0.555155
Scn9a	chr2:66440879-66634962	62.9032	92.4137	0.554972
Plekho1	chr3:95988835-95995839	14.9052	21.8915	0.55456
9330159F19Rik	chr10:29211642-29230779	15.8453	23.2708	0.55447
Qdpr	chr5:45434031-45450229	99.2172	145.677	0.554112
Ptpr	chr10:116018362-116274929	16.5822	24.3457	0.554033
BC029214	chr2:25459487-25461094	11.302	16.5926	0.553959
Lonrf1	chr8:36216063-36249516	10.4328	15.3163	0.553948
Arhgef18	chr8:3393007-3456600	10.6964	15.6957	0.553243
Trmt1	chr8:84689246-84699808	13.0528	19.1533	0.55324
Chrm4	chr2:91922188-91932297	3.58217	5.25588	0.553097
Dapk3	chr10:81183006-81193197	19.0629	27.9537	0.552273
Ankra2	chr13:98263075-98274754	12.5703	18.4289	0.551951
Kdelc2	chr9:53384022-53401867	7.81401	11.4544	0.551767
Dolpp1	chr2:30392253-30415748	17.1587	25.1523	0.551756
Gpr176	chr2:118277097-118373419	4.60399	6.74846	0.551675
Snx8	chr5:140340302-140389247	7.75645	11.3485	0.549028
Parp11	chr6:127453722-127494239	6.90991	10.1097	0.548998
Slc35f5	chr1:125561015-125595684	16.6209	24.3104	0.548576
Calcb	chr7:114718642-114723365	149.559	218.746	0.548547
Mrps6	chr16:92058321-92112227	67.3982	98.5301	0.547856
2610203C20Rik	chr9:41581338-41592487	3.82917	5.59503	0.547113
Kcnab1	chr3:65109367-65378225	62.6625	91.5469	0.546908
Trappc5	chr8:3676476-3680921	16.9854	24.8138	0.546847
Smad1	chr8:79338397-79399468	18.7824	27.4135	0.545506
Stk19	chr17:34823992-34836903	12.6746	18.496	0.545269
AI414108	chr9:27352684-27357543	4.409	6.43253	0.544937
Gigyf1	chr5:137518879-137527935	5.54022	8.08072	0.544541
Osbpl3	chr6:50293326-50456170	72.5162	105.722	0.543907
Lactb	chr9:66955392-66975484	5.4702	7.97193	0.543335
Prkx	chrX:77762029-77795960	33.6808	49.0589	0.542586
Fkbp1b	chr12:4833173-4841595	148.646	216.491	0.542428
AI846148	chr19:7356463-7383557	5.97281	8.69812	0.542294
Eif1a	chr18:46597703-46610225	27.7249	40.3572	0.541644
Cacna1c	chr6:118587239-119221614	9.59312	13.9583	0.541053
Zbtb10	chr3:9250566-9285332	5.22701	7.60495	0.540952
Cd97	chr8:83715176-83741311	4.50125	6.54818	0.540769
Nmi	chr2:51948498-51973208	5.88805	8.56401	0.540498
Ppapdc1b	chr8:25720047-25724887	7.2064	10.4803	0.540333
Mrpl57	chr14:57826238-57828745	6.15684	8.94847	0.539452

Man1c1	chr4:134561689-134704290	11.7934	17.1298	0.538532
Mob3a	chr10:80685252-80701820	11.4418	16.606	0.537393
B230217O12Rik	chr19:57323196-57360899	7.49357	10.8704	0.536686
2610001J05Rik	chr6:13869073-13871483	24.2599	35.1801	0.536188
Slc22a18	chr7:143473754-143499332	8.93671	12.9535	0.535531
Kcnj12	chr11:61022563-61073267	16.4833	23.884	0.535037
Armcx4	chrX:134686518-134697772	6.12125	8.86916	0.534971
Elavl3	chr9:22015004-22052023	44.9874	65.1393	0.534005
Arrdc1	chr2:24925351-24935281	13.7101	19.8421	0.533323
Gale	chr4:135965164-135968178	15.4659	22.3793	0.533068
BC018507	chr13:70588688-70637634	11.6618	16.8697	0.53264
Wsb1	chr11:79239381-79254695	20.0619	29.0089	0.532038
Stat6	chr10:127642985-127666703	32.3504	46.7627	0.531574
Sdccag8	chr1:176814659-177020432	4.78159	6.91049	0.531299
Pik3cd	chr4:149649167-149701629	16.6954	24.0902	0.528992
Mink1	chr11:70562880-70614482	49.6519	71.6285	0.528686
Piezo2	chr18:63010212-63387183	69.1812	99.7844	0.528435
Syngn3	chr17:24685091-24689949	119.336	172.041	0.527727
Wdr34	chr2:30031557-30048879	5.4294	7.82499	0.527296
Adc	chr4:128932145-128962417	50.9081	73.3322	0.526552
Mtmr1	chrX:71364759-71419196	6.0012	8.6356	0.525045
Chd3	chr11:69343272-69369426	42.2012	60.7024	0.524471
Crmp1	chr5:37242057-37292163	47.7852	68.7267	0.524306
Lifr	chr15:7129571-7197489	114.786	165.066	0.524095
Vps4b	chr1:106770787-106796725	41.5721	59.7737	0.523895
Vamp4	chr1:162570827-162599078	46.4784	66.8229	0.523782
Plekha3	chr2:76675314-76697335	12.8034	18.4039	0.523484
Csrnp3	chr2:65845766-66031546	12.4917	17.9557	0.523468
Mtss1	chr15:58941233-59082026	16.2765	23.3956	0.523443
Tpgs1	chr10:79669409-79676126	35.3231	50.7672	0.523282
Ap4m1	chr5:138172020-138187186	7.84564	11.2741	0.523052
Prmt2	chr10:76207221-76237865	52.9646	76.1078	0.523016
Mef2a	chr7:67231162-67372858	34.2831	49.2413	0.522374
Mcf2l	chr8:12915892-13020509	19.5324	28.0354	0.521381
Hras	chr7:141189933-141194004	38.365	55.058	0.521161
Cdyl2	chr8:116568723-116732991	4.68642	6.72307	0.520635
Acly	chr11:100476351-100528000	179.654	257.651	0.5202
Parp8	chr13:116854823-117025516	10.6559	15.282	0.520186
Osbpl6	chr2:76406507-76600647	11.5383	16.5378	0.519334
Pdcd2	chr17:15521574-15527301	14.9354	21.3988	0.518792
Bid	chr6:120893118-120916820	14.7088	21.073	0.518716
Pdcl3	chr1:38987813-38997236	19.9361	28.5505	0.518132
Mapkapk5	chr5:121525050-121545892	10.3439	14.8117	0.517958
Rab39	chr9:53684109-53706232	13.4018	19.1896	0.517895
2610034B18Rik	chr7:79925358-79935264	13.438	19.2392	0.517728
Mapk11	chr15:89142483-89149606	45.9643	65.7406	0.51627
Mnt	chr11:74830923-74845725	12.3251	17.5931	0.51341
Usp12	chr5:146734811-146794956	31.9607	45.6159	0.513238
Aff3	chr1:38175990-38664955	17.6851	25.2298	0.512598
Gpatch11	chr17:78835515-78848308	10.4553	14.9091	0.511949
Ank3	chr10:69533707-70027436	35.381	50.4455	0.511751
Nvl	chr1:181093422-181144157	9.32227	13.2909	0.511689
Vti1b	chr12:79130787-79172458	90.9311	129.531	0.510455

Disp2	chr2:118779718-118795175	73.9096	105.246	0.50993
Zfp428	chr7:24507086-24515682	11.2079	15.9564	0.509617
Tmcc3	chr10:94514856-94590954	11.6272	16.5511	0.509426
Rnf31	chr14:55591789-55603671	6.4684	9.19813	0.507931
Mtm1	chrX:71210766-71315295	5.49765	7.81386	0.507218
Eif4e3	chr6:99625136-99666771	19.9244	28.3177	0.507167
Prkrip1	chr5:136180356-136198954	8.96851	12.7464	0.507151
Filip1	chr9:79815561-79977882	10.1256	14.3897	0.507021
Ccp110	chr7:118712610-118737018	25.5579	36.3123	0.506693
Zfp954	chr7:7114682-7121476	6.96264	9.89205	0.506634
Galk2	chr2:125859108-126152004	8.13237	11.5501	0.506162
Zfp703	chr8:26977335-26981462	13.1554	18.6828	0.506058
Ppp3cc	chr14:70217897-70289449	22.3936	31.7634	0.504282
5330426P16Rik	chr16:50726750-50732773	8.85221	12.5546	0.504105
Luzp2	chr7:54835244-55268888	37.6919	53.456	0.504099
Ccdc82	chr9:13246978-13292353	4.09531	5.80804	0.504078
Lrrc8b	chr5:105415774-105486189	23.9728	33.9846	0.50348
Oraov1	chr7:144915193-144921137	17.0228	24.1311	0.503426
Mvd	chr8:122433595-122443422	26.4792	37.5228	0.50291
Dnajc12	chr10:63382442-63408840	12.1688	17.2295	0.501697
Slc7a6os	chr8:106200437-106210933	7.03739	9.95409	0.50025
Ston2	chr12:91633008-91786436	5.10969	7.22744	0.50025
Fgfr1op	chr17:8165517-8196470	9.01349	12.7473	0.50003

gene	test stat	p value	q value	significant
Mobp	4.38453	5.00E-05	0.000219871	yes
Sprr1a	3.91064	0.0001	0.000421844	yes
C1ql4	6.04213	5.00E-05	0.000219871	yes
Snhg11	10.238	5.00E-05	0.000219871	yes
Ccl5	3.44952	0.00195	0.00621891	yes
Meg3	6.24309	5.00E-05	0.000219871	yes
Slc51a	3.8725	5.00E-05	0.000219871	yes
Pde4c	6.49692	5.00E-05	0.000219871	yes
Wfdc2	5.59497	5.00E-05	0.000219871	yes
Cdh9	6.23943	5.00E-05	0.000219871	yes
Bhlha9	6.32683	5.00E-05	0.000219871	yes
Th	10.6178	5.00E-05	0.000219871	yes
Mrgpra3	8.33276	5.00E-05	0.000219871	yes
Ceacam10	5.47505	5.00E-05	0.000219871	yes
Amy1	4.68074	5.00E-05	0.000219871	yes
A9300110	6.53931	5.00E-05	0.000219871	yes
Cacna1i	7.52557	5.00E-05	0.000219871	yes
Slc17a8	7.14966	5.00E-05	0.000219871	yes
Nxpe2	5.89911	5.00E-05	0.000219871	yes
Tmprss11c	3.85218	5.00E-05	0.000219871	yes
Dgkk	5.6649	5.00E-05	0.000219871	yes
Gm7271	9.5164	5.00E-05	0.000219871	yes
Mirg	3.86618	5.00E-05	0.000219871	yes
Fbp2	3.26921	5.00E-05	0.000219871	yes
Lgals3	3.91272	5.00E-05	0.000219871	yes
Ccdc68	6.78787	5.00E-05	0.000219871	yes
Bmp15	4.30622	5.00E-05	0.000219871	yes
Card11	5.12756	5.00E-05	0.000219871	yes
P2rx2	3.27805	5.00E-05	0.000219871	yes
Fxyd2	7.8005	5.00E-05	0.000219871	yes
Nts	4.56246	5.00E-05	0.000219871	yes
Miat	7.65706	5.00E-05	0.000219871	yes
Mrgprb5	4.5454	5.00E-05	0.000219871	yes
Wdfy1	5.32296	5.00E-05	0.000219871	yes
AW551984	4.04576	5.00E-05	0.000219871	yes
Mrgprx1	6.32514	5.00E-05	0.000219871	yes
Il31ra	6.07722	5.00E-05	0.000219871	yes
Fam19a4	7.635	5.00E-05	0.000219871	yes
2810008D	2.82217	5.00E-05	0.000219871	yes
Insm1	4.80637	5.00E-05	0.000219871	yes
Scin	4.85064	5.00E-05	0.000219871	yes
Klf5	6.49484	5.00E-05	0.000219871	yes
Nppb	3.7954	5.00E-05	0.000219871	yes
Adam8	3.71511	5.00E-05	0.000219871	yes
Ly86	8.36651	5.00E-05	0.000219871	yes
Rnf112	7.14877	5.00E-05	0.000219871	yes
Plaur	3.5892	5.00E-05	0.000219871	yes
Tmem158	7.91404	5.00E-05	0.000219871	yes
Celf3	4.52965	5.00E-05	0.000219871	yes

Smim5	2.89378	5.00E-05	0.000219871	yes
Fam167a	4.42213	5.00E-05	0.000219871	yes
Nptxr	3.41949	5.00E-05	0.000219871	yes
Dnase1l3	5.10834	5.00E-05	0.000219871	yes
Cpn1	3.39029	5.00E-05	0.000219871	yes
Casp1	3.73927	5.00E-05	0.000219871	yes
Rgs8	7.03573	5.00E-05	0.000219871	yes
Zdhhc23	3.10395	5.00E-05	0.000219871	yes
Scn2b	6.54708	5.00E-05	0.000219871	yes
Kcnh6	6.19778	5.00E-05	0.000219871	yes
Stx3	3.73147	5.00E-05	0.000219871	yes
D7Erttd715c	5.7782	5.00E-05	0.000219871	yes
Myo1a	6.12162	5.00E-05	0.000219871	yes
Cyp4f39	5.18886	5.00E-05	0.000219871	yes
Rarres1	6.94437	5.00E-05	0.000219871	yes
Ppp1r1a	6.27298	5.00E-05	0.000219871	yes
Paqr5	6.28357	5.00E-05	0.000219871	yes
Cysltr2	3.58757	5.00E-05	0.000219871	yes
Lpar5	3.91424	5.00E-05	0.000219871	yes
Osmr	6.18155	5.00E-05	0.000219871	yes
Rasgrp1	6.81041	5.00E-05	0.000219871	yes
Nxph3	4.47315	5.00E-05	0.000219871	yes
Kcnk12	4.79764	5.00E-05	0.000219871	yes
Celf6	6.46748	5.00E-05	0.000219871	yes
Capn9	3.48541	5.00E-05	0.000219871	yes
Rspo4	3.08559	5.00E-05	0.000219871	yes
Pthr1	3.63793	5.00E-05	0.000219871	yes
Gm13498	3.26755	5.00E-05	0.000219871	yes
1700003M0	3.39741	5.00E-05	0.000219871	yes
Ctxn3	6.91706	5.00E-05	0.000219871	yes
Ppp1r2-ps3	2.6057	0.00065	0.00234272	yes
Gfra2	6.65803	5.00E-05	0.000219871	yes
A3galt2	6.23347	5.00E-05	0.000219871	yes
Gpr35	5.39971	5.00E-05	0.000219871	yes
Rgs10	8.01432	5.00E-05	0.000219871	yes
Lxn	5.47027	5.00E-05	0.000219871	yes
Acpp	5.54803	5.00E-05	0.000219871	yes
Cmtm8	2.49449	0.0002	0.000802844	yes
Ms4a3	3.3274	5.00E-05	0.000219871	yes
Gm11549	3.71912	5.00E-05	0.000219871	yes
Ldb2	6.14685	5.00E-05	0.000219871	yes
Pnpla3	4.40569	5.00E-05	0.000219871	yes
Nrn1l	4.92163	5.00E-05	0.000219871	yes
Nt5e	5.99445	5.00E-05	0.000219871	yes
P2ry1	5.78179	5.00E-05	0.000219871	yes
Trim14	3.78512	5.00E-05	0.000219871	yes
Insm2	4.70674	5.00E-05	0.000219871	yes
Nnat	2.65341	5.00E-05	0.000219871	yes
Rsrp1	6.74329	5.00E-05	0.000219871	yes
Nptx2	6.4733	5.00E-05	0.000219871	yes
Rasa4	4.40186	5.00E-05	0.000219871	yes
Cckar	4.92882	5.00E-05	0.000219871	yes
Car8	4.84239	5.00E-05	0.000219871	yes

Dusp26	6.73999	5.00E-05	0.000219871	yes
Syt5	6.08952	5.00E-05	0.000219871	yes
Msantd2	2.77497	5.00E-05	0.000219871	yes
Mal2	6.29581	5.00E-05	0.000219871	yes
Sox11	4.34885	5.00E-05	0.000219871	yes
Pou4f2	4.72936	5.00E-05	0.000219871	yes
Sst	4.32384	5.00E-05	0.000219871	yes
Pdlim1	3.72369	5.00E-05	0.000219871	yes
Nbl1	6.55826	5.00E-05	0.000219871	yes
Ass1	3.03737	5.00E-05	0.000219871	yes
Gpx2	2.24429	0.00085	0.00298332	yes
Dgkz	5.24533	5.00E-05	0.000219871	yes
Kcng2	3.90227	5.00E-05	0.000219871	yes
Firre	4.60944	5.00E-05	0.000219871	yes
Grik1	5.65729	5.00E-05	0.000219871	yes
Kcnip2	5.63544	5.00E-05	0.000219871	yes
Rps17	3.26418	0.0004	0.00151277	yes
Zfp40	4.54733	5.00E-05	0.000219871	yes
Gm16702	2.9151	5.00E-05	0.000219871	yes
Zbtb48	2.7542	5.00E-05	0.000219871	yes
Atf5	4.33765	5.00E-05	0.000219871	yes
Synpr	5.47864	5.00E-05	0.000219871	yes
Gpr162	4.79319	5.00E-05	0.000219871	yes
Mst1r	2.64108	5.00E-05	0.000219871	yes
Prkcd	5.94148	5.00E-05	0.000219871	yes
Isl2	6.35089	5.00E-05	0.000219871	yes
Tmem45b	6.49273	5.00E-05	0.000219871	yes
Slc10a6	3.26742	5.00E-05	0.000219871	yes
Syt7	5.52147	5.00E-05	0.000219871	yes
Socs2	4.6567	5.00E-05	0.000219871	yes
Plxnc1	5.44712	5.00E-05	0.000219871	yes
Dgki	5.82112	5.00E-05	0.000219871	yes
Gm527	3.39283	5.00E-05	0.000219871	yes
Fam122b	4.13631	5.00E-05	0.000219871	yes
Hspa1b	4.32738	5.00E-05	0.000219871	yes
Ypel1	2.04552	0.00025	0.000985076	yes
Adamts9	3.71065	5.00E-05	0.000219871	yes
Slc45a3	4.61804	5.00E-05	0.000219871	yes
Ssh3	3.42853	5.00E-05	0.000219871	yes
Ptgdr	5.37516	5.00E-05	0.000219871	yes
Snhg7	1.56184	0.00335	0.00998527	yes
Fam222a	3.26896	5.00E-05	0.000219871	yes
Gna14	5.79254	5.00E-05	0.000219871	yes
Trpc3	5.79394	5.00E-05	0.000219871	yes
Serinc2	4.31478	5.00E-05	0.000219871	yes
Slc37a1	4.02141	5.00E-05	0.000219871	yes
N4bp2l1	3.23228	5.00E-05	0.000219871	yes
Nog	2.76103	5.00E-05	0.000219871	yes
Zfp521	5.05481	5.00E-05	0.000219871	yes
Kcnip4	5.9389	5.00E-05	0.000219871	yes
Slc16a12	4.27421	5.00E-05	0.000219871	yes
Tnr	3.69847	5.00E-05	0.000219871	yes
Rgs4	4.19476	5.00E-05	0.000219871	yes

Cyp2j12	3.13658	5.00E-05	0.000219871	yes
Tlx3	5.61156	5.00E-05	0.000219871	yes
Atg16l2	2.58866	5.00E-05	0.000219871	yes
Myt1	5.124	5.00E-05	0.000219871	yes
Tubb2b	5.87006	5.00E-05	0.000219871	yes
Plekha5	4.54548	5.00E-05	0.000219871	yes
Cdk15	5.0114	5.00E-05	0.000219871	yes
Hyls1	2.05101	0.00045	0.00168221	yes
Nkain1	3.73081	5.00E-05	0.000219871	yes
Tia1	3.50298	5.00E-05	0.000219871	yes
Tubb2a-ps1	5.78924	5.00E-05	0.000219871	yes
Grhl3	3.27013	5.00E-05	0.000219871	yes
Casz1	4.96817	5.00E-05	0.000219871	yes
Rasgef1a	4.90612	5.00E-05	0.000219871	yes
4931429I1	3.97766	5.00E-05	0.000219871	yes
Kcnn1	4.66867	5.00E-05	0.000219871	yes
Prdm12	5.74552	5.00E-05	0.000219871	yes
Kcnt1	5.29958	5.00E-05	0.000219871	yes
Tmem233	7.24597	5.00E-05	0.000219871	yes
Vstm5	5.4179	5.00E-05	0.000219871	yes
Aff2	3.4494	5.00E-05	0.000219871	yes
Mmp25	5.12849	5.00E-05	0.000219871	yes
9430021M0	3.62568	5.00E-05	0.000219871	yes
Camk2a	5.21509	5.00E-05	0.000219871	yes
Slc35b3	3.06113	5.00E-05	0.000219871	yes
Trpc6	3.88465	5.00E-05	0.000219871	yes
Setd6	3.08336	5.00E-05	0.000219871	yes
Slc4a11	4.14473	5.00E-05	0.000219871	yes
Moxd1	4.82652	5.00E-05	0.000219871	yes
Cpne2	5.08561	5.00E-05	0.000219871	yes
Hmga2-ps1	2.02927	0.0001	0.000421844	yes
Actn1	5.01576	5.00E-05	0.000219871	yes
Hmox1	4.24467	5.00E-05	0.000219871	yes
Cnih2	2.29693	5.00E-05	0.000219871	yes
Kcnk13	3.22755	5.00E-05	0.000219871	yes
Fnbp1l	4.34015	5.00E-05	0.000219871	yes
Fmnl1	4.88927	5.00E-05	0.000219871	yes
Scn11a	4.37152	5.00E-05	0.000219871	yes
Kcng3	3.24335	5.00E-05	0.000219871	yes
Gm525	1.95822	0.0134	0.0334043	yes
Pcgf1	3.24834	5.00E-05	0.000219871	yes
Rian	4.80563	5.00E-05	0.000219871	yes
Pnlsr	4.14359	5.00E-05	0.000219871	yes
Lrrc3	4.16255	5.00E-05	0.000219871	yes
Fam220a	4.13335	5.00E-05	0.000219871	yes
Mab21l1	1.72943	0.001	0.00345135	yes
Zcchc7	3.18293	5.00E-05	0.000219871	yes
Pcgf6	2.51461	5.00E-05	0.000219871	yes
Plcb3	4.59492	5.00E-05	0.000219871	yes
A430105I1	3.25582	5.00E-05	0.000219871	yes
2010107G2	4.16845	5.00E-05	0.000219871	yes
Ror2	3.27594	5.00E-05	0.000219871	yes
Kcnd3	4.20377	5.00E-05	0.000219871	yes

Tmem200a	4.52668	5.00E-05	0.000219871	yes
Stx1a	4.45333	5.00E-05	0.000219871	yes
St6galnac3	3.04782	5.00E-05	0.000219871	yes
N28178	4.31645	5.00E-05	0.000219871	yes
Fam89a	4.91967	5.00E-05	0.000219871	yes
Nrg2	2.53792	5.00E-05	0.000219871	yes
Fam193b	3.45064	5.00E-05	0.000219871	yes
Tox2	3.19723	5.00E-05	0.000219871	yes
Dgkh	4.68945	5.00E-05	0.000219871	yes
Syt9	4.87866	5.00E-05	0.000219871	yes
Npy2r	3.62417	5.00E-05	0.000219871	yes
Hpca	3.50774	5.00E-05	0.000219871	yes
Tcerg1l	3.58723	5.00E-05	0.000219871	yes
Rab33a	3.01869	5.00E-05	0.000219871	yes
Samsn1	3.1195	5.00E-05	0.000219871	yes
Spink2	1.2583	0.0086	0.0228467	yes
Hs6st2	4.68446	5.00E-05	0.000219871	yes
Ttc14	4.08148	5.00E-05	0.000219871	yes
Scg3	3.98403	5.00E-05	0.000219871	yes
Gpr27	2.17344	0.00075	0.00266977	yes
Eml1	4.15818	5.00E-05	0.000219871	yes
St6galnac5	3.08056	5.00E-05	0.000219871	yes
Zfhx2	4.43437	5.00E-05	0.000219871	yes
Rab27b	4.7413	5.00E-05	0.000219871	yes
Pak4	2.79607	5.00E-05	0.000219871	yes
Cd44	4.57424	5.00E-05	0.000219871	yes
Stac	4.78999	5.00E-05	0.000219871	yes
Snrpf	1.83743	0.0032	0.00959205	yes
Zfp692	2.04161	0.0001	0.000421844	yes
Iqcg	1.96749	5.00E-05	0.000219871	yes
Ppp1r14b	2.86693	5.00E-05	0.000219871	yes
Tmem132c	3.20521	5.00E-05	0.000219871	yes
Mrgprd	4.92443	5.00E-05	0.000219871	yes
Redrum	2.39581	5.00E-05	0.000219871	yes
39141	3.45728	5.00E-05	0.000219871	yes
Kcnc2	4.05289	5.00E-05	0.000219871	yes
Rspo1	2.58289	5.00E-05	0.000219871	yes
Timeless	3.29021	5.00E-05	0.000219871	yes
Nfil3	2.29656	0.0001	0.000421844	yes
Gabra2	3.84684	5.00E-05	0.000219871	yes
Clasrp	3.13119	5.00E-05	0.000219871	yes
Fam150b	1.91481	0.0016	0.00523611	yes
Nxpe4	2.90621	5.00E-05	0.000219871	yes
Hes6	3.56367	5.00E-05	0.000219871	yes
Rgs5	4.87279	5.00E-05	0.000219871	yes
6720468P1	1.92426	0.00045	0.00168221	yes
Klhdc8b	3.36248	5.00E-05	0.000219871	yes
Klhl29	4.26364	5.00E-05	0.000219871	yes
Clgn	4.92797	5.00E-05	0.000219871	yes
Pstpip2	4.18044	5.00E-05	0.000219871	yes
Dpp10	4.74674	5.00E-05	0.000219871	yes
2210408F2	1.82271	0.00035	0.00134243	yes
Lrp8	3.77311	5.00E-05	0.000219871	yes

Tmem79	4.79774	5.00E-05	0.000219871	yes
Sdc1	3.8487	5.00E-05	0.000219871	yes
Amer2	3.19437	5.00E-05	0.000219871	yes
Palm2	4.5509	5.00E-05	0.000219871	yes
Mical1	4.28055	5.00E-05	0.000219871	yes
Rgs11	2.70189	5.00E-05	0.000219871	yes
Sdsl	2.07134	0.0022	0.00693287	yes
Ankrd10	3.29524	5.00E-05	0.000219871	yes
Mapk7	3.28315	5.00E-05	0.000219871	yes
Lpar3	4.53646	5.00E-05	0.000219871	yes
Eno3	1.95611	0.0002	0.000802844	yes
Mex3d	3.31518	5.00E-05	0.000219871	yes
Htr4	2.98374	5.00E-05	0.000219871	yes
Zdhhc12	2.25668	5.00E-05	0.000219871	yes
Arhgap26	4.54684	5.00E-05	0.000219871	yes
Ubald2	1.36728	0.01905	0.0451638	yes
Dapk1	4.38776	5.00E-05	0.000219871	yes
Rhebl1	3.17433	5.00E-05	0.000219871	yes
Cpne3	4.36103	5.00E-05	0.000219871	yes
Bach2	3.38317	5.00E-05	0.000219871	yes
Magi1	4.25005	5.00E-05	0.000219871	yes
Frmd4b	3.67183	5.00E-05	0.000219871	yes
Rgs3	3.92955	5.00E-05	0.000219871	yes
Lime1	2.62893	5.00E-05	0.000219871	yes
Med10	4.0102	5.00E-05	0.000219871	yes
AI413582	4.98748	5.00E-05	0.000219871	yes
Trim39	2.68059	5.00E-05	0.000219871	yes
Dgkg	4.10936	5.00E-05	0.000219871	yes
Pafah1b3	3.39607	5.00E-05	0.000219871	yes
Bex4	1.92638	0.00555	0.015544	yes
Ccdc141	4.34867	5.00E-05	0.000219871	yes
Rgs17	4.17153	5.00E-05	0.000219871	yes
P2rx3	4.24444	5.00E-05	0.000219871	yes
Rhov	3.87875	5.00E-05	0.000219871	yes
Pisd-ps3	3.58796	5.00E-05	0.000219871	yes
Ptbp3	4.22162	5.00E-05	0.000219871	yes
Zfp945	3.12228	5.00E-05	0.000219871	yes
Ndst3	3.11698	5.00E-05	0.000219871	yes
Prkcq	4.40404	5.00E-05	0.000219871	yes
Gnb4	4.41902	5.00E-05	0.000219871	yes
Neurl1a	3.56302	5.00E-05	0.000219871	yes
Pdlim2	2.63431	5.00E-05	0.000219871	yes
Sh2d5	2.59481	5.00E-05	0.000219871	yes
Cblb	3.83928	5.00E-05	0.000219871	yes
4930503L1	2.12349	0.00035	0.00134243	yes
Prkca	3.88593	5.00E-05	0.000219871	yes
Izumo4	3.03166	5.00E-05	0.000219871	yes
Arhgap28	4.34683	5.00E-05	0.000219871	yes
Mrgpra2b	2.34181	0.00025	0.000985076	yes
Ptger3	2.92595	5.00E-05	0.000219871	yes
Tle1	2.95989	5.00E-05	0.000219871	yes
Klhl2	4.09469	5.00E-05	0.000219871	yes
Mrgprb4	3.01687	5.00E-05	0.000219871	yes

Tox3	3.18418	5.00E-05	0.000219871	yes
Actl6b	3.50468	5.00E-05	0.000219871	yes
Smarca1	3.43756	5.00E-05	0.000219871	yes
Bex2	5.31425	5.00E-05	0.000219871	yes
Rpl34,Rpl3	1.34578	0.00695	0.0189334	yes
Plcx3	3.79552	5.00E-05	0.000219871	yes
Exosc6	2.30145	0.0004	0.00151277	yes
Tmem164	3.83616	5.00E-05	0.000219871	yes
Nsg2	4.13739	5.00E-05	0.000219871	yes
Fam83h	2.58617	5.00E-05	0.000219871	yes
Celsr3	3.77364	5.00E-05	0.000219871	yes
5031425E2	2.3547	0.0001	0.000421844	yes
Sox4	3.55045	5.00E-05	0.000219871	yes
Fads3	4.0741	5.00E-05	0.000219871	yes
Fdx1	2.61351	0.00015	0.000614592	yes
Smyd3	3.40704	5.00E-05	0.000219871	yes
Uaca	4.13515	5.00E-05	0.000219871	yes
Pitpnc1	4.07121	5.00E-05	0.000219871	yes
Trpa1	4.029	5.00E-05	0.000219871	yes
Baspl	4.55199	5.00E-05	0.000219871	yes
Hcn3	3.57752	5.00E-05	0.000219871	yes
Lcorl	3.10363	5.00E-05	0.000219871	yes
Prrxl1	3.3662	5.00E-05	0.000219871	yes
Ica1l	2.77238	5.00E-05	0.000219871	yes
Gnao1	3.40322	5.00E-05	0.000219871	yes
Tes	2.54726	5.00E-05	0.000219871	yes
Lap3	3.94274	5.00E-05	0.000219871	yes
Tagln2	4.68516	5.00E-05	0.000219871	yes
Nyap1	4.14325	5.00E-05	0.000219871	yes
Unc13c	3.67235	5.00E-05	0.000219871	yes
Lrrc45	2.51694	5.00E-05	0.000219871	yes
Arap1	3.37348	5.00E-05	0.000219871	yes
Tmem159	2.52136	5.00E-05	0.000219871	yes
Srek1	3.06412	5.00E-05	0.000219871	yes
Trmt10b	2.44894	5.00E-05	0.000219871	yes
Hyi	2.15465	0.00055	0.0020157	yes
Trim11	2.2848	5.00E-05	0.000219871	yes
Tshz2	4.13322	5.00E-05	0.000219871	yes
Irf6	2.40472	5.00E-05	0.000219871	yes
Slc12a7	3.34439	5.00E-05	0.000219871	yes
Prph	2.69757	5.00E-05	0.000219871	yes
Ctxn1	3.96202	5.00E-05	0.000219871	yes
Unc13b	2.91098	5.00E-05	0.000219871	yes
Sncg	4.18779	5.00E-05	0.000219871	yes
Ppfia2	3.5852	5.00E-05	0.000219871	yes
Efna1	2.98447	5.00E-05	0.000219871	yes
Slc4a3	2.87836	5.00E-05	0.000219871	yes
Rpl29	3.60862	5.00E-05	0.000219871	yes
Psd	2.23061	0.0001	0.000421844	yes
Zfp760	2.49183	5.00E-05	0.000219871	yes
Bok	2.04227	0.00055	0.0020157	yes
Magi3	3.81975	5.00E-05	0.000219871	yes
2810032Gc	1.82259	0.00305	0.00918809	yes

Vgf	4.07526	5.00E-05	0.000219871	yes
Tmem151b	3.7561	5.00E-05	0.000219871	yes
Hsbp1l1	3.39999	5.00E-05	0.000219871	yes
Phactr3	3.05301	5.00E-05	0.000219871	yes
Hal	2.22922	5.00E-05	0.000219871	yes
Tyw5	1.73171	0.0033	0.00985617	yes
Grip1	3.29421	5.00E-05	0.000219871	yes
Tapbp1	2.73895	5.00E-05	0.000219871	yes
Lmbr1l	2.51194	5.00E-05	0.000219871	yes
Abhd14b	2.76485	5.00E-05	0.000219871	yes
Gnaq	3.65529	5.00E-05	0.000219871	yes
E4f1	2.26429	5.00E-05	0.000219871	yes
Bex1	2.13634	0.00155	0.00509511	yes
Prkd1	3.24258	5.00E-05	0.000219871	yes
Cpne8	2.02343	5.00E-05	0.000219871	yes
Zfp579	2.02328	0.00065	0.00234272	yes
Schip1	3.20148	5.00E-05	0.000219871	yes
Chia1	1.89058	0.0015	0.00495284	yes
Cadm1	3.64106	5.00E-05	0.000219871	yes
Ptms	4.60629	5.00E-05	0.000219871	yes
Tstd1	1.9339	0.01855	0.0441836	yes
Fam132a	2.61822	0.0001	0.000421844	yes
Arhgap22	2.92577	5.00E-05	0.000219871	yes
Bhlhe41	3.47798	5.00E-05	0.000219871	yes
Odf2l	2.04628	0.00015	0.000614592	yes
5330417C2	2.49714	5.00E-05	0.000219871	yes
Pde11a	3.38778	5.00E-05	0.000219871	yes
Tmem72	3.41821	5.00E-05	0.000219871	yes
Zfp948	2.66089	5.00E-05	0.000219871	yes
Syt1	3.69092	5.00E-05	0.000219871	yes
Shkbp1	2.34758	0.00015	0.000614592	yes
Camk4	3.39502	5.00E-05	0.000219871	yes
Mex3b	2.39842	5.00E-05	0.000219871	yes
Agtr1b	2.07813	0.00055	0.0020157	yes
Ptptr	3.68538	5.00E-05	0.000219871	yes
Ebf3	3.66649	5.00E-05	0.000219871	yes
Rpl30	1.25874	0.01255	0.0315402	yes
Rarg	3.08725	5.00E-05	0.000219871	yes
Rgs19	1.82205	0.00035	0.00134243	yes
Fam129b	2.63416	5.00E-05	0.000219871	yes
Inha	1.79075	0.00255	0.00787496	yes
Rnh1	3.4723	5.00E-05	0.000219871	yes
Sft2d1	1.4682	0.00465	0.0133157	yes
Klhl5	3.90709	5.00E-05	0.000219871	yes
Mpped2	3.24273	5.00E-05	0.000219871	yes
Chka	3.44483	5.00E-05	0.000219871	yes
Pld5	3.46795	5.00E-05	0.000219871	yes
Srrm3	2.91521	5.00E-05	0.000219871	yes
Nrsn1	3.9419	5.00E-05	0.000219871	yes
S100a6	5.12352	5.00E-05	0.000219871	yes
Hivep3	2.90267	5.00E-05	0.000219871	yes
Arpc1b	4.18876	5.00E-05	0.000219871	yes
Tpd52	3.67556	5.00E-05	0.000219871	yes

Ret	2.95121	5.00E-05	0.000219871	yes
Acbd4	3.46345	5.00E-05	0.000219871	yes
Rbms1	3.63717	5.00E-05	0.000219871	yes
Scn3b	3.63177	5.00E-05	0.000219871	yes
H2afy	3.16401	5.00E-05	0.000219871	yes
Slc7a7	3.18353	5.00E-05	0.000219871	yes
Rnf144a	3.55008	5.00E-05	0.000219871	yes
Bcat2	2.74608	5.00E-05	0.000219871	yes
Nedd4l	3.51141	5.00E-05	0.000219871	yes
Dok4	3.59712	5.00E-05	0.000219871	yes
Il4ra	3.27733	5.00E-05	0.000219871	yes
Wipf3	3.618	5.00E-05	0.000219871	yes
Mapk4	2.92219	5.00E-05	0.000219871	yes
Adrbk2	2.99254	5.00E-05	0.000219871	yes
Bri3	2.29347	0.00125	0.00421978	yes
Ube2ql1	3.73312	5.00E-05	0.000219871	yes
Asic2	3.70737	5.00E-05	0.000219871	yes
Dclk3	3.35629	5.00E-05	0.000219871	yes
Mvp	3.50915	5.00E-05	0.000219871	yes
Gprin1	2.50155	5.00E-05	0.000219871	yes
Ppef1	3.79607	5.00E-05	0.000219871	yes
Flot1	4.10681	5.00E-05	0.000219871	yes
Mb21d2	2.77064	5.00E-05	0.000219871	yes
Pusl1	1.47152	0.00535	0.0150442	yes
Kcnk18	2.405	5.00E-05	0.000219871	yes
Tusc5	3.37028	5.00E-05	0.000219871	yes
Cenpv	1.85898	0.00395	0.011515	yes
Arhgef1	3.0664	5.00E-05	0.000219871	yes
Gm13826	2.94337	5.00E-05	0.000219871	yes
9930104L0	2.01864	0.0003	0.00116377	yes
Tbc1d1	3.18399	5.00E-05	0.000219871	yes
Mmp17	2.40414	5.00E-05	0.000219871	yes
Rab27a	3.07258	5.00E-05	0.000219871	yes
Scn10a	2.72376	5.00E-05	0.000219871	yes
Fam135a	3.07858	5.00E-05	0.000219871	yes
6820431F2	2.33534	5.00E-05	0.000219871	yes
Gpd1l	3.73376	5.00E-05	0.000219871	yes
Wnt2b	2.97079	5.00E-05	0.000219871	yes
Ccdc43	3.24626	5.00E-05	0.000219871	yes
Bcl3	1.76955	0.0027	0.00827273	yes
Cdh10	2.55238	5.00E-05	0.000219871	yes
1700019D0	1.74088	0.00995	0.0258583	yes
Arhgap39	3.44092	5.00E-05	0.000219871	yes
Arl4d	2.6344	5.00E-05	0.000219871	yes
Serpina3g	3.62124	5.00E-05	0.000219871	yes
Gng2	3.43842	5.00E-05	0.000219871	yes
Plagl1	3.49701	5.00E-05	0.000219871	yes
Fbxl2	2.58411	5.00E-05	0.000219871	yes
Def6	2.85057	5.00E-05	0.000219871	yes
Ppp1r2	3.05042	5.00E-05	0.000219871	yes
F2rl2	3.25091	5.00E-05	0.000219871	yes
Scand1	2.3192	0.00115	0.00391006	yes
Apba1	3.3156	5.00E-05	0.000219871	yes

Snx11	3.11276	5.00E-05	0.000219871	yes
Golga7b	3.21907	5.00E-05	0.000219871	yes
Itpkb	3.36006	5.00E-05	0.000219871	yes
Zfp593	1.73228	0.0007	0.00250591	yes
Htr5b	1.80119	0.002	0.00636307	yes
Camk1g	2.85673	5.00E-05	0.000219871	yes
Nudt8	1.73829	0.01175	0.0298235	yes
Tmeff1	3.04446	5.00E-05	0.000219871	yes
Tmem63a	2.86735	5.00E-05	0.000219871	yes
Ptger1	1.39195	0.01745	0.0419857	yes
Pde1c	3.11551	5.00E-05	0.000219871	yes
Krit1	2.76634	5.00E-05	0.000219871	yes
Dock4	3.23467	5.00E-05	0.000219871	yes
Kcnmb1	2.51923	5.00E-05	0.000219871	yes
Fam43a	1.98858	0.00035	0.00134243	yes
Map7	3.09378	5.00E-05	0.000219871	yes
Nipsnap3b	3.10542	5.00E-05	0.000219871	yes
Kctd16	2.81224	5.00E-05	0.000219871	yes
Samd12	2.51733	0.00025	0.000985076	yes
Anxa11	3.10088	5.00E-05	0.000219871	yes
Trnp1	3.77196	5.00E-05	0.000219871	yes
Impact	3.59082	5.00E-05	0.000219871	yes
Tspan14	3.43063	5.00E-05	0.000219871	yes
9530077CC	2.37558	5.00E-05	0.000219871	yes
Tradd	2.20983	0.0004	0.00151277	yes
Adamts3	2.51256	5.00E-05	0.000219871	yes
Ifit2	2.98524	5.00E-05	0.000219871	yes
Gtpbp6	2.29596	5.00E-05	0.000219871	yes
H13	2.83576	5.00E-05	0.000219871	yes
Rras	3.227	5.00E-05	0.000219871	yes
Txndc11	1.16197	0.02075	0.0486207	yes
36585	2.5692	5.00E-05	0.000219871	yes
2700094K1	1.99669	0.00015	0.000614592	yes
Serf1	3.01827	0.00015	0.000614592	yes
Rspo2	3.37442	5.00E-05	0.000219871	yes
Nek1	3.41955	5.00E-05	0.000219871	yes
Hnrnpa1	1.68137	0.00245	0.00760509	yes
Hmgcll1	2.19352	0.0001	0.000421844	yes
Chd5	3.29071	5.00E-05	0.000219871	yes
Snx9	2.87723	5.00E-05	0.000219871	yes
Snhg6	1.15879	0.02125	0.0496432	yes
Rnase4	2.24442	0.0001	0.000421844	yes
Diras2	3.11713	5.00E-05	0.000219871	yes
Sema3e	2.71079	5.00E-05	0.000219871	yes
Zmat4	2.91528	5.00E-05	0.000219871	yes
Kcna4	2.86414	5.00E-05	0.000219871	yes
Zfhx3	3.35863	5.00E-05	0.000219871	yes
Kctd8	3.30751	5.00E-05	0.000219871	yes
A330021E2	1.92763	0.00055	0.0020157	yes
Ier3	2.7187	5.00E-05	0.000219871	yes
Zfp580	2.1879	0.0006	0.00218147	yes
Card10	2.32277	5.00E-05	0.000219871	yes
Car11	3.23167	5.00E-05	0.000219871	yes

Kri1	1.74747	0.0004	0.00151277	yes
Ankrd6	2.63386	5.00E-05	0.000219871	yes
Nek3	1.62042	0.0015	0.00495284	yes
Lbh	3.42603	5.00E-05	0.000219871	yes
Rims2	2.63416	5.00E-05	0.000219871	yes
Ctsl	3.2532	5.00E-05	0.000219871	yes
Cacna2d2	2.83919	5.00E-05	0.000219871	yes
Tlx2	3.35824	5.00E-05	0.000219871	yes
Ddx55	1.88695	0.00015	0.000614592	yes
Zcchc9	2.04573	0.00105	0.00360703	yes
Ano3	3.24929	5.00E-05	0.000219871	yes
Rab15	3.48633	5.00E-05	0.000219871	yes
Cacnb3	3.22792	5.00E-05	0.000219871	yes
Tnfrsf11a	2.8972	5.00E-05	0.000219871	yes
Cdkn1a	2.91288	5.00E-05	0.000219871	yes
Ebf1	3.2748	5.00E-05	0.000219871	yes
Klf8	2.33359	5.00E-05	0.000219871	yes
Anks1b	2.79949	5.00E-05	0.000219871	yes
Slc35f4	2.14855	0.00025	0.000985076	yes
Nup93	3.4033	5.00E-05	0.000219871	yes
Tmem132e	3.39159	5.00E-05	0.000219871	yes
Pcbd1	2.92907	5.00E-05	0.000219871	yes
Thra	3.54522	5.00E-05	0.000219871	yes
Mfsd10	2.27411	0.0001	0.000421844	yes
Auts2	2.95741	5.00E-05	0.000219871	yes
Pde10a	2.82134	5.00E-05	0.000219871	yes
Nt5c	2.30388	5.00E-05	0.000219871	yes
Tmem198	1.67856	0.0031	0.00931545	yes
Hypk	4.03584	5.00E-05	0.000219871	yes
Slc25a27	2.70477	5.00E-05	0.000219871	yes
Syt4	3.21724	5.00E-05	0.000219871	yes
Nckap5l	2.7706	5.00E-05	0.000219871	yes
Tmsb4x	4.09588	5.00E-05	0.000219871	yes
Dock11	3.31562	5.00E-05	0.000219871	yes
Pou4f1	3.38645	5.00E-05	0.000219871	yes
Plau	1.90796	0.0007	0.00250591	yes
Pura	2.46686	5.00E-05	0.000219871	yes
Hcrtr2	2.08356	0.0002	0.000802844	yes
Arhgap17	2.96277	5.00E-05	0.000219871	yes
Rgmb	3.46361	5.00E-05	0.000219871	yes
Zfp946	2.37486	5.00E-05	0.000219871	yes
Serp2	2.23183	5.00E-05	0.000219871	yes
Xylt2	2.78616	5.00E-05	0.000219871	yes
Nrn1	3.47735	5.00E-05	0.000219871	yes
Zfp524	1.47514	0.0181	0.0432906	yes
Myt1l	3.24274	5.00E-05	0.000219871	yes
Hpcal1	3.54189	5.00E-05	0.000219871	yes
Slit1	3.25522	5.00E-05	0.000219871	yes
C2cd5	2.80463	5.00E-05	0.000219871	yes
4921524J1	1.5896	0.0022	0.00693287	yes
Fam124a	2.22783	5.00E-05	0.000219871	yes
Gpr19	1.60997	0.00145	0.00480448	yes
Ndn	3.56672	5.00E-05	0.000219871	yes

Fgf13	2.84065	5.00E-05	0.000219871	yes
Rgl2	2.31787	5.00E-05	0.000219871	yes
Eogt	2.37983	5.00E-05	0.000219871	yes
Sema4d	3.04842	5.00E-05	0.000219871	yes
Sfn	1.51956	0.00895	0.0235782	yes
Tsen34	2.51525	5.00E-05	0.000219871	yes
Cds2	2.22987	5.00E-05	0.000219871	yes
Tpm4	3.18331	5.00E-05	0.000219871	yes
Ankrd13b	3.12667	5.00E-05	0.000219871	yes
Myd88	1.73676	0.0021	0.00664933	yes
Ubald1	3.09725	5.00E-05	0.000219871	yes
Avil	2.91086	5.00E-05	0.000219871	yes
Rpl13	1.19957	0.0174	0.0418882	yes
Slc15a4	2.56347	5.00E-05	0.000219871	yes
Akap17b	2.59361	5.00E-05	0.000219871	yes
Csnk1e	2.78626	5.00E-05	0.000219871	yes
Lrrc16b	2.93094	5.00E-05	0.000219871	yes
Deaf1	2.36311	5.00E-05	0.000219871	yes
Cystm1	3.61293	5.00E-05	0.000219871	yes
Myadm	3.09879	5.00E-05	0.000219871	yes
Rnaseh1	1.56429	0.0017	0.0055144	yes
Cbr3	1.6423	0.008	0.0214676	yes
Ina	1.85314	0.00025	0.000985076	yes
Mtcl1	3.09052	5.00E-05	0.000219871	yes
Tppp3	3.22826	5.00E-05	0.000219871	yes
Ralgps1	1.79559	0.00085	0.00298332	yes
Bst2	1.93367	0.0058	0.0161793	yes
Unc119	2.97516	5.00E-05	0.000219871	yes
Pvrl1	2.96766	5.00E-05	0.000219871	yes
Fez1	3.60124	5.00E-05	0.000219871	yes
Klf7	2.81297	5.00E-05	0.000219871	yes
Sh3bgrl3	4.26845	5.00E-05	0.000219871	yes
Tspan2	2.99585	5.00E-05	0.000219871	yes
Mgat4a	2.89907	5.00E-05	0.000219871	yes
Pqlc3	2.712	5.00E-05	0.000219871	yes
Ccdc109b	2.49398	0.00015	0.000614592	yes
Coro1a	3.33403	5.00E-05	0.000219871	yes
Snx10	3.02244	5.00E-05	0.000219871	yes
Faim	2.00077	5.00E-05	0.000219871	yes
Znf512b	2.20934	5.00E-05	0.000219871	yes
Tmem206	2.02762	0.0003	0.00116377	yes
Popdc3	2.54598	5.00E-05	0.000219871	yes
Fam189b	3.03852	5.00E-05	0.000219871	yes
Ankrd13d	2.98977	5.00E-05	0.000219871	yes
Hdac9	2.43997	5.00E-05	0.000219871	yes
Tmsb10	2.55583	5.00E-05	0.000219871	yes
F8a	2.06294	0.0004	0.00151277	yes
Lrrc75b	3.14472	5.00E-05	0.000219871	yes
Gm13889	3.38604	5.00E-05	0.000219871	yes
Med11	2.03492	0.0027	0.00827273	yes
Pfkl	3.0241	5.00E-05	0.000219871	yes
Psma5	1.6739	0.0062	0.0171508	yes
Ttc8	1.58418	0.0018	0.0058019	yes

Ggta1	2.31873	5.00E-05	0.000219871	yes
Trpv2	2.99167	5.00E-05	0.000219871	yes
Ap3b1	2.34103	5.00E-05	0.000219871	yes
1500004A1	1.93576	5.00E-05	0.000219871	yes
1500011BC	2.60263	5.00E-05	0.000219871	yes
Ptpn9	3.02542	5.00E-05	0.000219871	yes
Tmem169	2.04029	0.0002	0.000802844	yes
Lmnb2	1.84779	0.0008	0.00282803	yes
Gm17066	1.46939	0.007	0.0190657	yes
Rmnd5b	1.97957	5.00E-05	0.000219871	yes
Chrna6	2.84926	5.00E-05	0.000219871	yes
Six1	2.92513	5.00E-05	0.000219871	yes
Abca5	3.03898	5.00E-05	0.000219871	yes
Ltv1	2.34307	5.00E-05	0.000219871	yes
Gstp1	2.70103	0.0001	0.000421844	yes
Lrrc8d	2.9075	5.00E-05	0.000219871	yes
Agk	1.65273	0.0028	0.00853183	yes
Sertad4	2.37666	5.00E-05	0.000219871	yes
Skap2	2.4568	5.00E-05	0.000219871	yes
Arhgef28	2.45891	5.00E-05	0.000219871	yes
Enox1	2.7575	5.00E-05	0.000219871	yes
Rcan3	2.89272	5.00E-05	0.000219871	yes
Rmdn1	1.5468	0.0069	0.0188242	yes
Coro2a	2.91704	5.00E-05	0.000219871	yes
Cntn3	2.08832	5.00E-05	0.000219871	yes
4931428F0	1.34102	0.00655	0.0179915	yes
Rufy2	2.53566	5.00E-05	0.000219871	yes
Brinp2	2.71588	5.00E-05	0.000219871	yes
Erlin1	2.0178	5.00E-05	0.000219871	yes
Brd9	2.53036	5.00E-05	0.000219871	yes
Cacna2d1	2.85976	5.00E-05	0.000219871	yes
Stk11ip	2.46125	5.00E-05	0.000219871	yes
Rac3	2.63041	5.00E-05	0.000219871	yes
Uri1	2.45421	5.00E-05	0.000219871	yes
Zc3h7a	2.26779	5.00E-05	0.000219871	yes
Cxxc4	2.16656	5.00E-05	0.000219871	yes
Icmt	2.98059	5.00E-05	0.000219871	yes
Bbs5	1.74713	0.0024	0.00747963	yes
Gramd4	2.53386	5.00E-05	0.000219871	yes
Armcx6	1.76157	0.0018	0.0058019	yes
Rsph3a	1.66455	0.00295	0.00892738	yes
Snx7	2.87871	5.00E-05	0.000219871	yes
Tac1	3.51128	5.00E-05	0.000219871	yes
B3glct	2.67767	5.00E-05	0.000219871	yes
Boc	2.17351	5.00E-05	0.000219871	yes
Vezt	2.74108	5.00E-05	0.000219871	yes
Aacs	3.05537	5.00E-05	0.000219871	yes
Ccdc12	1.59765	0.0165	0.03999	yes
Bdnf	2.31539	5.00E-05	0.000219871	yes
Nol3	2.65211	5.00E-05	0.000219871	yes
B4galt5	2.96749	5.00E-05	0.000219871	yes
Hilpda	1.19415	0.0178	0.0426499	yes
Abr	2.82351	5.00E-05	0.000219871	yes

Kifc2	2.55549	5.00E-05	0.000219871	yes
Bend4	2.22984	5.00E-05	0.000219871	yes
Prdm8	2.19548	5.00E-05	0.000219871	yes
Snx21	2.72833	5.00E-05	0.000219871	yes
Supt20	2.21264	5.00E-05	0.000219871	yes
Zdhhc13	2.57696	5.00E-05	0.000219871	yes
Rab40c	2.36218	5.00E-05	0.000219871	yes
Wipf1	2.56307	5.00E-05	0.000219871	yes
1110007CC	2.85962	5.00E-05	0.000219871	yes
Plcl1	2.09361	5.00E-05	0.000219871	yes
Utp18	1.82306	0.001	0.00345135	yes
Asl	2.24684	5.00E-05	0.000219871	yes
Ralgds	2.63338	5.00E-05	0.000219871	yes
Ino80b	1.74361	0.0062	0.0171508	yes
Creld1	3.15337	5.00E-05	0.000219871	yes
8430427H1	2.76403	5.00E-05	0.000219871	yes
2010111I0	1.99827	0.00055	0.0020157	yes
Glipr2	1.9004	0.0006	0.00218147	yes
Ankrd12	2.75435	5.00E-05	0.000219871	yes
Rp9	2.39591	0.0003	0.00116377	yes
Zmat5	2.15105	0.0016	0.00523611	yes
Pla2g6	2.31175	5.00E-05	0.000219871	yes
Ydjc	1.85982	0.00205	0.00650343	yes
Rpusd1	1.9964	0.0005	0.00185035	yes
Gpatch4	1.66079	0.00155	0.00509511	yes
Fbxo36	1.5751	0.01545	0.0377626	yes
Flot2	2.77722	5.00E-05	0.000219871	yes
Cep78	1.6688	0.00215	0.00679629	yes
Wbscr17	2.95737	5.00E-05	0.000219871	yes
Tec	1.46834	0.0037	0.0108794	yes
Jph4	2.94451	5.00E-05	0.000219871	yes
Gucd1	2.36923	5.00E-05	0.000219871	yes
Zfp827	2.4176	5.00E-05	0.000219871	yes
Fam178a	2.08121	5.00E-05	0.000219871	yes
Zcchc18	2.63908	5.00E-05	0.000219871	yes
AW549877	2.86439	5.00E-05	0.000219871	yes
Nagk	2.43121	5.00E-05	0.000219871	yes
Grk5	1.93503	0.00065	0.00234272	yes
Pknox2	2.57136	5.00E-05	0.000219871	yes
Rps19bp1	1.76758	0.0084	0.0223916	yes
Pygl	2.33532	5.00E-05	0.000219871	yes
Socs7	2.84695	5.00E-05	0.000219871	yes
Dennd6b	1.88585	0.0001	0.000421844	yes
Anxa5	2.34897	5.00E-05	0.000219871	yes
Erich3	1.42627	0.01085	0.0278697	yes
Slc25a1	3.03223	5.00E-05	0.000219871	yes
Rnf219	2.33488	5.00E-05	0.000219871	yes
Fah	2.17189	0.0003	0.00116377	yes
Id4	2.26565	5.00E-05	0.000219871	yes
Tmem74	2.2197	0.00015	0.000614592	yes
Rtn4rl1	2.88147	5.00E-05	0.000219871	yes
Gcnt2	2.6378	5.00E-05	0.000219871	yes
Pde8a	1.51714	0.00515	0.0145869	yes

Ugcg	2.90579	5.00E-05	0.000219871	yes
Ankzf1	1.37119	0.0145	0.03579	yes
Zfp941	2.05208	0.00015	0.000614592	yes
Cdh1	2.87864	5.00E-05	0.000219871	yes
2510009E0	2.8613	5.00E-05	0.000219871	yes
Cacna1b	2.72584	5.00E-05	0.000219871	yes
Ppp1r1c	2.66216	5.00E-05	0.000219871	yes
Nkiras2	2.24067	0.00015	0.000614592	yes
Fam189a2	2.31036	5.00E-05	0.000219871	yes
Emp3	1.74095	0.00085	0.00298332	yes
Rrp36	1.69321	0.00535	0.0150442	yes
Frat2	1.69507	0.0034	0.0101093	yes
Dbndd2	2.09636	5.00E-05	0.000219871	yes
Nipal2	2.22235	5.00E-05	0.000219871	yes
Fam102b	2.78099	5.00E-05	0.000219871	yes
Tspan5	2.85989	5.00E-05	0.000219871	yes
C77080	2.18325	5.00E-05	0.000219871	yes
Fbxo22	2.60938	5.00E-05	0.000219871	yes
Lclat1	2.58285	5.00E-05	0.000219871	yes
Rnf7	3.10224	5.00E-05	0.000219871	yes
Eef1g	2.2327	0.0001	0.000421844	yes
Bbs9	1.88218	0.0002	0.000802844	yes
Myc	1.47883	0.00455	0.0130688	yes
Ccdc85a	2.50848	5.00E-05	0.000219871	yes
Lypd6b	1.52985	0.0051	0.0144638	yes
Pten	2.7083	5.00E-05	0.000219871	yes
Tmem256	3.20695	0.0005	0.00185035	yes
Tcof1	1.91611	0.0003	0.00116377	yes
Raph1	2.74091	5.00E-05	0.000219871	yes
Rnps1	1.88158	0.00015	0.000614592	yes
37499	2.63512	5.00E-05	0.000219871	yes
Taf9b	2.18474	5.00E-05	0.000219871	yes
Vav3	1.99119	5.00E-05	0.000219871	yes
Clk2	1.43503	0.0041	0.0119026	yes
Tmem106a	1.49741	0.0081	0.0217009	yes
Kdsr	2.50515	5.00E-05	0.000219871	yes
Trim46	2.20538	5.00E-05	0.000219871	yes
Zadh2	2.59405	5.00E-05	0.000219871	yes
Plekha6	2.66581	5.00E-05	0.000219871	yes
Slc9a3r2	2.52281	5.00E-05	0.000219871	yes
Arl10	1.7158	0.0055	0.0154267	yes
Pwwp2a	1.60014	0.0014	0.00465742	yes
2900056M:	1.94197	5.00E-05	0.000219871	yes
Gtf3a	1.65637	0.00535	0.0150442	yes
Mrgpre	2.24607	0.0001	0.000421844	yes
Tmem29	1.57845	0.00195	0.00621891	yes
Gadd45g	2.11373	0.0004	0.00151277	yes
Leo1	2.24396	5.00E-05	0.000219871	yes
Ankrd24	1.8013	0.00095	0.00329852	yes
Lrch4	1.8387	0.00065	0.00234272	yes
Zmym6	1.67011	0.0009	0.00313888	yes
Spag7	2.15372	5.00E-05	0.000219871	yes
Mbnl2	2.43605	5.00E-05	0.000219871	yes

Pkp4	2.24329	5.00E-05	0.000219871	yes
Cisd3	2.74177	5.00E-05	0.000219871	yes
Pgls	2.25645	0.00035	0.00134243	yes
Supt4a	1.66943	0.01975	0.0465985	yes
Zfp738	1.9454	0.0002	0.000802844	yes
Lyar	1.42551	0.01365	0.0339383	yes
Hdac10	1.62131	0.00125	0.00421978	yes
Rbfox1	2.62088	5.00E-05	0.000219871	yes
A230050P2	1.42067	0.0143	0.0353688	yes
Cd34	2.42805	5.00E-05	0.000219871	yes
Nin	1.77396	0.0005	0.00185035	yes
Cobl	2.50691	5.00E-05	0.000219871	yes
Pitpnm2	2.5693	5.00E-05	0.000219871	yes
Trpv1	2.6973	5.00E-05	0.000219871	yes
Scn9a	2.40597	5.00E-05	0.000219871	yes
Plekho1	2.00987	0.00065	0.00234272	yes
9330159F1	2.54816	5.00E-05	0.000219871	yes
Qdpr	2.95246	5.00E-05	0.000219871	yes
Ptpr	2.26936	5.00E-05	0.000219871	yes
BC029214	1.69283	0.00725	0.0196538	yes
Lonrf1	2.26129	5.00E-05	0.000219871	yes
Arhgef18	2.38777	5.00E-05	0.000219871	yes
Trmt1	1.90785	0.00035	0.00134243	yes
Chrm4	1.365	0.01285	0.0322027	yes
Dapk3	1.97679	0.0003	0.00116377	yes
Ankra2	1.82863	0.0002	0.000802844	yes
Kdelc2	1.94843	0.00015	0.000614592	yes
Dolpp1	1.83508	0.0011	0.00376029	yes
Gpr176	1.69347	0.0011	0.00376029	yes
Snx8	1.8838	0.00015	0.000614592	yes
Parp11	1.99496	0.0003	0.00116377	yes
Slc35f5	2.31642	5.00E-05	0.000219871	yes
Calcb	3.15644	5.00E-05	0.000219871	yes
Mrps6	1.34819	0.00705	0.0191822	yes
2610203C2	1.32694	0.0076	0.0204896	yes
Kcnab1	2.62896	5.00E-05	0.000219871	yes
Trappc5	2.23359	5.00E-05	0.000219871	yes
Smad1	2.41333	5.00E-05	0.000219871	yes
Stk19	1.77274	0.0044	0.0126847	yes
AI414108	1.85131	0.0007	0.00250591	yes
Gigyf1	2.03485	0.0002	0.000802844	yes
Osbpl3	2.4391	5.00E-05	0.000219871	yes
Lactb	1.53523	0.00605	0.0167919	yes
Prkx	2.60869	5.00E-05	0.000219871	yes
Fkbp1b	3.10762	5.00E-05	0.000219871	yes
AI846148	1.51355	0.00295	0.00892738	yes
Eif1a	2.53326	5.00E-05	0.000219871	yes
Cacna1c	2.45656	5.00E-05	0.000219871	yes
Zbtb10	2.13626	0.0001	0.000421844	yes
Cd97	1.32766	0.009	0.0236958	yes
Nmi	1.1737	0.01985	0.0467928	yes
Ppapdc1b	1.54162	0.00815	0.021826	yes
Mrpl57	1.65322	0.0028	0.00853183	yes

Man1c1	2.21585	5.00E-05	0.000219871	yes
Mob3a	2.07405	0.0001	0.000421844	yes
B2302170:	1.67906	0.0027	0.00827273	yes
2610001J0	2.33612	5.00E-05	0.000219871	yes
Slc22a18	1.43003	0.0045	0.012942	yes
Kcnj12	2.29899	5.00E-05	0.000219871	yes
Armcx4	2.26082	5.00E-05	0.000219871	yes
Elavl3	2.6095	5.00E-05	0.000219871	yes
Arrdc1	1.73489	0.0006	0.00218147	yes
Gale	1.99971	0.0005	0.00185035	yes
BC018507	2.42717	5.00E-05	0.000219871	yes
Wsb1	2.00195	5.00E-05	0.000219871	yes
Stat6	2.49893	5.00E-05	0.000219871	yes
Sdccag8	1.3907	0.0107	0.0275431	yes
Pik3cd	2.28553	5.00E-05	0.000219871	yes
Mink1	2.47335	5.00E-05	0.000219871	yes
Piezo2	2.26789	5.00E-05	0.000219871	yes
Syng3	2.74801	5.00E-05	0.000219871	yes
Wdr34	1.43029	0.012	0.0303709	yes
Adc	2.60132	5.00E-05	0.000219871	yes
Mtmt1	1.92913	0.00045	0.00168221	yes
Chd3	2.50447	5.00E-05	0.000219871	yes
Crmp1	2.4265	5.00E-05	0.000219871	yes
Lifr	1.9426	5.00E-05	0.000219871	yes
Vps4b	2.56366	5.00E-05	0.000219871	yes
Vamp4	2.5817	5.00E-05	0.000219871	yes
Plekha3	2.13413	5.00E-05	0.000219871	yes
Csrnp3	2.42055	5.00E-05	0.000219871	yes
Mtss1	2.2903	5.00E-05	0.000219871	yes
Tpgs1	2.35974	0.0001	0.000421844	yes
Ap4m1	1.32689	0.01905	0.0451638	yes
Prmt2	2.34941	5.00E-05	0.000219871	yes
Mef2a	2.45203	5.00E-05	0.000219871	yes
Mcf2l	2.34523	5.00E-05	0.000219871	yes
Hras	2.24286	5.00E-05	0.000219871	yes
Cdyl2	2.04257	0.00015	0.000614592	yes
Acly	2.17093	0.0001	0.000421844	yes
Parp8	2.03683	0.00015	0.000614592	yes
Osbpl6	2.25134	5.00E-05	0.000219871	yes
Pdcd2	1.79929	0.00345	0.0102373	yes
Bid	2.00032	0.0003	0.00116377	yes
Pdcl3	2.13421	0.0002	0.000802844	yes
Mapkapk5	1.86122	0.001	0.00345135	yes
Rab39	2.12962	5.00E-05	0.000219871	yes
2610034B1	2.00064	0.0004	0.00151277	yes
Mapk11	2.54355	5.00E-05	0.000219871	yes
Mnt	2.21824	5.00E-05	0.000219871	yes
Usp12	2.47967	5.00E-05	0.000219871	yes
Aff3	2.31132	5.00E-05	0.000219871	yes
Gpatch11	2.11764	5.00E-05	0.000219871	yes
Ank3	2.29901	5.00E-05	0.000219871	yes
Nvl	1.92758	0.0006	0.00218147	yes
Vti1b	2.27158	5.00E-05	0.000219871	yes

Disp2	2.36565	5.00E-05	0.000219871	yes
Zfp428	1.33174	0.0067	0.0183427	yes
Tmcc3	2.1284	5.00E-05	0.000219871	yes
Rnf31	1.75754	0.0008	0.00282803	yes
Mtm1	1.55749	0.00185	0.00593853	yes
Eif4e3	2.20468	0.0001	0.000421844	yes
Prkrip1	1.60826	0.0047	0.0134328	yes
Filip1	2.07234	5.00E-05	0.000219871	yes
Ccp110	2.4203	5.00E-05	0.000219871	yes
Zfp954	1.55548	0.0054	0.0151719	yes
Galk2	1.67352	0.0026	0.00801073	yes
Zfp703	1.9495	0.00015	0.000614592	yes
Ppp3cc	2.1739	5.00E-05	0.000219871	yes
5330426P1	1.4523	0.0034	0.0101093	yes
Luzp2	2.44944	5.00E-05	0.000219871	yes
Ccdc82	1.64555	0.0018	0.0058019	yes
Lrrc8b	2.28111	5.00E-05	0.000219871	yes
Oraov1	2.03264	0.00045	0.00168221	yes
Mvd	1.96003	0.0001	0.000421844	yes
Dnajc12	1.40038	0.0062	0.0171508	yes
Slc7a6os	1.42098	0.0158	0.0385328	yes
Ston2	2.06886	0.00015	0.000614592	yes
Fgfr1op	1.73615	0.00045	0.00168221	yes

Suppl. Table 3 TRPV1 lineage gene list

Table S3: Highly Differentially Expressed Transcripts in the TRPV1_L Preparation

This table contains the molecular signature of TRPV1_L neurons based on level of expression. The table lists all 263 TRPV1_L functionally well annotated transcripts with a differential of 5X and above (there is partial overlap with Table 1). The genes have been grouped into functional categories according to known annotations and publications. Within the groups, the genes have been sorted on expression (high to low) and only genes with an expression level above 1 RPKM are included. The adjusted fold change values are color coded: Red: >20 fold, Blue: 2-10 fold, and Green: < 10 fold difference. The accession id provides the exact reference to the gene isoform analyzed within this study.

Gene Symbol	Gene Name	Lineage RPKM	Depleted RPKM	Adjusted Fold Change	Accession Id	Location
Ligand and Voltage Gated Ion Channels, Channel Subunits and Channel Interacting proteins						
Scn11a	sodium channel, voltage-gated, type XI, alpha; Nav1.9	169.2	16.4	10.3	NM_011887(refseq)::	chr9:119662883-119734574
P2rx3	purinergic receptor P2X, ligand-gated ion channel, 3	163.6	22.4	7.3	NM_145526(refseq)::	chr2:84836709-84875991
Trpv1	transient receptor potential cation channel, subfamily V, member 1	151.2	1.3	105.3	uc007kah.1(ucsc)	chr11:73047794-73074009
Kcnp4	a-type potassium channel modulatory protein 4	133	19.6	6.8	uc008x.jv.1(ucsc)	chr5:48780742-48990921
Grik1	glutamate receptor, ionotropic, kainate 1	130.8	8.6	15.1	NM_146072(refseq)	chr16:87896142-88290503
Kcnp2	a-type potassium channel modulatory protein 2	102.2	14.8	6.9	uc008hrr.1(ucsc)	chr19:45868160-45886781
Scn3b	sodium channel, voltage-gated, type III, beta	39.9	7.8	5.1	NM_153522(refseq)::	chr9:40076801-40099203
Trpc3	transient receptor potential cation channel, subfamily C, member 3	38.9	4.8	7.9	NM_019510(refseq)::	chr3:36519404-36589089
Kcnh6	potassium voltage-gated channel, subfamily H (eag-related), member 6, K _v 11.2	30.6	2.5	11.9	NM_001037712(refseq)	chr11:105869517-105895378
Chrna6	cholinergic receptor, nicotinic, alpha polypeptide 6	30.3	4	7.4	NM_021369(refseq)::	chr8:28513684-28524416
Trpa1	transient receptor potential cation channel, subfamily A, member 1	23.6	0.9	22.6	NM_177781(refseq)::	chr1:14862729-14908943
Kcnmb1	potassium large conductance calcium-activated channel, subfamily M, BKbeta1, Maxi	16.3	3.6	5	NM_031169(refseq)	chr11:33863013-33873638
Trpm8	transient receptor potential cation channel, subfamily M, member 8	15.2	0.7	18.4	NM_134252(refseq)	chr1:90203287-90285426
Kcnc2	potassium voltage-gated channel, Shaw-related subfamily, member 2, K _v 3.2	9.9	0.7	12.6	NM_001025581(refseq)	chr10:111708179-111903360
Kcnk12	potassium channel, subfamily K, member 12, THIK2, tandem pore domain K ⁺ channel	8.9	0.8	9.9	NM_199251(refseq)::	chr17:88145161-88197334
Trpc6	transient receptor potential cation channel, subfamily C, member 6	8.3	0.7	10.7	NM_013838(refseq)::	chr9:8544142-8880741
Kcnk13	potassium channel, subfamily K, member 13, THIK1, tandem pore domain K ⁺ channel	7.7	1.1	6.7	NM_001164427(refseq)	chr12:101202709-101300891
Kcng2	potassium voltage-gated channel, subfamily G, member 2, K _v 6.2	7.1	0.4	14.2	NM_001190373(refseq)	chr18:80491283-80560993
Gria1	glutamate receptor, ionotropic, AMPA1 (alpha 1)	6.7	1.2	5.4	NM_001113325(refseq)	chr11:56825193-57143746
P2rx2	purinergic receptor P2X, ligand-gated ion channel, 2	6.1	0.1	39.6	NM_153400(refseq)	chr5:110768831-110772054
Chrn3b	cholinergic receptor, nicotinic, beta polypeptide 3	5.3	0.1	23.3	NM_173212(refseq)::	chr8:28479183-28510201
Kcnf1	potassium voltage-gated channel, subfamily F, member 1, K _v 5.1	4.9	0.3	14	NM_201531(refseq)	chr12:17178908-17183694
Cacnal1	calcium channel, voltage-dependent, alpha I subunit	4	0.1	24.6	NM_001044308(refseq)	chr15:80117668-80228722
Kcnmb2	potassium large conductance calcium-activated channel, subfamily M, BKbeta2, Maxi	3.8	0.2	11.9	NM_028231(refseq)::	chr3:31801625-32099102
Trpc4	transient receptor potential cation channel, subfamily C, member 4	3.1	0.2	11.2	NM_016984(refseq)::	chr3:53960026-54122389
Cacng3	calcium channel, voltage-dependent, gamma subunit 3	2.5	0.3	6.5	NM_019430(refseq)	chr7:129815258-129912905
Trpv3	transient receptor potential cation channel, subfamily V, member 3	2.2	0.3	5.8	NM_145099(refseq)::	chr11:73081122-73110702
Kcns2	K ⁺ voltage-gated channel, subfamily S, 2, K _v 9.2	1.9	0.1	10	NM_181317(refseq)::	chr15:34767136-34772092
Kcnj6	potassium inwardly-rectifying channel, subfamily J, member 6, GIRK2, Kir3.2, weave	1.3	0.1	7	NM_001025584(refseq)	chr16:94970290-95219303
Trpc7	transient receptor potential cation channel, subfamily C, member 7	1.3	0.2	5	NM_012035(refseq)::	chr13:56874469-56969649
G-protein Coupled Receptors and Associated Proteins						
Rgs4	regulator of G-protein signaling 4	606	125.2	5	NM_009062(refseq)::	chr1:171671608-171677773
Rgs10	regulator of G-protein signaling 10	222.9	28.6	7.8	NM_026418(refseq)::	chr7:135517139-135561686
Mrgprd	MAS-related GPR, member D	125.4	4.2	29.1	NM_203490(refseq)::	chr7:152500740-152509964
Gnb4	guanine nucleotide binding protein (G protein), beta 4	68	8.1	8.3	NM_013531(refseq)::	chr3:32482450-32515457
F2r12	coagulation factor II (thrombin) receptor-like 2; PAR3	57.5	10.1	5.6	NM_010170(refseq)::	chr13:96466875-96472723
Gna14	guanine nucleotide binding protein, alpha 14	53	4.9	10.6	NM_008137(refseq)	chr19:16510157-16685308
Lpar3	lysophosphatidic acid receptor 3	45.8	1.9	22.8	NM_022983(refseq)	chr3:145883925-145949178
Mrgpra3	MAS-related GPR, member A3	37.4	6.3	5.8	NM_153067(refseq)	chr7:54844321-54856742
Rgs3	regulator of G-protein signaling 3	37.4	6.5	5.7	NM_134257(refseq)	chr4:62280706-62364053
Mrgprx1	MAS-related GPR, member X1	28.6	1.3	21.3	NM_207540(refseq)::	chr7:55276341-55282967
Rgs8	regulator of G-protein signaling 8	22.6	0.8	26	NM_026380(refseq)::	chr1:155500167-155544795
Ptgdrr	prostaglandin D receptor	20	1.4	13.3	NM_008962(refseq)::	chr14:45470910-45479050
Mrgprb5	MAS-related GPR, member B5	17.3	0.7	21.9	NM_207538(refseq)::	chr7:55423387-55424355
Gpr35	G protein-coupled receptor 35	17.3	1	15.5	NM_022320(refseq)::	chr1:94875480-94882968
Npy1r	neuropeptide Y receptor Y1	17.3	2.4	7	NM_010934(refseq)	chr8:69221321-69230697
Npy2r	neuropeptide Y receptor Y2	14.6	1.4	10	NM_008731(refseq)::	chr3:82342305-82352007
Agtr1a	angiotensin II receptor, type 1a	13.3	1.6	8	NM_177322(refseq)	chr13:30428225-30474736
Lpar5	lysophosphatidic acid receptor 5	13.1	0.9	13.1	NM_001163269(refseq)	chr6:125017938-125032489
Sstr2	somatostatin receptor 2	11.2	0.3	28.5	uc007mep.1(ucsc)	chr11:113480795-113486950
Cysl1r2	cysteinyl leukotriene receptor 2	10.8	0.3	25.4	NM_001162412(refseq)	chr14:73428936-73448921
Htr1a	5-hydroxytryptamine (serotonin) receptor 1A	6.1	0.6	9.4	NM_008308(refseq)	chr13:106233773-106238213
Nmur1	neuromedin U receptor 1	4.6	0.2	18.2	NM_010341(refseq)::	chr1:88282900-88284716
Rgs14	regulator of G-protein signaling 14	4.5	0.4	8.9	NM_016758(refseq)	chr13:55471093-55486047
Gpr160	G protein-coupled receptor 160	3.9	0.5	6.5	NM_001134385(refseq)	chr3:30754872-30761114
Galr1	galanin receptor 1	3.7	0.2	11.2	NM_008082(refseq)::	chr18:82561888-82576169
Gpr68	G protein-coupled receptor 68	2.9	0.3	7.5	NM_001177674(refseq)	chr12:102114893-102137734
Avpr1a	arginine vasopressin receptor 1A	1.8	0.1	9.5	NM_016847(refseq)::	chr10:12188555-121890509
Crrh2	corticotropin releasing hormone receptor 2	1.7	0.1	9	NM_009953(refseq)	chr6:55040042-55082966
Mrgpra4	MAS-related GPR, member A4	1.6	0.1	8.5	uc009hak.1(ucsc)	chr7:55236164-55237666
Mrgpra9	MAS-related GPR, member A9	1.4	0.1	7.5	NM_001177566(refseq)	chr7:54490290-54508218
Neuropeptides and Cytokines						
Calca*	calcitonin-related polypeptide alpha; CGRP	924.2	372.1	2.5	NM_001033954(refseq)	chr7:121774992-121779871
Tac1	tachykinin 1; substance P	597.7	14.1	42	NM_009311(refseq)::	chr6:7505071-7512973
Calcb*	calcitonin-related polypeptide beta; CGRP2	105.4	31.9	3.3	NM_054084(refseq)	chr7:121862157-121866879
Adcyap1	adenylate cyclase activating polypeptide 1; PACAP	95	5.3	17.6	NM_009625(refseq)::	chr17:93598762-93604829
Cartpt	CART prepropeptide	64.7	2.1	29	NM_013732(refseq)::	chr13:100668439-100670638
Sst	somatostatin; growth hormone release-inhibiting factor	53.8	0.5	97.3	NM_009215(refseq)::	chr16:23889667-23890930
Gal	galanin	33.8	1.2	25.7	NM_010253(refseq)::	chr19:3409917-3414457
Nppb	natriuretic peptide precursor type B	24.1	0.2	86.9	NM_008726(refseq)	chr4:147359898-147361314
Ccl1	chemokine (C-C motif) ligand 1	7.8	0.3	22.5	NM_011329(refseq)::	chr11:81990168-81993314
Synaptic Vesicle Proteins and Associated Synaptic Proteins						
Scg3	secretogranin III	585.8	111.5	5.2	NM_001164790(refseq)	chr9:75491174-75531863
Scg2	secretogranin II; secretoneurin	202.8	33.8	6	NM_009129(refseq)::	chr1:79431244-79436665
Synpr	synaptotagmin	184.9	14	13.1	NM_001163032(refseq)	chr14:14286472-14447982
Mal2	mal, T-cell differentiation protein 2	124.8	6.4	19.1	NM_178920(refseq)	chr15:54402921-54434401
Syt7	synaptotagmin VII	75.1	9.3	8	NM_173068(refseq)	chr19:10463580-10527671
Nptx2	neuronal pentraxin 2	73.8	10.4	7	NM_016789(refseq)	chr5:145306756-145318347
Syt9	synaptotagmin IX	66.9	6.2	10.7	NM_021889(refseq)::	chr7:114514304-114692169
Syt5	synaptotagmin V	66.5	3.8	17.3	NM_016908(refseq)::	chr7:4491367-4498169
Nptxr	neuronal pentraxin receptor	66.3	12.6	5.2	NM_030689(refseq)::	chr15:79616781-79635139
Nrsn1	neuroligin 1	65.4	11.5	5.6	NM_009513(refseq)	chr13:25343908-25361865

C1ql4	complement component 1, q subcomponent-like 4	31.8	1.4	21.9	NM_001024702(refseq)	chr15:98915185-98918159
Syt16	synaptotagmin XVI	3.6	0.3	8.7	uc007nww.1(ucsc)	chr12:75098748-75368903
Transcription Factors, mRNA-binding proteins and Transcription Related and Splicing Factors						
Prdm12	PR domain zinc finger protein 12	136.4	21.8	6.2	NM_001123362(refseq)	chr2:31495557-31511315
Nbl1	neuroblastoma, suppression of tumorigenicity 1	132.9	22.6	5.9	NM_008675(refseq)::	chr4:138638207-138648885
Tshz2	teashirt zinc finger family member 2	115.8	19.3	6	NM_080455(refseq)	chr2:169459146-169714004
Ldb2	LIM domain binding 2	103.5	5	20.4	NM_001077398(refseq)	chr5:44863372-45190946
Carhsp1	calcium regulated heat stable protein 1	66.7	7.9	8.3	NM_025821(refseq)::	chr16:8658680-8672246
Fos	FBJ osteosarcoma oncogene; cFos	59.6	1.7	34.1	NM_010234(refseq)::	chr12:86814851-86818219
Junb	Jun-B oncogene	55.8	9.8	5.6	uc009mop.1(ucsc)	chr8:87498383-87502617
Celf6	bruno-like 6, RNA binding protein (Drosophila)	41.5	1.1	35.4	NM_175235(refseq)::	chr9:59426144-59455099
Runx1	run1 related transcription factor 1	35.2	2.4	14	NM_001111023(refseq)	chr16:92601711-92697573
Egr1	early growth response 1; Krox-1; nerve growth factor-induced protein A	30	4.3	6.9	NM_007913(refseq)::	chr18:35020861-35024610
Klf5	Kruppel-like factor 5; basic transcription element-binding protein 2	27.5	3	8.9	NM_009769(refseq)::	chr14:99697910-99712628
Pagr5	progesterin and adipoQ receptor family member V	27.4	1	24.9	NM_028748(refseq)::	chr9:61801545-61874597
Bex1	brain expressed gene 1	26.7	1	24.9	NM_009052(refseq)::	chrX:132748511-132750052
Zfp36	zinc finger protein 36	21.7	3.4	6.2	NM_011756(refseq)::	chr7:29161803-29164247
Myt1	myelin transcription factor 1	20.2	2.7	7.2	NM_008665(refseq)	chr2:181501734-181562480
Zmat4	zinc finger, matrin type 4	17.1	3	5.6	NM_177086(refseq)	chr8:24780133-25173575
Celf3	trinucleotide repeat containing 4	16.2	2.2	7	uc008agg.1(ucsc)	chr3:94282753-94296115
Samsn1	SAM domain, SH3 domain and nuclear localization signals, 1	14.5	2.4	5.8	uc007zrt.1(ucsc)	chr16:75859039-75953577
Zcchc12	zinc finger, CCHC domain containing 12	14	0.5	23.5	NM_028325(refseq)	chrX:33735899-33739153
Fosb	FBJ osteosarcoma oncogene B	13.4	0.3	32.3	NM_008036(refseq)::	chr7:19888045-19895394
Bex4	brain expressed gene 4	12.3	0.8	14.1	NM_212457(refseq)	chrX:132673584-132674974
Btg2	B-cell translocation gene 2, anti-proliferative	11.8	2	5.7	NM_007570(refseq)::	chr1:135971442-135975732
Insm2	insulinoma-associated 2	11.7	1.6	7.1	NM_020287(refseq)::	chr12:56699904-56703004
Prdm8	PR domain containing 8	10	1.9	5.2	NM_029947(refseq)::	chr5:98609888-98616467
Grh13	grainyhead-like 3 (Drosophila)	7.3	0.7	8.7	NM_001013756(refseq)	chr4:135097803-135129535
Timeless	timeless homolog (Drosophila)	7.3	1.2	5.8	NM_001136082(refseq)	chr10:127669119-127689988
Insm1	insulinoma-associated 1	6.5	0.5	11.4	NM_016889(refseq)	chr2:146047733-146050752
Irf6	interferon regulatory factor 6	6.4	0.2	22.6	NM_016851(refseq)::	chr1:194979306-194998229
Trim14	tripartite motif-containing 14	6	1	5.7	NM_029077(refseq)::	chr4:46519719-46549016
Zfp575	zinc finger protein 575	4.3	0.4	8.1	NM_001033205(refseq)	chr7:25368857-25372660
Bcl11a	B-cell CLL/lymphoma 11A (zinc finger protein)	2.8	0.3	7.3	NM_016707(refseq)	chr11:23978056-24073558
Neurog3	neurogenin 3	2	0.1	10.5	NM_009719(refseq)::	chr10:61595838-61597511
Ascl4	achaete-scute domain homolog 4	1.5	0	16	NM_001163614(refseq)	chr10:85391236-85392392
Smad1	SET and MYND domain containing 1	1.4	0.2	5	NM_001160127(refseq)	chr6:71163935-71212275
Ovo12	ovo-like 2 (Drosophila)	1.3	0	14	NM_026924(refseq)::	chr2:144130912-144157816
Dll3	delta-like 3 (Drosophila)	1.3	0.1	7	NM_007866(refseq)::	chr7:29078574-29086804
Hes3	hairy and enhancer of split 3 (Drosophila)	1.1	0	12	NM_008237(refseq)::	chr4:151660081-151665771
Pax8	paired box gene 8	1.1	0.1	6	NM_011040(refseq)::	chr2:24276080-24331086
Rpp25	ribonuclease P 25 subunit (human)	2.8	0.5	5	NM_133982(refseq)::	chr9:57351909-57353254
Transporters, Trafficking and Interacting Proteins						
Fxyd2	FXD ion transport regulator 2; ATPase subunit gamma	2196.7	252.1	8.7	NM_007503(refseq)::	chr9:45214160-45218361
Aqp1	aquaporin 1	152.6	21.9	6.9	NM_007472(refseq)::	chr6:55286293-55298549
Atp2b4	ATPase, Ca++ transporting, plasma membrane 4	18.5	2.1	8.4	NM_213616(refseq)	chr1:135600842-135600908
Slc4a11	solute carrier family 4, sodium bicarbonate transporter-like, member 11	15.8	2.2	6.8	NM_001081162(refseq)	chr2:130509844-130523255
Slc45a3	solute carrier family 45, member 3	15.2	2.6	5.7	uc007cnz.1(ucsc)	chr1:133859544-133879541
Slc37a1	solute carrier family 37 (glycerol-3-phosphate transporter), member 1	10.1	1.9	5.2	uc008bux.1(ucsc)	chr17:31433164-31487643
Slc10a6	solute carrier family 10 (sodium/bile acid cotransporter family), member 6	9.2	0.5	15.5	NM_029415(refseq)::	chr5:104034730-104058422
Slc17a8	sodium-dependent inorganic phosphate cotransporter, member 8	8.3	0.3	22.9	NM_182959(refseq)	chr10:89036765-89083994
Slc16a12	monocarboxylic acid transporters, member 12	6.3	0.5	10.6	NM_172838(refseq)::	chr19:34742896-34821601
Slc47a2	solute carrier family 47, member 2	3.7	0.5	6.1	NM_001033542(refseq)	chr11:61115133-61156362
Slc7a3	solute carrier family 7 (cationic amino acid transporter, y+ system), member 3	3	0.3	7.8	NM_007515(refseq)::	chrX:98274560-98280691
Osta	organic solute transporter alpha	2.6	0.1	13.5	NM_145932(refseq)::	chr16:32475664-32487965
Bcl2l14	BCL2-like 14 (apoptosis facilitator)	2.5	0.2	8.7	uc009ekj.1(ucsc)	chr6:134364483-134388742
Slc6a7	solute carrier family 6 (neurotransmitter transporter, L-proline), member 7	1.8	0.2	6.3	NM_201353(refseq)::	chr18:61155034-61173853
Slc5a7	solute carrier family 5 (choline transporter), member 7	1.3	0.1	7	uc008czy.1(ucsc)	chr17:54412915-54438359
Growth Factors, Matrix and Glycoproteins, Cell Adhesion, Semaphorins, and Cytokine Receptors and Modulators						
Cd24a	CD24a antigen; nectadrin	924.2	83.6	11	NM_009846(refseq)::	chr10:43298975-43304071
Egfl3	fibroblast growth factor 13, microtubule regulation	395.2	76.1	5.2	NM_010200(refseq)::	chrX:56315328-56387613
Cd55	CD55 antigen; complement decay-accelerating factor	226.6	39.6	5.7	NM_010016(refseq)::	chr1:132335607-132359317
sglgsf	cell adhesion molecule 1; Cadml	158.4	22.4	7	uc009phm.1(ucsc)	chr9:47338435-47597249
Gfra2	glial cell line neurotrophic factor family receptor alpha 2; neurturin receptor	115.7	11.5	9.9	NM_008115(refseq)::	chr14:71289937-71379645
Ly86	lymphocyte antigen 86	109.9	13.7	8	NM_010745(refseq)	chr13:37437214-37510904
Cd44	CD44 antigen; hyaluronate receptor	81.4	5.2	15.3	NM_009851(refseq)::	chr2:102651300-102741822
Plxnc1	plexin C1; semaphorin receptor	77.6	10.3	7.4	NM_018797(refseq)::	chr10:94253612-94407212
Gfra3	glial cell line derived neurotrophic factor family receptor alpha 3	73.5	0.4	148.6	NM_010280(refseq)	chr18:34849557-34880041
Stac1	src homology three (SH3) and cysteine rich domain	47.2	6.2	7.5	NM_016853(refseq)::	chr9:111463938-111592720
Ccdc68	cutaneous T-cell lymphoma-associated antigen	28	2.1	12.8	NM_201362(refseq)::	chr18:70085213-70129138
Ggref1	cell growth regulator with EF hand domain 1	24.9	4.7	5.2	NM_026770(refseq)::	chr5:31235516-31247853
Osmr	oncostatin M receptor	23.6	1.8	12.8	NM_011019(refseq)::	chr15:6763577-6824313
Il13ra	interleukin 13 receptor A	22	0.6	33.9	uc007rwi.1(ucsc)	chr13:113313016-113370870
Socs3	suppressor of cytokine signaling 3	14.6	2.2	6.5	NM_007707(refseq)	chr11:117827403-117830680
Lrrc3	leucine rich repeat containing 3	13.5	1.5	8.3	NM_145152(refseq)::	chr10:77360320-77365281
Ceacam10	carcinoembryonic antigen-related cell adhesion molecule 10	13.1	0.2	51.8	NM_007675(refseq)	chr7:25562223-25569672
Nxph3	neurexophilin 3	9.9	1.6	6	NM_130858(refseq)::	chr11:95371160-95375879
Cdh9	cadherin 9	8.5	0.5	13.3	NM_009869(refseq)	chr15:16707856-16786532
Islr2	immunoglobulin superfamily containing leucine-rich repeat 2	6.3	0.7	8.4	NM_001161541(refseq)	chr9:58044105-58052126
Nel11	NEL-like 1 (chicken)	5.4	0.2	16.8	NM_001037906(refseq)	chr7:57230720-58118659
Plaur	plasminogen activator, urokinase receptor	5.2	0.7	6.3	NM_011113(refseq)::	chr7:25247519-25260892
Dkk1l1	dickkopf-like 1	4.2	0.2	12.8	NM_015789(refseq)::	chr7:52462896-52467253
Tnr	tenascin R	4.2	0.3	10.1	NM_022312(refseq)::	chr1:161453900-161855053
Otoa	otoacoronin	3.6	0.3	9.3	NM_139310(refseq)::	chr7:128226952-128306603
Bmp15	bone morphogenetic protein 15	3.2	0.1	18.1	NM_009757(refseq)	chrX:5891224-5897841
Wnt11	wingless-related MMTV integration site 11	2.4	0.1	12.5	NM_009519(refseq)::	chr7:105987355-106003257
Lrrn4	leucine rich repeat neuronal 4	1.8	0.1	9.5	NM_177303(refseq)::	chr2:132694252-132706598
Dcx	doublecortin	1.8	0.2	6.3	NM_001110223(refseq)	chrX:140290385-140367762
Nxph4	neurexophilin 4	1.8	0.1	9.5	NM_183297(refseq)::	chr10:126962529-126971615
Secm1b	secreted and transmembrane 1B; single pass transmembrane glycoprotein	1.6	0	17	NM_026907(refseq)::	chr11:120914737-120924883
Cxcl1	chemokine (C-X-C motif) ligand 1	1.5	0.2	5.3	NM_008176(refseq)	chr5:91320271-91322139
Bmp8a	bone morphogenetic protein 8a	1.2	0	13	NM_007558(refseq)::	chr4:122989893-123020046
Membrane, Structural and Rho/Rac Proteins						
Tmem233	transmembrane protein 45b	461.8	55.5	8.3	NM_001101546(refseq)	chr5:116490545-116533255
Tmem45b	transmembrane protein 45B	178.1	6.6	26.8	NM_144936(refseq)::	chr9:31233781-31271823

Tubb2b	tubulin, beta 2a	254.2	37.1	6.8	NM_023716(refseq)::	chr13:34218877-34222223
Rasgrp1	RAS guanyl releasing protein 1	90.5	2.5	34.8	NM_011246(refseq)::	chr2:117105729-117168613
Ctxn3	cortexin 3	81.3	4.2	18.8	NM_001134697(refseq)::	chr18:57628140-57637788
Ctxn1	cortexin 1	62.8	8.8	7.1	NM_183315(refseq)::	chr8:4257646-4259274
Rarres1	retinoic acid receptor responder (tazarotene induced) 1	60.1	9.1	6.5	NM_001164763(refseq)::	chr3:67282808-67319445
Rasgrp	RAS guanyl releasing protein 1	51.1	1.5	31.8	uc0081rm.1(ucsc)	chr2:117123829-117127757
Cpne2	copine II	48.5	7.2	6.7	NM_153507(refseq)::	chr8:97056928-97094429
Nrn1l	neuritin 1-like, Cpg15-2	46.2	6.7	6.8	NM_175024(refseq)::	chr8:108417470-108418915
Tmem158	transmembrane protein 158	45.7	2.1	20.8	NM_001002267(refseq)::	chr9:123168175-123169907
Rab27b	RAB27b, member RAS oncogene family	22.6	4.4	5.1	NM_030554(refseq)::	chr18:70138785-70213023
Arhgap26	Rho GTPase activating protein 26	21.6	3.4	6.3	NM_175164(refseq)::	chr18:39152799-39535939
Hspalb	70kDa heat shock protein 1B; chaperone protein	16.8	3	5.4	NM_010478(refseq)::	chr17:35093374-35096183
Ms4a3	membrane-spanning 4-domains, subfamily A, member 3	6.6	0.7	8.3	uc008gsr.1(ucsc)	chr19:11706392-11715324
Plek2	pleckstrin 2	4.4	0.7	5.6	NM_013738(refseq)::	chr12:79989684-800027925
Krt27	keratin 27	3.6	0.5	6.3	NM_010666(refseq)::	chr11:99206880-99212408
Cpne5	copine V	3.1	0.3	8.9	NM_153166(refseq)::	chr17:29293466-29374735
Prrt4	proline-rich transmembrane protein 4	2.3	0.2	8	NM_001101443(refseq)::	chr6:29119230-29129584
Eyst3	family with sequence similarity 62 (C2 domain containing), member C	2.2	0.3	5.8	NM_177775(refseq)::	chr9:99210386-992258949
Kinases, Phosphatases, Proteases, Mmps, Phosphodiesterases and Other Enzymes and Enzyme inhibitors						
Lxn	latexin; endogenous carboxypeptidase inhibitor	328.5	66.3	5	NM_016753(refseq)::	chr3:67261921-67267829
Prkcd	protein kinase C, delta	224.8	24.4	9.2	NM_011103(refseq)::	chr14:31408555-31423498
Acpp	acid phosphatase, prostate; PAP	207.6	13.2	15.6	NM_207668(refseq)::	chr9:104190570-10420052
Plcb3	phospholipase C, beta 3	202.2	28.4	7.1	NM_008874(refseq)::	chr19:7028203-7044242
Dusp26	MAP kinase phosphatase 8	169.3	14.4	11.6	NM_025869(refseq)::	chr8:32200134-32207519
Th	tyrosine 3-hydroxylase	142.8	1.3	103.7	NM_009377(refseq)::	chr7:150078681-150085871
Dgkh	diacylglycerol kinase, eta	91.9	12.3	7.4	uc007usn.1(ucsc)	chr14:78964916-7904258
Gpx3	glutathione peroxidase 3	90.6	6.9	13	NM_001083929(refseq)::	chr11:54716355-54723889
Camk2a	calcium/calmodulin-dependent protein kinase II alpha	79.7	9	8.8	NM_177407(refseq)::	chr18:61085286-61147806
Ppp1r1a	protein phosphatase 1, regulatory (inhibitor) subunit 1A	51.3	7.3	7	NM_021391(refseq)::	chr15:103360710-103368423
Hs6st2	heparan sulfate 6-O-sulfotransferase 2	42.8	6.4	6.6	NM_001077202(refseq)::	chrX:48740389-49034779
Prkcg	protein kinase C, theta	40.3	3.1	12.7	NM_008859(refseq)::	chr2:11094009-11222853
Mmp25	matrix metalloproteinase 25	36.7	4.1	8.6	NM_001033339(refseq)::	chr17:2376425-23782236
A3galt2	alpha 1,3-galactosyltransferase 2 (isoglobotriaosylceramide synthase)	33.5	2	15.7	NM_001009819(refseq)::	chr4:128436502-128446542
Dgki	diacylglycerol kinase, iota	28.9	5.5	5.2	NM_001081206(refseq)::	chr6:36796022-37249976
Plcx3	phosphatidylinositol-specific phospholipase C, X domain containing 3	25	4.3	5.7	NM_177355(refseq)::	chr15:4325491-4525579
Dgkg	diacylglycerol kinase, gamma	23.6	2.8	8.3	NM_138650(refseq)::	chr16:22466642-22657304
Ang	angiogenin, ribonuclease, RNase A family, 5	22.4	3.6	6.1	NM_001161731(refseq)::	chr14:51710752-51721682
Nt5e	5' nucleotidase, ecto	20.2	1.8	10.8	NM_011851(refseq)::	chr9:88222447-88266927
Moxd1	monooxygenase, DBH-like 1	19.1	3.7	5.1	NM_021509(refseq)::	chr10:23943323-24022589
Assl	argininosuccinate synthetase 1	17.8	2.6	6.7	NM_007494(refseq)::	chr2:31325790-31376190
Pdella	phosphodiesterase 11A	17.5	1.5	11	NM_001081033(refseq)::	chr2:75829189-76176710
Ptprt	protein tyrosine phosphatase, receptor type, T	15.2	2.8	5.3	uc008nrx.1(ucsc)	chr2:161353359-162486883
Cyp4f39	cytochrome P450, family 4, subfamily F, polypeptide 39	14.6	1.3	10.4	NM_177307(refseq)::	chr17:32589668-32630265
St6galnac5	ST6-N-acetylgalactosaminide alpha-2,6-sialyltransferase 5	13.6	1.4	8.9	NM_012028(refseq)::	chr3:152483674-152645171
Cyp2j12	cytochrome P450, family 2, subfamily J, polypeptide 12	12.9	0.5	21.2	NM_001100182(refseq)::	chr4:95766334-95807733
Zdhhc12	Probable palmitoyltransferase ZDHHC12	10.9	2	5.2	NM_025428(refseq)::	chr2:29946464-29949155
Pde4c	phosphodiesterase 4C, cAMP specific	9.4	0.4	19.8	uc009mbh.1(ucsc)	chr8:73247963-73275075
Dapk2	death-associated protein kinase 2	9.2	1	8.5	NM_010019(refseq)::	chr9:66006033-66120049
Dnasell3	deoxyribonuclease 1-like 3	9.1	0.3	25.1	NM_007870(refseq)::	chr14:8797704-8826696
Car8	carbonic anhydrase 8	7.9	0.1	45	NM_007592(refseq)::	chr4:8068640-8166188
Capn9	calpain 9	7.8	0.3	19	NM_023709(refseq)::	chr8:127100011-127142630
Ppapdc1a	phosphatidic acid phosphatase type 2 domain containing 1A	7.6	1.4	5.2	NM_001080963(refseq)::	chr7:136400608-136534821
Wfdc2	WAP four-disulfide core domain 2	6.6	0.1	34	NM_026323(refseq)::	chr2:164388216-164394006
Stk32a	serine/threonine kinase 32A	5.5	0.4	11	NM_178749(refseq)::	chr18:43367351-43477135
Zdhhc23	Probable palmitoyltransferase ZDHHC23	5	0.6	7.2	uc007zgr.1(ucsc)	chr16:43969259-43979901
Tmprss11c	transmembrane protease, serine 11c	4.6	0.2	16.5	NM_001030297(refseq)::	chr5:86660506-86718333
Gm5424	argininosuccinate synthase pseudogene	4.4	0.8	5.3	NR_002687(refseq)::	chr10:61533770-61535319
Cpn1	carboxypeptidase N, polypeptide 1	4.3	0.7	5.6	uc008hpa.1(ucsc)	chr19:44030798-44061010
St6gal2	beta galactoside alpha 2,6 sialyltransferase 2	4	0.5	6.6	NM_172829(refseq)::	chr17:55585015-55638524
Dgkk	diacylglycerol kinase kappa	3.9	0.1	25.1	NM_177914(refseq)::	chrX:6356432-6525489
Ada	adenosine deaminase	3.9	0.5	6.5	NM_007398(refseq)::	chr2:163552320-163575913
Rnf182	E3 ubiquitin-protein ligase RNF182	3.9	0.7	5.1	NM_183204(refseq)::	chr13:43711166-43766312
Mpped1	metallophosphoesterase domain containing 1	3.7	0.3	9.1	uc007abl.1(ucsc)	chr15:83615259-83688904
Fbp2	fructose biphosphatase 2	3.7	0.6	5.9	NM_007994(refseq)::	chr13:62938245-62959730
Gad11	glutamate decarboxylase-like 1	3.6	0.2	13.2	NM_028638(refseq)::	chr9:115818573-115985294
Hal	histidine ammonia lyase	3.3	0.2	10.9	NM_010401(refseq)::	chr10:92951513-92979488
Klk5	kallikrein related-peptidase 5	3.1	0.1	17.9	NM_026806(refseq)::	chr7:51097639-51106551
Serpina11	serine (or cysteine) peptidase inhibitor, clade A, member 11	3.1	0.2	11.6	NM_199314(refseq)::	chr12:105218453-105238153
Serpina1e	serine (or cysteine) peptidase inhibitor, clade A, member 1E	2.7	0.1	14	NM_009247(refseq)::	chr12:105185142-105195107
Klk8	kallikrein related-peptidase 8	2.5	0.1	13	NM_008940(refseq)::	chr7:51052947-51059192
Itk	IL2-inducible T-cell kinase	2	0.2	7	NM_010583(refseq)::	chr11:46138652-46203017
Ak4	GTP:AMP phosphotransferase AK4	1.7	0.2	6	NM_001177602(refseq)::	chr4:101091894-101140376
Incomplete Annotations						
Samd14	sterile alpha motif domain containing 14	103.9	17.2	6	NM_146025(refseq)::	chr11:94871193-94887401
Fam89a	family with sequence similarity 89, member A	42.4	6.3	6.7	NM_001081120(refseq)::	chr8:127264157-127275709
Fam19a4	family with sequence similarity 19 (chemokine (C-C motif)-like), member A4	36.7	3.3	11	NM_177233(refseq)::	chr6:96781203-97010405
Bag2	BCL2-associated athanogene 2	19.6	2.9	6.5	NM_145392(refseq)::	chr1:33802329-33814595
Bves	blood vessel epicardial substance; popeye domain containing 1	19.4	3.7	5.1	NM_024285(refseq)::	chr10:45055568-45089514
Scin	scinderin; adseverin	10.6	1.3	7.4	NM_001146196(refseq)::	chr12:40786360-40860815
Igh	immunoglobulin heavy chain complex	6.9	0.4	15	uc007pgl.1(ucsc)	chr12:114525498-114667344
Ighg	Immunoglobulin heavy chain (gamma polypeptide)	6.9	0.4	13.6	uc007pgm.1(ucsc)	chr12:114525498-114668044
Gm525	Uncharacterized protein Clorf67 homolog	6.7	0.3	16.6	NM_001033266(refseq)::	chr11:88935155-88954378
Fam167a	family with sequence similarity 167, member A	4.9	0.3	13	NM_177628(refseq)::	chr14:64055231-64084339
Card11	caspace recruitment domain family, member 11	4.7	0.7	6.2	NM_175362(refseq)::	chr5:141348953-141476550
Cmtm8	CKLF-like MARVEL transmembrane domain containing 8	4.1	0.7	5.4	NM_027294(refseq)::	chr9:114698463-114753270
T2	brachyury 2	4	0.2	15.8	NM_001161832(refseq)::	chr17:8565261-8615589
Rspo4	R-spondin 4	3.7	0.2	14.3	NM_001040689(refseq)::	chr2:151668663-151700404
Fgg	fibrinogen gamma chain	3.5	0.1	17.3	uc008ppd.1(ucsc)	chr3:82811818-82818627
Tnfaip813	tumor necrosis factor, alpha-induced protein 8-like 3	2.6	0.2	9	NM_001033535(refseq)::	chr9:53873413-53916218
Sh2d4a	SH2 domain containing 4A	2	0.3	5.3	NM_028182(refseq)::	chr8:70800427-70871603
Lrrc10b	predicted gene 705	1.4	0.1	7.5	NM_001111140(refseq)::	chr19:10530579-10531937
Ttc29	tetratricopeptide repeat domain 29	1.4	0.2	5	NM_183096(refseq)::	chr8:80737241-80918224
Gm7325	predicted gene 7325	1.2	0.1	6.5	NM_001177468(refseq)::	chr17:45737916-45739016
Nccrpl	non-specific cytotoxic cell receptor protein 1 homolog (zebrafish)	1.2	0.1	6.5	NM_001081115(refseq)::	chr7:29328616-29332273
Prr15l	ATPase family, AAA domain containing 4	1.1	0.1	6	NM_146026(refseq)::	chr11:96790638-96796961

Pigr	polymeric immunoglobulin receptor	1.1	0.1	6	NM_011082(refseq)	chr1:132723261-132748824
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Suppl. Table 4 All genes

Gene ID	Gene Symbol	CPIP1 Read Count	CPIP2 Read Count	CPIP3 Read Count	CPIP4 Read Count	Sham1 Read Count	Sham2 Read Count	Sham3 Read Count	Sham4 Read Count
317418	Tsr2	0	239.86	470.02	379.86	0	0.01	0	0
100912618	LOC100912618	0	61.85	0	21.07	0	0	0	0.05
100910581	LOC100910581	119	0	65.54	92	0	0	0	0
300802	Aph1b	0	0	121.81	96.21	0	0	0	0
103691556	LOC103691556	0	3.78	0	272.78	0	1.25	0	0.17
102550456	LOC102550456	70.49	0	0	0	0	0	0	0
108349606	LOC108349606	0	32.58	0	18.99	0	0	0	0
100909868	LOC100909868	2	0	1	0	0	0	0.03	0
100911233	LOC100911233	0	13.86	20.69	8.1	0	0	0	0
100912399	LOC100912399	13.04	9.9	18.72	0	0	0	0	0
684969	Potef	0	0	17.74	21.2	0	0	0	0
100910616	Hmgn5	0	11.41	15.97	3.96	0	0	0	0
108348106	LOC108348106	0	0	23.96	0	0	0	0	0
100909795	LOC100909795	0	0	0	22.59	0	0	0	0
100911564	LOC100911564	5.9	10.35	4.76	0	0	0	0	0
100361265	LOC100361265	20.33	14.16	0.97	4	1	0	0	0
690146	RGD1584023	10.05	0	5.98	0	0	0	0	0
297402	RGD1560795	7.78	0	7.84	0	0	0	0	0
102552708	LOC102552708	6.88	4.82	2.97	0	0	0	0	0
100911713	LOC100911713	0	0	0	13.36	0	0	0	0
100911814	LOC100911814	3.85	0	0	8.37	0	0	0	0
207119	Rin1	0.88	0	10.14	0.88	0	0	0	0
24421	Gstal	0	0	11.68	0	0	0	0	0
100910240	LOC100910240	0	8.28	0	3.22	0	0	0	0
81828	Zp2	0	1	0	21	0	1	0	0
100911804	LOC100911804	6	1.94	0.64	1	0	0	0	0
100912489	LOC100912489	6.91	0	0	0.91	0.41	0	0	0
100912564	LOC100912564	6.91	0	0	0.91	0.41	0	0	0
502913	Hist2h4a	6.91	0	0	0.91	0.41	0	0	0
100361850	LOC100361850	9	0	0	0	0	0	0	0
100909964	LOC100909964	0	9	0	0	0	0	0	0
103692699	LOC103692699	2	1	4	2	0	0	0	0
103694404	LOC103694404	0	2.38	2.41	3.78	0	0	0	0
108348231	LOC108348231	3.92	2.12	0	2	0	0	0	0
498911	Mt4	1	2	2	3	0	0	0	0
108351339	LOC108351339	5.96	0	0	2.01	0	0	0	0
364991	Slc25a36l1	0	28.43	17.21	0	0	0	2.92	0
103691102	C1H19orf84	1	2	1	3	0	0	0	0
24346	Ces1c	0	1	5	1	0	0	0	0
362629	Il22ra1	0	2	2	3	0	0	0	0
685849	LOC685849	1	1	2	3	0	0	0	0
24856	Ttr	31	2	35	1	3	1	1	0
300054	Foxh1	0	2.43	1.16	2.45	0	0	0	0
114105	Cxc12	0	0	0	6	0	0	0	0
25110	Klrd1	4	2	3	3	1	0	0	0
103691013	LOC103691013	0	2	1.93	2.06	0	0	0	0
679149	LOC679149	9.74	2	10.01	1	1	1	0	0
108348195	LOC108348195	1.33	2.94	1.36	0	0	0	0	0
103690061	LOC103690061	0	1.33	0	4.23	0	0	0	0

260324	Ly49i2	1	1.4	3	0	0	0	0	0
689484	Frg111	4.06	0	0	0	0	0.38	0	0
100910107	LOC100910107	2.14	2.14	1	0	0	0	0	0
102551539	LOC102551539	0	0	0	12.3	1.2	0	0	0
286914	Vom2r27	1.03	1.98	2	4.99	0	0	0.99	0
100912038	LOC100912038	3	2.03	0	0	0	0	0	0
102552324	LOC102552324	1	2	1	1	0	0	0	0
24620	Reg3g	0	0	5	0	0	0	0	0
24933	Klra22	2	1	1	1	0	0	0	0
299279	RGD1565462	0	1	1	3	0	0	0	0
305840	Rnase10	1	0	0	4	0	0	0	0
366568	Slc30a3	4	0	5	1	0	0	1	0
494210	Ly49i7	0	1	3	1	0	0	0	0
503651	Klri1	3	1	1	5	0	1	0	0
300303	LOC300303	2.97	0	0	0	0	0	0.26	0.05
500338	Klrc3	6.53	5	2	5	0	1	1	0
60333	Msln	0	39	371	12	3	10	29	4
100912262	LOC100912262	0	19.82	0	14.9	0	0	3.84	0
103692449	LOC103692449	0.66	0	0.79	1.83	0	0	0	0.41
302964	Bicd12	2	1	4	1	1	0	0	0
108352634	LOC108352634	9.33	0.35	12.62	0.02	0.27	0.19	0.33	2.01
100911251	LOC100911251	4	4	4	3	0	0	1	1
319105	Taar8c	0	0	2	0	0	0.27	0	0
100912019	LOC100912019	0	3.9	8.3	5.27	1.57	0	0	0.8
289926	RGD1565725	0	3	3	1	0	1	0	0
294197	Olr1743	1	2	2	2	0	0	1	0
498109	Polr2h	47.42	154	107.59	167	0	25.42	51.42	0
295041	Stoml3	4.89	3.86	23.2	6	0	1.01	2.04	3.11
100909830	LOC100909830	16.08	0	10.72	5.36	5.36	0	0	0
100911818	LOC100911818	1	0	3	2	0	1	0	0
29680	Cyp11a1	3	0	1	2	0	1	0	0
364680	Barx1	1	3	0	2	0	0	1	0
366035	Wdr38	1	2	3	0	0	0	0	1
367944	Zic3	2	1	1	2	0	0	0	1
100364561	LOC100364561	0	4.02	0	2.01	1.01	0	0	0
293347	Gvinp1	1.31	3.21	3	0	1.26	0	0	0
100909439	LOC100909439	10.79	0	0	5.06	0	0	0	2.68
100911156	LOC100911156	0	0	2.76	0	0.5	0	0	0
304954	Uap112	9.56	24.79	5.52	24.76	0	0	0	11.74
315294	Wnt10b	2	2	18	0	1	2	1	0
100910678	LOC100910678	32.83	10	0	12.89	0	0	0	10.19
100360880	Fosb	44	29	33	621	37	44	32	20
690082	LOC690082	4.08	0	0	0	0	0	0	0.81
100365810	LOC100365810	0	16.87	48.98	27.43	16.78	0.49	1.28	0
100362810	LOC100362810	1	2	1	1	0	1	0	0
171371	Xcl1	3	1	0	1	0	0	1	0
289250	Olr1588	1	0	1	3	0	0	0	1
29531	Hpd	1	0	3	1	0	1	0	0
297698	Erp27	5	0	0	0	0	1	0	0
300458	Npsr1	1	0	1	3	1	0	0	0
305999	Nkx3-1	1	2	0	2	0	0	1	0
307556	Ccdc178	0	0	2	3	1	0	0	0
361342	Cplx4	3	1	0	1	1	0	0	0
83790	Cyp2c23	0	2	0	3	0	0	0	1
299656	RGD1560291	1	2.84	4	4	0	0	2.39	0
108349682	LOC108349682	0	70.6	72.25	36.12	36.13	0	0	0

100911168	LOC100911168	0	6.31	15.23	13.4	3.04	0	0	4.09
502301	Vom2r36	1	3	0	0.82	0	1	0	0
100909443	LOC100909443	0	2.62	0	6.25	1.87	0	0	0
499322	Fam111a	37	32	50	542	35	39	36	31
25453	Gdnf	1	4	20	3	0	1	3	2
108350810	LOC108350810	0	0	3	1.65	0	1	0	0
100912070	LOC100912070	0	5.04	13.5	1.75	0.63	1.18	2.58	0
406159	Btnl7	2	1.45	1	2	0	0	1.4	0
494206	Ly49sil	51.29	2.1	7.46	9.5	3.61	1.17	4.4	6.18
102553785	LOC102553785	7.67	2.84	3.03	0	0	0	1	2
499886	LOC499886	4.64	3.71	0	3.31	1.51	0	1.08	0
29183	Areg	4	1	2	2	1	0	1	0
29683	Klrc1	2.47	0	2	0	0	0	1	0
100911728	LOC100911728	2.65	1.16	1.22	1.68	0	0	0	1.51
360649	RGD1359290	372.23	159.41	151.03	128.78	0	1.36	0	183.14
287562	Ccl12	9	6	7	4	1	2	0	3
501741	RGD1565046	2.12	6.15	7.2	3.48	0	2.41	1.98	0
292918	Otog	5.24	0	1	2.01	0.04	1.15	0.73	0
290209	LOC290209	2.08	3	1.47	3.79	1.18	0	0	1.24
103690198	LOC103690198	3.91	2.9	2.99	6.9	1.56	1.99	0.38	0
690784	LOC690784	1.03	1	1.03	1.16	0	1	0	0
103690084	LOC103690084	1.08	2.2	7.5	7.61	0	1.09	2.17	1.1
304197	RGD1564571	1	3	12	5	0	1	4	0
100360950	LOC100360950	0	2.14	4.61	2.15	1.24	0	0.89	0
102549227	LOC102549227	0	2.4	2.13	0	0	0	0	1.09
116637	Ccl14	8	3.33	4	5	0	0	1	4
100909671	LOC100909671	0	2.52	2.39	0	0	0	0	1.21
102550845	LOC102550845	0	0	1.45	4.23	0	0	0	1.41
302676	RGD1564836	0	2.01	1	1	0	1	0	0
100359930	LOC100359930	0	1	0	3	0	1	0	0
102551168	LOC102551168	2	0	1	1	1	0	0	0
102557108	LOC102557108	1	3	1	3	1	0	1	0
103692315	LOC103692315	2	1	3	2	0	1	1	0
103694885	LOC103694885	1	2	0	1	0	0	1	0
108348236	LOC108348236	0	1	1	2	0	0	1	0
108353019	LOC108353019	1	0	3	0	0	0	0	1
287480	Olr1466	1	2	1	0	0	1	0	0
294196	Olr1742	3	0	1	0	0	0	1	0
297894	Matn1	1	0	1	2	0	0	0	1
303817	RGD1560559	3	0	0	1	0	1	0	0
306307	Rgr	0	1	2	1	0	0	1	0
309583	Olr1733	1	1	0	0	0	0.5	0	0
315451	Muc16	0	2	1	1	0	1	0	0
367032	Olr1193	0	7	1	0	0.5	1	0	0.5
405142	Olr804	1	3	0	0	0	1	0	0
499660	Sprrla	0	2	2	0	1	0	0	0
500245	Bmp10	3	1	0	0	0	0	1	0
500359	RGD1561551	2	1	0	1	0	1	0	0
501177	Gpr55	2	7	1	2	1	0	1	1
64573	Trpc2	2	0	1	1	0	1	0	0
680315	Fsip2	0	1	2	1	1	0	0	0
680523	Tmem236	2	3	4	3	1	1	0	1
682837	Muc5ac	0	2	2	0	0	0	1	0
686106	Ccdc144b	1	2	1	0	0	1	0	0
103694586	LOC103694586	0	4.68	21.75	0	0	0.31	6.31	0
102553148	Cfap58	0	0	1.48	0.5	0	0.5	0	0

309467	Ccdc147	0	0	1.48	0.5	0	0.5	0	0
362935	Ly6al	2	1.03	1	0	0	1.02	0	0
103690008	LOC103690008	0	1.97	4.16	10.07	2.41	0	1.87	0
100910308	LOC100910308	125.14	238.42	200.84	172.79	0	100.3	94.96	0
494207	Ly49si2	5.52	5.77	16.49	6.61	0	4.77	1.72	2.66
100910243	LOC100910243	0.15	0	1.64	1.02	0.75	0	0	0
54242	Cpa3	10	57	199	32	21	14	34	11
108351097	LOC108351097	173.69	133.17	3013.9	146.25	254.8	441.1	152	92.38
303886	Muc20	6	2	3	0	2	1	0	0
309225	Olr337	1	4	4	2	0	0	2	1
103690049	LOC103690049	2.29	0	5.7	1	0.93	0	1.53	0
681126	Krt83	3	0	3.23	1	1	0	1	0
100910750	LOC100910750	8.2	2.96	8.35	11.57	0	0	3.05	5.73
100909897	LOC100909897	0	4	3.01	0	2	0	0	0
25305	Cort	1	1	3	2	0	1	1	0
296846	Hepacam2	4	2	0	1	0	1	0	1
100910095	LOC100910095	0	0	1.01	1.01	0	0	0	0.58
690680	Vom2r15	0	0	2.78	1	0	0	0	1.09
689790	Clec2d11	3	8.83	32.18	4.94	0	5.12	3.3	5.71
100912499	Lilra3	9.89	10.92	0	0	0	6.02	0	0
684526	LOC684526	0	0	0	1.41	0.41	0	0	0
100912642	LOC100912642	1	1	1	8.14	0	0	0	3.28
303782	Vpreb1	4.52	4.52	12	4	4.88	0	0	2.53
192267	Obplf	3.07	2	2	2.95	2	0	0	1
100912379	LOC100912379	0	4.81	0	6.69	0	3.45	0	0
25680	Clps	0	5	3	2	1	0	2	0
289515	Epgn	4	1	5	0	0	1	2	0
29165	Gzmk	4	1	2	3	1	1	0	1
310611	Pglyrp4	1	4	4	1	0	1	1	1
502585	Cd160	3	2	3	2	0	1	1	1
171118	Ces2c	0	6	3.99	0	1	2	0	0
288398	RGD1562451	0	0	1.98	2.59	0	1.38	0	0
24828	Hist1h2aa	0	2.39	0.95	3.71	0	0	2.14	0
108352834	LOC108352834	3	0	0	0.26	0	0	1	0
100910915	LOC100910915	1.95	3.67	3.82	3.39	0	1.97	1.97	0
306748	Cxcl14	53	183	508	33	33	126	55	26
497084	Spetex-2B	0.52	0.11	1.6	0.6	0	0	0.89	0
365807	Vom2r47	0	1.05	2.07	0.98	0	0	1.3	0
108348150	LOC108348150	14.79	53.94	14.42	13.02	15.91	0	14.72	0
100910579	LOC100910579	0	1.03	1.73	2.8	0	0	0	1.78
102556085	LOC102556085	5.26	3.65	5.1	4.79	0	0	4.99	1.06
100911090	LOC100911090	133.82	67	70.63	0	0.01	0	88.17	0
498067	RGD1565472	10.92	7.01	5.61	8.91	3.75	3.21	3.6	0
292615	Vom2r35	0	0	0.31	2.76	1	0	0	0
108348438	LOC108348438	10.99	18.42	15.94	13.8	0	1	0	18.48
405976	Olr1254	0	1	0	0	0	0.33	0	0
751812	Ras12-9	1.09	0	0	2.17	0	1.08	0	0
103690165	LOC103690165	0	1.3	1.29	1.29	0	0	1.29	0
498169	RGD1561730	7.68	17.63	32.46	5.33	7.81	0	5.03	8.16
103689998	Nupr111	10.05	0	0	20.11	0	10.05	0	0
100360197	Rad51ap2	0	1	2	0	0	0	0	1
100365184	Prdm14	1	2	0	0	1	0	0	0
100912573	Ms4a6e	0	20.65	41.3	0	0	0	0	20.65
102552016	LOC102552016	2	0	2	2	1	0	0	1
102553208	LOC102553208	2	0	1	0	1	0	0	0
103690566	LOC103690566	1	0	2	0	0	0	0	1

108349482	LOC108349482	3	1	5	3	0	2	0	2
108349722	LOC108349722	0	3	0	0	0	1	0	0
116562	Ii2	2	1	0	0	1	0	0	0
246073	Foxi2	1	0	1	1	0	0	0	1
24835	Tnf	0	3	5	10	0	0	2	4
25569	Trh	0	2	1	0	1	0	0	0
25593	Hcrtr1	3	1	3	5	0	0	4	0
266708	Gzma	1	0	2	0	0	1	0	0
288602	Ervfrd-1	0	4	2	3	2	1	0	0
290227	Rec8	1	0	2	3	0	1	0	1
290338	Adamdec1	2	1	0	0	0	0	1	0
292848	Klk13	0	2	0	1	0	0	0	1
293594	Olr292	1	2	0	0	0	1	0	0
294793	Ugt3a2	2	1	0	3	1	1	0	0
301088	Ccr111	0	2	1	0	0	0	1	0
304784	Slc26a9	2	0	1	0	1	0	0	0
310303	Kcnmb3	2	1	0	0	1	0	0	0
311558	Bpifb6	2	2	2	0	0	2	0	0
315601	Foxr1	2	3	1	0	0	0	1	1
360268	Sult1e1	0	3	0	0	1	0	0	0
360719	Hgd	4	0	3	2	1	1	0	1
362576	RGD1305347	0	2	1	0	1	0	0	0
362623	Catsper4	2	1	1	2	0	2	0	0
365384	Olr286	0	2	1	0	0	1	0	0
502961	RGD1559679	0	0	1	2	0	1	0	0
54282	Padi1	0	3	0	0	0	0	0	1
683282	LOC683282	2	0	0	1	1	0	0	0
685666	Vom2r9	1	0	2	0	0	0	0	1
690212	Slc16a5	0	1	1	1	0	0	1	0
691033	LOC691033	0	1	0	2	0	0	0	1
78976	Kiss1r	1	2	2	1	2	0	0	0
81924	Cyp8b1	1	0	1	1	0	0	0	1
83630	Pax4	0	2	1	0	0	0	0	1
100910172	LOC100910172	1.97	1.98	1	1	1	0	0	1
691998	Nlrp1b	2	0	1.03	0	0	0	0	1.02
100361056	LOC100361056	3.13	2.25	3.27	4.5	1.16	1.15	1.08	1.1
103690132	Hoxa1	3.56	3.42	3	0	0	2.84	0	0.57
25192	Klrb1b	5	0	1	3.62	0	1	1	1.3
108349143	LOC108349143	3.53	0	7.87	8.15	3.77	0	0	2.99
100909648	LOC100909648	1.34	1.34	0	2.67	0	1.85	0	0
59113	Kmo	5	4	16	1	2	3	4	0
102546312	LOC102546312	1.12	1.06	0	1.08	1.13	0	0	0
100912336	LOC100912336	3	10	10	0	0	0	6	2
687560	LOC687560	6	3	9	5	0	3	3	2
305811	Rcor2	120.85	0	34.31	61.02	0	48.86	0	26.37
502966	RGD1560539	2.3	2	0	2.3	0	2.3	0	0
103694886	LOC103694886	2.37	3.88	2.97	12.38	0	2.2	2.63	2.72
687553	Foxl1	5	4	4	7	1	1	2	3
100360307	Fam83g	4	3	5	5	0	3	1	2
679784	Slc17a4	6	4	3	4	1	2	0	3
304407	Cldn4	5	3.06	5	1.04	1	2	1.04	1
363215	Prss39	5	7	1.77	3	0	0	1	5
309209	Vwce	9.53	8	20.59	16.6	0	8.58	4.19	6.89
305858	Otx2	10.63	17.15	13.18	18.45	5.14	5.33	4.09	6.92
685860	Lrr1	2	2	7	0	0	1	3	0
288456	RGD1560801	1	0	0	1.72	1	0	0	0

685245	Ears211	13.86	0	22.85	18.49	12.32	8.19	0	0
108353403	LOC108353403	9.23	1.58	14.55	2	3.25	1.05	3.3	2.58
366992	Kb15	3	4	2.04	2.03	2.14	0	2	0
103693626	LOC103693626	1.99	0	5.97	0	0	0	2.98	0
24235	C4bpa	2	1	4	1	1	2	0	0
288596	Trim50	3	2	1	2	1	1	0	1
363768	Zp1d1	4	2	1	1	0	2	1	0
494193	Klra2	1	6	1	0	0	1	1	1
685963	LOC685963	60.5	60.7	78.04	69.37	0	40.47	20.23	40.47
108352618	LOC108352618	4	5.1	6.65	2	4.38	2.33	0	0
364629	Tpte2	2.55	4.51	4.55	4.5	0	0	1.49	4.64
100360774	LOC100360774	2.65	0	0	0	0	0.53	0.48	0
301595	Ugt1a8	17.21	8.61	7.34	8.17	0	10.57	0	5.26
498335	Cxcl13	84	95	272	64	42	36	52	68
289337	Tlr5	20	49	162	29	14	29	48	9
25370	Adora3	2.35	0	3.63	8.49	3.12	0	1.31	1.16
300124	Pkdrej	4	6	5	3	2	0	0	5
365962	Slc44a5	1	4	9	4	1	1	2	3
691519	LOC691519	10.35	12.6	17.96	16.61	4.11	10.04	5	3.22
102550614	LOC102550614	3	1	4	3	0	2	0	2.28
100360872	Mcpt111	39.98	166.97	502.98	97.99	44.94	80	130.9	60
308428	Irgc	4	9	5	5	1	1	5	2
108352174	LOC108352174	1.08	1.37	3.78	2.04	1.08	2.16	0	0
292850	Klk10	0.78	0	0	1	0.7	0	0	0
108352465	LOC108352465	19.4	13.3	15.32	8.83	4.7	6.59	1.65	9.6
108349728	LOC108349728	3.44	1.42	0.33	4.05	2	0	0	1.67
100911485	LOC100911485	22.53	38.66	7.48	7.02	7.69	7.61	0	14.86
680920	LOC680920	4	6.37	2.41	2.76	0	2.95	2.25	1
102547118	LOC102547118	3	0	2	0	2	0	0	0
170570	Acot12	4	3	2	1	2	0	1	1
245921	Acvrlc	0	0	0	5	0	0	2	0
25430	Dio1	0	3	0	2	0	2	0	0
25735	Hnf4a	3	1	1	0	0	0	0	2
289038	Mgat4e	1	8	1	5	3	1	2	0
291558	RGD1562699	2	2	1	0	1	0	0	1
29180	Uts2	1	4	10	5	2	3	3	0
293741	Ms4a12	3	6	12	4	2	0	4	4
29589	Pou3f4	2	1	1	1	0	0	0	2
296323	Arhgap40	2	1	0	2	0	1	1	0
298881	Nt5c1b	1	0	2	2	1	0	1	0
353218	Tnfsf9	2	6	9	3	0	4	3	1
66022	Kcns2	3	7	3	2	2	2	1	1
680875	LOC680875	1	0	1	3	1	1	0	0
681033	Prss41	5	2	0	3	1	1	1	1
85259	Cngal	1	1	2	1	2	0	0	0
288995	Gpr39	1	0	1.49	0	0	0	0	1
289309	Kif28p	2.02	0	0	3	0	0	1	1.02
353303	Col23a1	0	0	0	11.1	4.47	0	0	0
170847	Kcnj15	100.02	62.03	221.58	197.67	43.84	36.02	78.82	76.37
685181	LOC685181	1.98	4	4.25	0	0	1.56	0	2.58
59327	Twist2	25	29	54	22	5	12	18	18
686129	LOC686129	0	1.42	0	0	0	0.58	0	0
102547956	LOC102547956	1.04	4.65	3.04	2.29	0	1.52	1.52	1.48
304922	Fmo6	6.04	4.24	1.04	1.01	0	0	4.05	1.01
103689957	LOC103689957	10.99	7.03	5.59	12.45	9.45	0	2.8	2.58
170896	Ucn2	0	4	11	2	3	3	1	0

303496	Tbx21	4	4	4	5	2	4	1	0
301012	Col7a1	24	26	126	13	14	25	21	18
316153	Sult1c2a	0	2.41	0	0	1	0	0	0
315870	Tbx18	144	182	369	245	57	74	165	95
102547504	LOC102547504	4	2	3	3	0	3	1	1
94168	Spp2	7	3	1	1	1	2	1	1
689519	LOC689519	4.3	5	5.15	3.06	0	2.21	5.1	0
103691744	LOC103691744	9.04	25.31	16.71	7.94	9.11	9.94	0	5.91
103690230	LOC103690230	2	0	5.03	5.49	3.25	0	1.04	1.03
689346	LOC689346	1	0	1.35	0	1	0	0	0
192107	Prss8	3.11	6.23	3.09	2.09	0	3.11	2.06	1.04
108348553	LOC108348553	7	7.75	4	9.79	3.01	3	1.51	4.7
246758	Allc	1	2	3	1	1	2	0	0
292165	Wdr63	1	1	0	5	0	1	2	0
294562	Pou5f1	2	8	3	1	2	1	1	2
301075	Topaz1	2	3	2	0	2	0	1	0
315190	Upk3a	6	5	0	3	0	0	0	6
365226	Ovol3	5	2	6	1	2	0	1	3
365362	Abca14	3	2	1	1	0	2	1	0
499278	Fam24a	1	2	1	3	3	0	0	0
361938	Intu	6.68	3.69	9.85	7.86	5.47	1.11	0	5.46
102553715	LOC102553715	0	55.96	55.96	74.61	0	24.2	18.65	37.3
100910018	LOC100910018	0	0	4.98	0	1.22	0.92	0	0
310738	Ngf	18	10	46	40	2	6	18	23
691194	Mrgprb3	4.02	10.47	18	5	2.02	5.03	6.04	3.03
24695	Pthlh	23	8	29	12	5	8	9	9
685125	LOC685125	0	0	1.41	1.04	0	1.06	0	0
311120	RGD1565767	2	2.08	0	2.2	2.72	0	0	0
108352192	LOC108352192	1	0	2	0	1	0	0	0.3
102550375	LOC102550375	2.01	3.04	3.01	8.06	0	4	2	1
103690398	NEWGENE_1565505	8	3	8	4	3	3	4	0
108349753	LOC108349753	3	7	5	8	5	3	1	1
100911964	LOC100911964	1.3	0	0	1.16	0	0	1.07	0
690171	LOC690171	4.26	3.06	1.87	1.69	1.82	2.25	0	0.68
103690344	LOC103690344	0	0	0	2.31	0	1.01	0	0
311013	Arsj	8	6	19	8	2	3	7	6
246075	Prlhr	8.31	12.16	4.58	1	2.55	1.04	4.64	3.21
688900	Slfn1	24.03	16.73	20	12.38	11.5	7.11	7.34	6.21
50669	Prf1	6	6	6	7	2	1	5	3
114122	Vcan	157	467	1107	239	139	224	342	162
102555951	LOC102555951	0	0	18.57	9.8	0	0.24	0	12.26
60584	Lif	7	5	22	9	7	5	5	2
362443	Klrbla	7	4	3	3.38	2	0	1	4.7
103690099	LOC103690099	0	4.14	5.38	7.4	0	0	0	7.5
25660	Cd28	17	20	29.07	30.98	9	9.03	9.01	16
25656	Guca2a	4	2	1	2	0	1	2	1
501738	Cd300lb	0	4	4	1	0	0	3	1
25583	Cryba1	2	3	4	5	3.26	3	0	0
25661	Fn1	2436	5396	18430	4833	2076	4806	4275	2753
287813	Igsf7	23.41	26.86	71.57	31.49	13.14	6.5	28.41	20.58
100912132	LOC100912132	0	4.33	0	0	1.94	0	0	0
292793	Sbsn	31	112	253	63	38	78	61	30
29220	Thbs4	1071	1624	3045	1435	486	772	1587	391
293779	Glyat	7.04	4.05	6.88	8.05	2.99	2.01	1.76	5.02
353253	Kir3dl1	0	1	0	1.27	0	0.03	0	1
140944	Slc28a3	1	2	2	6	1	2	1	1

25047	Fcer1a	1	3	6	1	3	2	0	0
29391	Tsx	2	5	2	2	0	2	2	1
300846	Tinag	2	4	4	1	1	4	0	0
690479	Bpifb5	51	100	93	79	2	52	89	4
298478	Olr869	1.5	3.87	1	1.31	1	1	0.5	1
360707	RGD1310935	1	2.45	0	1.93	1.62	0	0	0.84
100911660	LOC100911660	30.32	38.47	26.38	31.84	20.35	13.52	10.64	13.77
103690044	LOC103690044	0	1.23	1.33	0	1.18	0	0	0
286912	Krt20	4	3	3	3	3	0	3	0
304918	Zbtb37	5	10	7	17	4	0	8	6
685440	Nek5	5	2	5	1	2	0	3	1
690948	LOC690948	6.78	4.36	38.31	0	16.99	0	5.86	0
103690125	NEWGENE_1590969	2.42	3	2	3.34	0	1	1	3
683163	Tnfsf8	2	6	5	2	3	2	1	1
685157	LOC685157	24.59	38.59	36.18	23.32	36.56	0	1.43	19.29
108348270	LOC108348270	0	3.63	1.53	4	2.25	2.04	0	0
100910180	LOC100910180	0	0.32	0	0	0	0	0.15	0
362445	Clec2d2	13.85	6.18	4.18	9.6	6.49	1.01	1	7.36
308099	Fndc1	209	433	1298	294	147	287	393	225
25542	Ccl3	7	6.67	7	9	1	1	4	8
25694	Has2	53	91	111	50	28	34	46	36
25627	Cma1	9	25	78	19	12	21	22	7
108352430	C12H7orf61	4.41	4.41	4.41	10	0	4.41	4.41	2.21
103690078	LOC103690078	0.86	0	0	2.34	0	1.07	0	0.45
310926	LOC310926	134.3	118.83	1126.1	107.75	183.2	288.9	142.1	92.61
366545	Atp6v1e2	3	7	5	6	3	1	3	3
501183	Rbm44	5	6	3	7	2	3	2	3
405968	Olr1105	8	6	12	18	0	5	7	9
108351574	LOC108351574	3.19	5.5	19.74	9.21	4.64	0	4.13	9.22
102552860	LOC102552860	14.2	5.05	17.79	15.58	11.33	7.31	6.51	0
292777	Tbc1	43.6	30.91	12.5	43.34	6.21	31.25	18.69	6.19
362262	Emilin3	10	19	22	20	8	6	14	6
25292	Apoc1	0	0	2.85	5.5	0	3.5	0.5	0
363071	Stra6	60	61	256	126	36	33	77	95
314467	Rd31	8	7	3	7	4	1	5	2
367264	Stat4	14	17	8	13	6	6	4	9
311783	Il36rn	2.17	1.99	6	1.08	2	0	1	2.41
309775	Nepn	18	19	8	9	10	5	8	3
681124	Dnase112	6.81	5.72	3.07	1.8	3.32	2.08	1.34	1.65
679564	Lypd6	8	8	6	7	3	6	3	2
497856	Rmi2	5	9	11	8	3	5	4	4
266771	Vomlr90	9.99	6.57	5.09	3.55	3.93	1.82	2.7	3.79
501028	RGD1560917	7.04	7.1	5.33	8.79	9.84	0.91	0	2.98
102547294	Iqcn	15	17	34	16	10	11	9	10
25253	Dpp4	161	201	573	173	69	110	225	137
287131	Ccdc154	2	6	10	5.14	3	2.26	2	4.04
84007	C3ar1	59.4	73	137.15	66.07	21.4	26.97	42.59	73.04
689757	LOC689757	3	2	6.55	2	0	1	2.67	2.96
500224	Lbx2	0.41	1.41	3.71	0	0	2.71	0	0
313019	Tent5b	10	9.24	14.91	26.09	8	10.94	5.98	4.62
103690024	LOC103690024	8.98	6.98	3.5	2.07	2.85	0.01	0	7.71
108349825	LOC108349825	1.22	0	0	1.22	0	0	0	1.2
306079	LOC306079	5.54	2.11	2.62	3.17	1.35	1.06	1.05	3.16
501031	RGD1560775	30.2	18.15	20.58	32.38	20.97	14.32	6.21	8.41
102553500	LOC102553500	1	0	2	1.05	1	0	0	1
102553456	LOC102553456	1.11	1	0	2	0	1.03	1	0

304729	Gli2	72	57	76	84	33	38	36	36
108348191	LOC108348191	0	0	2.97	2.38	0	1.51	1.14	0
305431	Stk32b	47	64	76	47	20	30	29	37
681871	LOC681871	1	4	1	2.06	2	2	0	0
287561	Cc17	34	36	42	79	17	13	31	34
103693367	LOC103693367	0	0	1.11	3.36	0	1.06	0	1.17
100912450	LOC100912450	111.59	32.4	19.28	61.74	8.03	28.72	30.84	44.84
100911615	LOC100911615	0	550.63	0	0	0	0	0	275.31
100328908	Zfp831	5	1	1	5	3	1	1	1
100359775	Bpifa6	0	1	1	0	1	0	0	0
100361314	Prr9	1	0	0	1	0	0	1	0
100361371	Smco2	1	0	0	1	1	0	0	0
100365683	Nr2e3	1	1	2	0	0	0	2	0
100909643	LOC100909643	1	0	0	1	0	1	0	0
100909960	LOC100909960	0	0	2	0	0	0	0	1
100911044	LOC100911044	1	3	0	0	0	0	0	2
100911639	LOC100911639	0	1	0	1	1	0	0	0
100912524	LOC100912524	0	0	0	2	0	0	0	1
102547412	LOC102547412	0	0	0	2	1	0	0	0
102548161	LOC102548161	3	1	3	3	1	1	1	2
102551309	LOC102551309	1	0	0	1	0	0	0	1
102554838	LOC102554838	0	4	2	0	0	0	0	3
102554931	LOC102554931	0	0	1	1	1	0	0	0
103689938	LOC103689938	1	1	2	0	0	0	1	1
103690003	LOC103690003	0.04	0	0.04	0	0	0	0.04	0
103690116	LOC103690116	0	0	1.69	1.69	0	0	0	1.69
108349946	LOC108349946	0	1	1	0	1	0	0	0
108349954	LOC108349954	0	2	0	0	1	0	0	0
108351843	Vsig1012	0	1	1	0	0	1	0	0
108352945	LOC108352945	0	2	0	0	1	0	0	0
117232	Barhl1	0	3	2	1	2	0	1	0
117518	Cc117	1	1	0	0	0	0	1	0
140936	Rcvrn	1	1	0	0	0	0	1	0
171028	Atp12a	0	1	0	1	0	0	0	1
171179	Glyat12	1	0	0	1	0	1	0	0
171496	Atp2c2	2	2	2	2	1	1	0	2
171528	Gzmb	0	1	7	0	0	2	2	0
24217	Atp4b	1	0	0	1	0	0	0	1
24792	Agxt	0	1	0	1	0	0	1	0
24903	Kng2	1	1	2	0	0	2	0	0
25086	Cyp2e1	3	2	1	2	3	1	0	0
25206	Gucylb2	1	1	0	0	1	0	0	0
252859	Mlnr	1	7	6	0	0	6	0	1
25483	Msx2	0	0	2	0	1	0	0	0
25658	Gckr	4	1	4	3	3	1	1	1
25726	Mc5r	5	6	9	8	2	5	5	2
286976	Gcnt3	0	3	1	0	1	1	0	0
289533	Ugt2a3	0	1	0	1	0	0	0	1
289720	Psap11	0	1	2	1	1	0	1	0
290055	Olr1644	0	0	1.02	1	0	0	0	1.01
291754	Dsg4	0	1	2	1	0	0	1	1
291846	Prss54	0	0	0	2	0	1	0	0
293197	Olr40	1	0	1	0	0	1	0	0
29323	Slc6a18	0	0	0	2	0	0	0	1
293305	Olr159	0	0	2	0	0	0.5	0.5	0
29646	Adh4	2	1	4	3	0	1	1	3

299829	RGD1559995	3	2	3	0	3	0	1	0
304990	Olr1595	0	1	0	1	0	0	1	0
306365	Potem	1	0	1	0	0	0	1	0
308190	Cyp26c1	1	0	4	1	3	0	0	0
312316	Dox11	27	8	11	2	8	6	7	3
313149	Cfap221	0	2	0	0	1	0	0	0
313152	Ifnk	1	0	0	1	0	0	0	1
313545	Tmem125	2	1	4	1	2	1	1	0
315947	Nme9	0	0	0	2	0	0	1	0
317221	Rtl3	3	8	11	10	3	6	2	5
360486	Linc00514	0	1	1	2	2	0	0	0
361412	Adamts18	7	10	6	3	6	3	1	3
361707	Tsgal0ip	17	11	17	21	7	6	14	6
362604	Tlr12	10	5	4	5	2	4	5	1
363993	Gpr25	3	1	0	0	2	0	0	0
364304	Rnase1	1	0	1	0	0	0	1	0
364729	Nme8	0	1	0	1	0	1	0	0
364973	Best2	1	0	0	1	0	0	0	1
365564	Atoh7	1	0	1	0	0	0	1	0
405038	Olr312	2	0	0	0	0	1	0	0
405207	Olr837	0	3	0	5	1	3	0	0
405216	Olr1104	0	1	0	1	0	1	0	0
494499	Gsta5	4	2	0	0	0	0	1	2
497651	Rnase11	1	1	0	0	0	0	0	1
497970	Heatr9	0	1	0	1	0	0	0	1
498275	Fcrlb	1	1	2	2	1	1	1	0
498943	RGD1561415	2	1	0	1	0	1	1	0
499000	Zdhhc11	4	1	3	2	1	1	0	3
499721	Clca41	2	1	1	0	0	0	1	1
500409	Esrp1	0	1	1	0	0	1	0	0
500513	RGD1562532	2	0	0	0	0	0	0	1
500598	Tnfrsf18	2	0	2	6	2	1	2	0
501084	RGD1559960	1	0	0	1	0	1	0	0
57305	Uts2r	0	1	0	1	1	0	0	0
641640	Defb36	3	1	1	1	1	1	1	0
64621	Akp3	1	0	1	0	0	1	0	0
65050	Barhl2	1	1	0	0	0	0	1	0
65132	Cldn7	1	1	0	0	0	0	0	1
679834	Meig1	1	0	0	1	1	0	0	0
680620	Pou5f2	0	2	0	0	0	0	0	1
681290	LOC681290	6	3	4	5	0	1	3	5
682006	Tmem247	1	1	0	0	0	0	0	1
684545	Nlrp2	1	1	0	0	0	0	1	0
685227	Wfdc11	2	0	0	0	0	1	0	0
686140	Fam47e	0	2	2	0	0	0	1	1
687403	Acp7	0	0	0	2	0	1	0	0
687866	Myo1h	1	1	0	0	0	0	0	1
688389	LOC688389	2	0	0	0	1	0	0	0
688750	Cd209f	2	2	0	0	0	0	2	0
689437	LOC689437	0	0	0	2	0	0	0	1
689524	Wdr64	1	1	1	3	2	0	1	0
690227	Vom2r77	0	1	0	1	0	0	0	1
691352	LOC691352	0	2	0	0	1	0	0	0
691693	LOC691693	0.96	0	0.96	0	0	0	0.96	0
691982	Tmem95	4	3	2	3	1	4	0	1
78974	Six3	1	0	0	1	1	0	0	0

291615	Pabpc2	5	6	10.9	4	3	3	3	4
503122	Cyp4f40	0	0	1.14	1.23	1.19	0	0	0
362951	RGD1309808	14.79	5.05	7.75	15.76	3.65	3.1	9.68	5.34
103693700	LOC103693700	1.11	0	0	1.1	0	1.11	0	0
108352309	LOC108352309	0	1	1.01	0	0	0	1.01	0
25276	Sycp1	1	0	0	0.99	0	1	0	0
108351325	LOC108351325	0	0	1.72	1.68	1.71	0	0	0
108350933	LOC108350933	7.83	2.9	5.49	0	0.99	0	1	6.21
499413	Hsf2bp	5.97	5	8.63	8	1	6	3	4
83584	Casp6	21.23	36.97	14.02	23.62	13.37	28.38	6.96	0
100363268	LOC100363268	64.22	66.9	0	0	44.75	0	0	21.98
54271	Tpsab1	7	8	31	3	7	5	9	4
292594	Lilrb4	46	28	55	16	17	25	7	25
102555622	LOC102555622	0	2.33	0	0	0	0	1.19	0
25008	Lta	1	0	1.91	1	1	1	0	0
171178	Adh7	8	19	12	4	0	8	4	10
81503	Cxcl1	9	4	1	27	5	5	8	3
103693258	LOC103693258	0	1.11	0	1.17	0	1.17	0	0
108351354	LOC108351354	1	3	2	1.97	1.02	2.07	0	1
108348142	LOC108348142	35.82	41.55	18.66	25.02	10.6	13.08	20.69	17.91
102552889	LOC102552889	19.63	8.58	7.09	13.17	7.32	4.41	7.45	5.76
103693048	LOC103693048	7.5	3.5	3.5	2.66	3	0	1.83	4.01
100910117	LOC100910117	7.98	15.83	8.66	10.04	6.29	2.85	12.83	0
102546376	LOC102546376	16.75	14.79	5.96	9.1	5.63	6.36	9.32	2.79
103694543	LOC103694543	0	0	3.38	1.12	0	1.14	1.19	0
299685	Bpifc	5.24	16.94	8.54	7.37	4.33	3.52	8.38	3.51
108348094	NEWGENE_1306399	106.18	119	116.27	107	0	58.5	105.9	68
102548194	LOC102548194	1	2	3	2	2	0	1	1.15
365395	Clcf1	16	17	56	17	9	13	20	13
499377	Plekhs1	6.65	5.94	6.91	5.95	0	7.44	1.18	4.6
303148	Slc36a3	1.01	3.02	3.02	1.01	0	1.18	1	2.01
100910264	LOC100910264	1.13	0	0	1.12	0	1.17	0	0
103690020	LOC103690020	39.34	40.03	27.17	14.42	4.7	10.63	13.44	34.21
310550	Dchs2	15	11	8	14	10	5	3	7
100910669	LOC100910669	31	39.51	53.99	79.73	47.51	20.19	21.95	16.8
100912416	LOC100912416	11.37	16.46	22.2	28.62	4.87	6.27	14.7	15.19
501568	RGD1560207	3	8	6	6	3	3	0	6
192203	Fap	57	71	147	69	26	51	66	37
296499	Dlx2	5	8	6	2	1	4	1	5
498491	Tlr11	8	5	5	3	0	2	3	6
59300	Nat8f1	13.52	10.48	23.85	28.95	5.24	6.99	8.73	19.35
679594	LOC679594	0	3.33	8.21	6.63	2.99	4.03	2.53	0
498894	RGD1560813	0	8.85	0	3.9	0	6.71	0	0
81737	Ntf3	6	5	2	6	1	5	2	2
500534	Ccdc24	7.2	3.07	7.62	3.47	5.42	0	2.5	3.33
286986	Vom2r75	1	3	0	0	1.11	1	0	0
303856	Atp13a5	24	15	16	53	5	4	21	27
679817	Cesla	8	10	10	8	4	3	2	10
501998	Cbln3	10.14	8.09	5.7	5.7	7.59	2.92	1	4.14
103690038	LOC103690038	0	0	91.29	220.96	0	0	0	164.99
291555	Atp8b1	54.74	57.74	124.35	71.83	29.96	50.34	47.34	35.47
108351613	LOC108351613	1.09	0	1.42	1.95	0	1.26	1.1	0
688996	Kcnk16	27	6	5	11	5	3	11	7
24237	C6	43	36	223	22	34	36	58	44
25194	Gnrh1	9	7	11	5	3	0	7	7
361873	Cxadr11	4.01	1.33	2.22	6.16	1.16	2.15	1.6	2.38

297756	LOC297756	0	2.59	0	2.5	0	0	2.71	0
114768	Uox	3	3	5	4	1	2	3	2
500931	Fam186b	4	3	3	5	3	3	1	1
100911599	LOC100911599	81.31	49.13	72.36	30.6	21.27	39.92	38.02	25.27
81508	Bhmt	12.56	7.91	11.63	12	3.21	4.35	8.46	7.52
103694556	LOC103694556	0.13	0.27	0.38	0.4	0.36	0	0.13	0.14
103694557	LOC103694557	0.13	0.27	0.38	0.4	0.36	0	0.13	0.14
113918	Slc6a20	277.96	121.66	227.73	681.98	44.95	83.45	191.1	381.03
100910720	LOC100910720	0	2.81	10.45	2.87	2.51	2.79	0	3.34
310836	Abca4	13	9	52	10	9	12	12	12
24617	Serpine1	88.47	106.57	311.23	187.04	82.87	123.8	121.1	43.79
29403	Asgr2	78	61	77	60	24	25	54	45
60378	Lypd3	5	19	6	11	3	5	3	11
192262	C1s	1512	1505	2972	1785	632	954	1517	1071
100363289	LOC100363289	15.12	16.14	16.17	19.95	9.74	8.07	9.78	8.65
29132	Atpla4	38.64	20.71	23.25	48.55	13.71	9.03	32.06	15.78
499754	Ccdc183	5	3	3	2	2	2	0	3
680522	Hist1hlb	6	3	3	1	3	2	2	0
316620	Mlph	3	7	11	5	3	4	2	5
690955	Lilrb3b	76.59	115	78.28	7.78	54.7	40.68	16.26	37.92
687345	LOC687345	3.3	5.94	0	11.01	1.05	2.49	5.24	2.13
287140	Prss34	9	10	31	0	1	6	17	3
501416	LOC501416	128.19	124.1	114.94	32.59	53.15	37	53.25	72.72
407756	Btla	22	12	56	8	10	20	16	7
309767	Rsph4a	1.06	0.6	0	2.07	0	0	0	2.02
25553	Slc6a4	12	8	11	17	3	9	3	11
292401	Smoc2	439	373	814	738	279	353	415	237
362119	C5	7	17	11	11	7	9	3	6
102549995	LOC102549995	0	0	0.8	0.8	0.87	0	0	0
498012	Ace3	1	5	5	2	2.01	1	1	3.06
108348047	LOC108348047	97.96	189.62	234.3	121.47	74.68	73.02	89.03	113.41
366270	Edn3	25	22	67	20	13	18	20	22
405224	Olr1587	5	4	4	3	2	2	1	3.72
100361556	LOC100361556	5	3	1	2	1	2	3	0
289236	Vsig8	3	1	2	5	1	1	3	1
296130	Gpat2	4	3	0	4	2	2	1	1
311446	Haol	2	3	3	3	0	2	1	3
315829	Fam83b	2	5	1	3	0	3	1	2
363913	Fzd10	6	5	7	4	2	1	5	4
365402	RGD1566289	3	3	4	1	1	1	1	3
108351831	LOC108351831	9.05	13.1	9.06	11.21	8.06	5.02	3.02	7.04
316018	Rtp3	4	2	2.01	3	1	2	2	1.02
299343	Tdrd9	0	3.48	3.26	2	0	1.14	0	3.64
29142	Vnn1	8	3	12	8	7	4	3	3
685590	LOC685590	54.32	26.75	18.35	76.69	40.59	26.72	15.48	13.79
499949	Apcdd11	4.83	2.07	6.73	4.09	0.99	2.12	6.61	0
501072	Acaalb	1.11	0	1.2	5.69	3.44	0.95	0	0
363677	Gjd3	9	2	2	7	3	3	4	1
102551486	LOC102551486	3	6	7	4	3	5.01	0	3
685394	Ar114epl	9.73	9.05	8.69	15.18	8.21	6.76	5.43	3.08
298579	Pla2g2d	30	52	171	32	25	41	54	37
365855	RGD1563667	3.51	4.7	3	11.45	2.35	3.74	1.18	5.22
494201	Oas1e	1.29	5	4.03	1	2.11	4.13	0	0
108350568	LOC108350568	1.07	4.22	4.17	2.13	0	1.05	2.1	3.25
24470	Hsd3b5	0	1.38	0.92	1.19	0	0	0	1.93
316137	Adgre1	191	279	447	294	107	132	218	213

362741	Pax9	54.98	41	48	83	18	19	52	37
294093	Ankrd22	2	4	3	0	1	3	0	1
680678	Tcf24	3	1	3	2	1	3	0	1
108349232	LOC108349232	4	6	1	6	2	2	2	3.45
103690108	LOC103690108	1216.1	505.68	1452.5	1901.5	480.3	552.1	1225	567.69
102551365	LOC102551365	9	16	31	14	8	8	18	5
689008	Fbn2	68	100	173	120	42	43	87	85
25293	Aqp4	123.58	15.22	65.07	93.74	27	47.54	16.52	75.31
170672	Nphs2	7.34	10.7	10.19	17.88	6.12	7.89	4.13	7.7
305340	Rbm47	17	23	45	22	16	11	13	20
108351322	LOC108351322	11	5	15	17	3	5	14	5
117249	Dnah3	2	4	3	7	2	3	0	4
311956	Wdr86	3	5	4	4	3	0	1	5
313018	Kdf1	1.87	4.67	4.63	0	2.6	0	3.69	0
103690143	LOC103690143	1	0	0	2.55	1	0	1	0
83497	Ocln	100.57	77.2	112.65	130.31	36.74	37.71	80.85	82.14
108349777	LOC108349777	1.16	1.79	1.86	4.35	0	2.89	2.28	0
100909612	LOC100909612	1	1	0	1.54	0	0	1	1
688583	LOC688583	62.87	36.02	62.51	14.79	32.27	21.57	21.79	23.99
102550582	LOC102550582	0	2.01	5.94	6.14	0	0	7.99	0
300718	Sh2d7	14.74	17.46	16.33	9.12	5.82	6.89	6.61	13.38
100909893	LOC100909893	9	8	6	14	6	6	7	2
297584	Clec4a2	12	17	10	5	5	6	5	9
108353009	LOC108353009	5.44	2.45	3.22	1.66	0	2.02	2.85	2.39
108353010	LOC108353010	5.44	2.45	3.22	1.66	0	2.02	2.85	2.39
24186	Alb	15	8	17	11	11	5	7	6
307049	RGD1564062	2.23	4.25	0	6.11	1.76	0	4.27	1.13
304966	Fcgr3a	39	23	52	30	17	21	15	29
684440	Tlr8	58	65	104	61	27	18	61	58
24646	Abcb1b	6.25	21.2	43.07	20.6	7.38	14.86	23.01	6.64
102554231	LOC102554231	0	0	1	7.53	1	0	0	3.86
290681	Nat3	4.04	8	7.02	4	4.09	1	5.1	2.95
108348048	LOC108348048	2637.9	1198.12	3404.3	3956.8	70.28	3358	1492	1459.97
502160	Lvrn	146	173	203	176	70	77	150	101
29252	Gzmm	41	31	23	33	13	12	18	30
25314	Emp1	1098	1363	3017	1229	647	989	1185	1010
102546579	LOC102546579	2	0	3	2	1	1	2	0
102548061	LOC102548061	5	2	3	4	2	1	2	3
24886	Tbxas1	37	43	83	33	21	28	30	33
252898	Acox2	3	4	3	4	2	5	0	1
288322	Lipi	1	0	3	3	1	1	2	0
303236	Odf4	1	1	1	4	0	1	1	2
680246	Tdgf1	2	4	1	0	0	1	3	0
687030	Muc3	4	1	0	2	0	3	1	0
89810	Opnlmw	1	2	3	1	0	1	1	2
89814	Tnfsf4	4	2	4	4	2	3	2	1
302369	Tbx22	8	9	4	7	4	3	4	5
100909441	LOC100909441	914.67	1036.04	752.14	1288.5	0	704.1	731.6	845.69
296510	Sp5	9	3	16	10.49	4	2	4	12
60327	F13a1	153	149	495	84	87	129	170	118
291669	RGD1564574	5	9.01	9.01	12.64	3.39	5.01	6	6.01
114020	Nat8f5	42.78	33.51	31.05	54.84	25.62	13.18	28.32	25.72
296149	Sirpb3	7.03	5.16	6.89	2.26	2.76	4.09	1	4.37
494199	Oas1f	117.32	105.63	68.47	28.48	30.15	37.2	79.4	36.45
501668	Dmrtcla	55.22	40.72	77.1	14.94	34.55	34.23	31.71	7.18
688913	Dcun1d2	263.85	157.64	87.01	212.97	178.2	128.2	107.2	0

303384	Mmp28	37.99	67.72	47.66	57.26	14.19	57.92	29.92	18.72
24370	Foxg1	5.19	5.1	2.92	6.4	0	3.09	5.1	3.06
287136	Prss29	12	22	26	1	4	9	16	6
24190	Aldob	11	8	8	6	6	3	4	6
679787	Clec5a	67.01	39.57	66.17	68.6	35.09	29	42.72	32.21
103691544	LOC103691544	0	3	0	0	0	0	1.73	0
100362113	LOC100362113	192.9	179.05	181.22	126.28	109.4	47.2	132.3	102.94
689081	LOC689081	5	7	11	3	3	4	4	4
102555392	LOC102555392	0	1.06	0	6.13	0	0	0	4.15
103694226	LOC103694226	0	1.06	0	6.13	0	0	0	4.15
360918	Pf4	49	23	32	17	19	15	17	19
25616	Rln1	7	5	4	3	1	2	1	7
363458	Col4a6	11	5	10	12	4	4	6	8
681341	LOC681341	3	0	11.56	2.31	1.96	3	1	3.82
108348812	LOC108348812	0	5.6	2.94	4.89	2.44	2.59	0	2.77
113892	Nat8f3	248.39	195.27	131.17	299.6	100.5	119.7	153.1	134.7
24231	C2	398	493	805	437	220	322	376	322
405349	Olr1737	2	1.5	1	0.66	0	0	3	0
291760	Dsc2	12	15	14	14	2	10	13	7
308350	Lilrb3	18	74	49	29	32	23	32	12
305269	Stap1	26.12	20.04	29.12	19.33	11.08	10.89	20.06	13.07
309288	Rorb	10.9	5.11	11.09	12.7	6.05	1.98	5.09	10.06
29268	Tpsb2	7	18	50	16	13	17	16	7
306889	RGD1564786	13	9.01	11	3	6	7	7	1
100361444	Angptl8	1	4	4	3	0	3	0	4
117064	Vip	3	1	5	3	0	3	2	2
360417	Ptprq	1	3	5	3	1	4	2	0
690393	Tex12	11.6	14.99	19.09	18.93	4.01	4.01	9.43	20.26
685025	LOC685025	25.69	9.62	9.09	19.83	10.76	10.12	5.41	11.2
25432	Drd4	2	1	3.09	3.4	1.25	2.07	2.22	0
116487	Tgfb1	1896	2518	3532	2828	1106	1339	1932	1923
313504	Foxd2	143.95	124	166.3	141.91	61	57.56	85.85	132.77
292301	Tbxt	11	6	16	8	3	6	7	8
689210	Spdef	11	7	16	7	11	4	4	5
100912068	LOC100912068	66.86	61.2	75.46	63.55	27.13	31.13	60.15	38
366452	Ptch2	157	177	234	238	64	91	161	157
100911796	LOC100911796	11.31	5.56	10.91	2.1	1	10.02	3.95	2.58
689458	LOC689458	9.74	9	8	8	7	3.2	5	5.22
293591	Scart1	3	2	6	6	0	2	6	2
25236	Gpc3	1139	1525	2631	1888	537	958	1538	1193
100361947	Zfp42	3.3	6.26	2.47	3.33	2.71	0.37	3.39	2.57
246266	Aspg	36	74	97	34	19	46	47	30
298605	Tmem82	11	12	11	5	11	5	4	3
29139	Dcn	15622	16782	22653	17216	6427	8904	14791	12546
108348208	LOC108348208	9.06	6.11	12.36	8.36	4.19	7.29	3.19	6.53
102547257	LOC102547257	8.88	5.8	1.09	3.36	2.31	1.12	2.37	5.5
293154	Folr2	94	110	211	81	46	61	96	90
102547688	LOC102547688	20.2	8.68	8.79	9.17	9.6	2.45	6.2	9.42
117027	Ccr3	6	4	12	0	4	4	2	3
501570	RGD1565785	12	14	11	7	7	5	6	8
497796	LOC497796	13.46	5.82	1.82	1.1	5.21	0	7.91	0
685357	Baiap212	23	18	21	9	7	14	11	10
108348044	LOC108348044	37.12	42	89.86	37.12	21	33	30	38
100909455	LOC100909455	45.18	23.29	51.11	27.63	11.05	21.62	10.98	43.71
293744	Ms4a7	20	24	31	21	8	11	18	20
309666	Ubash3a	44	9	38	37	11	18	24	23

108349172	LOC108349172	1	1.03	1	0	0	0	1.8	0
298861	Ptrhd1	411.13	262.53	291.13	270.28	238	133.4	173.5	189.16
301227	Trem2	81	105	168	73	60	45	67	82
116649	Kcnj4	26	34	42	14	19	16.99	7	26.03
306454	Cldn22	53.13	22.02	34	32.8	9.47	16.45	33.3	25.4
102546424	LOC102546424	23.15	18.32	30.55	18.58	7.3	14.65	17.38	14.7
24653	Pla2g4a	37	39	92	55	28	21	56	27.99
681092	Pou6f2	19	17	21	14	9.35	9	10	14
89829	Socs3	142	176	325	309	145	153	117	153
689257	Adgrd1	178	124	216	157	68	97	101	137
313831	Vit	243	334	491	374	118	209	292	242
295279	Fcgr1a	103	103	137	114	58	46	80	89
448830	Ly96	72.02	38.3	58.75	56.3	32.42	30.53	37.12	34.59
108348113	Egfl1	14.04	11.42	11.04	37.63	12.59	11.84	6.7	13.19
25021	Itgam	79.17	100.74	215	58	67.02	53	86	65
407760	Krt86	2	0	3.68	1	1	0	1	2
108351105	LOC108351105	54.82	60	78	90	19	24.43	64.15	62
103690152	LOC103690152	12.22	12.46	4.49	13.69	6.23	13.25	6.23	0
102551208	Tctex1d4	1	1	2	1	1	0	0	2
102555817	LOC102555817	0	0	2	3	0	3	0	0
103692827	LOC103692827	0	0	1	4	1	1	1	0
108348722	LOC108348722	0	0	3	2	0	1	1	1
108351813	LOC108351813	3	3	5	4	1	3	4	1
24443	Hdc	18	30	36	11	14	19	12	12
25069	Tnfrsf8	2	2	3	3	1	3	2	0
25294	Azgp1	4	5	3	8	3	3	4	2
290595	LOC290595	2	0	0	3	1	1	0	1
301266	Adgrf1	4	0	4	2	1	1	2	2
304000	Igsf5	0	3	3	4	4	0	1	1
305307	Cwh43	2	2	0	1	1	1	1	0
367306	RGD1561755	0.83	0	0	1.27	0	0	0	1.26
498036	Csnka2ip	1	0	2	2	1	0	0	2
498300	LOC498300	2	2	0	1	1	1	0	1
499277	RGD1560958	7	1	6	1	2	1	4	2
499765	Cfap77	3	1	0	1	2	0	1	0
64572	Vax2	1	0	1	3	1	0	1	1
685102	Nkx6-3	1	1	2	1	1	1	0	1
689108	Slc25a31	2	0	2	1	1	0	1	1
84475	Cxcr3	8	5	3	4	1	5	0	6
102551737	LOC102551737	10	11	5	9	10	5	4	2
296500	Dlx1	20	17	23	10	6	12	15	9
498345	Tmprss11f	8	12	32	18	10	14	10	8
25239	Apod	19875	24987	40158	18965	10232	14373	21182	16748
100359752	LOC100359752	16	33	40	29	12	13	30	16
100364500	LOC100364500	232.15	151.54	229.06	258.4	115.7	113.5	193.4	101.7
294257	Cfb	94	104	192	85	62	68	91	65
108349608	LOC108349608	29.82	62.08	42.31	21	23.36	6	10.87	53.3
498241	RGD1564614	2.1	1.04	1.03	1.03	2.09	0	0	1.05
361266	Akr1c12	9	23	17	21	9.57	6.11	14	12.6
689907	Ankrd61	11	11	8	13	8	8	2	8
315039	Osr2	86	111	166	91	53	57	84	81
29509	Slc22a6	35	9	28	60	6	6	24	44
681236	Cd79a1	14.88	10.42	11.84	0	12.87	4.15	5.47	0.02
100909794	LOC100909794	16.78	1.88	0	12.41	1.9	5.84	6.14	4.96
170635	Dhrs9	6	4	9	9	4	4	5	4
24500	I19r	11	4	6	7	3	1	7	6

394266	Gjb2	166	72	244	407	48	57	191	244
117029	Ccr5	135.83	76.78	136.57	105.36	70.03	52.91	61.47	91.71
103694534	LOC103694534	0	1.44	1.36	1.71	0	2.74	0	0
100365773	LOC100365773	28	7	11	5	5	11	2	13
102555624	LOC102555624	1.86	8.17	4.04	4.02	3.96	4.03	2.02	1
300520	Vsig2	3	3	15	2	2	6	3	3
686581	Tmprss11a	4	8	8	3	2	4	4	4
498638	Msr1	96.86	106.67	251.93	105.43	78.02	55.99	101.2	106.39
66021	Cybb	133	111	185	119	71	72	95	96
65129	Cldn1	1116	815	1137	1341	466	432	938	852
305355	Tlr10	4.31	7.75	7.1	3.81	2.54	1.58	5.86	4.03
100910688	LOC100910688	50.52	29.41	50.67	23.82	15.47	15.95	26.32	36.49
499271	Itgax	46	52.65	69.74	52.95	25.81	20.93	55.4	32.96
498022	RGD1559482	18.22	36.1	85.52	36.32	27.45	35.25	33.98	10.93
282586	Muc6	12	9	8	7	5	4	7	6
298017	Actl7a	4	4	4	6	2	3	3	3
308716	Ii20ra	5	7	4	2	3	1	6	1
304988	Mnda	60.71	67.71	94.91	36.12	27.27	43.14	44.7	43.55
24379	Gad1	37	43	29	56	15	21	24	41
293490	Gdpd3	7	32	36	5	5	4	34	6
295012	RGD1563562	0	1	0	6	2	1.29	1	0
363143	Gnat1	8	8	9	6	3	4	7	5
687532	LOC687532	5	10	4.93	11.06	4	5.32	2	7.68
408229	Slpil2	5.34	5.99	1.99	1	2	2	2.79	2
292406	Thbs2	415	765	1781	647	374	667	646	529
24536	Lepr	316	275	505.22	409	153.2	128.1	354.6	289.45
305842	Rnase6	1.22	0.72	12.96	0	5.02	1.26	1.87	1.01
25383	Apobec1	55	81	133	48	39	45	48	63
296179	Fermt1	1.96	5.09	9.62	4.02	6.75	1.04	0	4.94
108348111	LOC108348111	33.5	83.75	50.25	50.25	33.5	50.25	33.5	16.75
299599	Theg	5	3	1	4	1	2	3	2
305236	Cxcl11	3	2	4	4	1	1	3	3
140586	Sox9	64.86	85.46	114	100.51	33	62.72	71.36	57.78
362431	Clec4a3	85	80	95	53	37	38	57	61
500697	RGD1565693	4	1	0	10.52	0	3.39	0	6.18
362430	Clec4a1	102.26	108.15	118	97.86	60	43.95	82.01	77
100912590	LOC100912590	90.31	18.06	54.18	126.43	33.82	54.18	36.12	54.18
364858	Stk32a	19	25	9	15	8	12	10	12
680346	LOC680346	9.09	12.02	11.08	10	7.01	3.02	4.02	12.08
24494	I11b	15	15	9	32	10	4	12	18
685351	LOC685351	1	2	3	3	0	2	0	3.58
499536	Ccdc152	20.21	21.1	13.4	14.22	12.12	9.19	6.08	15.35
316638	Sned1	950.95	1135.49	1440.6	1347.8	569.5	772.7	888.7	793.47
100361584	Ano2	8	7	6	8	8	4	5	1
306127	Acod1	7.98	6.81	7.24	7.85	8.71	4.54	4.29	1.01
297666	Klra5	8.87	12.62	16	6	2.81	6.19	11	7
59323	ErbB4	13	39	39	41	18	14	23	27
108351351	LOC108351351	1.21	0	1.32	1.14	0	0	1.13	1.15
681319	Ido2	13.19	19	3.02	5	7	9	1	8
304021	Col8a1	157	193	629	210	192	146	271	131
84397	Tnfaip6	18	38	56	31	7	26	30	26
685007	Unc93a	9.42	11.83	11.45	31.22	9.88	15.56	5.33	9.06
171339	Dnah1	47	40	44	31	22	30	28	21
679841	Dnd1	7.24	2.09	5.15	2.05	3.19	2.08	5.04	0
498781	RGD1561231	45.49	123.72	145.84	119.38	54.53	65.75	79.6	71.14
64552	Mpeg1	562.86	666.92	801.13	568.18	329.5	326	466	501.04

114099	Cysltrl	34	47	70	46	19	24	45	35
688858	LOC688858	0.01	5	0.03	3	0	2	0.02	3
103690021	NEWGENE_1589866	5.95	2.87	2	2.5	1.4	1	3.42	2.5
690912	Fam124b	5.95	2.87	2	2.5	1.4	1	3.42	2.5
100359656	LOC100359656	3	1	2	2	1	1	1	2
103690541	Fam237a	3	4	1	0	2	2	1	0
29151	Ucn	4	0	4	0	3	1	1	0
295449	Arhgef38	4	6	3	19	3	11	2	4
310090	Ddx4	0	2	3	3	1	3	0	1
500705	Efcab11	8	6	7	3	4	2	4	5
103692570	LOC103692570	0	13.48	0	46.44	11.5	0	13.12	12.92
266778	Vom2r44	39.02	27.99	45.84	25.02	12.04	12	31.39	31
81682	Lum	3019	2925	4754	3545	1467	1917	3023	2523
54250	Fgf2	26	16	30	22	6	13	17	23
100362830	LOC100362830	20.94	10.43	8.99	6.39	3.9	11.26	0	14.19
24233	C4a	251.87	328.46	755.23	238.38	195.3	298.9	215.8	278.86
24330	Egr1	272	239	177	1300	354	316	311	268
500362	Lmntd1	8	8	2	9	4	2	4	7
85272	Bmp7	72	105	231	103	54	74	93	101
266685	Ugt2b17	8.63	8.76	5.72	9.04	8.03	4	1.02	7.21
102553099	LOC102553099	21.7	18.71	7.49	24.18	0	17.88	11.98	15.57
360747	Spag6	2.65	3	1.28	1	1	0	0	4
308762	Tt1113	48	30	50	29	27	25	22	25
312701	Cd163	272	201	346	158.08	153	207	146.2	110
503462	Trmt2b	16	21	12	16	9	9	13	10
302586	LOC302586	0	1.45	4.1	7.82	2.83	1.25	1.57	2.79
301365	I118r1	8	9	9	12	6	4	7	7
365391	Trpm5	10	13	14	20	9	6	10	11
361221	No18	111.67	50.57	13.18	131.28	22.82	67.75	32.25	70.89
299737	Ntn4	228	327	436	310	164	188	263	207
317181	Srpx2	37	60	116	37	19	37	55	47
298765	Zfp3612	21.39	15.92	18.59	10.53	18.18	7.97	5.34	10.52
503146	RGD1561812	9.21	5.05	2.05	6.05	4	2.02	6.09	2.04
300384	Naalad2	15	20	19	25	13	10	21	6
474143	Clec4a	22	19	19	19	8	4	19	19
103693375	LOC103693375	1.1	0	0	2.58	2.33	0	0	0
266684	Cyp2d1	41.57	13.79	17.4	34.78	18.71	9.54	14.22	25.7
287231	RGD1559575	98	66	123	101	51	41	78	76
24826	Tg	10	8	11	12	9	3	9	5
299242	Gpr65	12	12	15	13	8	4	14	7
679975	Gpr183	51	46	54	52	20	20	35	54
103693234	LOC103693234	12.32	1.06	10.79	21.18	11.19	4.49	7.41	5.73
691382	Hus1b	2	5.71	2.71	1.71	2	2	2.71	1
103690097	LOC103690097	12.24	7.88	10.55	11.63	6.32	5.04	7.71	7.83
292902	Slc6a16	3	4	3	1	3	2	2	0
314711	Spic	6	1	8	7	5	2	2	5
315074	RGD1308195	1	4	4	2	2	3	1	1
366990	RGD1305207	3	3	5	0	1	3	2	1
500088	Rab19	7	1	2	1	2	2	1	2
688111	Hsf5	8	9	7	20	7	3	10	8
114523	Ntn1	150	87	243	224	78	88	169	113
307838	Chst4	4.41	15.23	6.89	7.86	7.31	4.45	6.01	4.12
100912787	LOC100912787	0	20.74	2.84	4.08	6.1	0	11.52	0
103690032	LOC103690032	1.16	5.28	1.4	3.31	1.13	4.5	0	1.48
100910606	LOC100910606	0	0.5	0.88	0	0	0	0	0.88
310869	Rrh	11.53	4.45	9.48	11.01	3.51	8.38	4.61	6.76

171452	Rab3i11	141	130	157	196	65	91	119	123
685158	Cfap299	15	8	20	15	11	10	10	6
494209	Ly49si3	14.73	8.86	9.24	8.37	4.86	9.44	5.24	6.75
64033	Ccnd2	100	116	240	163	69	103	140	83
316061	Slc22a14	12	13	11	11	7	7	7	9
406865	Mpig6b	7	17	9	14	10	9	5	6
103694852	LOC103694852	4.83	3.49	0	3.86	0	4.72	3.06	0
103690035	LOC103690035	1.45	2.74	1.36	5.8	0	1.4	0	5.85
140594	Syt14	37.01	41	64.03	38.01	19.01	29	33	34
689931	Mgarp	10	4	12	10	9	3	7	4
445442	Thbs1	246	236	466	653	268	184	316	255
84386	Slpi	43.66	30.01	29.01	10	20	15	14	23
316207	RGD1307182	13	16.63	14.59	12.75	12	5.05	10.36	9
296952	Kcp	35	61	128	65	26	59	54.72	45
64668	Mbl2	0	3.42	0	9.75	6.7	1.73	0	0
94341	Kcnj13	91	47	76	114	33	30	66	81
311425	Adam33	132	77	127	123	50	74	96	74
315979	Col6a6	404.09	360.64	645.16	694.56	275.7	291.2	419.2	363.6
316559	Slc19a3	35	27	31	27	21	25	12	19
103690109	LOC103690109	2	5.32	3	3.7	2	5	1	1
64825	N5	50.61	22.24	35.25	27.71	11.29	26.64	25.4	23.87
102552784	LOC102552784	6.32	0	2.82	0	2.14	3.73	0	0
313060	Spocd1	5	3	4	2	4	2	0	3
680270	Ccdc83	5	4	1	4	3	3	1	2
690888	Oosp2	8	2	1	3	2	3	2	2
303566	LOC303566	10	4	6	8	5	6	0	7
686596	LOC686596	6	7	8	7	6	3	8	1
100360801	Ddx60	58.15	69.39	63.12	82.83	44.12	69.13	28.81	34.02
114247	Slfn4	376.31	329.52	397.92	348.25	369.6	232.7	97.99	235.68
100910790	LOC100910790	0	0	0	14.58	9.4	0	0	0
287098	Cldn6	8	2	0	0	1	1	4.45	0
686050	LOC686050	8	5	8	10	2	4	9	5
362417	I117re	29	17	46	35	15	15	26	26
361821	Col6a2	2192	2336	3570	2547	1173	1885	2143	1674
361289	Colec12	225	278	431	278	126	162	271	224
299699	Aldh112	52	46	64	50	31	43	38	25
298566	Clqa	378	356	692	333	228	236	334	339
29200	Inhba	48.5	38.53	129.25	64.2	29	46.37	59.42	46.54
297411	Tprkb	139.78	204.79	452.72	133.94	218.7	44.62	38.26	300.61
100911422	LOC100911422	0	50.95	0	34.38	0	0	0	55.18
100365733	Tmem262	2.28	3.49	2	2.09	1	0	1.14	4.24
294795	Caps1	0	2	4	11	1	5	2	3
102554774	LOC102554774	0	1.62	1.07	3.12	1.19	1.47	0	1.1
81523	Myoc	5509	6926	8155	6122	2429	3541	5595	5733
100360841	LOC100360841	0	1.66	6.36	6.58	1.96	1.9	0	5.61
303666	Cd300c2	14.25	22.34	18.27	5.72	6.86	8.84	9.58	14.02
103689965	LOC103689965	263.59	428.84	866.72	338.1	232.5	465.4	277.5	255.43
691499	Zfp469	106	109	244	142	73	117	107	93
100912350	LOC100912350	9.72	14.99	13.62	22.64	9.55	9.27	8.67	12.09
312677	Ccdc77	254	145	155	67	136	63	66.12	138.05
311426	Siglec1	108.63	114.52	164.23	137.42	78.81	89.78	84.31	88.02
362550	Ror1	78	83	108	137	49	45	105	65
367332	RGD1566007	2.69	1	1	1.46	0	1	0	3
26296	Tfec	15	10	23	15	7	6	15	13
554353	Gpr34	43	54	82	53	32	25	35	59
688925	LOC688925	2.13	2.1	2.12	3.28	4.82	0	0.88	0.57

311835	Ddx31	106	166	212	190	114	102	109	114
301232	RGD1561662	38.3	27.14	62.95	30.57	26.21	17.74	31.75	27.91
310683	Itga10	11	29	67	8	17	33	14	11
102555239	LOC102555239	3.53	3.01	2.04	5.2	4.07	0	3.2	1.73
50621	Slc23a1	9	5	6	6	5	3	6	3
100912948	LOC100912948	1.26	1.39	3.04	7.49	1.54	0	4.2	2.88
691249	LOC691249	4.24	2.35	4.92	0.4	3.07	4.72	0	0
24188	Aldh1a1	698	861	959.89	871.79	377	466	704	671
89843	Cxadr	1075	914	1560	1605.1	545	600	1170	1058
353227	Zbtb16	657.98	310.05	355.22	323.43	311.2	454.1	145.4	166.99
100270669	Rriad1	6.67	10.46	11.78	6.13	7.79	4	5.04	6.11
314652	RGD1564744	7.6	7.03	10.58	7.17	7.5	3.06	4.49	6.15
689936	Gpr81	35	11	30	37	8	11	18	37
100911562	LOC100911562	3.95	5.05	2.57	4.11	0.69	3.1	4.1	2.38
102556253	Tdrd15	18.46	17.53	34.11	27.65	25.84	10.85	13.38	13.98
100910978	LOC100910978	151.71	168.21	165.13	241.93	104.2	172.8	153.1	46.29
60449	Gnb3	19	32	24	15	16	32	3	8
361734	Ms4a4a	13.04	18.25	10.43	5.21	5.21	7.31	7.82	10.43
499991	Steap4	467	498	594	644	277	323	424	421
306761	F12	13	6	6	7	4	3	10	4
366189	Tgm3	8	6	10	8	5	3	5	8
64352	Gstm5	0	72.07	35.7	42.05	7.02	42.09	21.66	27.56
494200	Oaslh	3.74	0	3.03	1	4.1	0	1	0
312279	Epha1	6.17	2.03	11.18	7.11	3.08	5.09	5.1	4.12
680866	Tmem45a	0	37.55	0	1.54	0	0	4.8	20.89
295703	Serping1	2195	2223	3664	3115	1280	1597	2347	2137
287392	Tekt3	36	45	42	61	21	37	27	36
102553405	LOC102553405	59.8	57.32	92.61	64.4	47.95	44.91	56.62	30.84
313233	Galnt12	23	13	19	21	6	9	23	12
690416	Rbbp8nl	12.37	6.48	9.99	13.25	9.59	5	5.16	7.97
102554393	Adamts13	38.97	36.62	40.28	29.18	16.76	28.67	24.98	25.17
102557539	LOC102557539	0	0	3.05	0	0	0	2.01	0
286926	Tfpi2	27	23	19	19	10	16	20	12
102550277	LOC102550277	85.42	88.35	0	25	37.3	64.09	0	29.62
290403	Rubcn1	43	37	44	26	27	21	18	33
685567	Ppil6	20.03	10.17	19.03	13.09	11.03	10.04	10.07	10
60423	Slc28a2	139.74	132.35	158.9	79.21	82	108	84.01	62.94
24988	RT1-M2	5.02	2	0	2.01	2.01	1	1	1.96
304382	RGD1561143	20.33	16.73	14.18	8.32	12.02	8.58	7.25	11.54
317590	Magec2	2	2	6	5.01	0	2	5.93	2
103692555	LOC103692555	19.05	20.29	25.04	26.5	10.58	12.04	20.52	17.01
291653	Pcdhb6	40.88	34	51.14	49.19	51.92	35.66	17.71	10.69
100363472	LOC100363472	9.87	0	3.86	0	5.4	3.69	0	0
24329	Egfr	374.28	357.38	518.49	547.65	196.1	240.7	431.5	322.84
108348197	LOC108348197	2.77	6.61	6.48	7.85	1.28	2.6	9.23	2.61
102555503	LOC102555503	13	21	32	26	6	12	15	28
24521	Kcnj1	31.09	21.92	27.95	20.38	15.64	11.05	17.04	23.51
311252	Pamr1	113	146	302	123	70	142	113	129
103692301	LOC103692301	0	2.46	0	2.1	0	3.03	0	0
311797	Fam166a	7.23	2.08	6.18	6.25	3.07	4.14	4.13	3.11
301489	Pi15	27.37	27.53	37.06	26.14	15.89	14.06	29.04	19.51
307414	MGC108823	119.99	68.34	114.97	93.19	54.98	74.98	63.2	70.39
80899	Slc21a4	0	1	3	2.01	0	0	1	3
317227	Tlr13	90	91	100	87	47	44	76	78
687424	Dtx1	362	353	485	472	165	231	371	347
311406	Dusp2	10	6	16	7	6	7	9	4

100360476	Sh2d3a	3	4	4	13	5	7	2	2
100360666	Lrtml	0	0.5	0.5	0.5	0.5	0.5	0	0
100360795	Tmco2	1	0	2	0	0	1	0	1
100363367	Dthd1	0	0	2	1	1	0	1	0
102546838	LOC102546838	1	1	1	0	0	0	2	0
102547963	LOC102547963	0	0.5	0.5	0.5	0.5	0.5	0	0
102549011	LOC102549011	0	0	1	2	0	0	1	1
103691649	LOC103691649	3	1	1	1	1	1	2	0
103693455	LOC103693455	0	3	0	0	0	1	1	0
108349768	LOC108349768	0	0	2	1	2	0	0	0
108351090	LOC108351090	1	2	1	2	3	0	0	1
108352613	LOC108352613	1	0	2	0	1	1	0	0
114552	Bcl2l10	4	0	1	1	3	1	0	0
140927	Selenbp1	0	188.76	0	94.38	0	0	188.8	0
170637	Samsn1	37	32	38	25	19	18	31	20
171459	Gp2	1	1	1	0	0	0	1	1
24254	Cel	6	4	5	6	1	4	7	2
24898	Slc6a3	1	0	1	1	0	1	1	0
24938	Grpr	0	0	1	2	0	1	1	0
286911	Prss3	1	1	0	1	0	0	0	2
287346	Fam183a	2	0	0	1	1	0	0	1
287751	Lyzl6	1	0	0	2	1	1	0	0
287885	Sectmla	8	5	13	1	3	7	6	2
289687	Gba3	0	0	2	1	0	0	1	1
290425	RGD1306441	0	1	1	1	1	0	1	0
293426	Nlrp10	0	1	2	0	2	0	0	0
29394	Gcml	0	1	0	2	0	1	0	1
294394	Gprc6a	2	0	0	1	0	0	1	1
296138	Acox1	1	0	0	2	0	1	1	0
298394	Olr836	0	0	2	1	0	0	2	0
300250	Krt1	3	6	0	6	3	3	4	0
300549	Olr1223	1	1	1	0	0	1	0	1
300676	Ttc36	1	1	0	1	1	1	0	0
301154	Vom2r76	2	4	1	2	2	1	1	2
301233	Gucala	1	2	0	0	0	1	0	1
303477	Igf2bp1	3	1	2	0	0	3	1	0
304690	Serpinb13	0	0	2	1	0	0	1	1
306441	Spata4	1	1	0	1	2	0	0	0
309584	RT1-M4	1	0	1	1	0	1	0	1
310327	Qrfpr	1	1	0	1	0	1	1	0
310902	LOC310902	0	1	0	2	1	0	1	0
319106	Taar8b	1	1	0	1	1	1	0	0
319107	Taar9	0	1	0	2	0	0	1	1
360750	Ccl25	1	1	0	1	0	1	0	1
361979	Tsacc	0	2	0	1	0	1	1	0
362727	Efcab10	2	8	7	7	4	4	4	4
363784	Tigit	2	0	0	1	0	1	0	1
367201	RGD1562392	1	0	2	0	2	0	0	0
405023	Olr1345	1.5	0	0	0	0	0	0	1
405066	Olr1388	0	0	0	1.5	0	1	0	0
499287	Ano9	0	3	6	0	1	1	1	3
500243	Asprv1	1	1	3	1	1	2	1	0
501056	Tmem89	0	0	1	2	0	2	0	0
554302	Tas2r108	1	2	1	2	1	1	1	1
58850	Nr0b1	1	1	1	0	0	0	2	0
58980	Slc13a1	2	1	2	1	1	3	0	0

679942	Angptl1	22	27	54	17	15	21	26	18
680244	Tmem139	1	0	1	1	1	0	1	0
681682	Ct45a9	0	0	3	0	2	0	0	0
688155	B4galnt2	2	10	2	4	2	3	2	5
690037	Izumolr	4	1	15	1	3	3	3	5
117253	Dnah11	136.96	156.16	255.24	189.65	80.68	112.2	175.7	124
498564	Itgbl1	713	676	967	814	362	406	763	587
102552068	LOC102552068	8.68	17.17	6.51	9.47	2.44	7.08	4.52	13.91
171356	Foxc2	146	113.48	193.59	184.05	78.4	88	123	136.46
108348188	LOC108348188	0	2.11	2.45	2.44	0	0	2.45	2.23
29169	Vtn	765	570	610	1164	355	409	592	723
116662	Ecm1	308	399	703	332	252	361	301	251
302668	Ace2	142	127	103	187	42	73	110	149
502534	RGD1560162	3.84	0	0	0	1.38	0	0	1.19
680910	LOC680910	73.13	61.48	74.86	24.89	39.41	26.8	42.84	47.88
25641	Igfbp6	2721	2053	4338	2526	1346	1492	2282	2673
309810	RGD1304770	5.69	4.77	5.67	3.82	3.43	4.28	1.11	4.54
362268	Rbpjl	9.18	16.9	17.24	13.53	6.12	8.13	15.13	8.7
688022	LOC688022	0	1	1	1	1.01	0	0	1
154516	Ugt1a7c	81.7	94.04	190.05	76.92	84.82	68.16	84.73	59.01
246239	Slc15a3	67.35	80.79	123.4	71.28	45.41	47.1	77.39	59.91
311547	Foxs1	215	250	322	203	73	159	192	240
296371	Pltp	576.01	569.75	1179.7	544.69	426.3	449.1	528.2	521.44
301562	Col4a4	16	20	14	23	6	14	12	17
360857	Rgs16	99	73	133	112	75	69	72	64
289048	Lhx9	23.46	25.32	34.36	22.33	14.41	15.92	25.38	15.19
108348162	Thpo	3.59	3.59	6.95	3.46	0	4.12	4.19	3.52
314322	Fos	122	153	149	423	186	145	113	126
302756	Ppp4r3c	0	0	0	2.97	0	2	0	0
287435	Cd68	119	157	244	123	94	125	112	102
103690057	LOC103690057	116.58	145.41	133.02	140.84	111.3	95.9	113.8	39.88
311785	Psd4	76.39	46.08	71.5	42.32	44.08	38.64	39.21	37.25
25556	I11r11	49	31	63	93	37	39	41	42
361493	Lilrb3l	60.44	45.04	91.97	27.45	39.06	40.99	44.19	27.43
293686	Slc22a20	7	10	19	7	6	9	10	4
294932	Spata16	7	12	12	12	13	9	6	1
361834	Cabcocol	25	38	46	17	14	19	29	23
353317	Acsm4	9.68	7.26	11.02	9.21	5.46	4.23	9.72	5.67
686932	Cdhr3	44.62	33.17	30.43	35.81	30.36	20.68	18.47	27.69
685645	Ces2j	0	0	2	0	0	0	0	1.35
24176	Adrb2	43.81	40.02	48.09	23.64	25.02	20	22	38.02
300920	Cl1dn2	12.06	13.72	8.23	14.95	3.36	2	10.7	17
303505	Plxdc1	131	147	171	147.77	64	90	133	116
25752	Cd6	16	16	30	15	9	16	9	18
500594	LOC500594	10.84	9	12.59	18.7	8.34	7.77	11.6	6.82
316399	Ccdc150	14	19	21	20	15	6	13	16
100361909	Ear1	8.25	6.76	25.82	2	11.87	13.42	1.71	1.95
100911256	LOC100911256	2.96	12.55	0	8.46	3.28	9.85	3.08	0
500046	Cped1	304	221	239	345	141	168	234	207
100911993	LOC100911993	10.69	13.93	9.93	25.39	16.89	4.23	9.2	10.22
100911545	LOC100911545	125.1	62.55	140.73	203.28	46.91	93.82	31.27	187.65
84382	Tcf4	232	247	281	350	156	172	264	159
310444	P2ry13	44	58	77	53	34	34	43	46
308569	Acp4	17.38	6	23	7.62	12.79	6.33	5	12.43
317614	Map7d3	74	18	66	71	32	26	48	49
498609	Lpar2	19	18	22	6	2	17	11	14

59107	Ltbp1	230	253	433	403	165	192	279	257
24932	Cd4	639.22	709.35	1103.2	735.41	481	448.6	615.4	613.58
83727	Fbn1	1253	1841	4632	1742	1260	1702	2200	1251
100911854	LOC100911854	12.46	7.49	6.79	0	5.43	0	8.28	4.41
686539	Islr	948	715	1276	1402	484	506	967	988
25060	Hk3	14	13	51	6	16	10	13	18
292746	Fcgbp11	10.8	3.11	0.94	1.08	2.19	1.09	1.01	6.52
24963	Hspal1	33.78	64.71	47.55	63.92	27.17	52.31	34.86	28.36
310663	Tnfaip812	119	110	143	90	57	82	81	94
100911041	Tmem45a1	90	61.45	167	61.46	49	71	92.2	46.11
294119	Moxd1	7	8	4	6	4	5	4	4
498572	Spert	14	11	13	12	8	11	10	5
100910196	LOC100910196	0	8.91	20.84	15.04	3.61	8.02	7.49	11.38
302993	Sox8	93	108	147	94	63	65	69	104
108349185	LOC108349185	114.44	95.75	249.82	134.02	102.7	92.51	129.3	80.32
140589	Gli1	440.92	357.7	527.65	494.41	188.6	229.5	418.4	404.2
690686	LOC690686	7.83	1.1	5.53	5.33	2.94	4.03	3.36	3.16
405110	Olr868	1.5	0	0	0.7	0	1	0.5	0
66020	Gapdhs	9	10	12	13	12	11	4	3
102554096	LOC102554096	10.57	7.37	14.24	14.35	5.4	10.15	5.2	10.98
64512	Fzd2	366	293.01	532	454	192	211	350	369
307106	Sfmbt2	18	16	32	16	13	13	17	13
100912428	LOC100912428	2.72	8.4	4.84	8.36	4.59	4.66	2.78	4.58
108350583	LOC108350583	46.2	42.05	55.23	40.48	35.25	34	36.97	19.55
309212	Ptgdr2	8.7	12	7.1	3.34	4.4	6.42	6.47	4
100911692	LOC100911692	23.12	10.81	12.23	7.57	9.72	9.73	4.32	12.97
681364	LOC681364	5.1	2.04	4.89	1	2.7	0	5.03	1.18
116642	Slc28a1	3	2	9	5	6	3	1	3
302538	Syt15	7	5	4	3	2	1	5	5
287450	Slc16a11	1225	694	1007	1452	460	482	961	1093
290361	Dok2	33	40	64	31	17	23	37	38
100912012	Clec3b	336	291	439	345	169	220	303	274
367216	Ncr2	0	2	0	1.49	0	0	2.39	0
360565	Spata22	12	8	5	10	8	9	1	6
60567	Syt10	11	9	8	7	9	4	5	6
500877	LOC500877	10.78	5.01	7.01	7.34	3.52	7.12	5	5.03
307403	Csflr	872	943	1302	1042	499	635	856	863
308445	Cyp2s1	177	79	236	286	74	73	205	182
313589	Rspo1	50.56	61.57	51.41	35.63	29.91	32.99	32.83	41.02
294706	Cd180	36	42	52	36	11	30	31	42
363104	Cd109	33	44	134	38	29	62	49	31
363938	Oas2	17	22	28	32	15	24	12	17
103693640	LOC103693640	42.29	0	67.07	23.29	0	24.31	53.03	13.83
362336	Fam180a	141	111	159	248	76	111	157	109
103690834	LOC103690834	4	4	3	5	1	5	2	3
363653	Efcab5	7	2	3	4	1	4	5	1
102552204	LOC102552204	30.1	23.51	43.55	8.29	0	38.94	15.84	17.74
304608	Mmp19	130	125	300	176	80	131	166	126
100910474	LOC100910474	4.06	2.13	0	0	0	1.15	3.11	0
498757	Aoah	12	13	26	10	8	9	17	8
25646	Otx1	0	0	1.06	0	0.73	0	0	0
116676	Aldh1a2	137	49	70	226	34	22	81	195
360814	Rasa11	8	8	23	6	9	9	7	6
360704	Hmgn1	545.36	673.72	598.93	600.24	329	339.6	443.6	553.84
499174	Cers3	4	15.39	9	9	8	2.76	5	10
24303	Cyp2d3	8.61	9.84	8.59	3.27	6.86	6.36	1.52	6.15

83837	Bambi	95	131	155	99	60	69	100	102
289129	Tdrd5	24	15	6	13	9	8	12	11
317468	Tlr7	117	109	97	96	86.98	60.02	86	55.99
499249	Plekha7	81	146	173	119	62	99	89	108
366859	Glt8d2	70	89	138	77	49	63	86	60
498650	Rab11fip1	90.35	77.65	103.6	149.81	74.3	57.99	75.06	83.4
65053	Rassf9	26	17	10	18	12	8	12	17
309621	RT1-Ba	748	272	623	773	391	322	494	462
102549803	Nat8f4	55.79	86.2	80.71	75.27	31.31	40.23	54.39	80.26
103693165	LOC103693165	3.29	7.25	17.64	5.78	7.3	4	7.74	4.47
365901	Gnat2	2	3	5	3	1	2	3	3
685479	S100a7a	6	3	1	3	2	2	2	3
79438	Igfals	6	3	1	3	0	3	3	3
295631	Pla2r1	48	44	61	36	33.58	34	45	18.29
362634	Clqc	421	452	793	490	307	346	436	404
294337	Col6a1	1961	2133	3857	2412	1144	2058	2266	1710
299038	Spin4	32	40	40	41	23	29	28	26
685868	Otogl	0.99	3	3.2	3.2	2.13	2	1.07	2
315179	Efcab6	24	26	43	21	29	26	12	12
685277	Ildr2	23	23	34	34	10	18	23	28
303692	St6galnac2	163	109	237	153	90	126	136	107
287910	Ccl6	134	125	170	119	73	67	103	137
108348057	NEWGENE_1591402	210.53	228.07	256.37	278.95	140.4	136.8	221.1	177.2
362734	Stxbp6	263	253	310	317	153	166	236	238
293561	Rnf152	211.63	175.15	183.41	203.22	136.5	140	135.2	124.97
56822	Cd86	11	13	14	11	8	9	9	8
266603	Aldh1a3	65	64	143	130	32	43	133	71
312705	Clr	1430	1832.99	2900	1770.2	964	1564	1665	1313
292414	Vom2r10	3	3	2	3.52	1	2	4	1
294027	Col17a1	3	7	22	4	6	8	8	3
310553	Tlr2	61	72	99	63	48	40	52	65
361832	Bicc1	563.57	592.94	670.53	823.45	397	378.3	547.7	519.37
25389	Atf3	188.33	203.34	430.09	342.56	150.6	178.2	285.5	195.15
497931	Pik3r5	17	35	59	17	23	16	28	22
500902	RGD1565356	24.9	11.03	23.78	19.06	10.44	15.87	15.15	13.31
311373	Trim69	21.49	25.35	23.69	21.47	14.22	8.69	19.32	21.75
80848	Cubn	88	89	93	111	60	55	67	83
171040	I111	10	4	6	3	4	5	0	7
361576	Tulp2	6	9	3	5	5	3	1	7
688542	LOC688542	7	1	4	0	2	2.35	1	3
103689945	LOC103689945	875.11	670.74	967.1	853.01	446.2	689.8	630.3	576.01
287467	Pitpnm3	135	92	200	188	88	94	146	100
108350811	LOC108350811	4.41	3.1	4.21	1.5	1.99	3.97	1.25	2
292263	Fbxo5	33	31	34	24	20	21	22	22
680813	Cfap47	12	7	5	9	5	2	6	10
317219	P2ry10	15.43	7	6.35	9	3	7	8.62	7.72
444985	Dnmt3b	26	48	41	37	21	25	34	26
64357	Cd200r1	19.01	12	38.01	24.9	14.85	19.01	14	17.65
100361043	Dytn	18	11	6	8	8	8	10	4
89830	Ptch1	965	937	1109	1721	605	613	1073	1011
307415	RGD1309362	330.01	273.6	382.37	361.87	211.4	209.4	236.4	283.92
303378	S1fn13	457.94	481	656	486	298.9	442	344	368.09
24571	Muc1	10	13	26	14	12	9	9	14
102555634	LOC102555634	30	33	40	43	27	24	23	28
295660	RGD1564400	123.81	212.53	183.66	0	0	103.3	113.9	146.18
291327	Mrc1	447	402	583	478	310	299	394	333

293065	Tmc3	16	22	21	21	14	15	12	15
24931	Cd8b	5	0	2	3	1	3	1	2
259235	Sdr9c7	9	6	7	8	7	3	4	7
290753	Lrp2bp	10	3	6	1	5	5	3	1
296198	Banf2	2	3	2	3	1	3	3	0
364031	Tnfsf18	2	3	2	3	2	2	3	0
365748	Bhlhe22	12	12	18	18	5	16	15	6
501158	Spagl6	2	3	2	3	1	4	0	2
690105	Kncn	0	4	3	3	3	1	1	2
79111	Slc27a5	1	3	3	3	2	1	3	1
361312	RGD1563159	14.9	5	14.92	15	9	3.88	6	16
102556463	LOC102556463	6.08	18.91	8.84	9.23	4.75	0	20.39	5.03
315101	Zfp7	31.71	106	3.08	44.96	33.91	38.02	36.22	22.01
102551683	LOC102551683	8.66	15.51	7.83	12.94	5.28	12.06	10.2	3.96
100912342	LOC100912342	23.42	19.17	17.12	15.76	12.49	15.14	11.12	14.16
25746	I12rb	23.06	10.04	17.91	23.04	15.84	11	9	16.08
25026	Adm	83.05	47.38	65.51	133	47.27	50.55	74.88	58.13
305947	Kcnrg	40	40	61	37	28	33	30	34
691993	Scimp	8	12	12	5	3	7	8	8
114482	Nek2	15	16.81	41	14	12.61	22	18	8.4
691533	Lilra5	47.03	58.44	56.29	63.36	29.06	23.06	46	60.12
102547665	LOC102547665	8.07	8.03	5.29	6.98	3.94	6.66	3.17	6.2
503568	Slc13a4	506	340	490	892	160	202	544	663
685692	Gcsam	26.6	28.22	25.76	8.97	21.24	18.11	8.88	14.88
140914	Olr1	25	27	30	23	25	18	16	15
102552882	LOC102552882	12	12	12	8	9	8	12.02	2
360655	Cd300le	55	56.75	92.96	51.99	36	35.02	47.97	62
498072	Hmgb211	139.96	108.44	158.98	22.98	15.42	23.48	130.4	134.16
83508	Timeless	52.04	59	66.03	64	39	46	49	36.03
679155	Zbtb7c	88	81	114	131	56	43	99	94
245978	Cklf	25	32	36	36	22	20	24	25
100363228	LOC100363228	20.12	17.62	28.39	24.54	11.06	13.04	18.69	21.18
362464	Arntl2	9.95	34.19	23.35	28.56	14.88	11.39	18.61	22.91
102550588	LOC102550588	28.17	61.05	18.97	53.98	27.25	25.8	27.31	34.11
117284	Lrrc7	6	13	7	8	10	5	4	5
288821	Neurod4	7	5	4	18	5	8	7	4
499204	Ddias	11	10	21	9	14	9	4	9
680671	Glis3	9	3	3	2	2	4	4	2
292077	Sult5a1	165	279	311	187	65	186	156	258
298947	Pik3cg	133	117	167	158	89	94	108	115
282836	Cthrc1	33	60	99	26	26	54	34	40
361095	Zic5	29	19.39	23.06	36.23	11.3	13.47	25.29	26.03
292060	Irf8	156	152	164	111	103	90	104	115
108348074	LOC108348074	1723.1	1795.2	2449	2151.6	877.7	1575	1694	1591.5
305974	Scara5	661	682	945	701	372	447	729	565
108349944	LOC108349944	2.52	4.82	5.31	2.54	2.1	4.02	3.3	1.32
297695	Wbp11	438.79	458.25	519.05	899.83	430.1	634.4	10.14	562.76
103692302	LOC103692302	3.63	5.69	7.84	9.06	4.36	6.9	0.05	7.23
364396	Ar111	41	35	66	29	32	30	27	32
100912609	LOC100912609	19.88	18.7	9.77	9.13	10.41	10.59	9.91	9.77
246245	Fmo2	594.93	283	242.14	381.39	250.9	233	270.8	308.08
100911932	LOC100911932	80.5	108	203	108.5	78	99	94.5	82.5
108348067	LOC108348067	80.5	108	203	108.5	78	99	94.5	82.5
102551901	LOC102551901	2.75	5.32	15.39	6.97	8.39	5.26	2.72	5.18
29569	Pcolce	767	922	1463	937	530	781	811	774
24153	A2m	1067.9	1687.45	1801.3	1249.7	795.1	822.2	1177	1318.35

117517	C7	899.63	535.12	526.03	988.62	449	481.8	604.4	554.28
65154	Wispl	102	115	113	116	49	70	103	94
29687	Clqb	337	335	738	296	255	244	369	341
155012	Cfh	565.9	575.96	1066	655.96	390.9	469	542	627.95
64195	Clec10a	262	198	255	203	113	132	229	177
102550729	LOC102550729	16.18	9.01	8.19	15	9.25	7.72	7.15	10.19
100363178	Tmigd3	14	13.13	16.5	12.74	9	8	9	14
266714	Myo7a	29	25	45	32	22	22	28	21
363974	Nckap5	10	7.97	19.32	12	7	13	11	4
100912756	LOC100912756	5.22	2.35	9.1	0	2.02	5.93	0	3.89
690097	LOC690097	32.36	28.78	65.71	21.94	30.25	19.28	37.26	18.89
502129	Hist1h2ai	6.04	5.04	7.95	2.51	2.46	4.61	4.85	3.39
25267	Pdgfra	652.24	610	734	876.52	378	415	638	611
103691841	LOC103691841	4	6.78	9.86	0	4.43	0	3.13	7.12
287788	Abca9	446.48	464.2	388.25	721.94	360	267.5	431.2	378.79
29269	Mcpt8	36.28	57.99	31.01	8.1	47.73	44.25	2.9	0
29485	Slc7a3	8.38	9.04	9	7.85	5.89	6.12	5.07	7.31
365245	Saa4	2.11	0	3.65	0	1	1.65	0	1.45
103690030	LOC103690030	55.86	55.09	62.7	35.45	33.52	46.84	41.31	27.17
365977	Dusp14l1	5.92	0	0	14.7	0	5.51	0	9.17
685324	LOC685324	41.28	13.7	26.78	14.99	15.81	10.61	23.82	18.66
50654	Ctss	501	447	543	389	283	260	372	424
84403	Gjb6	92	40	60	166	24	25	54	152
685899	Svepl	124	84	171	174	71.01	70	123	130
298657	Car6	29	27	24	28	10	19	19	29
50563	Gja5	11	37	29	31	23	11	25	18
117264	P2ry6	45	49	84.94	44	29	26	44	60.03
108349506	LOC108349506	3.58	4	5	3	7	0	3	1.12
308586	Sec1	9	8	12.14	11.41	7.8	5.6	10	5.55
498988	RGD1559962	7.64	5.05	11.86	12.6	4.62	3.15	6.67	12.09
100361913	LOC100361913	41.33	35.36	56.7	38.89	23.6	36.36	31.25	31.83
103690068	LOC103690068	41.33	35.36	56.7	38.89	23.6	36.36	31.25	31.83
24268	Cp	906.1	811.15	1170.7	968.28	514.2	635.5	831.9	772.61
154985	Cyp26a1	2	1	4	0	2	0	1	2
25100	Foxa3	2	2	5	5	3	2	2	3
25343	Pdc	3	3	4	4	5	1	1	3
295186	Crnn	1	4	1	1	0	2	1	2
295541	Msh4	1	3	1	2	2	2	1	0
298225	Ifne	4	1	1	1	2	1	1	1
301132	Cd70	1	1	3	2	2	1	1	1
304073	Cldn14	9	9	13	4	0	8	9	8
306251	Itih1	1	1	4	1	1	0	3	1
307036	Armc4	1	3	0	3	0	1	2	2
316413	Als2cr12	15	3	11	13	1	7	6	16
361725	Scgb2a2	3	2	1	1	0	0	1	4
362675	Tp73	1	3	3	0	3	0	1	1
64673	Pip	0	4	5	5	3	0	2	5
296947	Fscn3	10	7	5	6	8	5	5	2
246262	Sema3d	245	179	362	262	203	133	230	183
114522	Stag3	7	7	10.11	0	4	0	11.8	1.44
684762	LOC684762	26.25	14.88	6.92	25.83	14.59	13	10.24	15.03
361096	Zic2	147	87	136	210	55	51	112	197
102553193	LOC102553193	0	3.69	3.33	4.57	0	0	5.8	2.5
246208	Ifi47	168	163	202	207	123	99	135	173
108349573	LOC108349573	0.05	2.33	1.16	1.29	0	1.42	0.53	1.51
300870	Tent5a	133	170	249	150	81	156	148	118

155183	Skap2	300	254	336	313	212	190	252	208
63851	Fgf14	90	75	107	119	51.92	52.39	93	83
100360940	LOC100360940	4.53	14.38	6.86	8.69	2.25	4.34	11.62	6.5
81686	Mmp2	1068	1433	2362	1579	865	1239	1364	1152
100361997	Ect212	4.75	1.38	6.48	3.39	9	0	1.38	1.1
102550330	LOC102550330	9	8.37	7.47	4	3.75	5.96	7	4
494194	Klra1	35.99	65.08	78.66	67.2	30.45	27.8	48.07	71.02
100909709	LOC100909709	18.57	27.73	17.11	15.12	15.04	12.35	9.93	19.11
116593	Upb1	8	2	17	5	3	10	9	1
100912971	LOC100912971	11.32	7.83	11.31	20.21	6.79	9.78	5.23	14.63
499847	Prrg4	179	294	352	232	168	147	231	214
301287	Pkhd1	17	28	20	24	17	14	11	22
100364958	LOC100364958	14.48	6.12	12.02	7.22	3.62	8.23	8.37	8.43
298850	Cenpa	10	11	27	9	7	12	14	8
338457	Tlr9	9	15	16	17	3	6	19	13
685646	Ropn11	11	21	10	15	7	7	12	15
117512	C9	1	1.78	0	0	0	1	0	1
100101439	Vom2r21	0	0	1.89	0	0	1.36	0	0
24934	Klrk1	25	28	24	30	18	22	25	12
360546	Efnb3	38	20	24	50	22	20	21	32
58965	Ramp1	172	189	338	129	104	154	166	172
108349832	LOC108349832	0	3.66	0	1.09	3.42	0	0	0
29725	Baat	6	5	12	2	2	8	6	2
498399	Sec1414	4.04	5	5	4.01	3	3	3	4
57301	Ccr1	60.62	39	62	35	32.33	36	33	40.41
296621	Phyhd1	94	82	132	50.34	58.41	50.34	94.59	55
291359	Ly86	82	60	65	62	48	41	46	59
100361866	LOC100361866	25.3	18.35	20.46	0	0	16.22	0	30.04
102547271	LOC102547271	0	0	14.18	16.65	15.68	0	6.57	0
306081	Pcdh20	20	22	72	1	24	25	28	6
502208	Slc38a8	10.2	8.2	14.23	10.69	8.1	9.02	5.86	8.3
100363196	Zfp791	18	24	14	16	14	12	15	11
102554031	LOC102554031	7	9	12	8	7	8	3	8
25674	Glr1	2	9	2	5	1	3	6	3
494235	Vomlr82	5	2	8	3	3	1	5	4
691485	LOC691485	11	3	2	2	0	3	6	4
309622	RT1-Bb	452	165	387	474	243	237	318	270.63
25022	Fgfr2	228	224	265	255	132	177	198	196
100912845	LOC100912845	0	3.92	1.43	1.67	0	2.85	2.23	0
289076	Rgs18	90.76	78.12	119.45	61.37	55.68	53.96	60.29	83.17
100363111	C2cd4d	27	32	21	25	18	18	22	18
108348115	Rps19	63.91	52.24	46.29	51.97	58.03	47.49	49.69	0
305843	Ang	6.92	7	10	9.72	6	5.37	4	9
102554047	LOC102554047	35.2	27.95	45.78	31.1	39.37	18.9	21.66	21.53
100909521	LOC100909521	30.05	45.03	57.93	103.17	55.83	48.25	67.08	0
100910912	LOC100910912	36.43	37.87	25.79	28.71	23.45	18.96	22.63	28.32
309837	Adamts14	93	100	179	148	70	88	129	90
298972	Smarcell	9.01	5	10.03	5	13	0	6.06	2
108350026	LOC108350026	37.26	16.47	39.24	20	25.05	15.36	15.57	25.95
311934	Ns5atp4	58.51	74.51	70.44	51.56	45.48	36.09	42.74	60.65
291076	Eci3	213.39	213.49	236.24	168.14	105.2	117.7	237.4	142.84
102551034	Crocc2	10	11	20	10	13	12	7	5
24773	Sftpal	15	14	12	10	5	6	5	21
84352	Colla2	5365.4	8205.69	11912	8611.6	3262	8660	6850	5966.47
399684	Vkorc111	510	638.9	844.72	622.34	215.8	624.1	400.2	658.27
29209	Casq2	68	44	70	66	35	45	65	35

361735	Ms4a6a	47.98	48	61	40	26	26.99	50	40
100912218	LOC100912218	78.71	87.11	88	95.2	54.62	55.14	65.4	78.45
116491	Kcnk6	59	61.5	80.5	86.5	49.5	44.49	57.5	57.5
108350705	LOC108350705	32	22	25	9	16.06	15	22.92	10
100912943	LOC100912943	0	1	8	2	2	0	5	1
113911	Gucy2d	1	3	5	2	3	2	2	1
301229	Trem1	6	5	10	1	6	3	7	0
171164	Gbp2	445	478.97	827	563	297	457	454	477
64316	Srpx	337.21	382.45	396.35	358	208.4	249.8	297.5	318.04
309108	Lmntd2	3	3.06	1	4	2	3.06	2	1
294054	Cc2d2b	10.63	7.84	3.61	7.79	7.74	6.04	6.31	1.69
499588	Gpr160	49	45	55	47	30	29	33	51
315174	Scubel	422	652	992	545	333	613	534	426
364255	Spetex-2C	10.21	6.4	7.4	2.7	5	3	4.66	6.85
113959	C5ar1	133	113	161	135	85	79	107	125
315920	Vsig1	8	8	4	6	5	6	3	5
64545	Icos	6	3	10	7	7	4	2	6
682408	Cdsn	89.99	129.98	225	142	64.98	92	157	115
688822	Tbx10	63.11	72.24	72.21	66.43	47.55	55.35	49.07	48.28
305354	Tlr1	11.73	18.8	17.72	34.73	15.08	11.68	14.74	19.16
315259	Prickle1	382	311	419	472	240	248	320	350
501346	LOC501346	432.94	266.92	388.71	202.08	244.2	141.4	338.6	219.75
108350017	Mindy4b	25	33	23	27	16	13	26	24
313352	Dmrtal	17	24	16	25	14	13	18	15
499864	RGD1563680	25	27	30	33.11	22	28.08	19.15	15
315759	Igdcc3	120.61	70.23	95.92	106.11	60.04	46.79	82.01	98.66
58949	Ptafr	164	155	220	162	125	103	157	128
171099	Rasd2	37	79	50	69	43	62	29	38
362966	Nfam1	87.54	92.74	119.1	69.66	65.11	75.43	72.6	57.17
498256	Ier5	162	169	221	147	116	120	125	151
102548397	LOC102548397	6.33	4.69	20.69	19.42	11.45	26.01	0	0
310540	Fam198b	704.6	751.72	942.38	759.75	441	584.1	665.5	624.16
25119	Mr1	75	102	119	75	56	64	76	76
360757	Medag	151	157	369	155	118	168	181	143
303380	Slfn2	291.89	234.34	325.32	230.96	194.3	210.3	199	190.16
307805	Cenpt	13	8.86	19.77	6.48	10	10.49	7.73	7.06
25677	Mak	4	4	6	1	3	1	2	5
293052	Isg20	26	31	35	13	14	24	23	16
293676	Ctsw	14	6	7	3	6	5	4	7
29458	Neurod1	5	4	5	1	4	3	3	1
29634	Ldhc	5	4	3	3	5	5	1	0
367345	Clu11	5	1	4	5	3	2	5	1
498286	Slamf1	5	7	1	2	3	4	1	3
499746	Stpg3	3	3	5	4	2	2	2	5
303377	Slfn5	1387.2	1181.8	1509	1413.2	1040	886.5	1070	1032.65
113937	Clec2d	6	6	19.18	12.08	6.71	7.96	9.06	8.02
690102	Hist2h2ab	5.09	0	1.64	0	3.5	0	0	1.44
499532	Tmem267	77.02	61.7	65.69	56.82	45.58	44.87	39.3	62.19
29260	Tlr4	107	106	135	139	77	71	106	104
83826	Nr5a1	6	7	10	11	9	8	7	1
290655	Cr1f1	252	394	573	184	168	314	269	281
60350	Cd14	67.71	69.73	139.2	60.87	64.2	58.73	76.94	48.51
299016	Npas3	39	40	38	46	35	27	31	27
361954	Veph1	30	30	18	32	17	19	29	16
360717	Gramd1c	26.01	34.02	30.02	22.02	24.41	12.33	25.98	19.81
102551086	LOC102551086	5	3	7	4	2	4	5	3

108349261	LOC108349261	7	8	7	16	5	6	7	10
108352163	LOC108352163	8	9	10	11	6	5	7	10
288478	Rsph10b	5	6	2	6	1	6	3	4
691937	Strc	5	5	7	2	2	3	6	3
499229	Gvin1	33.99	24.79	50	51	31.74	21	28	37
287571	Taf15	264.19	231.97	300.31	271.38	180.3	156	157.2	293.86
499263	Gsg11	55	47	40	37	29	26	39	38
292657	Slc1a5	86.11	90	99.03	90.01	61.64	83.14	66.28	58.43
685215	LOC685215	36	37	41	35	22	30	24	34
681180	LOC681180	12.71	37.65	15.15	47.93	47.41	3.56	14.71	18.08
84032	Col3a1	13865	17167	30755	19236	9406	16350	19320	14758
81658	Gabrp	6.26	4.29	5.18	7.38	1.08	6.15	2.16	7.68
685781	Ddr2	670.29	730.7	1088.2	898.19	572.1	587.9	710.4	632.2
363767	Abi3bp	1084	1153	1697	1383	759	922	1209	1039
291354	Enkur	11	9	15	11	3	6	15	10
292890	Tsks	6	7	5	5	5	3	7	2
307917	Klhdc4	13	34	31	37	30	22	14	19
100910833	LOC100910833	12.12	6.99	5.28	8.83	3.53	5.24	10.52	5.28
690930	Ms4a6c	6.28	4.11	15.81	5.22	7.47	5.22	4.06	6.49
308797	Cemip	323	267	278	534	216	211	252	358
683415	Prss55	23	15	14	21	11	9	17	17
290350	Loxl2	98	142	231	149	77	148	142	92
690492	Cd33	22	30	55.62	40.96	29	27	24	30
24891	Abcb4	45.34	61.2	132.66	42.03	49.13	70.98	53.3	34.86
84348	Ackr3	291	226	338	267	147	195	281	208
309925	Fam81b	9.14	11.05	11.1	8.09	5.01	2.02	12.12	10.02
360553	Vmol	8	7	9	3	3	5	8	4
24546	Slco2a1	164	82.6	124.31	166.05	102	115.3	91.46	89.06
103692126	NEWGENE_1587253	31.3	12.61	8.25	0	0.01	0	25.59	13.04
289104	Prg4	58.57	39.04	79.78	90.85	38.14	52.87	56.95	50.94
100158223	Zfp786	83.6	69.1	88.55	72.01	68.54	44.46	54.85	64.46
100359478	Tstd1	49.01	58.03	53.77	39.18	32.24	23.15	56.31	36.64
685719	Dand5	6	11	8	6	3	9	6	5
689374	Tkt11	13	15	25	9	12	8	16	10
100910940	Evi2b	74	46	76	25	48	44	30	42
108353135	LOC108353135	4.08	0	2.04	2.04	2.04	1	2	1.02
114097	Ltc4s	18	29	58	31	18	34	19	30
296872	Eda2r	3	6.01	19.31	7.25	10.78	4.52	6.01	5.11
64522	Slc5a2	6.91	18.89	7.17	5.69	4.16	10.33	9.83	4.41
171163	Slc6a13	179.82	84.54	150.81	297.41	74	54	144	257.58
171547	Crispld2	1681	1676	1120	2027	923	1041	1420	1451
100910838	LOC100910838	31.38	23.42	25.07	0	14.01	12.08	22.1	11.19
474348	Sspo	45	26	27	19	22	18	24	23
360626	Krt19	52	41	78	75	33	17	76	57
363265	Col4a3	44.67	36.74	51.93	61.33	27.96	26.44	54.45	35.97
108351300	Rt11	65.99	48	51	46	37	38	51	31
291912	Nod2	25	22	23	20	15	14	15	23
292884	Zfp473	17	17	24	36	23	17	10	20
290604	RGD1564958	18.4	27.19	21.31	12.69	13.93	16.71	19.05	9.6
24699	Ptpnc	175	184	267.76	183.99	165	148	153	138
287527	Serpinf2	20	13	8	10	12	10	8	8
291604	Dcp2	0	8.03	24.68	44.72	31.86	0	0	25.84
79128	Dab2	500	477	658	800	370	381	599	465
24387	Gfap	321	401	989	384	185	492	393	492
685433	Evi2a	101	115	122	118	67	85	81	107
300228	Limal	288.4	314.63	428.91	425.47	230.6	290.7	299.1	266.56

309729	Rtkn2	24.83	22.97	29.04	26.02	20.91	19.01	21.96	14.85
294809	Adamts12	262	210	395	291	136	164	283	281
361060	Ebf2	280	295	388	523	167	219	372	351
299750	RGD1565753	0	2.72	0	0	0	0	2.03	0
362792	Pld4	220	272	360	276	167	187	239	249
680422	Fam115c	37.63	73.54	95.6	38.26	40	29.73	45.3	67.99
303412	Rnf43	53.96	60.31	60.62	49.2	52.69	21.23	25.61	67.86
501153	Zdbf2	22.18	19.03	32.43	20.48	19.83	8.38	16.07	26.03
100911733	LOC100911733	2.95	1.83	0	1.55	0	3.17	1.56	0
288593	Ccl124	55.94	51.8	55	59.22	45.34	40.12	47.68	32.85
83717	Omd	252	127	173.31	214.31	96	125	194	158.31
116718	Pex12	163.98	196.72	176.41	183.82	191.6	160.6	173.8	13.43
366126	Spi1	125	104	131	85	80	82	83	88
500818	Rfx4	39	42	33	37	16	29	37	31
282817	Pycard	52	39	48	28	33	29	25	38
361206	Slc25a48	103	114	105	92	45	78	65	122
100911813	LOC100911813	20.99	21.82	19.16	5.78	14.74	19.67	15.9	0.44
108350249	LOC108350249	72.43	66.88	107.2	82.09	60.31	68.08	60.14	57.62
25494	Nid1	5340.8	6052.97	8231.6	7763.3	4121	5007	6148	5245.52
102553611	LOC102553611	10.03	16.19	12.99	16.07	8.66	8.96	15.87	7.93
24763	Acsm3	32.1	24.29	18.33	20.97	18.1	17.52	14.42	21.67
282634	Pxmp4	306	404	378	377	218	298	391	191
291861	Nlrc5	112	120	111	88	76	88.41	76	82.68
291654	Pcdhb5	50.87	50.29	62.22	63.59	45.75	45.62	33.06	45.73
108348099	NEWGENE_1359268	37.1	0	74.21	37.1	37.1	0	37.1	37.1
100361672	Zc2hc1b	0	0	2	2	0	2	0	1
100911528	LOC100911528	2	0	1	1	1	0	2	0
102551806	LOC102551806	3	8	6	3	2	5	3	5
103691796	LOC103691796	1	0	2	1	1	1	1	0
108352224	LOC108352224	8	4	3	5	4	5	0	6
171161	Csap1	2	7	1	2	1	2	6	0
293609	Olr315	0	2	0	2	2	1	0	0
294241	Ly6g6c	9	33	19	15	12	15	11	19
298567	Cela3b	0	2	1	1	1	0	0	2
299637	Tle6	2	1	4	1	1	1	1	3
303741	Fscn2	98	116	131	107	74	82	99	84
304815	Elf3	1	2	0	1	2	1	0	0
308325	Nlrp5	2	0	2	0	1	1	0	1
310616	Creb314	0	1	2	1	0	0	1	2
317051	Hhip12	0	4	2	2	1	5	0	0
362879	Myrf1	0	0	3	1	2	1	0	0
363681	Hspb9	1	4	3	0	3	1	1	1
367901	Btk	29	27	45	23	25	22	30	16
497859	Atf7ip2	1	1	1	1	1	1	1	0
498102	Gmnc	7	2	3	8	3	2	5	5
498152	LOC498152	1	2	1	0	0	0	1	2
498608	Yjefn3	2	0	5	1	1	2	0	3
499573	LOC499573	1	2	1	0	0	1	0	2
500061	Fam71f1	0	1	2	1	0	0	1	2
500906	Cyth4	165	158	229	156	124	113	140	154
60464	Fgf16	1	0	3	0	1	1	0	1
679870	Capns2	7	9	8	8	2	11	7	4
680486	Daz1	2	1	1	0	1	1	1	0
686084	LOC686084	8	3	4	5	7	2	4	2
688328	Znf750	0	1	1	2	1	0	1	1
691446	Tmem190	16	9	9	10	9	8	12	4

81753	Pth2r	2	2	3	5	3	2	4	0
84494	Trpc4	25	28	24	31	24	24	17	16
24418	Grm5	10	8	3	7	4	6	7	4
294430	Calhm6	8	9	6	5	2	4	7	8
680520	LOC680520	5.68	4.8	2.55	3.7	2.11	2.22	2.79	5.43
683469	LOC683469	8	0	5.99	2	0	1	5	6
29279	Meox2	87	68	145	117	33	70	120	90
305494	Aebp1	1356	1308	2362	2050	1087	1348	1456	1421
367333	LOC367333	0	4	5	13.68	3	3	8.03	3
312495	Cyp26b1	182	272	226.99	239.98	143	149	236	164
364206	Plek	92	75	102	73	68	48	69	72
80900	Slco1a5	3.06	2.03	3.04	0	1.01	2.04	1.02	2.04
100910781	LOC100910781	9.16	8.38	13.86	10.82	9.37	5.79	7.26	9.31
304825	Crb1	41	37	28	51	27	29	33	29
25584	F3	253	254	223	321	145	155	316	174
246249	Arhgap4	170	116	166	124	115	110	100	108
364867	Ticam2	35	26	46	34	16	20	43	27
171056	Cx3cr1	48.92	51.51	74.59	60.83	20.65	26.75	53.74	76.24
308028	Slc2a12	61	41	78	58	35	43	40	61
100912139	LOC100912139	0	3	2.36	2.72	1.36	2	0	2.72
306664	Adamts16	121	129	184	140	70	121	129	112
79209	Frk	45.15	38.01	61.12	65	35.04	44.83	45.7	32
287899	Adamts2	558.57	593.05	1007.7	798.33	387.6	556.1	729.7	553.65
293624	Irf7	331	364	287	299	215	345	200	205
81782	Soat1	346	346	356	493	229	258	358	316
29152	Mstn	72	42	57	48	38	36	47	44
103690106	LOC103690106	43.08	33.56	42.77	64.95	34.71	35.82	32.6	35.78
298069	Coll15a1	912.95	1301.8	1995	1555.4	845.3	896.1	1437	1166.5
289201	Lmx1a	50	74	57	91	54	37	69	45
103693666	Zbed6	491.09	679.07	735.31	843.93	631	228.2	557.6	656.41
309526	Ifit3	66.13	63.28	54.37	64.56	55.39	45.89	49.98	36.02
100910957	LOC100910957	362.42	399.15	336.95	370.97	218	319.3	317.2	253.83
60589	Epha8	59	39	33	105	31	40	27	80
24947	Gabra3	576.91	472.65	506.4	546.95	393.1	357.7	436	399.61
58919	Ccnd1	869.69	1002.58	1524.4	1005.7	694.4	812.7	853.6	961.65
289237	Slamf8	36.57	37.5	33.12	35.36	21.51	15.07	26.46	44.54
25051	Gpllr	3.9	4.74	3.02	2.94	2.04	4.03	3.94	1.01
308113	Cnksr3	177	179	228	236	129	129	172	189
114005	Epm2a	44	28	29	46	42	27	17	25
499520	Shisal2b	8	10	19	12	10	1	19	7
108351679	LOC108351679	5.23	5.47	7.38	9.21	6.72	1.32	7.32	5.25
681266	LOC681266	2.17	3.55	2.17	2.29	2.08	2.14	3.47	0
299330	RGD1305298	8.52	10.41	22.24	12.43	10.35	13.01	7.77	9.37
100911180	LOC100911180	33.39	52.16	32.72	44.4	31.87	30.56	37.67	22.83
84400	Prelp	999	1052	1875	1595	778	1023	1169	1203
25703	Rbp4	402	230	220	259	176	159	152	353
301155	St6gal2	57	57	68	64	58	34	32	62
317553	Il1rap11	22	17	23	20	29	8	15	10
25300	Cd247	14.28	14.44	16.06	11.86	15.4	5.72	8.15	13.56
108351349	LOC108351349	3.29	1.05	0	4.52	2.37	1.06	1.09	2.18
353252	Rdh10	101	133	173	114	83	108	117	86
690865	Pcdh15	6.58	18	13	12.66	13	5	11	9
292138	Eno4	65.93	54.03	76.38	68.09	39.18	44.11	63.26	53.5
499415	Icoslg	647	491	823	674	456	597	428	513
294051	Dntt	6	6	22	3	7	8	11	2
501467	LOC501467	84.87	42.34	76.14	33.42	49.07	15.71	67.62	46.82

360524	Zcchc10	114	98	114	94	62	93	79	84
365212	Micb	16	14	15	21	11	13	15	11
690547	Adam30	5.7	8.36	11.79	7.3	10.32	2.26	4.72	7.82
316062	Slc22a13	7.04	12.51	3.09	9.04	7.63	3.91	8.48	3.99
94339	Mmp23	83	114	152	85	58	82	101	88
54301	Slc14a1	86.37	108.6	83.45	84.2	69.01	65.48	73.89	66.51
100911379	LOC100911379	9.88	4.25	10.1	12.73	6.94	3.96	6.31	10.82
24508	Irf1	211	196	241	213	133	161	154	205
315388	Tmprss6	12	14	12	20	13	10	14	7
83820	Sycp2	12	17	12	17	7	10	15	12
102552169	LOC102552169	15.91	6.04	21.19	15.65	11.03	9.85	9.45	14.27
291813	Cmtm3	163	207	208	189	121	144	163	154
680338	Clec12a	39	38	51	42	33	24	34	38
308954	Pdzd9	70.1	62.49	69.81	78.66	47.12	49.21	57.78	59.19
303948	Nepro	85	102	90	80	74	59	71	67
299190	LOC299190	1	3.56	2	0	2	1	0	1.98
102551354	LOC102551354	34	38.99	32.73	32.1	27.82	26.13	26.51	24.17
64043	Gcnt1	263.11	212.14	271.71	210.18	134.1	167.2	220.1	205.56
25211	Lyz2	7162.8	6555.3	8367.8	3560.6	5409	4557	4884	4628.61
25404	Cav1	3244	2901	3808	3540	1702	2389	3224	2935
367056	Ccdc15	37	53	59	55	36	31	44	44
361239	Bph1	156	146	149	124	115	131	118	73
498582	Wdfy4	81	70	103	71	81	63	50	53
293619	Pkp3	7.01	5.58	5.43	8.37	5.81	8	1.04	5.21
102554913	LOC102554913	0	2.63	0	2.63	0	4	0	0
497194	Rnase13	16	23	16	16	14	9	21	10
171112	Wfdc1	297	238	429	315	184	207	334	248
108351645	LOC108351645	0.97	1	0.99	0.97	1.99	1	0	0
362800	Itgb8	3414.7	4124.95	6229	4234.5	3009	2807	3999	3883.82
362376	Herc6	207	177	170	191	157	146	147	117
500015	Samd91	444.9	407.98	408.22	411.19	269.5	342.9	323.6	336.77
102555289	LOC102555289	50.18	41	49.11	58.12	37.79	37.99	37.58	37.65
500047	Wnt16	242.13	309.09	311.8	287.71	237.8	221.3	190.2	226.61
690826	LOC690826	48.37	37.95	41.29	44.76	36.32	27.3	38.97	28.68
64169	Necab1	1411	1158	1157	934	446	735	1521	847
25346	Ros1	6	7	3	14	6.29	8	6	2.56
100912585	LOC100912585	122.24	117.49	267.52	138.12	105.9	147.6	152.8	85.27
100912365	LOC100912365	8	5	5	3	5	0	7	4
287059	RGD1565166	0	9	7	5	2	5	8	1
29585	Gjb3	2	5	8	6	5	3	4	4
315806	Prtg	4	8	5	4	4	5	3	4
499260	Otoa	4	7	5	5	4	6	2	4
548326	Fcmr	131	109	182	137	93	93	124	116
316976	Etfbkmt	126	116	80	65	48	70	96	81
64513	Pawr	50	39	64	70	42	45	46	37
364688	Sycp21	22	21	15	22	16	11	16	18
171104	Gper1	31	34	24	29	19	27	26	18
500118	Fam221a	42	34	31	11	32	19	24	15
293840	Pnma3	18.04	17.77	14.4	18.62	17.79	5.68	12.3	16.74
306247	I117rb	101	103	114	163	66	85	105	111
361752	Pde6c	21	18	18	19	16	16	12	14
63840	Per2	337.65	292.41	230.63	327.81	251.9	295.9	185.6	173.93
314626	Adamts15	196.71	235	446.06	180.87	135.1	214	254.2	205
100169747	Phykp1	36.86	52.41	64.26	43.33	27.29	32.65	60.63	29.73
308108	Zfp541	15	8	21	11	12	12	15	3
25164	Cdkn2b	206.19	284.31	324.54	286.96	200.3	196.5	245.9	198.89

305909	Cenpj	297.3	327.52	361.72	300.37	246.4	248.7	266.2	221.88
689710	Hegl	473	500	874	581	393	463	536	463
102549694	LOC102549694	123.21	108	168.16	148.83	112.5	113.9	107.4	85.08
84358	Efna2	30	26.92	20	25.91	18	17	32.93	10.67
501712	Slfn3	33.76	26.41	27.54	28.14	18	29.03	13.36	28.17
366124	Agbl2	7	3	12	12	5	7	6	8
498666	Tnfsf13b	24	11	21	12	21	9	8	14
289440	Ephx4	81	85	79	78	54	65	58	70
363018	Cep295	402.55	406.18	465.6	356.53	335.8	261.6	329.9	320.22
309499	Myof	311	437	868	337	335	383	431	345
361839	Ctnna3	189	222	248	308	190	151	200	199
246774	Gimap5	70	52	47	35	34.02	36.11	40	46
296959	Cpa2	64	76	52	34	53	31	22	67
291549	Oacyl	54.93	69.58	73.91	59.19	41.55	44.67	48.5	62.49
85250	Col5a2	2328	2589	4224	3041	1621	2420	2731	2558
24373	Fst	25	35	57	24	13	40	30	25
361383	Adgre5	194	199	368	192	188	200	186	156
313479	Orc1	61.83	47.08	52.49	36.63	31.56	35.85	36.62	47.69
297077	Tmem176a	10299	7217	7609	3856	5371	4663	7458	4717
312688	Usp18	135	121	87	68	66	122	54	73
295356	Slc16a4	60	56	35	59	46	30	39	46
360604	Spata20	23	14	17	6	14	11	14	7
362572	Artn	24	12	26	28	10	20	24	15
690743	Mkl1	73	97	135	98	60	90	102	57
309653	Fgd2	107	104	128	90	73	67	95	94
364674	Tifab	60	60	72	44	30	43	48	60
310392	Slc7a11	80.05	68.43	76.44	120.5	55.73	41.73	75.01	92.45
29197	I118	21	19	36	27	14	18	26	21
499566	Car13	249	239	247	244	150	157	211	233
296257	Cst7	23	16	25	9	11	11	21	13
406161	C4b	234.54	204.7	466.04	178.52	170.2	313.8	205.7	141.72
297891	Tssk3	16.65	18.42	8.2	6.09	6.24	18.34	7.09	6.2
100361180	LOC100361180	9.84	9.87	2.8	1.3	0	5.92	5.68	6.67
307401	Pde6a	13	4	8	18	6	2	9	16
245960	Alg10	190	199	199	199	175	95	145	189
314349	Ston2	90.32	114.01	119.59	145.11	101	61.92	98.33	98.73
100363116	LOC100363116	29.99	29.19	54.5	42.23	24.51	36.37	38.01	20.82
65030	Ephx2	76	131	52	4	11	58	65	68
687615	Morn3	24	13	14	18	12	17	12	12
171360	Vsx2	16.23	11.67	10.85	13.58	10.85	9.01	14.12	6.23
84012	Slc1a6	28	28	23	16	13	20	21	19
54264	Mafb	87	99	153	98	74	95	92	75
103694857	LOC103694857	121.28	39.38	123.37	0	100	33.93	15.23	69.3
100362748	Cfap74	3	5	3	2	3	1	4	2
108351075	LOC108351075	4	5	2	2	0	4	1	5
497083	Xkr5	8	2	14	15	5	9	9	7
498365	Tmem156	2	5	2	4	4	3	0	3
500673	Six6os1	3	8	1	1	2	1	3	4
681249	Fam72a	2	4	5	2	1	0	2	7
691215	LOC691215	8	13	8	10	7	5	7	11
291936	Hhip	9	6	24	13	4	7	13	16
361419	Dnaaf1	3	8	8	7	4	3	3	10
685004	Itga9	242.18	205.54	330.5	277.85	184.4	210.5	220.3	197.43
102546678	LOC102546678	628.58	1125.61	958.16	489.06	563.2	703.7	462	734.45
291069	Ppp1r3g	32	24	38	19	27	23	16	21
363656	Bhlha9	65	58	31	68	64	38	34	35

314997	Fer116	44.01	23	32	24.46	21	16	25	33.12
102547060	LOC102547060	8	19	8	13	6	11	6	14
102554658	LOC102554658	12	14	11	11	8	10	8	11
498547	Epstil	45	37	49	35	36	38	20	34
311642	Sulf2	1273	1154	1700	1741	914	1075	1286	1251
310810	Frrs1	88.06	77.46	83.81	66.17	59.44	62.74	52.28	68.89
79557	Chrna1	68.02	59.56	55.82	61.75	58.42	39.89	47.7	43.08
102556148	LOC102556148	51.91	30.28	30.28	38.94	17.3	34.61	34.61	30.28
25582	Agrp	11	10	9	5	6	5	4	12
688019	Thap2	228	226	245	255	190	165	194	187
100912596	LOC100912596	7.75	8.6	5.31	9.93	2.69	9.91	3.81	7.97
100911365	LOC100911365	355.38	230.81	117.37	311.61	251.6	268.3	159.5	104.11
102553140	LOC102553140	10.15	14.65	23.89	17	14.94	12.21	6.23	17.33
500995	RGD1564937	1	3	4	3.2	1	3.84	3.81	0
171064	Igsf6	34	37	63	33	45	26	35	23
305309	Slc10a4	21	26	20	21	24	17	20	7
307616	Cmtm2a	2	8	7	5	7	6	4	0
316254	Tdrd6	2	5	8	7	2	5	4	6
102550127	LOC102550127	32.09	49.36	53.2	24.44	29.8	33.04	35.29	24.83
302396	Nexmif	61.55	73.2	68.85	71.17	65.14	45.58	46.92	54.73
310843	Sec24d	356	387	537	531	316	418	361	305
313993	Grhl1	43	42	47	62	40	37	38	35
100909548	LOC100909548	1927.5	1976.33	317.9	2075.9	2037	1133	835.3	864.27
361537	Tyrobp	179	150	255	105	137	107	157	132
305427	Otop1	38	57	54	41	21	45	42	39
300067	Sh3bp1	80	81	82	84	66	52	65	70
100911428	LOC100911428	6.95	7.66	10.89	16.79	11.85	7.77	4.94	8.16
414783	RT1-CE4	298.71	198.88	301.18	325.04	203.8	247.3	251.3	167.14
500638	Fam110c	11.25	12	10.91	15	11	15.17	5.01	6.86
291847	Ccdc113	7	8	12	4	3	8	6	7
301271	Ptchd4	22	25	22	24	10	26	17	19
314126	Baz1a	118	126	165	119	107	109	104	89
307988	Vwa2	20	21	18	12	16	8	13	18
499429	Tbata	66	25	49	73	16	38	57	54
499656	RGD1564171	20	17	19	15	12	15	10	18
286985	Vom2r31	7.67	8.07	7.99	12.59	5.52	6.01	9.19	7.42
114243	Nox1	9.09	8.78	7.91	10.19	12.15	2.3	8.92	4.5
287776	Cep112	76.95	61	87	63.03	47	65.22	66.98	44
246247	Fmo4	76	61	64	48	49	49	56	39
102551484	LOC102551484	6.52	9.37	7.68	6.54	8.03	4.53	4.68	6.1
362049	Unc5c	154.1	184.22	205.49	228.08	144.4	134.9	184.6	134.42
116597	Opcml	803.14	720.81	774.86	845.78	700.8	564.5	599.7	572.77
685275	LOC685275	8.83	12.68	5.25	1	5.54	5.06	6.34	4.58
365194	Cabp5	4.4	4.92	3.72	3.91	4.29	3.85	2.68	2.32
100910717	LOC100910717	129.79	78.8	119.5	158.8	175.3	87.68	64.26	50.17
303953	Abhd10	102.18	78.56	52.38	70.64	48.35	16.87	66.35	103.93
103689991	Ect2l	3.25	4.62	4.52	7.61	0	7	4.61	3.9
29373	Bmp2	25	24	37	21	24	21	18	20
100362909	Tex52	1	2	2.1	4.09	2.05	1.03	1.05	3
499537	Fyb1	95	84	118	100	86	70	72.09	80
24410	Grin2b	126.4	270	422.07	244.09	185	226	237.9	175.99
266761	Cyp4v3	172.84	301.21	223.63	276.52	165.5	165.2	212.9	212.89
100911319	LOC100911319	1271.6	1071.08	1435.4	1201.8	915	1013	969.7	970.48
498368	LOC498368	120	104	148	130	85	93	105	107
100360518	Hsh2d	19.99	21.16	22.67	14.43	17.11	18.22	12.9	12.57
299639	Ankrd24	76.25	127.8	127.74	91.17	76.39	86.82	74.9	90.62

102555341	LOC102555341	27.21	40.28	54.69	35.24	18.21	30.67	31.39	42.11
298693	Isg15	143	78	86	84	58	121	72	53
313063	Rad54b	26.01	23	17	15	21	20	15	7
288905	I127ra	8.06	6.06	9.08	4.02	8.08	4	7.09	2
117274	Nr0b2	6	2	1	0	1	4	1	1
25378	Amh	4	1	1	3	0	2	2	3
282839	Mc2r	6	2	0	1	1	1	1	4
298602	Srarp	5	7	3	3	1	1	7	5
365868	Hormad1	10	12	7	16	5	7	16	7
685839	Dnajb7	1	3	3	2	1	2	1	3
685936	Pfn3	3	2	0	4	1	3	2	1
681408	Prr19	5	4	7	11	7	3	5	6
308995	Itgal	74	99	107	85	77	73	73	61
305101	RGD1304622	145.13	94.45	161.34	113.27	86.28	83.62	117.1	113.2
361430	Piezol	312.74	299.28	525	394.35	236.1	272.7	378	305.03
171299	Foxd1	97.71	74	138.69	110.08	82	48.99	69.01	127.32
100360238	LOC100360238	5.77	13.55	10.56	2.35	5.86	7.28	5.71	6.24
102556346	LOC102556346	71	71	59	61	42	67	54	41
100911881	LOC100911881	158.91	171.44	179.3	227.23	128	169.6	141.9	134.21
363551	Zg16b	2	2	2	2.99	1	2	1	3
289247	Olr1584	8.23	8.8	8.07	10.05	7.02	6.02	9.08	5.25
60587	Dusp4	70	102	35	37	49	34	54	53
302931	Eef2kmt	71.67	39.99	48.39	42.54	32.71	40.68	33.88	50.51
102547811	LOC102547811	110.98	91.04	87.18	74.87	65.73	54.02	90.79	73.01
366988	Bin2	74	67	97	47	68	40	54	60
171369	Cd40	32.83	27.09	32.37	28.19	24.74	15.15	17.36	36.6
502316	Zfp566	104.02	89.21	90.19	75.81	60.56	69.12	66.03	84.17
292071	Cdt1	36	49	51	27	28	35	29	35
360997	Abcg314	335.65	299.02	483.35	283.21	283.7	263.2	280.6	264.47
361319	Spink5	2.49	7	4	25	7	5	12	6
100362023	LOC100362023	0	4.86	11.35	5.06	0	0	16.58	0
292843	Siglec5	87	74	112	62.97	55	54	69	83.92
308906	Trim5	266	272	275	291	173	229	253	206
80338	Zbtb10	102	117	112	119	102	52	90.97	106
499975	Fam126a	81	105	109	105	80	71	89	72
100361272	Ankub1	12	12	11	15	13	9	9	8
363130	Astel	85.27	117.43	111.52	91.43	76.05	72.02	84.98	83.4
293677	Efemp2	320	329	436	398	227	300	324	306
100912199	LOC100912199	3.34	7.38	5.37	2.11	5.55	3.19	5.46	0
498330	Aff1-as1	0	3	1.55	0	1	1	1.55	0
288369	Pex11g	19	24	14	25	12	17	14	21
287745	Plcd3	254	172	211	288	160	128	197	237
499022	Qk	427.38	524.88	483.39	666.99	356.8	315	471.7	498.02
102551435	LOC102551435	20.29	27	23	39	25	23	16.34	21
307810	Esrp2	2.07	1.03	3.07	3.05	2.03	1.03	4.14	0
192228	Haus1	105.17	63.77	86.16	44.57	74.69	19	72.18	68.18
679937	Dram1	84	89	113	84	70	62	90	67
29455	Gdf15	0	2.13	10.21	3.38	1.34	5.95	3.36	1.63
25683	Col12a1	894	1165	1908	1586	820	1107	1233	1178
501116	LOC501116	1410.5	1452.67	910.69	1752	1105	738.7	1318	1155.66
690246	LOC690246	0	0	1.28	0	0	0	1	0
108348131	NEWGENE_620180	189.44	156.01	156.01	161.58	161.6	128.2	122.6	105.86
83578	Pdxk	96.68	48.26	65.06	90.35	68.81	57.09	55.75	53.21
313834	Prkd3	522.62	517.37	545.72	574.16	395.3	385.2	473	435.4
500571	Kif17	21	17	17	23	21	8	15	17
500564	Ldlrap1	73	76	95	91	63	77	60	62

311821	Agpat2	41	51	56	31	34	45	31	30
103692025	LOC103692025	53.07	34.02	82.67	54.09	44.06	27.09	46.02	57.91
100362342	LOC100362342	40	46	44	40	22	47	28	36
171108	P2ryl4	78	79	117	89	55	67	93	69
305450	Sh3bp2	111	114	120	87	70	90	94	84
299313	Uxt	340	377	324	315	212	229	248	372
266610	Fadd	24	15	25	28	13	22	18	19
29482	Slc1a2	7	9	2	5	4	2	2	10
296344	Mybl2	20	17	36	19	28	24	11	9
316019	Ccrl2	20	16	17	16	5	19	21	9
295669	Cybrd1	359.77	244.24	402.36	377.36	234.4	241.2	302.2	305.2
100912689	LOC100912689	0	5.15	3.46	2.58	3.11	3.08	2.57	0
502901	Clec9a	49	45	50	31	36	38	30	33
171577	Epcam	9	7	16	5.05	7	7.01	10	5
679730	LOC679730	152.27	136.44	125.28	47.2	89.82	57.16	136.9	77.36
353316	Gsdme	159	151	141	186	118	107	144	130
113984	Nr2f2	1685.2	1695.59	2116.2	2251.2	1348	1337	1688	1698.21
500561	Themis2	39.34	24.14	35.67	28.03	26.23	21.83	28.54	23.04
246248	Fmo5	35	38	30	31	23	39	25	18
288364	Qtrt2	101	106	93	93	83	89	67	69
306548	Hook3	172	150	231	210	129	110	157	202
102552895	LOC102552895	360.26	304.39	319.94	329.3	211.1	254	322.9	241.77
103690896	LOC103690896	5	7	12	13	8	1	10	10
78964	Npffr2	14	6	8	9	2	5	7	15
300696	Ttc12	70	89	99	103	66	72	80	65
367195	LOC367195	9.12	10.05	9.05	5.04	6.56	6.03	5.72	7.77
361084	Lmo7	356	318	481	453	214	225	429	393
690286	Hlf	132.04	79.1	75.43	193.63	80.16	92.98	81.77	121.71
306950	Slc17a2	13	16	9	13	13	9	6	12
103690168	LOC103690168	1.38	4	7	2	4.14	3	2.76	1.38
365851	RGD1564513	1.08	3.27	1.11	2.15	2.87	2.1	0	1
296156	Cpxml	178	194	296	242	127	172	222	193
679640	Cntln	143	177	157	174	143	120	115	133
79242	Hpgd	8.76	3	2.32	5.04	3	6	2	4.01
362508	Spag8	26	26	27	28	14	24	24	22
500696	RGD1563496	18.25	5.14	1.69	27.89	5.96	11.26	9.63	14.75
288937	Serpib8	15	32	50.13	20	24	22.01	28	18
691932	Tgm7l1	4	4	4	2	4	2	2	3
296078	Pak6	58	87	67	82	62	66	45	58
362402	Fgd5	234	230	378	297	182	226	282	205
108350822	LOC108350822	10.33	17.71	14.78	18.8	16.12	8.32	10.57	13.41
498011	Mrc2	330.58	295.26	406.38	553.06	259.1	288.5	338	360.24
314785	Tmtc3	571	572	595	597	423	410	505	497
363093	Mns1	72	75	63	80	50	49	46	83
293746	Ms4a4c	12.44	0	16.09	9.08	10.66	9.79	4.65	4.48
24210	Asgr1	26	16	15	32	8	9	15	38
290646	Pde4c	306	202	230	307	193	205	228	196
102549509	LOC102549509	7.89	12.97	9.75	2.91	0	0	16.71	9.66
361749	I133	2361	1978	1537	2003	1020	1240	1984	1955
117242	Tenm2	418.89	491	655	777.95	379.9	416	590	457.92
500896	Wdr97	14	10	12	11	10	10	10	7
108348118	LOC108348118	1869.3	1496.28	2027.3	1589.6	1331	1834	1653	679.51
289881	Dr1	466.84	241.91	486.3	319.84	143.7	315.8	427.1	306.6
252917	Nr1d1	1172.1	1103.46	1244.8	1040.9	1028	1095	571	899.64
103689941	LOC103689941	143.6	246.98	306.81	132.38	161.9	264.3	89.97	137.56
293449	Vwa3a	16	24	9	17	7	12	15	18

291130	Dcdc2	85.85	120.13	93.67	103.86	58.29	76.29	84.23	99.2
100362083	Zfp866	72.32	66.29	79.36	57.09	39.44	55.32	53.62	68.41
100125363	Fbxl13	7	7	9.06	9	5	6.07	6.12	8.08
29665	P2rx7	469.89	608	730	657	406.3	481.8	593.6	461.34
299818	Llph	55.44	55.44	55.44	114.97	83.16	27.72	55.44	55.44
117267	Slc26a2	248	189	232	277	153	156	212	225
296409	Cass4	31.82	28.99	46.2	27.88	35.48	16.67	24.89	29.34
310257	Samd7	2.75	5.8	4.17	7.18	3.66	3.78	0.49	7.77
363096	Dnaaf4	34	24	23	28	18	21	21	26
364405	Scara3	596	522	1078	819	512	523	760	584
108349054	LOC108349054	3.55	2.22	1.14	2.1	2.17	1.08	1.09	2.77
500624	Mfsd2b	14	10.03	18.03	6.02	5.96	14.1	8.86	9.03
24689	Prps2	621.79	826.15	829.02	784.01	501.8	592.7	661.1	660.63
24837	Tnnt2	41	18	35	39	22	9	38	36
155268	Cldn16	13	11	9	5	7	11	7	5
315564	Robo3	18	23	15	20	8	16	14	22
362076	I136b	7	10	14	7	11	6	6	7
502201	Lrrc29	11	7	12	8	5	7	7	11
83517	Fcna	52	31	141	28	63	60	51	25
29473	Aoc3	547	417	597	640.98	376	509	476	378
305139	Gbp6	51.91	39.88	81.89	63.77	44.77	50.22	57.53	35.01
25693	Slc18a1	34.82	21.6	29.87	18.56	15.84	18.88	30.42	17.68
100359714	Phf6	666	621	579.31	732	470.7	400.8	625	556
316400	Pgap1	89	117	113	138	99	57	98	107
64086	Csnklg1	78	88	59	75	67	46	66	58
29348	Fgf7	376.14	456.07	503.88	366.18	248.6	390.4	352.3	353.53
363205	RGD1562107	17	14	22	9	15	13	9	12
287818	Cd3001f	19.01	17	32	36.98	21	12	27	23
315658	Zc3h12c	197	223	188	233	191	117	167	190
100909950	LOC100909950	1.18	4.92	0.51	1.95	6.14	0	0.63	0
84588	Cldn11	399	307	406	554	297	205	250	566
103691072	LOC103691072	2.2	5.73	6.76	9.47	6.16	4.18	2.94	5.84
298532	Tekt2	7	5	3	9	2	1	3	13
301086	Xcr1	7	9	1	7	3	7	3	6
444986	I122ra2	9	13	12	14	10	10	14	4
502380	Pfpl	11.01	5.01	18.01	9	11.02	6.02	7.01	10.02
140898	Arhgef5	54	54	84	82	47	42	46	82
361226	Cd83	216	222	187	241	175	130	189	192
360635	Etv4	167	167	226.09	237.74	140	161	161	170
367218	Runx2	89.22	94.13	151.5	92.51	90.44	103.8	74.14	70.16
288054	Ccdc14	112.96	92.3	126.99	126.58	90.53	101.9	87.11	84
24968	Psmb8	174	179.86	188.62	129.6	115	143	153	121.5
501736	Cd300a	27	18	29	22	16	24	23	13.1
29501	Slc12a4	855	989	1176	1130	759	842	847	842
103694906	LOC103694906	9.2	0	3.14	4.84	3.18	0	4.27	6.17
295425	Usp53	691	784	713	949	590	595	657	645
102554161	LOC102554161	37.13	41.98	66.42	29.13	24.32	30.5	34.86	48.79
116740	B3gnt5	209	222	257	278	151	177	233	205
305491	Ankrd36	7	3	12	7	1	10	8	4
103694879	LOC103694879	57.63	51.14	34.68	52.62	39.15	30.35	46.25	39.76
680990	Gdpd4	176	159	170	172	125	136	135	141
108350654	LOC108350654	74.84	79.13	67.6	80.94	58.46	54.38	63.85	63.27
498084	LOC498084	19.13	19.01	17.24	22.99	23.02	15.07	12.08	12.01
363984	Ikbke	117	94	138	140	75	101	110	102
501740	RGD1562156	3	6.34	2.09	0	0	3	2.07	4
79425	C1cnka	3	3.06	5.11	4.19	4.19	2	4	2

25668	Cd38	99.37	105.51	169.03	109.25	90.22	105.5	95.8	91.99
24930	Cd8a	10	3.09	5.14	12.01	5	4	7	8
100361923	Ikzf4	27.75	24.08	16	25.01	24.63	13.06	14	22
108350921	LOC108350921	25.33	26.02	33.48	29.87	18.17	21.59	26.67	24.62
680434	Dqx1	111.9	130.8	98.45	115.76	84.6	87.67	102.2	88.22
108348140	LOC108348140	30.08	18.06	20.07	17.07	19.09	9.1	22.43	17.08
108349748	LOC108349748	1.37	23.16	19.24	20.65	21.33	12.89	11.65	5.28
103690070	LOC103690070	3.01	2.67	2.22	0.84	0.84	2.85	1.6	1.65
66023	Gfra4	50	30	30	26	27	29	25	27
309478	Zfp518a	205	204	215	212	185	150	155	174
29504	Slc22a3	36	18	14	44	11	22	36	20
308787	Adamts13	317	254	375	375	257	191	321	281
303903	Parp14	436	451	491	524	381	351	407	373
56826	Adap2	119.74	92.07	126.88	100	99.23	80	93.62	75.91
294981	Spry1	109	108	97	150	76	104	107	82
83783	Sult1a1	906	758	582	843	469	575	660	753
100361830	Tram2	36	41	54	50	44	40	37	23
360733	Rtp4	156.77	124.55	115.29	118.33	79.73	104	108.3	117.65
307376	Onecut2	411	551	486	734	550	253	425	508
500442	Dnail	32	20	29	12	19	20	17	18
100912108	Nupr1	393.95	252	395	382.89	209	264	256	404
84481	Arid4b	515.93	543.85	605.58	670.81	597.1	406.7	490.7	364.62
140860	Slco2b1	513	451	551	665	346	357	518	514
311984	Gsap	137	133	186	127	102	116	126	120
298189	Bnc2	708.72	524.15	810.85	848.65	573.9	476.1	634.9	617.36
685325	Ddo	4	9	3.24	7	3.5	2	4	9
500089	Tas2r137	55	49	63	39	35	37	47	45
103689946	LOC103689946	10.27	9.38	3.61	2.4	8.53	8.35	2.37	1.18
361673	Ifitm3	822.71	923.25	1314.3	761.05	664.3	947.5	721	709.68
64519	Entpd1	299.33	176.55	280.66	282.92	214.4	230	168.5	214.74
108351043	LOC108351043	1.07	2.19	1.11	1.08	2.17	1.1	0	1.07
85419	Lyst	664	873	863	908	723	520	696	696
366078	Sp9	0	0	0	2.51	0	1	1	0
305897	Nfatc4	97	69	99	114	63	84	74	81
361641	Ears2	75.14	79	44.15	59.51	54.68	44.81	54	52
497892	Sgcd	106.01	102	120.03	135	89.09	68	113	99
299933	Dscc1	25	17	18	14	21	10	8	20
312257	Dennd2a	615	499	587	682	412	439	551	498
499843	LOC499843	10.86	15.22	9.12	5.9	11.55	8.06	6.53	6.63
100912042	LOC100912042	238.23	54.53	17.9	55.14	78.55	54.81	52.22	106.11
100911034	LOC100911034	964.28	834.75	765.61	920.46	780.4	49.21	930.3	1019.42
314870	Irak3	246	266	375	234	210	247	237	200
103691893	LOC103691893	1.02	2.12	6.47	5.11	2.31	1.86	1.08	6.49
295649	Fign	140	144	185	218	162	96	147	143
308990	LOC308990	37.28	25.44	37.13	27.16	21	22.79	17.16	40.37
296129	Ast1	33	24	17	15	22	14	18	17
685046	Erich4	29	15	22	23	25	9	18	19
296953	Irf5	94	118	148	95	90	68	122	83
298884	Gen1	42.13	40	44.07	35	38	20.36	34.06	36.19
25156	Vav1	43	53	76	36	41	41	42	42
287569	Slfn14	9.7	15.73	12.66	2.63	27.18	0	0	5.32
499240	LOC499240	43.25	21.18	23.41	23.26	27.74	22.54	26.51	11.9
117271	Hrk	93	51	44	60	53	49	53	43
362339	Creb312	380	513	646	695	395	439	510	441
313866	Plekhh2	176	134	191	206	110	94	181	180
501872	Cd84	191	211	269	246	176	135	211	211

79212	Slc6a1	202	168	217	326	106	157	169	298
29694	Gabrr1	23.7	29	21.78	32.86	28.01	13	21	23.82
54297	Rgs8	93.96	87.83	73.29	87.42	45.47	50.87	73.73	103.88
100365935	Cep851	236.49	239.04	262.02	290.71	215.8	166.8	217.3	222.49
102546892	Prrtlb	4	4	1	1	3	2	1	2
103691253	LOC103691253	21	27	16	21	15	16	17	20
103694522	LOC103694522	2	2	0	1	0	0	1	3
171398	Ust5r	1	2	0	2	3	0	1	0
24207	Apoc3	9	8	5	8	6	4	9	5
24409	Grin2a	4	3	14	14	4	10	13	1
24777	Slc10a1	9	8	6	7	8	7	5	4
25298	Cck	12	9	7	7	7	7	6	8
288751	Lrrc43	1	4	3	2	2	1	4	1
290359	Npm2	2	2	2	4	3	3	1	1
295277	Hist2h4	2	0	2	1	1	1	0	2
295475	Neurog2	4	3	3	0	1	2	0	5
303572	Meioc	3	4	4	4	4	2	4	2
365363	Ern2	5	5	4	6	7	2	4	3
365542	RT1-D0b	23	12	17	13	15	10	11	16
366261	Spo11	0	1	3	1	0	2	1	1
367080	Ankk1	6	5	2	2	3	4	3	2
499589	Lrrc34	5	2	1	2	2	3	1	2
499658	Pglyrp3	1	1	3	0	2	0	1	1
499715	LOC499715	2	0	2	1	0	2	0	2
60325	Serpinb2	3	0	2	0	1	0	0	3
64827	Crisp3	2	1	2	0	1	1	0	2
664630	Slc6a19	0	1	4	0	2	0	1	1
681112	Il20	0	2	2	1	1	1	1	1
686008	Tnfrsf22	4	1	4	1	1	3	2	2
688730	Gpr84	2	3	6	4	5	2	4	1
691311	LOC691311	1	2	1	1	2	0	2	0
81779	Sctr	2	3	2	3	0	2	4	2
89776	Slc22a7	1	0	1	3	0	0	1	3
102550256	LOC102550256	6	4	9	6	3	6	4	7
307919	Snai3	6	6	9	4	4	4	8	4
100911302	LOC100911302	25.57	33.51	16.25	34.69	21.08	26.28	21.82	18.87
314618	Arhgap45	231	193	298	185	187	171	185	183
245920	Cxcl10	101	58	73	74	47	76	58	64
100910483	LOC100910483	10.41	17.54	29.07	16.89	26.57	9.83	7.74	15.04
689421	Sntb2	45	66	80	85	60	43	61	57
501026	Sh3bgrl2	24.42	45.19	44.48	22.45	26.32	25.95	29.47	27.6
29432	Pak2	214.23	207.2	205.68	353	169.2	196.3	233.5	186.14
81773	Rps10	1634.4	858.5	1361.2	1422.3	885.5	913.7	1296	1131.74
102556297	LOC102556297	32.58	25.87	27.48	22.05	17.17	19.82	24.87	24.66
689153	Chn3	6.68	5.59	8.24	5.51	4.26	3.37	7.65	5.57
499933	Dsn1	64.27	33.9	72.01	56.57	54.27	39	41.64	46.79
108348169	LOC108348169	40.06	39.51	42.18	47.64	32.62	39.27	37.22	26.66
299783	Glpr1	69	68	75	45	42	43	64	57
302977	Rnf151	28	31	32	30	17	24	22	34
25720	Tcf12	709	768	824	833	538	602	722	651
498741	Mboat1	359	450	501	326	245	326	372	369
365299	Bnc1	28	28	33	33	26	25.88	20.96	25
298159	Dcaf1212	0	0	2	3	2	1	1.01	0
405098	Olr1236	3	0	1	1	1	3.01	0	0
116466	Wnt2b	203.02	162	219.83	199.96	129.5	119	198	183
83470	Bmp1	965	743	1303	1042	690	830	937	795

89788	Gna15	29	22	62	29	25	28	22	39
497904	Meikin	1.97	1	1	1	2	0	0.99	1
83469	Lrp4	428	391	479	574	365	370	384	384
103692111	LOC103692111	12.87	7.18	14.77	5.35	5.66	11.16	10.25	5.19
100360487	Fam131a	176.99	301.61	166.64	122.29	186.8	76.83	154.6	198.28
316415	Fam126b	373	434	407	499	421	183	365	407
113955	Gpnmb	281	342	516	255	207	330	355	228
289235	Slamf9	67	70	83	65	30	60	77	62
102552659	LOC102552659	69.25	89.44	113.96	50.55	45.49	60.14	47.62	106.53
117539	I110ra	91	78	91	102	58	55	93	85
100366216	LOC100366216	75.54	55.06	70.03	46.21	27.8	55.61	56.38	58.67
499973	Atg9b	4	5.52	2.16	2.3	2.23	4.78	2	2.23
297176	Mad211	115	92	137	90	82	77	104	86
25118	Itgal	77	113	126	144	74	49	137	110
257649	Cenpf	42	18	56	22	28	29	35	19
498583	Frmpd2	12	7	7	20	9	8	11	9
100360475	Galnt15	38.08	34.1	32.94	26.89	27.17	31.02	31.02	16.99
296468	Birc7	2	6	3	6.4	6	3	1	4
682431	Iqcc	86	58.98	87.77	56.82	47	58	78	50
362598	Sh3d21	28	30	40	30	14	27	25	37
291015	Ogn	2589	1600	2176	2950	1425	1476	2326	2271
79129	Cyba	217	174	268	177	162	162	182	167
297073	Rarres2	860.44	741.98	938.26	618.73	533.7	567.5	746.1	697.01
102553986	LOC102553986	54.03	62.87	68.01	72.73	56.46	60.89	50.06	40.11
289747	Osm	4	13	8	11	12	5	6	6
301082	Cdcp1	9	8	5	14	6	3	15	5
688297	Pde6g	8	13	5	10	5	9	9	6
84024	Pon1	6	8	9	13	5	6	9	9
315309	Tfcp2	254	445.99	455.71	339.03	258	256	344	346.13
500527	Lurap1	136	127	134	113	90	96	89	136
100359680	Lpcat2	285	396	365	263	249	310	217	279
500386	RGD1564405	14.52	3.03	32.01	16.47	11.54	7.07	18.57	16.06
24309	Dbp	893	740	650	619	716	729	343	552
362415	Tt113	95	90	96	96	82	70	79	73
102553858	LOC102553858	9	5	11	6	6	2	5	12
680609	Ebi3	37.33	24.76	53.92	32.07	40.96	30.3	26.4	21.76
103690914	LOC103690914	19.12	27.1	18.8	16.15	22.19	10.93	10.41	21.94
316711	Gtf2a11	30	26	32	31	18	27	30	21
287451	Slc16a13	193	155	202	216	115	125	193	185
29520	Padi3	20	21	27	20	23	13	19	16
100912479	LOC100912479	1.51	5.26	3.35	2.98	1.36	0	6.05	3.16
679572	Romo1	300.36	259.08	171.59	259.54	211.6	293.9	268.8	25.09
25570	Trhr	17	14	16	10	9	13	11	13
499885	Itpripl1	104	98	121	102	78	77	86	102
291649	Pcdhb10	50.99	58.29	55.77	50.05	47.38	38.9	46.52	40.81
313625	Myom3	53.53	39.45	103.24	66.87	50.27	48.79	49.08	64.22
25464	Icam1	170	144	260	220	113	179	166	183
102550664	LOC102550664	10.97	12.57	16.67	15.49	17.98	5.55	11.37	10.07
498176	Bri3bp	35	37	32	31	33	23	29	24
100911403	Ms4a4e	69.96	43.75	68.57	55.79	33.79	41.69	69.18	47.57
311071	Zeb2	1999.6	2282.06	2795.4	2731.4	1746	1754	2362	2058.9
361122	Ankle1	32.61	23.99	38.96	21.03	31.15	25.01	24	14
100359517	LOC100359517	0	0	1.04	0	0.84	0	0	0
362801	Garem2	3	3	5	15	9	5	3	4
363782	Cfap44	7	6	9	4	2	11	2	6
685067	LOC685067	211.01	265	344.46	300.97	201.7	188.3	242.8	273.01

306204	Flnb	1194.2	1522.4	1806.9	1804.2	1257	1214	1306	1335.57
171498	Sgk3	83	97	122	73	88	65	90	60
361051	Phf11	70.08	56.45	72.33	55.91	41.56	50.78	60.18	53.36
315191	Fbln1	415.67	333.71	533.64	792.1	367.4	335.2	495.1	479.59
103690317	LOC103690317	254.59	236.78	94.56	178.23	99.27	71.32	231.6	215.62
360539	Slc47a1	98	96	85	118	99	41	67	114
308346	Tmem150b	23.27	10.71	31.03	22.53	18.11	16.91	13.3	22.47
499935	Tti1	526	514.02	530.24	546.82	453.1	411	436	411.94
306264	Ankrd28	1304.4	1127.97	1197.1	1096.5	1074	947.4	942.1	858.39
682865	Rab42	49.19	28.34	46.49	34.67	35.4	25.67	36.25	31.05
100365450	LOC100365450	8	1	7	5	3	3	4	7
25525	Pspn	9	14	8	11	8	6	10	10
499265	RGD1563217	15	10	9	8	10	9	9	6
293947	Arhgap18	140.02	152	185	152.97	111	128	149	122
361617	Arap1	1100.9	911.72	1149.6	1107.2	769.8	821.8	908.6	957.17
266715	Fzd3	113	125	142	193	142	55	122	145
100910478	LOC100910478	43.82	24.2	21.6	24.68	32.31	17.49	24.28	18.49
317237	Uppt	168.27	184.18	197.82	241.12	162	114	189	176
295619	Ernm	25	36	37	23	21	21	30	26
300236	Smagp	33	25	37	26	18	20	34	26
297758	Terf1	197	153	198	194	140	147	152	162
85311	Plala	59	54	71	53	50	37	48	57
24298	Cyp21a1	136	117	181	98	97	106	91	137
103690031	LOC103690031	205.41	177.04	213.66	210.32	164.2	105.1	215.1	168.98
361914	LOC361914	18.3	22.52	23.18	25.39	11.25	25.56	20.26	15.36
289712	Evc	194.74	191	218	214	146	188.7	154	174
308068	Nkd2	200	205	313	232	152	173	247	198
308232	Zfp51	47.32	34.5	53.5	45.95	27.14	36.32	37.17	46.3
686611	Sinhcaf	92	69	80	76	62	73	72	50
24783	Slc9a2	38.97	23	36	34	37	18	21	31
361105	Plac9	98	72	166	71	70	92	98	70
366733	Diras3	15	5	10	7	8	6	8	8
286963	Cyp2d5	5.2	0	1.9	4.69	3.99	0	3.6	1.97
680177	Prr22	54	64	62	58	56	56	39	42
367714	Rp2	139.16	137.12	154.66	137.5	105	111.5	129.1	115.42
100911109	LOC100911109	10.01	7.51	17.68	16.65	6.15	9.49	12.51	13.9
363577	Itk	34	12	15	29	17	23	15	18
361135	1-Mar	54.71	54.69	82.1	48.58	60.29	36.69	50.75	47.02
78962	Per3	552	523	442	570	459	436	368	430
100912009	LOC100912009	60.85	94.27	98.21	58	65	30.55	88	69.01
102553010	LOC102553010	8529.4	3335.58	3490.4	6040.2	7230	6194	3763	171.13
100364132	Zfp300	41	31	43	44	35	19	38	37
100360287	Zfp952	101.09	117	117.51	138.18	104.1	99	80.42	100.99
689853	Clec2e	30.9	18.34	24.41	27.51	19.91	27.36	12.6	22.23
500666	Dact1	174	127	272	193	154	141	145	182
57022	Adam4	16.21	18.79	15	26.9	13.86	18.92	15.05	14.62
297590	Vom2r52	31.81	22.89	34.25	34	28.01	24.53	22.35	24.97
360692	RGD1563888	157	129.6	171.87	141	125	97	148	116.91
499801	Ifih1	220	204	189	219	141	173	184	178
83585	Gda	787	816	975	798	673	608	796	666
192208	Slc38a5	21	16	15	12	19	4	12	17
501861	Axdnd1	8	6	7	11	5	4	9	8
102548694	LOC102548694	32	23	25	32	23	16	27	25
108350448	LOC108350448	1	7	4	4	1	3	5	4
25704	I12ra	5	1	4	6	3	1	6	3
314416	Ak7	7	7	1	1	2	3	4	4

501046	Bfsp2	6	3	5	2	4	3	1	5
58813	Nt5e	246.31	229.82	344.5	279.49	226.6	208.8	196.8	261.69
363292	Ing5	130	137	140	127	99	112	116	107
307212	Cndp1	251	337	414	265	195	249	294	292
310833	Arhgap29	508	412	487	471	323	316	422	466
361746	Rfx3	198.55	191.68	216.26	211.97	166.2	145.8	186.2	167.59
311170	Slc43a3	487.57	489.59	651.97	575.49	360.7	420.5	516.6	495.63
29731	Kcna3	25	50	75	70	61	24	54	40
100362547	Aplg2	181	139	186	138	124	149	138	113
257646	Frmd6	811	935	1153	1049	661	774	962	816
311764	Zfp217	163	164	178	145	136	133	133	127
25166	Casp1	60	48	79	44	42	36	53	57
24649	Pim1	66	48	81	63	48	54	45	63
689232	Nxn12	47	28	28	26	25	23	35	22
497979	Tmem100	258	201	312	240	165	190	263	205
498226	Pm20d1	43	56	56	44	37	42	43	40
287719	Ifi35	210	185	193	133	174	150	129	134
311910	Zbtb26	168	163	164	170.42	142.4	95.94	126.4	177
100910265	Cdr1	178	146	119	192	199	76	112	130
117955	Slc4a7	252.58	302.83	348.35	318.67	226.4	240.9	287.9	240.14
103693664	LOC103693664	7.27	5.91	2.82	10.28	4.5	2.28	7.79	6.83
103690154	LOC103690154	313.32	306.42	305.09	215.84	201.6	235.7	249.8	241.73
408240	Mcpt812	59.57	32.14	61.87	1.61	41.83	37.83	29.73	16.99
108352965	LOC108352965	176.09	112.01	135.27	133.5	95.61	107.4	127.5	122.99
312474	Gcfc2	145	124	145	136	121	100	109	118
305142	Abcg313	375.95	563.06	737.77	544.3	522.2	325	575	387.3
286972	Ptar1	47	55	43	87	67	17	43	62
100361818	Nfatc1	323	381	384	563	232	322	434	357
414788	RT1-T24-3	288.94	323.29	238.28	203.81	210.1	275	157.3	216.57
24230	Tspo	165	109	176	90	99	113	108	120
25651	Selp	23	27	37	21	33	14	28	13
290755	Ccdc110	6	2	1	4.5	1.5	3	3	3.5
315882	Zic4	6	5	7	9	6	1	6	9
103690160	LOC103690160	194.3	206.21	178.11	159.84	138.1	130	123.7	210.16
685116	Gbp3	26.99	41.05	33.99	26.15	23.51	22.68	31.99	26.31
100363368	Poteh	25.14	26.84	24.99	33.71	15.23	23	24	28
689069	Parvg	58	64	77	61	47	47	60	58
309368	Lama2	2780	3185	3501	4008	2242	2535	3180	3031
108349516	LOC108349516	34.04	30.83	26.02	32.79	23.48	45.12	15.69	16.58
306970	Hist1h2an	14.61	6.03	6.98	11.91	6.46	5.53	13.56	6.69
302705	Mbtps2	288.15	269.61	291.41	321.68	221.2	179.3	315.1	239.35
690507	LOC690507	3	6.99	3.2	0	2.07	4.69	2	2
310839	Fnbp11	102	93	113	110	91	70	94	86
100910033	LOC100910033	1.74	12.26	9.46	16.4	9.22	4.52	9.94	8.84
361448	Ginml	407	540	522	456	372	451	357	391
83575	Cpz	122	166	96	253	85	118	95	222
79429	Pdgfc	38	37	46	37	26	38	34	31
315263	Adamts20	588.41	659	639	661	407	506	643	523.87
361747	Spata6l	54.01	43	46.74	38.63	47.24	36.3	40.43	24.94
103690110	Zfp78	43	39	48	39	34	26	36	42
294410	Man1a1	358	372	577	439	360	352	386	328
305584	Rel	49	35	47	60	39	38	44	35
102552482	LOC102552482	107.2	118.21	78.62	81.92	90.88	66.44	82.81	75.19
24553	Met	98	90	159	74	82	83	98	81
102553620	LOC102553620	10.56	3.68	6.65	13.78	4.91	9.01	6.21	8.2
25273	Smo	345	298	349	408	258	246	329	311

100910879	LOC100910879	4.81	3.13	0	0	0	1.91	1.61	2.97
100365872	Eif4ebp3	87	82	103	73	74	69	69	70
303742	Faap100	197	197	190	183	151	160	180	136
314196	L2hgdh	53.13	58.34	48.43	55.75	30.98	43.72	56.73	44.9
108348165	NEWGENE_2813	77	36.94	62.16	68.38	28.73	62.16	51	58.02
689174	Zbtb34	62	63	55	67	52	45	55	50
102555942	LOC102555942	26.63	35.14	29.05	22.21	26.79	27.94	18.92	18.79
690538	Scai	113	128	157	162	115	75	116	152
108349109	LOC108349109	22.18	18.24	18.2	19.53	11.87	13.58	23.81	14.66
83722	Plk2	575	590	751	528	459	501	534	505
303538	Dhx58	108	104	92	97	73	106	70	79
688637	LOC688637	475	484	448	479	372	376	431	364
24612	Omp	13	12	10	9	8	15	9	4
292684	Rsph6a	7	5	5	5	4	5	0	9
296472	Srms	8	4	3	7	3	3	8	4
317324	MGC114492	4	3	2	2	3	2	3	1
366206	Otor	2	3	3	3	2	2	3	2
498691	Cts113	2	2	5	2	2	1	5	1
29363	Cxcr5	24	12.05	18	17.1	18.09	11	15.08	14.05
310855	Gstcd	74.32	84	61.54	71	56.62	53.69	72.53	55.2
502902	Clec7a	89	74	153	75	75	54	108	83
293186	Lyve1	185.54	189.02	535.92	129.46	173	208.3	278.1	191.7
290027	Parp2	219	253	239	209	170	182	194	207
171575	Dnase2	290.97	295.54	366.09	264	239	255.8	226.6	274.55
289211	Fcgr2b	37.67	28.76	83.82	42.87	27.86	33.81	53.64	42.79
79431	Bhlhe40	283	315	383	459	328	311	283	257
315750	Lct1	5.02	4.15	3.02	1	1.15	5.41	2.11	2.13
108351334	LOC108351334	2.04	2.09	2.02	5.17	2.06	1	3.09	3.12
365661	Erbin	960	967	1276	1041	794	845	952	885
81678	Itpr2	218	230	281	305	186	209	200	252
498089	Dtx3l	419	384	426	414	329	330	332	355
102556967	LOC102556967	298.66	275.47	320.24	281.66	235.9	228.8	229.8	268.97
499723	Col24a1	448	575	513	618	319	477	457	512
102547029	LOC102547029	289	2.66	4.24	138.23	4.94	87.53	140.2	123.05
306110	Klf12	432.51	453.12	460.21	501.86	361.5	308.2	418.3	426.14
361433	Cpne7	134	147	163	149	85	117	118	166
103694881	LOC103694881	0	0	0.44	2	0	1	0	1
294188	Olr1731	0	1.22	0	0	0	1	0	0
363464	Piga	71	77	71	75	66	50	67	58
304960	Olfml2b	593	653	1065	747	494	726	711	576
362429	Mfap5	506	384	570	394	302	395	428	395
25147	Cyp19a1	4.18	8.33	7.71	3.17	5.85	3.1	1.17	9.06
366792	Mettl7b	36.01	8.46	12.71	48.51	20.54	9.28	35.52	21.33
102554034	LOC102554034	231.85	398.86	230.62	258.61	196.9	238.6	331	151.9
314654	Myo1f	157	144	192	113	130	115	125	127
102555644	LOC102555644	113.53	117.22	95.84	96.48	75.59	75.64	83.03	112.83
58917	Hpx	10	6	13	10	6	7	9	10
690467	LOC690467	96.9	45.14	89.64	42.69	68.61	22.32	77.64	56.56
303612	Polg2	44	50	46	33	45	25	39	33
301255	Spats1	20.56	15.39	7.12	14.52	15.18	12.2	9.56	10.34
305604	Efemp1	1358	1497	1764	1432	1079	1127	1469	1294
29415	Slpr2	328	321	359	379	262	252	310	315
65191	Gabre	6.12	14.04	17.03	14.02	10.02	13.05	9.95	9.04
103694855	LOC103694855	110.09	71.24	153.75	12.97	76.92	114.4	35.11	59.41
499469	LOC499469	16.08	15.63	19.72	9.26	10.16	14.97	11.38	13.34
685664	Dnal1	213	249	207	261	182	167	216	199

295337	Bcl2l15	9.12	10	9	6	9	5.03	7	7
367313	Col6a3	757	1073	1963	1093	753	1281	1088	892
309902	Tet1	29	34	32	62	43	14	31	41
499697	Trmt13	115.73	108.77	135.64	129.57	93.36	92.28	108.4	108.32
85251	Col18a1	999	1191	1853	1172	924	1212	1076	1074
313994	Klf11	281	270	312	243	224	219	237	229
170632	Fgf11	43.62	29.68	53.52	55.15	30.39	34.94	41.1	43.14
315760	Parp16	110	117	106	77	73	88	73	103
310405	Maml3	78.73	94.86	103.75	110.43	71.08	80.35	89.49	77.85
100911104	LOC100911104	37.87	21.39	31.93	15.31	43.08	16.49	11.98	16
313370	Hook1	158	146	160	143	124	96	126	153
156117	Casp12	62	56	70	65	36	47	61	64
289287	Gpr137b	1430	1643	1740	1632	1265	1336	1326	1372
24273	Cryaa	9	15	9	12	6	7	11	13
252959	Dnah12	7	10	21	7	10	5	11	11
25450	Gabbr1	42	38	49	51	30	25	58	35
59320	Adcy10	13	16	7	9	6	11	12	8
499253	Itipr12	94	111	118	99	79	78	100	90
103690137	LOC103690137	63.18	54.02	54.45	67.46	60.57	34.7	55.08	46.32
315348	Nckap11	241	210	282	243	198	177	223	205
362133	Lypd6b	19	15	14	31	11	10	20	24
498528	Shisa2	16	11	21	31	11	17	11	26
499241	Scube2	23	26	36	28	21	22	17	33
679566	Alkal2	16	25	30	42	28	28	23	14
25148	Egr3	223	199	191	557.99	256	249	233	226
155696	Dcbld2	1440	1509	1765	1553	1153	1181	1470	1356
102546590	LOC102546590	13	15	7	9	14.65	4	4	13.58
502217	Raet1d	8.36	3.91	2.49	3.59	1.46	4.34	3.63	5.68
100124593	Cxcr6	7	2	3	5	1	4	7	2
24448	Hrh1	155	96	111	97	93	66	114	105
298398	Fam221b	5	8	0	4	4	5	1	4
316384	Cavin2	405.77	285.25	393.26	485.1	290.9	288.8	391.8	321.24
296072	Spred1	964	922	1072	1024	741	847	892	800
81646	Creb1	790	724	847	864	640	634	700	683
500124	LOC500124	28	37	32	28	26	17	35	25
312358	Prr15	108	126	98	83	59	96	93	94
304485	Hvcn1	61.58	76.79	89.65	74.61	64.43	67.28	67.03	50.68
100361655	LOC100361655	18	26	22	25	15	25	21	14
84492	Tec	190	189	268	275	147	123	241	249
312510	Tial	483.44	521.02	598.56	522.47	434.4	373.1	487.5	457.08
65190	Rsad2	251	161	176	118	179	235	98	70
313782	Fbxl12	96	119	114	64	92	72	72	88
361112	Vstm4	106	126	127	143	84	117	93	120
307986	Nhlrc2	474	481	520	505.81	379	421	434	400
294711	Ppwd1	235	215	249	222	178	182	210.8	189
499762	Med22	278.24	275.77	277.24	253.31	240.6	222.1	256.2	175.86
102549817	LOC102549817	67.88	70.41	74.62	60.23	60.67	64.34	49.27	51.06
54257	Grik2	267.99	181	361	242	243	165	208	252
299897	Trps1	172	171	189	172	134	145	164	138
317676	Lat2	48	28	59	31	41	35	26	35
298138	Rasef	49	54	62	64	45	38	54	52
498492	Ccnblip1	15.42	15.63	20.34	12.02	13.73	17.57	7.19	13.85
681217	Zfp862	165	201	226	193	164	141	163	180
497894	Zfp62	314.08	295.69	345.17	326.27	223.4	222.3	315.8	296.23
500131	Creb5	262	221.03	301	306	211	206	264	219
685136	Spint3	1	6	7.96	4.66	1.01	8.19	7	0

362863	LOC362863	60	61	54	66	44	49	52	54
367323	Nudt12	475	498	472	428	386	350	411	400
681694	Liph	12.34	10.78	11.71	11.39	10.07	9.8	6.91	11.4
286915	Vom2r53	6	7	4	6	4	6	4	5
305311	Txk	5	7	6	5	1	5	4	9
679957	Gpr18	7	8	5	3	4	9	2	4
367039	Dock6	575.03	544.01	769	863.08	534	514	639	585.88
362050	Gbp5	217	241	324	271	201	209	235	225
100912604	LOC100912604	0	101.24	101.24	0	0	0	97.14	70.17
298185	Frem1	48	67	98	116	49	47	102	74
290046	Hnrnpc	907.01	1119.58	936.06	771.29	688.8	749.2	605.5	1043.93
498331	Ptpn13	988	1001.72	1148	1202.8	741	951	882	1015
103693267	LOC103693267	40.07	50.24	44.05	64.67	24.63	49.82	59.09	31.04
117240	Heph	80	86	147	103	70	61	102	111
317391	Shroom4	91.23	91.96	106.17	109.92	100.2	66.45	90.21	73.38
282825	Zfp161	315.99	295.73	288.2	259.81	232.3	260.9	244.3	221.66
305112	Vom2r66	5	4	2	7	5.89	0	5	4
25441	Fcerlg	399	359	519	286	301	295	363	334
315651	RGD1562811	32	25	22	31	27	25	25	14
306934	Ripor2	245	253.4	239	237	198	196.5	209	202.67
296654	Gsn	7525	9351	7360	6600	5216	7104	7306	5886
500112	Gimap8	177.67	144.76	148.06	97.86	96.23	113.8	154.9	105.4
25316	Ms4a2	6	7	40	5	10	13	17	8
314615	Prtn3	9	6	8	6	9	3	9	3
360591	Prr11	21	12	29	25	21	22	21	8
310207	Sema5a	3728.1	4099.52	4212.9	3820.9	2497	3438	3667	3528.24
681309	Thbs3	140	161	160	137	87	138	149	121
306819	Kdmlb	221	223	266	238	210	188	204	183
103690058	LOC103690058	10.29	16.79	17.93	10.27	8.75	12.37	14.33	10.33
304500	Acad10	155	176	162	118	96	127	118	165
363113	Syncrip	1310	1232.1	1302.8	1281.1	980.8	912	1191	1161.45
306469	Cfap97	193	223	227	195	189	178	152	175
312727	Tspan11	242	237	412	217	206	215	277	220
296616	Cercam	145.9	147.02	208.08	153.85	112.2	173	150.2	107.13
303130	Fst14	8	12	9	6	8	8	8	5
500113	Gimap7	34	20	36	15	27	23	16	21
690368	Tmem253	6	8	8	13	8	2	11	8
294770	Card6	365	303	351	399	276	322	256	321
685881	LOC685881	8.95	16.27	7.92	9.47	9.16	11.7	6.44	8.01
103693723	LOC103693723	13	18.48	19	19	16	12	16.58	13
100910554	LOC100910554	1	1	3	4.93	2.19	4	1	1.04
100911456	LOC100911456	70.83	56.51	59.39	7.99	48.25	9.51	56.8	46.83
314111	Klh115	89	84.69	62.77	74.6	66.96	50	73	67.91
315306	Mettl7a	695	524	464	494	389	417	454	545
306825	Myliip	399	387.48	423.2	357.61	300	289.7	335	374.99
78972	Zfp354c	102	90	109.77	114	84	63	105.8	92
25056	Rbp1	203	220	255	242	179	130	212	242
60442	Lin7c	132	118	158	137	113	95	126	118
114002	Ndst2	225.92	226.55	294.8	224.29	192.5	172.5	181	259.77
361710	Sipal	706	698	951	752	536	695	700	646
305967	Kif13b	1981	2226	2056	2121	1310	1830	1752	2063
360518	Gfpt2	214	259	293	255	169	236	252	190
307428	Tnfaip8	141.59	98.47	120.26	114.42	89.34	101	111.5	92.01
315863	Ube3d	41	27	44	70	52	55	24	20
303905	Parp9	439.1	420.48	481.69	563.38	428.1	435.9	334.9	381.41
64021	Gpr173	28.17	29.41	30.73	26.84	20.54	22.19	23.41	29.41

364837	Gypc	174.91	136.66	193.07	172.9	110.8	124	168.6	158.8
691138	Spx	0	1.53	1.62	3.27	0	0	3.17	2.16
81750	Prosl	493	438	569	450	339	405	432	443
83580	Thbd	616	522	713	490	435	440	632	437
314360	Galc	518	643	565	574	370	587	513	440
29141	Gal	104	96	69	79	41	63	71	114
308768	Ticrr	11	11	22	15	17	15	9	8
301056	Ctdspl	505.56	413.5	439.35	495.78	394	406	390.2	350.11
310448	Igsf10	79	69	140	96	59	91	89	80
303310	Hic1	100.14	99.8	156.54	106.45	58.87	90.87	99.85	135
311592	RGD1563354	734	862	828	740	473	784	655	717
315824	Bmp5	131.45	144.41	108.23	167.74	106.5	75.93	117.8	158.46
102551899	LOC102551899	27.77	49	43	27	21	23	41	37
502389	Npm3	68	53	77	51	58	43	51	55
287285	Shroom1	54	52	83	66	43	48	59	62
79049	Secisbp2	198	220	211	225	153	192	191	174
140587	Sox5	119.81	123.12	138.6	157.82	93.34	102.8	126.1	126.33
294804	Rail4	425	472	540	459	337	399	407	434
100910278	LOC100910278	5.33	4.2	4.22	6.88	2.62	5.19	3.94	5.41
499866	Fam98b	27.99	10.55	7.25	13.8	11.85	9.53	12.69	15.5
100360380	LOC100360380	305.18	241.64	257.77	241.11	184.2	206.7	228.1	250.97
311886	Cntrl	228	215	285	272	211	198	201	222
317204	Pcdh11x	21	28	35	47	40	16	25	28
498282	Arhgap30	71	65	99	57	69	43	64	67
295672	Fkbp7	175	196	228	170	121	158	163	198
117036	Lamc1	3753	4398	5345	5609	3512	4002	4486	3902
364514	Shld2	200	183	154	179	162	131	151	152
171146	Kcnh5	45	53	56	85	64	22	52	61
102553031	LOC102553031	12.15	8.11	7	10.17	11	4	8.06	8.11
81507	Bmpr1a	928	945.58	925	1065	789	699.4	873	856
314275	Slc39a9	317	298	267	314	253	211	238	294
363328	Ticam1	46.24	70.5	71.55	71.41	45.67	46.06	67.26	57.29
80881	Serp1	1469	1554	1615	1427	1102	1291	1346	1312
361487	Zfp52	60.38	63.38	64.65	51.46	47.91	49.95	53.7	48.22
94196	Rnf138	174	208	174	168	152	145	167	139
308444	Axl	880	862	1182	1071	730	869	875	854
360579	Cc19	20.98	10.16	29.21	14.28	24.98	8.87	11.02	17.3
293566	Cpxm2	530	313	640	656	406	246	732	398
306226	Dux4	199.33	163.98	160.47	163.13	173.9	120.9	151.9	125.53
100362915	Zfp648	0	3	1	2	1	0	3	1
100363433	Srrm5	2	3	4	3	1	2	6	1
102551929	LOC102551929	4	4	1	3	3	4	3	0
102554659	LOC102554659	30.46	19.66	18.74	25.64	19.83	9.51	22.09	27.32
117551	Cc122	2	1	1	2	2	2	0	1
171397	UST4r	1	1	1	3	0	1	1	3
24528	Lalba	1	3	0	2	2	2	1	0
24616	Pah	3	1	5	3	3	4	2	1
266787	Eaf2	1	1	3	1	2	2	0	1
297419	Gkn2	1	3	5	3	2	4	2	2
306956	Btn1a1	5	1	0	0	2	1	2	0
309620	Btn12	2	1	3	0	2	2	0	1
310152	Slc45a2	3	3	4	2	4	1	0	5
314537	Abcb5	1	2	2	1	2	1	1	1
361994	Bnpl	3	1	1	1	1	2	0	2
366531	Ttc39d	2	0	1	3	2	1	1	1
500531	Armhl	8	5	10	7	7	5	7	6

502900	Clec12b	6	13	5	6	4	9	4	8
50546	Insl6	0	2	1	3	2	2	1	0
60448	Htr1f	6	13	3	8	9	4	4	8
678704	Atp13a3	26	42	35	35	33	10	32	40
685355	L1td1	4	3	2	3	4	1	2	3
687483	Tmem217	5	2	3	2	2	0	4	4
689704	Vsx1	1	1	1	3	1	1	0	3
690918	Tmem215	6	3	3	0	2	3	0	5
282821	Has1	14	8	7	7	10	4	10	6
293743	Ms4a14	4	2	10	8	4	2	10	4
29586	Gjb5	10	13	21	10	7	10	16	12
303563	Nags	6	4	4	4	3	5	3	4
309208	Lrrc10b	6	4	8	6	4	12	2	2
407781	Btnl3	7	4	2	11	7	6	5	2
79225	Hes5	68	38	32	12	27	26	35	37
291647	Pcdhb14	44.7	38.25	28.29	30.44	24.55	34.09	32.61	26.85
360903	Fgfr11	122	152	147	138	89	132	102	143
501150	RGD1562029	57.22	62.68	67.19	52.46	62.28	48.12	46.11	43.19
114517	Itga6	3296	3946	4327	4376	2414	3371	3935	3574
25615	Sdc2	1383	1230	1872	1423	1123	1136	1371	1296
289419	Nuak2	74	65	80	70	55	53	66	67
25473	Lamb2	2447	2367	3093	3069	1904	2316	2588	2345
298184	Zdhhc21	496	564	496	678	604	279	486	494
29528	Vamp3	1093	1076	1060	893	677	924	909	928
367832	Zfx	436	434	472	447.97	360	336	413	384
246775	Tnfsf10	141.29	126.52	149.75	146.33	104.2	113.5	127.9	124.81
364594	Tlr3	123	126	227	121	115	128	142	113
100909408	Zfp397	217	249	248	276	210	148	254	214
361269	Fam208b	313	355	359	362	305	239	308	307
361474	Ipcef1	71	64	81	92	71	48	68	70
689613	Mtmr11	221	172.82	273	193.38	172.9	145	189.4	210.5
100912235	Mast4	259.62	266.87	305.33	343.56	264	272.1	157.5	287.87
685009	Rnf169	323.63	272.21	357.67	367.63	242.6	297.4	314.1	249.09
679845	Shc4	669	790	740	844	533	686	685	637
102551014	LOC102551014	10.19	7.77	14.54	16.19	8.26	8.69	14.23	9.48
58838	Sh2b3	326.27	336.83	439.22	320.55	266.5	337.7	310.9	273.16
304498	Wdr66	33.19	18.22	27.67	25.97	19.98	21.31	23.43	23.01
25408	Cd80	36.43	38.46	54.14	51.73	29.37	29.09	45.69	46.82
311111	Nostrin	50	45	44	37	37	30	30	50
286921	Akr1b8	52.87	97.63	136.21	36.39	58.68	62.52	87.01	61.66
287423	Hes7	19	18	11	16	18	10	17.46	8
100912481	LOC100912481	620.54	600.97	824.1	880.95	465.8	526.2	572.4	880.32
306816	Zfp169	79	82	80	87	78	54	67	75
289437	Glmn	332	334	307.37	288	270	223	269	291.79
290326	Pbk	12	14	40	13	12	20	18	16
297483	Shq1	44.83	60.6	52.62	49.3	45.5	41.72	47.61	38.41
316421	Aox2	7	1.95	8.41	6.29	3	7.49	4.2	5.07
360627	Fkbp10	365	360	494	328	253	396	348	296
114507	Slc5a3	18	37	35	44	35	9	27	41
316527	Wnt10a	19	17	13	18	12	13	14	17
100910714	LOC100910714	3.93	1.99	5.56	1.86	5.59	0	0	5.56
300796	Snx22	23.6	31.72	22.6	20.11	15.94	24.48	21.45	20.07
289864	Prorsd1	56	45	60	34	41	25	46	51
316982	Resf1	544	528	625	580.01	457	421	573	452.39
100910885	LOC100910885	136.84	101.31	116.36	93.36	73.94	107.7	113.8	78.98
287949	Scarf2	281	258	348	302	225	228	286	255

24790	Sp1	854	843	963	956	709	716	791	807
360905	Mtf2	335	248	268	253	220	229	235	239
103690888	LOC103690888	0	2.04	1.62	0	1.02	0	1.02	1.02
286993	Taok1	383	549	528	651	546	237	453	529
499668	Lingo4	65.02	51	55.71	102.69	69	43.44	55.6	61.43
291978	Dus2	184	225	204	199	162	172	152	193
64702	Trim17	31	25	35	25	27	24	29	17
311401	Sppl2a	525.85	614.04	669.29	551.23	459.8	454.7	550.3	509.09
305449	Mfsd10	192.72	221.08	240.81	208.81	168.8	172.4	168.3	212.53
301083	RGD1566368	49.72	22.92	46.73	16.45	25.83	30.42	33.63	23.71
363144	Cdhr4	57	42	54	55	59	48	32	35
367645	Pif1	11.22	6.83	21.55	9.63	13.25	8.46	10.85	8.63
294789	Ranbp31	257	244	239	326	189	209	251	243
114208	Skil	617	634	734	662	519	538	610	548
500068	Ssmem1	28.9	24.23	18.94	32.54	26.39	19.02	20.81	21.33
310806	Cdc14a	290	292	298	261	264	189	286	216
366474	Coll16a1	1693	1865	3100	1980	1726	1927	1975	1602
64459	Masp2	200.17	154.78	199.49	162.14	135.1	135	196.5	133.19
502086	RGD1564308	20	12.87	23	17	11	14	16	20
679346	Tarbp1	83.38	78.84	84.16	97.57	76.17	73.31	77.24	61.23
310807	Sass6	93.87	80.36	76.13	91.96	87.77	54.78	60.84	83.22
171380	Cyp2t1	97	95	109	74	63	81	75	95
315610	Jaml	24.2	26.77	26.18	20.54	21.47	19.48	20.37	20.48
363185	Foxp4	300	304.67	343	392	231	282	312.8	296
309129	Fcho2	372	361	417	376	306	303	360	309
305350	RGD1565119	0	0	4.18	1.79	5	0	0	0
246240	Ripk3	33	31	56	59	30	30	49	41
307660	Ces5a	51	37	62	29	43	27	40	40
313069	Rbm12b	187.53	158.03	176.45	172.42	133.7	118.5	158	171.77
24747	RT1-M3-1	251.49	216.82	215.59	237.05	179.3	144.1	199.8	248.75
501552	Fancb	54	40	57	53	43	41	46	41
362418	Irak2	98	91	116	97	74	91	86	86
309131	Slc22a18	42	39	50	36	22	36	40	42
294375	Reep3	1671	1649.65	1838	1742.8	1275	1429	1629	1453.01
690419	Zfp70911	178.65	139.62	201.1	233.43	150	123	158.1	200.09
302377	RGD1560455	6.57	4	12.65	5	8	7	5.38	3.28
25094	Mitf	169.45	198.66	222.36	223.5	148.5	151.4	204.9	177.64
192281	Oas1a	108.09	109.17	87.16	98.37	80.35	120	62.45	74.91
365583	Dse	354	329	414	365	297	281	323	325
310416	Nhlrc3	330	315	350	306	273	269	284	265
102557607	LOC102557607	6	7	15	3	3	9	7	7
287761	Prr29	17	16	15	14	13	12	14	13
100363145	Stab1	570.39	500.28	778.02	662.66	451.8	485.9	622	546.9
307206	Neto1	52	58	57	75	56	36	66	45
25380	Anxa1	1545	1221	1882	883	880	998	1462	1300
100359529	Immp21	50	46	54	55	54	40	39	39
307618	Cdh5	423	369	490	613	337	385	422	446
108348298	LOC108348298	57.62	60.83	114.43	57.11	60.83	60.83	0	121.66
305064	Ptpn14	539.57	573.42	651.92	704.45	420.5	550.7	534.9	565.87
360711	Cip2a	32.69	49.07	60.53	62.87	40.62	43.4	46.74	41.4
299858	Lrp1	3490	3537	4589	4524	3014	3532	3698	3300
313922	Asx12	456.56	425.62	509.84	527.78	433.5	366.1	403.6	408.01
414792	RT1-CE10	790.01	506.59	855.57	869.92	585	668.4	715.2	567.87
501588	Tex11	8.88	6	17	11	9	7	6.99	13
171414	Pmfbp1	73	97	91	44	49	53	75	79
113940	Gmfg	68	78	113	71	62	60	91	64

308865	Atg16l2	235	173	207	182	152	170	195	152
24615	SI00a4	1424	1535	2004	989	787	1371	1323	1516
362442	A2ml1	22	28	31	25	23	28	23	15
499126	Igflr1	39	45	39	33	31	35	21	44
286979	Zfp455	50.88	43.14	70.26	67.17	47.05	40.59	49.17	57.55
299285	Clmn	279	335	393	341	260	300	290	282
103694306	LOC103694306	122.6	104.37	98.15	119.49	91.41	84.47	101.9	95.67
500688	Adam411	50.79	55.21	60	56.1	51.14	33.08	43.95	58.38
310588	Tchh	16	10	10	14	8	13	14	7
361478	Pnlcd1	21	19	27	33	13	14	37	20
59316	Nxph4	31	39	39	41	35	26	38	27
304807	Rabif	180.99	168.6	0	0	0	0.01	119.5	174.17
81762	Rock1	858.96	896.01	1049.9	984.72	782	683.9	870.8	847
301333	Ptpn18	52	52	52	38	45	35	38	45
303285	Traf4	147	104	140	110	90	104	92	135
679900	RGD1564247	43.13	54.88	44.1	58.23	40.59	32.8	45.92	49.04
361630	Tead1	1463	1590.79	1929.8	1743.8	1219	1530	1537	1367.84
259241	Nr1d2	1327	1288	1118	1211	1053	1107	973	1022
290432	Setsip	8.52	0	8.74	4.01	3.79	0	14.09	0
360886	Ahctf1	814.98	825	884	852	701	645	734	757.98
116463	Akr1b7	7.08	6.82	6.43	6.34	2.12	5.44	4.23	10.63
681086	Pigf	212.94	226.73	197.99	236.4	171.2	166.7	210.8	186.13
503429	Mpc11	80.68	76.93	75.48	67.2	47.87	69.08	75.2	60.44
287715	Wnk4	476	340	450	485	372	414	340	347
64025	Cd244	17	12	23	11	17	12	14	10
500557	Nkain1	146	143	133	101	131	110	83	116
363457	Col4a5	149	104	165	176	110	113	101	176
301455	Pard3b	77	88	91	111	80	82	68	79
79252	Adamts1	316	371	478	696	303	350	526	388
103689927	LOC103689927	39.67	70.53	108.36	65.36	45.22	65.78	61.4	66.67
103692168	LOC103692168	2.59	2.59	1.29	1	2	1.29	0	3
100363146	Fam228b	15	20	18	23	22	13	13	16
287366	Pld6	5	7	3	4	3	5	5	3
289001	Map3k19	5	3	5	6	7	3	3	3
290729	Neil3	2	6	5	6	3	5	6	2
303537	Zfp385c	5	6	2	6	3	4	4	5
58978	Slcolb2	49.7	36.08	40.32	43.75	49.67	32.91	23.92	36.55
688708	LOC688708	239.15	276.95	279.81	294.41	257.6	249.5	193.6	217.72
684529	Ctso	151	182	197	187	124	127	178	175
317599	Atp11c	343	338	359	337	265	268	334	293
108348302	LOC108348302	106	114	137	115	105.6	82	95	115
503164	Apol9a	100	70	59	82	38	91	70	63
306259	RGD1564325	1.11	1.45	2.21	0.25	4.23	0	0	0
313774	Clqtnf12	74	94	74	44	50	65	59	67
574531	Lair1	39	15.02	23.23	27.18	10	26	19	33
50677	Ptpro	219	342	296	383	300	248	220	277
316440	Ino80d	600.01	580.86	606.03	703.17	547.5	476	552	523
688324	Ccdc57	66	69	79	66	59	50	74	53
102556989	LOC102556989	10.64	8.92	6.1	3.04	6.35	2.33	11.39	4.12
29344	Zfp3611	1204	1149	1232	1333.7	1071	979	993	1102.99
117542	Baiap2	501.13	519.6	606.63	430.49	394.7	436.7	457.4	445.86
103690007	LOC103690007	194.69	204.11	189.27	178.58	185.3	130.3	150.1	180.76
315578	Jhy	70	66	64	68	68	44	57	57
363425	Cav2	1057	1108	1098	1051	609	867	1091	1071
103690827	Yy2	49	47	45	38	38	35	36	42
303090	Irgm	104.03	118.57	150.47	172.14	90.14	125.1	110	134.65

25599	Cd74	3184	2101	3379	2166	1825	1728	2139	3444
362056	Spata1	75.81	50.23	77.11	72.84	53.11	56.27	70.91	52.56
56764	Samd13	16	12	11	25	13	10	21	10
114121	Ccn11	651.53	623.46	713.32	728.27	503.7	556.7	670.4	561.41
191568	Naip6	33.85	37.06	6.79	9.44	24.23	12.39	25.58	11.33
307351	Tubb6	361.9	385.36	457.69	313.01	274.1	327.3	396.8	282.84
360487	RGD1561157	52	49	61	43	36	34	53	50
302812	Zfp280c	266.48	259.02	261.51	294.16	225.2	225.6	243.2	218.47
309986	Zcchc9	756.33	552.67	647.56	654.82	652.4	516.6	516.1	518.95
102548693	Zfp28	138	133	155	158	114	145	110	124
361878	Tent2	343	283	349	277	238	230	348	241
84423	Nrtn	35	27	37	23	23	29	24	27
362696	Ttc7a	208	208	347	207	205	207	211	196
103690063	LOC103690063	158.59	130.43	184.1	157.41	117.3	129	138.3	147.85
303016	Crebrf	1176	1153	1141	1128	983	820	1041	1039
311549	Xkr7	670.1	761.48	1186.2	850.08	457.8	637.8	971.5	862.01
100911069	Mtfr2	47	37	44	33	25	28	40	43
691907	Pla2g4f	73.55	69.3	92.59	72.58	60.06	70.79	62.1	67.25
297682	Duspl6	234.84	227.35	262.34	264.86	199.4	188.2	231.3	216.85
291377	Rttt	81	81	78	76	60	76	77	54
290644	Ifi30	306.46	284.73	377.89	258.88	230.3	275.7	292.1	239.47
499602	Abhd18	95	121	85	106	82	80	92	90
315852	Ttk	19	18	37	10	22	15	20	14
362491	Ripk2	264	227	226	246	214	197	196	207
64036	Cd55	7666	6594	7176	6156	6021	5117	5574	6611
316580	Sp140	132.05	142.17	192	118.45	111	120.8	135.4	127
84410	Klf5	837	737	943	1054	699	611	811	898
83500	Slc22a8	32	21	19	64	14	11	22	68
108353270	LOC108353270	15.09	19.44	15.74	23.86	11.64	20.08	17.36	13.61
296115	Secisbp21	7739	9018	8861	9670	6195	7145	8185	8318
103690092	LOC103690092	20.51	7.99	24.8	25.56	19.76	21.35	11.37	14.22
114709	Ifitm2	730.16	685.78	835.32	626.93	492.9	548.1	761.1	632.48
690005	Zcchc3	207	200	218	186	172	170	160	184
363062	Dixdc1	253	264	269	285	224	209	246	227
690329	Lrrn4c1	121.33	96.6	104.17	102	102.1	99.71	75.21	81.81
314584	Zfp563	120.55	119.64	123.43	105.55	91.81	96.7	97.07	111.37
100361631	Tmem35b	8	14	9	8	3	9	11	10
259226	Ppp1r14d	2	4	3	4	1	3	5	2
500904	Ncf4	56	63	105	49	61	52	71	47
102555975	LOC102555975	4	8	6	8	7	4	7	4
498079	Cd96	4	11	5	6	5	6	3	8
58962	Hpgds	16	4	21	11	14	8	14	8
100362641	Zfp945	165	167.68	116.39	182.17	138	112	126.1	158.12
288022	Ccdc50	1284	1351	1504	1447	1155	986	1320	1267
310864	Manba	231	231	234	235	188	211	186	203
303101	Maml1	232.43	252.45	266.39	206.15	212.5	206.3	179.2	212.47
301434	Clk1	1675	1480	1596	1442.6	1305	1259	1280	1399
25619	Plau	120	79	86	119	84	73	93	92
306460	Enpp6	34.47	36.49	22.44	24.54	26.58	19.65	18.75	34.87
103694120	LOC103694120	1	1.52	2	2	0	1.52	4	0
288559	Sap25	68	59	69	65	47	54	45	75
116831	Fxyd3	104.83	111.2	97.7	67.11	79.88	78.06	95.85	68.71
83819	Slc26a5	19	29	29	21	18	20	27	18
362557	Ndc1	370	394	381	384	290	319	356	330
108348090	LOC108348090	156.49	177.55	185.53	172.54	150.7	141	134.1	160.34
102555832	LOC102555832	39.02	39.78	49.47	46.06	34.11	43.43	32.22	37.91

108348216	LOC108348216	17.83	13.59	5.27	5.16	8.46	6.81	6.59	13.59
305835	Peli2	838.38	1068.8	1195.3	1090.8	735.2	947	1064	806.13
25186	Efnb1	723	644	976	935	510	590	812	865
102548800	LOC102548800	7	4	16	12.13	5	9	9.15	10
294141	Clic2	124	126	153	114	103	108	106	121
252971	Socs1	40	33	25	33	22	26	28	35
684773	LOC684773	4.2	6.07	4.46	3.68	3.49	8.34	0	3.77
295274	Hist2h2be	156	142.99	143	128	124	98	112	149
25491	Nes	2468.3	3053.41	3265	2929	1660	2432	2769	3067
681355	LOC681355	107	148	132	157	97	117	119	128
299236	Flrt2	435.03	330.96	470.88	518.76	353.5	351	390.1	393.22
307475	Gpr151	22	9	11	17	12	9	23	6
309724	Tmem26	117	122	171	154	126	111	128	113
60382	Arfip1	768	716	768	680	584	598	625	678
100910577	LOC100910577	201.91	148.94	182.84	219.97	164.6	115.1	188.7	170.5
308582	Tead2	50	48	61	51	36	42	50	50
89783	Laptm5	886	921	1038	649	615	679	749	919
29175	Ctsk	260	264	446	246	167	375	221	268
60460	Hspa2	1322	1725	2118	1357	1067	1701	1293	1469
360420	Rdh7	1.32	0	1.31	0	1.1	0	1.13	0
310019	Utp15	463.98	505.59	543.9	523.85	417.6	412	478	420
308003	Rab11fip2	300	262	282	348	268	214	273	256
116689	Ptpn6	153	135	209	155	123	142	149	139
316767	Ddx11	75.78	76.19	83.43	74.99	56.93	69.21	69.45	67.68
686091	Ccdc13	36	27	30	19	23	26	26	20
100912456	Lilrb1	9.7	12.8	27.21	13.87	9	12.9	18.95	13.09
294521	Ak9	10	6	5	12	7	5	14	2
497906	Ccdc69	9	8	8	8	4	4	13	7
501043	I120rb	35	27	40	30	29	25	31	27
289865	Clhc1	26	20	30	23	14	15	20	35
498769	Edaradd	14.67	13.83	11.21	13.36	10.51	13.49	11.72	9.32
498366	Fam114a1	565.98	643.91	673.68	583.86	460.6	546.2	552.5	535.18
103689975	LOC103689975	51.18	43.95	59.27	80.64	55.05	44.93	56.53	43
102554737	LOC102554737	1.52	2.75	5.87	3.62	4.8	0	2.87	4.01
58808	Mpp4	19	20	26	21	14	18	26	15
689537	Calr4	70	81	70	77	55	59	64	75
366174	Catsper2	95.93	71.71	83.03	111.64	80.18	82.72	71.67	73.03
102554874	LOC102554874	3.82	1.57	6.43	5.2	8.78	4.04	1.63	0
363463	Mospd2	595	553	602	588	471	416	538	560
291577	Chsy3	33	36	41	49	40	43	28	24
291047	Gcm2	19.41	18.8	16.41	17.68	18.13	15.67	15.87	11.72
25707	Cntf	1639	1600	1467	1173	683	1307	1386	1616
314814	Nav3	191	267	266	264	196	246	190	207
497078	Xk	407.5	355.11	382.31	390.32	352.1	276.1	366.7	308.84
103690025	NEWGENE_1305243	92	68	91	74	85	70	56	65
25537	Rock2	1605	1615	1853	1935	1463	1427	1602	1460
293545	Gpr139	44	45	43	54	44	38	34	42
317322	Gpc4	225	314	395	302	234	288	273	255
362261	Lpin3	121	91	125	95	82	96	102	87
363455	Chrd11	169	180.57	306.29	142.71	113.6	208	168.3	188.7
312113	Stard8	385.39	420.97	469.81	465.82	327.5	339.9	405	408.11
50552	Zfp292	410	398	465	466	419	315	353	391
84586	Fgl2	4506	5080	5755	4808	2619	4509	4955	5042
317435	Shroom2	1252	1494	1454	1412	1010	1157	1266	1337
293294	Trim6	4	5	4	7	3	4	5	5
316326	Neurl3	10	9	11	10	6	7	9	12

688276	Tmc8	47	39	46	28	39	30	34	33
287060	Sec1415	204	221	213	222	144	202	190	195
366031	Crb2	9	8	15.01	21	12	9.01	15.04	9.01
29588	Pou3f2	326.21	392.28	416.05	372.63	325.6	333.7	309.5	312.41
100912656	LOC100912656	26.07	19.24	11.23	10.32	17.39	12.05	15.33	12.07
414779	RT1-CE2	266.72	207.64	320.88	197.67	243.5	272.3	227.9	100.47
296532	Spopl	690	705	653	730	591	530	608	633
100911549	LOC100911549	2.54	2.63	3.54	3.38	2.48	5.35	1.26	1.19
362817	Cdk2	106	104	103	88	76	112	80	73
360920	Mob1b	217	211	213	228	200	113	228	198
315646	Fdxacb1	87	89	91	74	71	64	75	80
362477	Rgs20	94.06	75.46	81.5	92.32	85.84	71.62	64.77	69.8
316583	B3gnt7	43	35	46	30	35	32	30	34
360595	Rnft1	298	279	367	315	239	294	301	237
304388	Cldn15	71.89	71.32	102.57	64.1	73.74	60.11	62.83	66.93
363035	Zbtb44	365.9	371.86	419.88	393.86	323.8	334.9	344.6	316.62
287738	Higd1b	26	18	14	9	8	16	20	13
303534	Ttc25	16	24	15	12	16	12	11	18
499300	Ptprcap	17	15	25	10	18	19	9	11
298301	Mroh7	97	83	107	82	84	74	79	77
108353166	LOC108353166	127.45	123.57	126.99	161.64	107.8	114.1	120.6	116.68
310808	Slc35a3	226	238	218	211	214	175	197	174
307740	Sall1	12	10	6	19	3	1	10	26
365948	Bank1	7	13	18	9	6	18	11	5
24592	Nf1	1484	1644	1719	2179	1746	1210	1585	1439
308222	Wdr27	135.18	127.64	145.31	126.71	116.2	107.4	125.2	106.53
304833	Trove2	264.19	295.41	312.71	459.96	344.3	122.8	291.5	375.53
498922	Cbln1	37	48	30	33	32	30	30	34
65044	Clgalt1	664	647	734	674	587	532	598	598
102551633	LOC102551633	60.03	49.09	35.21	49.88	66.63	42.02	26.52	30.19
100361645	LOC100361645	311.01	252.64	295.45	312.12	225.8	215.7	296.4	259.42
102550397	LOC102550397	125.95	108.12	153.63	153.91	101.6	104.4	121.4	133.81
63883	Kcne3	62	83	92	46	42	75	73	51
306164	Tgds	176	152	159	133	124	123	145	136
304646	Mgat4d	59	0	59	64	36	0	63	56
246215	Tpcn1	2083	2072	2602	2398	1583	1859	2196	2160
312846	Rassf8	588	667	689	695	527	552	609	560
25575	Scgbla1	2	6	13	6	5	5	0	13
29393	Colla1	13387	19058	35117	20816	11413	28445	19279	16149
116677	F2r11	25.12	41.99	61.33	59.23	50.06	48.4	33.03	28.41
296972	Akr1b10	165.67	178.1	142.98	166.7	130.2	127.8	162.5	136.3
691810	Pla2g4c	1	0	2.11	0	0	0.03	0	2.62
500076	Agbl3	103.48	146.51	117.59	123.45	93.88	99.42	108.4	116.78
500133	Nod1	581	596	596	534	442	572	553	399
29735	Slc16a7	378	367	400	472	363	264	370	381
287388	Zswim7	28	49	35	37	30	30	32	35
499156	Gas2	482	572	487	540	416	439	430	489
494338	Trim25	151	173	194	160	170	141	141	126
291105	E2f3	106	120	130	146	125	81	123	99
100912062	LOC100912062	21.08	22.19	23.4	30.07	19.27	17.79	22.09	23.34
192177	Unc13d	78	75	101	72	64	83	66	65
100912536	Styx	397	394	383	328	290	319	320	352
289595	Nfx11	207	239	223	208	206	159	197	186
191572	Ahnak	13758	14868	18162	18039	13234	13638	13684	14736
366896	Tbc1d15	796	756	817	719	618	630	678	708
688649	LOC688649	231.6	136.22	219.01	119.13	163.4	78.65	215.4	144.83

294892	tGap1	24.96	23.72	24.36	19	16.06	20.42	17.66	24.38
100911700	LOC100911700	44.58	35.99	33.74	38.94	31.47	33.81	34.3	31.19
366029	Zbtb6	325	300	319	293.58	227.6	248.1	279.6	301
298247	Mysm1	753.01	754.54	806.83	786.7	648.8	619.7	680.8	697.73
25157	Plagl1	462	646	780	756	518	641	569	529
100361083	LOC100361083	125	97	140	171	160	66	92	137
313033	Xkr8	78.34	55.51	67.64	65.35	55.02	55.42	54.38	62.98
25601	Oprm1	96	125	136	224	177	52	105	162
108351703	LOC108351703	14.86	15.09	27.9	14.79	22.21	16.45	9.97	13.39
362772	Btbd7	794	830	788	899	711	613	760	743
691277	LOC691277	4.4	3.95	1.04	1.08	1.28	2.11	3.18	2.37
691379	Ice2	155	161	169	186	137	146	148	142
63879	Xiap	1094.1	1155.96	1110.8	1150.2	1043	910.9	970.5	927.44
100911949	LOC100911949	17.2	20.83	18.66	16.05	15.44	12.23	15.01	19.44
102548478	LOC102548478	72.76	62.63	69.53	96.86	78.35	60.52	52.11	66.75
294269	RT1-Da	936	568	809	531	452	442	600	935
117063	Ptpn2	229	187	226	167	165	157	176	193
311936	Rnf32	221	194	206	188	177	164	173	177
308406	Six5	228	254	243	235	184	218	211	207
102550424	LOC102550424	9	8	17	14	9	6	13	13
64355	Lsr	121	112	118	129	79	87	131	113
288093	Arhgap31	614	745	715	765	554	646	564	661
81813	Klf10	341	360	408	284	292	277	285	336
25514	Lyplal	927	850	852	819	724	506	820	896
338477	Sla	41	23	39	14	27	24	28	21
311166	Clp1	132	124	128	98	94	103	102	113
680915	Mbd4	211.19	216.5	193.77	185.82	187.1	157.5	162.8	182.68
690358	Prdm11	155	150	160	162	123	154	124	135
316130	Plin3	369.76	336.5	399.45	352.59	248.3	276.9	356.7	364.71
686081	B3galt2	200	244	182	237	154	191	209	184
305081	Cd34	252	255	344	233	239	239	263	186
498185	Slc8b1	371	335	416	391	292	312	344	346
500011	Samd9	839	841	908	847	782	657	689	810
300880	Cep162	172	160	157	147	136	108	147	153
24413	Nr3c1	1205.8	1187.5	1258.8	1461.8	1003	1011	1257	1103.89
315120	Card10	223	219	246	156	147	192	184	199
315912	Tbcl8b	215	227	258	290	211	179	221	236
305342	N4bp2	161.16	159.9	174.44	233.97	174.3	131.7	144.9	173.36
29630	Psm1	761	730	827	650	590	660	656	634
498130	Stard13	978	1173	1477	1194	882	1026	1131	1088
309757	Sirt1	332	345	370	341	304	284	293	307
309186	Fermt3	152.97	113.75	178.84	95.05	133.1	110.2	125.4	94.13
362171	Prr5l	31.16	45.43	53	48.77	40.02	33.15	40.91	38.62
315959	Msl2	534	464	492	505	431	387	451	439
303272	Pipox	35	31	53	27	13	34	47	31
498206	Tnfrsf11a	127	103	114	101	83	87	98	113
501203	My112a	1031.9	982.22	1348.8	835.65	726.6	930.7	1081	856.35
360589	Ints2	235	225	224	255	198	189	201	216
363269	Sp100	50.6	61.85	72.27	33.34	48.68	37.56	52.31	48.16
100911779	LOC100911779	103.14	121.05	117.64	115.74	97.09	107.2	111.9	75.62
690559	Zfp758	179.21	185.74	221.47	224.04	161.5	137.5	186.9	208.27
690374	Trim47	119	115	167	94	102	122	102	98
361632	Pik3c2a	935	1053	1047	1116	936	724.8	939	956
246284	Atrx	1205.7	1206.01	1463.4	1488.1	1215	908.4	1318	1152.4
246115	Plpp2	83	71	89	85	68	71	64	78
306926	RGD1563300	3.55	3.52	2.39	1.57	4.7	0	3.57	1.18

306873	Rreb1	254	282	339	348	260	247	281	260
170520	Cygb	498	485.31	492.43	480.52	409.1	443.2	401	423.01
100359945	Zfp267	480	425	445.84	464.81	374	366	396	420
100911215	LOC100911215	5	0	1	1	0	5	1	0
100911925	LOC100911925	0	2	2	3	3	0	3	0
103690241	LOC103690241	2	1	1	3	0	3	1	2
291752	Dsg3	0	6	7	1	5	4	2	1
299908	Gsdmc	4	0	1	2	0	4	1	1
300913	Il1rap12	5	6	1	2	2	4	4	2
363658	Cct6b	11	8	10	13	11	9	7	9
369018	Ldhal6b	3	1	0	3	1	1	1	3
65054	Aqp9	2	6	7	6	4	4	2	8
108348429	LOC108348429	16	6	6	7	6	6	5	13
171151	Slc25a21	11	9	8	7	9	8	3	10
365323	Olr63	54	46	82	49	36	61	61	40
85483	Ciita	58	39	50	49	40	38	52	38
100910540	LOC100910540	132.53	198.8	132.53	0	66.27	132.5	66.27	132.53
362160	Celf1	1342	1294	1405	1358	1183	1104	1202	1139
309380	Lox14	26.14	38	59	32	38	46	23	26
311352	Adal	188.06	171	162.01	165.81	159.9	137.1	146	145.99
691172	Uevld	31.01	41.12	45.08	66.93	40	16	48.93	52.99
85490	Col5a1	2149	2753	3838	2983	1899	2900	2798	2457
100362733	Irgm2	432.52	416.92	473.7	453.32	319.8	410.4	360	434.01
29146	Jag1	989	893	816	903	826	737	650	877
297824	Dpy1914	365.03	385.38	399.02	434	358	244	373.8	383
300711	Atm	540	576	575	573	495	378	532	538
103692719	LOC103692719	269.36	163.3	202.76	174.2	161.1	190	170.7	173.01
24517	Junb	494	438	481	830	576	515	463	371
298322	Lonrf3	48.9	49.52	35.75	61.36	44.52	45.2	29.29	48.8
313587	Zc3h12a	54	52	71	70	56	46	59	51
29345	Serpinh1	3648	3864	5531	4964	3015	4173	4340	3928
297989	Ddx58	297	284	291	321	254	317	238	215
499342	Cd274	770.98	748.59	798.27	832.16	726.8	625	722	630
100910807	LOC100910807	224.89	303.18	340	308.27	167.1	199.2	334	309.68
361100	Top2b	998	942	1084	956	813	827	930	847
310190	Otulinl	201	163	184	166	133	160	138	182
315883	Plscr2	60.42	86.33	109.6	75.98	39.33	71.14	97.57	77.29
302946	Glis2	411.24	373.48	438.24	436.19	309.7	302.1	350	462.85
140433	Lama5	415	517	557	450	366	475	415	409
303242	Dnah2	19	22	25	26	23	15	27	14
303382	Ras110b	72.07	66.48	111.06	110.54	72.19	78.58	81.26	77.24
304037	Ar113b	344.6	354.35	369	370	302.5	276	322.2	334.43
316732	Smchd1	665	674	746	707	593	537	657	611
307940	Disc1	105	174	174	185	102	147	133	166
100361376	Kank2	1014.1	967	1203	1152.7	771	935.3	971.2	1048.25
502541	Lor	13	23	20	15	11	19	20	11
302703	Klhl134	180.85	133.78	210.83	184.69	136.4	149.9	180.2	143.73
494320	Ccdc8	158	181	190	163.84	163	131.4	174	127
316052	Eomes	5	3.44	2	4.51	2	2.11	2.58	6.16
305083	Zfp281	179	196	188	199	157	144	172	182
301264	Cyp39a1	100	102	104	100	76	70	98	105
300060	Apol11a	18	15	17	7	10	16	12	11
287918	Mett123	111.71	92	98	100.04	92.35	79	83.09	91.02
288010	Lpp	891.6	840.01	1020.6	1029.3	738.1	779.7	943.2	790.99
100910056	LOC100910056	336.65	345.03	266.04	349.72	317	276.8	208.2	313.88
306891	Serpinblb	3510.4	1697.58	1946	3326.3	3763	3084	2020	145.59

103690131	LOC103690131	13.26	5.49	3.65	0.47	5.4	9.53	0	4.74
64803	P2ry12	119	134	111	115	89	110	112	101
360817	Med131	787.96	833.19	944.27	939.01	761.9	776.4	796.6	679.66
89828	Ch11	1007	1356	1614	1475	1110	928	1350	1302
114123	Sardh	285	281	297	290	187	267	273	265
100188934	Ctxn3	469	482	486	425	333	319	480	470
289054	Aspm	69.99	68	114	49	79	55	63.99	61
102546864	LOC102546864	10	13	11	9	10	7	9	11
246296	Lrrc15	8	6	26	3	14	13	6	4
140935	Afap1	266	236	299	375	244	229	302	237
315675	Gldn	1048	1529	1487	1135	785	1275	1176	1238
361727	Tmem216	209	226	190	171	158	170	192	165
66015	Adamts4	84.44	108.62	185.15	126.53	80.46	104.6	141.5	107.75
500246	Arhgap25	157	159	171	152	134	133	137	146
378467	Tmem159	300	330	343	298	261	287	275	271
25291	Anxa3	220	158	310	224	187	154	220	224
252878	Tnfsf15	22	20	16	21	10	12	14	32
689377	Rab20	125	127	117	105	106	100	107	95
25242	Arnt	398.22	408.25	463.45	475.73	366.2	382.3	399.6	354.62
100910284	LOC100910284	49.49	69.5	41.97	1.48	26.55	71.2	11.21	30.88
292734	Ltbp4	628	953	1638	756	720	1049	860	793
85246	Gas7	5194	6257	8875	6752	4960	5906	6463	5983
83472	Ugdh	501	473	588	430	369	431	467	448
171334	I112rb2	125	106	146	148	122	98	108	124
29464	Slc6a6	419.45	424.19	491.99	455.37	369.3	415.5	388.5	368.73
367304	Ap1s3	45	51	29	49	45	44	30	30.81
690035	LOC690035	196	173	191	210	163	150	179	171
367251	Ankrd39	93.98	90.5	115.45	80.9	72.2	65.38	77.42	112.91
100360552	Fzd7	88	70.99	85	87	57	58	59	111
497940	LOC497940	125	120	115	108	84	108	103	108
361787	RT1-T24-1	17.09	41.52	27.09	31.38	42.71	18.32	12.2	27.6
316098	Exosc7	96	126	100	96	89	87	94	90
246306	Rmt1	3	5	5	3	3	1	4	5.78
287249	Cnot6	1023	1091	1152	1075	866	871	981	1021
29712	Kcnj2	119.81	100.82	93.83	104.64	90.16	75.68	77.71	117.44
252963	I113ra1	938.33	950.3	1023	913.02	791.3	827.8	867.4	807.89
100911047	LOC100911047	10.11	6.24	10.82	3.56	6.5	10.22	0.62	9.13
315958	Stag1	460	476	531	474	371	368	474	459
78947	Gcs1	141.46	295.15	299.23	214.31	151.5	67.69	294.2	305.15
300679	Mpz12	149	102	134	171	81	81	141	176
266680	St18	13.43	8.19	12.95	13.03	9.21	10.49	9.2	12.11
689268	LOC689268	92.06	111.9	121.47	129.6	82.13	62.72	135.2	112.01
292947	Arfgef3	1158	1411.98	1457.2	1935	1685	704	1262	1485.85
316370	Kdelc1	164	216	218	190	155	146	196	182
306128	Cln5	211.83	201.46	234.09	174.32	172.4	175.6	170	190.01
315508	Ncapd3	214	218	241	173	195	170	203	161
310352	Jadel	351	322	370	325	302	285	301	291
103689974	LOC103689974	1.62	4	1.62	0	1.62	1.62	0	3
298468	Olr855	1	0.5	1.12	1	0	1	1	1.12
309533	Sorcs1	1674	2345.99	2390	2307	1666	2030	1853	1963.99
81811	Thpo	6.48	6.51	5.05	4.55	5	4.06	3.9	6.51
316775	Ankrd12	991.35	955.46	1085.9	1182.1	931.4	825.2	959.3	916.96
102548320	LOC102548320	291.76	303.12	344.19	372.55	283.2	276.3	307.6	263.61
83511	Slc6a2	11	11	3	4	12	2	7	4
100910852	LOC100910852	10.18	7.12	10.15	7.73	8.04	9.02	6.03	7.24
500116	Tra2a	1531.1	1497.52	1455.7	1348	1314	1100	1361	1253.14

361650	Hirip3	209	199	241	200	170	172	194	196
691375	Serpine3	12.18	13.21	14.05	23.07	9.82	10.04	15.48	18.56
25402	Casp3	241	230	281	214	194	220	198	221
288077	Hcls1	89	91	131	103	90	84	97	86
361875	Atp6ap11	75	68	41	63	49	38	65	61
679028	Rbpj	946	873	938	941	738	707	871	873
306974	Zkscan8	456.46	509.06	488	538.08	418.3	337.1	448	514.03
498843	Pcdhb2	25	32.17	34.98	38	39.99	21.07	20.08	31.11
500853	Rgs22	16	25	19	20	18	17	19	15
314988	Zhx2	270.09	292.87	323.95	321.46	224.8	285.2	243.7	288.77
103690050	LOC103690050	263.86	308.28	328.25	460.1	285.3	284.5	336.8	267.2
289150	Cenpl	114	105	102	87	73	79	99	101
679539	LOC679539	86.61	0	115.36	0	21.11	40.73	25.28	87.14
100911730	LOC100911730	1992	1681.25	1700.5	1807.5	1293	1778	1410	1715.82
246143	Nradd	54	37	36	48	33	30	44	44
300852	Mto1	213	197	182	181	156	165	175	171
680576	Tet3	512	451	481	467	378	410	398	463
102553278	LOC102553278	142.85	114.95	125.62	149.03	140.9	79.19	121.9	117.48
59086	Tgfb1	253	230	337	239	214	238	226	236
102548514	LOC102548514	324.16	276.71	346.1	248.23	237	270.9	217.6	306.27
100363520	LOC100363520	56.58	46.27	48.48	46.19	45.33	34.38	60.36	30.46
362489	Runx1t1	332.01	337.96	364.98	423.94	321.7	286.9	331.6	319.44
364398	Triml3	249.05	256	226.75	220	169	206	212	234.83
171091	Zbp1	75	55	68	51	55	61	52	47
100909712	LOC100909712	20.47	12.54	22.68	21.73	20.29	9.32	20.65	16.59
288227	Bace2	522	613	660	593	452	505	559	546
301033	Lrrc2	156.63	182.83	159.65	103.14	139.8	124	116.8	139.51
310132	Osmr	510	544	684	541	506	449	465	548
102549174	LOC102549174	8	5	4	5	3	2	8	6
108350391	LOC108350391	4	7	3	8	4	5	6	4
108350547	LOC108350547	4	4	12	2	5	5	3	6
108350563	Fam180b	6	6	4	6	8	3	1	7
312793	Gsg1	3	4	10	5	3	6	4	6
498328	Pkd2	499	473	535	510	385	412	478	467
288204	Crybg3	515.58	596.72	734.61	643.78	520.5	503.2	567.9	559.61
680155	Fam208a	732.65	675.18	772.2	801.09	641.7	559	690.3	683.94
103689928	LOC103689928	34.71	19.4	30.64	20.19	23.1	22.23	23.55	21.76
684297	Kdm7a	442.52	453.11	458.44	518.12	438	322	434.1	423
314836	Zfc3h1	1077	1024	1166	1066	942	745	1077	979
366669	Syne2	1194	1146.6	1600.6	1458.3	1151	1184	1143	1186.13
296936	Iqub	39	48	42	40	34	41	46	25
140928	Pdella	152	201	188	216	204	152	146	152
315072	Mroh4	5.13	6.07	5.02	4.07	2.01	8.1	5.37	2.05
24165	Ada	141	118	109	132	99	125	84	124
89789	Lbr	121	121	138	128	132	100	98	109
116711	Ceacam9	22.79	22.13	12.29	20.55	11.55	18.15	12.72	24.78
311723	Sox18	127.42	102.81	118.21	80.59	112.7	116	77.86	64.16
497932	Pik3r6	59	48	64	50	38	61	49	43
171296	Myo9a	969	1185	1362	1570	1289	721	1135	1251
252916	Rab38	97	87	81	67	68	58	80	81
100363372	LOC100363372	88.21	59.9	90.23	80.74	65.46	61.91	84.94	63.57
312248	Ubn2	910.1	961.27	986.29	1056.3	852.3	717.6	860	954.5
304798	Mdm4	1828	1687	1831	1817	1576	1477	1658	1483
360202	Ston1	526	642	660.18	656	441.3	536	541	630
29734	Hspa13	390	435	474	439	365	339	429	370
246759	Cxcl9	31	28	63	26	34	35	34	25

299356	Syne3	246.77	262	278.71	290.01	247.2	223	239	222.79
116640	Tnc	1234	1229	1691	1581	1056	1205	1367	1333
498828	RGD1563861	4.41	2.26	1.78	0	3.88	1.72	1.71	0
305633	Antxr2	931	982	1100	990	838	850	900	875
50557	Pten	1200	1122	1216	1340	1078	926	1108	1108
24750	RT1-N3	233.02	207.64	209.56	233.85	191	161.7	196.1	216.12
367733	Rpgr	135	134.55	121.9	158.18	124.2	109.8	124.4	117.21
500035	LOC500035	35	36	30	40	34	29	23	36
81511	Lat	20	11	14	7	15	12	15	3
363326	Dennd1c	65	65	92	53	69	59	51	59
103693583	LOC103693583	33.52	37.15	37.9	37.33	33.83	25.08	33.7	33.67
103693647	LOC103693647	1.19	0	0	0	0	0	0	1.03
303970	Bbx	156	158	179	184	180	101	133	172
499874	Mga	630	643	702	875	631	545	652	639
364785	Suv39h2	167.87	197.73	177	190.01	174	136.1	148	176.07
287924	Yars2	131	114	125	107	94	101	102	116
100362725	Cdk15	27	51	38	63	66	24	35	30
288167	Senp7	370	357	350	385	334	275	333	324
366140	Fjx1	83	121	149	117	97	109	96	105
303946	Usf3	486.72	489.81	520.87	559.44	471.4	423.7	417.6	468.7
245975	Setd4	543.25	512	446.12	446	418.5	407	455	406
310233	Zfp704	264	321	353	339	257	255	314	280
306574	Slc25a15	184.45	188.5	194.45	187.5	170	144	167.5	172.34
501559	Bclaf3	261	275	274	251	214	207	257	241
309684	Itgb2	110.17	109.96	241.45	78.92	125.2	134.1	112.4	96.5
56817	Kcnip2	85.32	302.97	198.5	158.48	208.6	156.3	71.19	209.53
691306	Tmem202	49	46	30	32	22	32	51	31
315055	Dennd3	123.43	138.84	167.27	100.02	128.2	111.8	115	103.71
360835	Cdh19	2525.4	2554.24	2395	2500.6	1763	2180	2407	2292.68
63880	Dnajc3	369	340	375	398	281	315	378	310
360764	Zfp655	712.7	758.99	684.22	655.3	619.2	530.6	631.8	653.98
298686	Ccn12	1683	1591	1646	1540	1334	1274	1531	1458
29591	Tgfbr1	545.55	580.26	655.64	651.2	480	466.6	595	566.15
24771	Sdc4	599.06	659.04	812.94	816.1	616.9	599.9	621.8	663
307726	Chd9	1160	1099	1225	1400	975	1039	1153	1065
100360057	LOC100360057	8.34	0	5.36	2.71	2.66	5.94	5.62	0
117515	2-Sep	2774.9	2796.86	3114.8	2716	2178	2394	2716	2593.79
314319	Prox2	9	9	10	2	6	8	6	6
498115	Ccdc188	20	14	15	11	19	10	17	6
689897	Crygs	8	2	14	6	8	7	7	4
171043	Fbxo32	30	36	34	35	33	27	25	32
298429	Rad541	16	30	35	24	18	21	20	32
690895	Zfp426	496.01	467	456	487	430	411	434	377
314964	Phf2011	820	832	842	793	690	638	744	777
29302	Itgb3	114	141	184	199	137	141	156	119
680586	Rc3h1	1330	1319	1424	1422	1280	1024	1257	1202
361317	Rbm27	377	359	435	473	397	287	367	374
363795	Lmln	613.67	604	566.64	640.87	508.9	498.8	549.2	545.43
690155	LOC690155	314.77	342.6	296.11	241.46	221.7	242.4	289.5	282.46
304127	Bach1	200.68	246.58	313.91	271.16	232.4	214.3	240.2	208.27
296653	Phf19	39	39	39	26	25	43	22	34
361597	Fes	80	88	92	49	67	86	67	48
317218	Itm2a	1342	1312	1373	1174	1056	1165	1006	1284
304832	Cdc73	147	147	138	141	106	104	147	140
315084	Gsdmd	143	131	164	135	118	121	122	136
361856	Tube1	89.12	69.48	81.15	79.84	72.45	66.38	66.15	72.23

303141	Rapgef6	738	721	745	904	723	564	700	709
24446	Hgf	93	114	108	115	96	85	101	91
288652	Rilpl2	244	240	192	184	178	193	194	181
25424	Ctse	32	46	62	26	47	36	28	33
360482	Tfap4	117.32	124.22	119.16	140.99	102.7	125.7	98.17	108.66
288604	Tmem270	21	20	12	15	23	9	7	20
316021	Epm2aip1	4898	5070.86	4962.6	5459.9	4555	3513	4799	4828.83
680611	Bcl3	143.17	172.83	201.77	192.56	133.2	155.7	159.4	168.12
303250	Ybx2	37	36	42	44	29	36	39	34
100364016	LOC100364016	42.36	25	51.17	19.13	41.53	36.59	32.95	8.41
108348215	LOC108348215	1.45	6.07	2.01	6.3	2.02	2.37	7.31	2.04
494322	Pms1	165	194	196	180	148	146	154	190
24575	Mx1	332.12	269.03	293.68	295.12	184.4	318	268.7	261.92
317165	LOC317165	20.35	22.35	22.1	37.18	18.37	22.19	20.72	27.25
311655	Mocs3	137	142	123	144	133	97	131	113
116744	Lpar1	1766	1640.54	1747	1843	1379	1488	1696	1511
287464	Dhx33	217	208	196	206	199	160	168	191
305509	Adcy1	1573.3	1485.06	1628	1677.2	1337	1484	1441	1262.1
108353169	LOC108353169	63	34	36	34	38	37	32	38
360625	Krt12	13	12	8	5	9	3	14	7
679342	LOC679342	16	22	16	22	22	15	16	13
296787	Sema3c	1891	1457	2118	1858	1615	1422	1799	1525
117025	Rhbd11	139	143	134	124	129	113	114	113
500595	Smim1	144.53	110.76	143.63	113.41	96.45	103.4	112.5	132.57
365018	Zcchc14	468	524	558	496	439	435	467	436
361946	Supt20h	845.41	767.3	872.36	767.1	671.8	658.3	788	706.5
500501	Caapl	248	201	220	237	204	178	193	212
29558	Fcgrt	904	840	900	767	649	711	767	836
690422	Tedc1	241	268	287	179	216	194	214	223
445269	C5ar2	88	91	127	98	93	69	88	101
29407	Taslr1	15	13	19	14	11	14	15	13
25322	Hsd17b1	25.5	29.41	26.49	22.86	19.69	12.76	25.23	32.91
499772	Ier5l	152	158	214	117	152	141	149	115
361585	Ube3a	1179	1128.25	1258.7	1289	1181	869	1059	1110
207122	Pkn2	698	686	727	737	566	610	678	621
171068	Pou2f1	189	169	170	175	164	156	152	139
25197	St6gal1	1058	976	1077	1143	800	887	1075	936
252889	Tmed7	1699	1620	1829	1696	1387	1410	1630	1523
362391	Mxd1	248	222	263	201	213	216	197	186
59328	Smad5	721	757	863	814	658	708	681	696
498944	Tsnaxip1	7.01	2.25	7.88	14.89	11.01	5.64	6.11	5.09
29436	Tfpi	472	399	480	481	349	382	435	427
294806	Clqtnf3	9	7	14	16	4	11	6	19
497955	Tlcd2	18	16	16	19	13	17	15	15
681178	Pcgf5	164	187	150	143	142	124	148	146
85471	Gata3	11	8	5	22	9	11	13	7
503257	Nemp2	73	66	75	62	64	58	60	58
100360087	LOC100360087	516.13	424.08	521.05	393.01	412.9	344.6	347.9	507.09
100911305	LOC100911305	86	83	86.5	70.5	81.5	62.5	65.5	74
316403	Mars2	86	83	86.5	70.5	81.5	62.5	65.5	74
305477	Dusp18	1022.5	1086.01	1131	1174.1	842.9	976.3	993	1026.23
298655	H6pd	412.49	402.74	437.84	372.25	356.2	387.4	356.4	313.62
685081	LOC685081	17	13.49	19.9	12.96	14.37	8.25	17.53	14.95
363126	Nphp3	67	70	95	83	77	60	61	76
207120	Nudt6	81	75	75	61	65	64	74	51
498850	Pcdhga12	63.86	82.05	94.44	75.4	75.56	84.15	41.49	73.47

295171	Sh3d19	1951	2232	2471	2325	1632	1949	2288	1942
689949	Zfp185	36	33	29	25	28	34	23	22
363674	Stac2	14	19	44	23	16	19	25	27
310258	Phc3	1431.3	1395.34	1522.8	1697.9	1395	1147	1302	1417.09
312952	Impad1	819.89	1124.98	0	249.26	538	25.98	1224	121.58
100360522	LOC100360522	622.56	424.29	521.41	527.85	303.6	373.6	591.9	554.76
307452	RGD1305704	569.86	581.16	590.49	590.91	469.6	496	539.9	524.2
291610	Spry4	445.34	515.84	466	688.19	385	466.5	494.8	494.69
305353	Tlr6	167.51	171.57	207.83	190.46	157.6	124.8	174.3	185.08
296311	Cnbd2	137.32	119.11	117.33	112.38	94.14	106.4	121.5	101.16
25567	Tnr	284.28	312.15	306.46	326.41	360.7	255.2	216.6	237.66
301676	Foxn2	545	504	526	496	425	426	497	455
100912393	LOC100912393	19.95	7.72	0	0	14.16	0	0	9.93
364993	Pskh1	75	82	64	81	61	71	50	81
678739	Phka2	66	64	87	85	77	65	55	66
302582	Klf8	159	141	163	180	165	94	168	133
116510	Timp1	970	1094	1424	735	843	971	879	985
306278	Lrrc18	6	5	9	11	6	5	6	10
364241	Kcnk5	128	89	118	99	83	76	104	115
685823	Xpnpep3	210.54	195.32	232.98	223.12	204.1	170.9	171.6	204.18
54349	Aox1	591	658	659	542	483	548	650	453
303991	Hoxd10	204	148	99	115	144	108	137	104
60447	Clock	983.47	1062.59	1131	1172	964.5	797	1051	976
100134827	Hiatl3	757.9	870.74	801.36	654.43	618.4	689	675.7	703.82
301164	Kat2b	1356	1362	1462	1323	1089	1195	1293	1217
170841	Mutyh	92	56	82	65	65	62	78	52
287657	Gpr179	6.65	12.77	17.83	21.52	8.73	9.97	18.4	14.1
290722	Cep44	163	125	135	136	114	117	135	121
309243	Vps13a	1023	1160	1122	1276	1117	772	1023	1079
360899	Sertad4	263	272	265	256	233	221	214	252
103690006	LOC103690006	553.64	524.86	593.38	648.2	502.9	476.9	541.3	500.19
360596	Msi2	906	748	947	1080	676	802	1007	722
301624	D2hgdh	293	329	320	293	267	306	265	238
116663	Dusp6	345	324	376	392	208	297	364	383
192280	Ppplr3b	124.93	135.6	133.2	136.04	122	98.05	95.57	146
684015	Ankmy1	86.42	90.54	124.29	105.51	81.07	92.69	88.71	91.95
312678	Kdm5a	831.99	879	835	945	811	677	767.9	785.95
303132	Aff4	2655.3	2735.73	2828.3	3012.9	2583	2092	2627	2485.46
100910385	LOC100910385	33.13	44.91	44.01	52.18	42	40.32	45.58	23.92
619382	Acap2	1003	971	1025	1060	886	815	934	902
314543	Gulp1	651	670	712	689	469	607	694	602
310358	Plcx3	356	375	365	475	392	196	365	416
301431	Nif311	362	301.44	280.24	334.99	237.7	282.4	280.6	313.55
100912658	LOC100912658	23.38	27.75	17.82	27.67	22.75	25.67	15.23	20.55
287472	Tlcd1	263	229	227	246	178	213	216	234
307169	Mast1	67	56	73	50.69	63	42	61	49
313304	Stag2	1287	1250	1394	1482	1072	1036	1309	1301
83618	Rest	241	268	311	263	228	211	220	285
292994	Tjp1	1603	1918	1992	2111	1458	1555	1810	1823
100911515	LOC100911515	184.06	296.54	286.31	193.99	112.3	234.5	214.7	276.09
102551403	LOC102551403	157	220	167	174	138	151	192	144.89
307251	Rnf165	11	15	9	4	10	6	11	7
361975	Lrba	436	456	430	433	405	374	410	341
308937	Wee1	583.51	451.09	476.81	506.31	476.2	528.6	419	335.2
308021	Syde2	214.67	235.42	206.86	245.9	181	195.9	199.5	210.83
24914	Lox	348	355	495	425	288	393	402	332

309922	Rhobtb3	836	902	897	830	607	778	835	801
292073	Galns	211.45	318.06	289.95	187.7	186.1	258	168.2	266.12
307429	Dmxl1	1273	1251.49	1299.2	1508	1230	927.1	1208	1284.13
100364265	LOC100364265	1396.8	1422.34	1544.6	1702.1	1404	1151	1335	1401.83
313417	Wdr78	172.76	179.25	161.41	174.59	123.9	141.9	163.8	170.54
313609	Pdik11	200.13	147.88	198.24	171.83	160.8	142.7	163.7	159.25
293654	Doc2g	32.85	23.58	31.3	35.42	38.78	22.44	26.46	19.74
81810	Tgfbr2	2633	3015	3582	3379	2247	3000	2912	2840
64022	Btc	9	7	25	6	7	13	9	12
311144	Itga4	63.98	134.26	181.89	145.47	111.7	107	142.7	97.19
500727	Cdca4	174	141	175	138.05	118	138	115	177
29428	Celf2	1278.1	1335.92	1456.7	1411.2	1177	1153	1221	1232.34
102553088	LOC102553088	18	16	11	10	15	3	20	10
310859	Tet2	486	446	494	515	418	403	464	409
140585	Ryk	608	535	567	569	447	484	557	501
117050	Arl5a	1868	1910	1929	1956	1596	1626	1818	1648
103692066	LOC103692066	424.69	374.98	420.12	411.49	346.3	307	406.3	364.25
103690114	LOC103690114	134.5	132	114	119	91.5	115.5	113.5	115.5
103690163	LOC103690163	134.5	132	114	119	91.5	115.5	113.5	115.5
24807	Tacr1	29.3	36.81	40.89	56.38	49.49	43.84	23.14	26.14
29650	Adam10	2090	2172	2417	2383	1794	1857	2231	2028
364529	Calr3	73	60	52	59	47	58	50	58
59105	Milr1	22.42	16.55	28.14	24.44	18.1	19.66	16.33	25.84
362191	Dph6	193.05	170.36	181.69	196.78	182.8	181.6	150.1	133.26
308431	Phldb3	34	30	27	43	23	32	29	33
361400	Nfatc3	791.04	773.97	746.68	751.33	685.9	627.9	715.9	644.84
310418	Frem2	45	42	36	82	35	48	45	51
367846	Sp3	632	629	713	636	578	553	558	590
305448	Dok7	108	91.09	57.67	132.79	66.13	93.02	66.01	115
315131	Kdelr3	607	569	576	528	420	508	510	553
314393	Trip11	1135.5	1135.28	1278.6	1463	1219	998.7	1128	1031.53
365266	Atp10a	173	153	158	156	143	145	156	115
116598	Pdia4	1081	1228	1430	1392	957	1175	1177	1173
100911572	LOC100911572	125.33	96.26	86.07	96.66	69.04	75.56	108.6	100.03
58952	Cpq	912	826	1059	840	699	778	842	858
317213	Brwd3	157	161	176	210	158	123	169	165
302248	Nid2	1080.3	1348.68	1739.3	1538.7	969.1	1191	1448	1377.08
100909697	Slc25a51	737.65	639.14	636.25	666.4	373.3	725.5	588.1	653.94
81722	Ager	43	43	53	43	35	38	46	40
690489	Cys1	157	184	148	168	121	185	135	133
64366	Calu	2639	2743	3142	2669	2194	2393	2739	2453
680317	Endou	26	26	21	22	20	18	24	21
304893	Rasa12	586	748	833	779	591	499	769	715
500797	Misp	56	38	62	42	39	43	41	50
295568	Hl1f	392.96	382.56	417.04	471.35	345.5	331.5	405.9	370.94
313308	Thoc2	777	795	887	900	768	682	768	717.01
361680	Lsp1	281	225	330	186	246	220	269	158
315593	Tmem136	26	20	30	27	34	12	23	21
361153	Fam149a	338	365	362	385	329	282	347	309
266762	Mrgprf	222	267	432	284	224	285	289	255
499856	Fibin	142	107	112	99	102	84	116	100
24941	Atp7a	648	637	630	688	606	488	590	591
297480	Foxp1	355.97	310.8	465.23	384.28	359.4	331.6	358	276.36
25096	Pld1	532	553	583	573	458	460	529	512
100361079	LOC100361079	69.89	56.82	41.88	39.7	53.03	46.06	36.54	46.46
296102	E113	658.44	599.5	658.2	540.38	484	569.2	548.9	545.4

499401	Znrclas1	138	117	131	123	123	104	117	101
315843	Phip	578	584	620.96	653	538	479	607	506
25466	Illrap	182	224	240	190	161	174	195	201
288174	Nit2	357	344	408	278	280	310	256	367
116967	Magt1	214	221	230	252	197	168	218	219
690745	1-Mar	184.15	146	166	159	146	151	126	150
304786	Elk4	703.1	697.14	797.03	710.08	592.4	630.7	659	660.81
24459	Hoxc4	162	153	194	185	116	172	165	154
25603	Marcks	1355	1483	2022	1610	1207	1471	1593	1388
170630	Fgf12	6280	5748.79	5421.8	6512	5010	4525	5922	5502
171070	Ptpn21	262	258	286	279	195	222	259	273
80897	Erap1	872	779	869	879	638	726	826	783
171135	Slc31a1	305	293	294	305	258	276	259	254
499797	RGD1560248	1677	1742	1936	1867	1486	1393	1744	1695
293173	Far1	2450	2368	2339	2611	2043	1898	2233	2372
498097	Wdr53	175.29	154.26	150.79	131.44	135.8	119.4	136.3	143.79
303019	Neur11b	24	27	23	14	27	21	17	12
24367	Fgg	1	2	3	2	3	1	1	2
246263	Acsm2	5	2	0	1	2	2	0	3
287668	Lrrc3c	2	1	3	2	1	2	1	3
291853	Drc7	4	5	3	4	3	1	4	6
294255	Slc44a4	9	18	8	13	4	8	14	16
29440	Slc26a4	3	1	3	1	4	1	2	0
298702	Icam4	3	3	1	1	3	1	2	1
304379	Zan	2	1	7	6	7	2	2	3
363072	Tbcd21	1	2	3	2	3	0	2	2
363493	Taf71	3	4	5	4	1	3	7	3
686660	LOC686660	2	2	3	1	2	1	3	1
688510	Ripor3	39	26	42	29	28	36	31	24
689918	Sox30	1	4	1	2	2	1	1	3
80840	Gpr12	3	3	1	1	1	3	2	1
501174	Pid1	81	76	106	89	71	70	88	79
103694869	LOC103694869	520.18	173.39	173.39	520.18	173.4	346.8	173.4	520.18
108353281	LOC108353281	8.89	7.99	8.13	18.07	6.91	9.28	11.15	10.36
313340	Dennd4c	525.93	551	611.13	606.73	504.7	399.5	591.4	512.82
303638	Abca8a	9757.1	10595.5	8653.2	11302	7842	8302	9759	9375.17
499539	Lmbrd2	604.19	665.13	674.72	877.48	773.8	365.4	653.4	677.02
499690	Tmem167b	264.32	197.38	224.97	235.38	210.5	198.4	208.2	190.03
192350	Cdk12	520	500	479	595	522	379	491	441
499255	Knop1	140	156	174	196	157	129	147	150
311030	Stam2	432	387	348	486	326	332	416	373
290029	Pnp	1043	949	1053	743	778	792	844	902
83515	Ptbp3	1412	1343	1511	1521	1354	1095	1255	1362
363268	Fbxo36	83	60	59	63	49	46	77	60
315291	Ccnt1	377.16	389.99	355.95	342.84	324.5	305.4	346	307.58
302697	Eiflax	1393	1486.01	1532.3	1393	1176	1231	1344	1331.13
114861	Scpep1	949	908	1210	936	818	919	928	840
103693699	LOC103693699	61	48	60	40	67	47	29	40
362591	Mtf1	443.11	479.5	488.82	479.99	374.7	435.4	437.5	408.54
287170	Snrnp25	234	208	161	169	160	163	162	191
364994	Dpep3	5	5.14	4	2.99	7	4	3	1
305850	Rpgrip1	82.36	57.77	61.54	61.38	62.01	53.78	55.77	58.79
317439	Wwc3	697	587.99	611	591	530	543	561	544
502715	Lrrc17	74	90	133.94	74	64	78.93	87.88	94.92
315297	Nckap51	1137	1040.3	1161.5	1201.2	1031	1045	979.7	920.36
100910258	LOC100910258	61.11	55.57	51.89	45.04	41.95	47.66	39.65	57.82

64630	Snap23	222	210	250	212	165	173	219	226
24890	Esrl	127	104	78	102	77	81	103	99
100910771	LOC100910771	29.99	39.7	41.3	68.2	40.18	19.55	19.73	77.5
500441	RGD1561916	41	20	36	32	28	35	25	25
103692307	LOC103692307	484.98	476.12	512.26	381.62	345.1	482.6	467.3	330.03
170636	Pnma1	35	28	27	31	29	28	25	24
290686	Tma16	207	150	177	192	148	172	164	152
29227	Nfib	476	554	579	658	575	440	507	464
681429	Rps271	175	208	253	179	154	189	169	202
498533	Fam167a	167	191	230	187	181	175	185	138
310969	Ifi44	605	503	494	336	415	394	443	446
360868	Sft2d2	497	396	413	487	377	369	453	372
309003	Zfp646	425.68	371.35	468.98	418.96	359	386	378	353.36
363930	Selplg	84	78	99	54	64	77	66	69
406163	Gpsm3	121	120	142	142	117	99	131	113
378947	Bst2	281	276	320	270	214	278	240	273
691920	Stard9	667.39	739.08	827	787.04	667.6	600	730	649
360254	Brca2	87	122	129	131	115	95	95	106
25252	Dlg1	449	430	504	550	393	407	449	445
302965	Tnfrsf12a	84	107	163	67	76	114	101	78
680723	Tmem88b	146	173	132	132	104	125	130	152
363872	Zscan25	119.47	105.42	119.49	101	92.38	108	100	90
64566	Wnt5a	225.6	167.04	153.6	245.46	120.1	96.96	230.3	246.59
100126191	Rab1b	1178	1312.43	1178	729.75	963.8	856.7	856.7	1177.97
689296	Mis18bp1	91	89	111	106	90	81	92	85
691921	LOC691921	54	46	29	25	34	27	20	54
108349511	LOC108349511	12.28	17.25	13.39	7.05	10.49	12.64	9.43	11.25
266773	Zfp709	322.72	289.03	281.82	316.06	283	226.3	289.2	262.12
294601	S1f1	157	142	165	153	130	130	169	112
361935	Spata5	157	161	128	163	130	120	139	145
59266	Hcn4	201.6	158.24	282.64	270.27	222.1	177.6	180.1	220.61
100174910	LOC100174910	116	148	107	165	96	119	135	120
289883	Tmed5	473.17	461.4	456.16	462.07	431.6	388.4	414.9	389.73
315745	Fem1b	461.8	450.53	463.56	529.86	486.3	324	441.9	418.94
116509	Slc6a9	108.83	73	105.51	104.54	76.67	90	99.5	77.5
501658	Vma21	915.38	778.37	863.38	951.93	660	784.1	818.7	815.18
361197	Ercc612	543	460	538	502	435	384	486	487
687707	LOC687707	14	13	12	18	16	13	9	12
24986	RT1-Ha	2.48	0	1	1	0	2.48	0	1.45
299805	Cnot2	1027	929.99	975.06	927.08	823	807	869	886.34
290705	Nek1	887	1000	1024	993	784	819	980	842
304336	RGD1566386	162	148.99	134	131	105	134	131.3	135
307901	Tldc1	146	143	246	158	151	159	163	135
295297	Etv3	501	508	498.97	489.96	423	424	445	460.96
313790	Lacc1	659.04	653	568	697.86	590	506	604.9	561
300944	Xrn1	557.78	542.86	566.97	572.26	520.4	428.6	553.3	463.03
500789	Gipc3	115.99	70	129	85	76.99	66	107	101
24483	Igf2	504	303	449	860.01	449	288.9	445	674
308821	Rab30	883.89	897.63	866.86	1007.1	874.5	604.4	815.8	913.24
312974	Chd7	208	262	373	268	235	263	250	227
100359865	Hrct1	193	199	216	185	140	173	204	179
499742	LOC499742	410.68	414.7	470.66	437.54	358.9	314.4	444.2	404.23
305828	Socs4	74	64	91	82	68	48	80	77
102551085	Xrcc3	238	179	218	241	184	181	203	201
102552551	Smim6	8.04	19	25.72	35.12	15.93	22.65	18.48	20.09
108348175	LOC108348175	2554.6	2480.11	2650.6	2388	1872	2403	2184	2383.98

309465	Gsto2	183.46	150.47	151.45	149.73	157.2	118.4	133.9	148.07
24974	RT1-A2	2295.9	1775.05	2654.3	1706.6	1943	2148	1989	1322.89
114845	Klf3	593.82	510.92	580.77	618.14	503.8	450.7	516.1	552.16
282587	Cttnbp2	359	414	409	474	333	291	423	407
681766	Stpg4	8	11	10	12	10	5	12	9
317253	Nhs12	404.81	314.93	342.94	380.99	303.2	290.7	364.1	309.67
81717	Ctbp2	227	232	246	222	192	202	216	204
288106	Ccdc191	62	57	62	57	53	52	54	50
310946	Lrrc40	617	564	629	546	442	454	624	549
103690064	LOC103690064	847.53	880.85	789.65	920.28	822.6	638.6	775	783.23
291787	Rbbp8	546	501	558	472	421	445	486	472
361149	Ankrd37	38	22	37	18	18	26	22	35
308594	Ccdc114	23	16	17	18	16	10	19	20
299907	Ext1	411	483	553	428	380	410	430	427
497923	Zfp286a	111	130	114	122	101	84	126	108
54248	Dgkb	504.87	421.75	470.01	497.01	494.9	380.2	412.1	376.31
685487	Znrf3	41	43	38	59	45	39	42	33
65032	Htr7	95.5	92.5	0	98.5	0	85.69	89	77
294429	Ranbp2	2002	2126	2337	2605	2160	1477	2189	2142
316238	Rsph9	39	37	31	33	36	20	26	41
365038	Samd5	34	49	49	41	35	27	53	37
300743	Lman11	6	7	13	7	8	6	10	5
301000	Uba7	151	130	143	137	103	151	126	113
307900	Kcng4	278.09	239.09	241.76	244.44	207.1	207.9	213	253.82
362798	Ncapg2	92	105	112	112	90	88	117	75
100362123	Rex2	131.26	143.52	162.87	150.95	127.1	118.5	130.9	140.76
361253	Sugct	60	63	71	62	43	57	59	66
309106	Sigirr	61	26	40	30	30	21	45	42
102556425	LOC102556425	67.17	73.46	83.18	71.33	69.65	54.18	65.54	70.06
363985	Slc41a1	621	632	711	790	568	560	600	693
100910882	LOC100910882	1754.7	1730.46	1907.7	1365.5	1372	1510	1539	1520.69
408223	Usp54	1044	1026	942	959	918	944	821	808
108351267	LOC108351267	37	18.27	23.41	33.81	28.03	25.91	23.13	21.83
293997	Kazald1	31	33	53	32	34	34	31	32
304592	Orai2	822.74	978.16	1104.1	848.81	851.4	910.1	834.4	704.45
299811	Cpsf6	1574	1575	1552	1579	1386	1149	1500	1487
360640	Map3k14	137	131	145	109	110	108	117	124
103692234	LOC103692234	0.21	0	2.11	0	2.04	0	0	0
100911548	LOC100911548	61.89	77.99	115.24	82.79	62.42	69.49	76.16	89.06
100911986	LOC100911986	43.06	43.5	26.78	26.49	26.18	40.26	30.2	26.32
312115	Col28a1	1342	1425	1918	1604	1149	1331	1505	1546
24864	Pgc	26	18	19	20	22	14	22	15
291539	Psmg2	312	327	290	258	257	239	282	266
501647	Fam122b	132.72	102.05	144.82	121.47	119.4	103.4	125.3	92.66
24603	Npr1	82	59	70	63	76	53	55	57
25333	Mgp	2665	1658	2263	1875	1858	1564	1952	2068
295985	Mettl15	114.32	124.43	103.52	136.4	101.6	93.94	118.8	106.74
100359879	Tmem91	58	60	50	48	48	46	43	53
689499	Stum	250	279	276	259	284	220	217	215
192205	Prok1	16.1	9.82	12.47	3.18	11.79	15.08	7.4	2.3
360272	Slit2	987	1240	1279	1169	890	1130	1088	1005
100364165	Nktr	1707	1683	1835	1880	1559	1462	1690	1540
363073	Glce	1699	1613	1738	1689	1528	1230	1561	1610
311328	Rmdn3	667	637.67	625	656	575	550.9	582.5	566.55
25749	Clcn5	267	295	298	439	316	212	308	307
29427	Aif1	120	150	187	101	109	100	152	130

313387	Usp1	280	250	278	275	234	222	262	235
311182	Nup160	271	249	333	255	255	241	245	234
688765	LOC688765	108.62	100.91	88.09	102.2	101.2	86.22	81.13	83.28
108348125	LOC108348125	119	79	105	97	67	80	93	112
361394	Lrrc36	36	42	52	45	36	48	36	34
29503	Slc22a2	13	9	15	13	10	7	13	14
302976	Noxol	1.25	2	2	0	1	1	1.22	1.4
103691225	LOC103691225	2.21	1.07	3.24	1.15	1.08	0	2.26	3.41
365238	LOC365238	123.17	116.39	107.92	90.46	105	84.7	98.69	97.07
171120	Jmjd1c	927	916	1045	1066	877	801	936	866
689102	Chml	50	64	74	104	65	46	72	74
140938	Psmc3ip	56	59	65	62	46	61	52	54
311088	Cob111	314	521	428	523	286	371	501	414
361941	RGD1359508	51	56	62	48	39	60	47	45
311093	Csrnp3	66.57	63.67	70	94.07	81.01	32.89	72.15	73
309798	Gcc2	859	835	926	1011	804	726	862	804
363231	Rftn2	157.79	193.46	209.04	191.52	149	152.7	189.1	170.98
360560	RGD1304728	356.29	254.64	295.71	307.4	288.3	237.2	238.6	304.71
311854	Tor1b	304.27	306.28	336.25	267.3	235.3	252	291.7	289.82
297910	Slc26a7	110	40	66	60	92	34	48	69
102555377	LOC102555377	216.6	217.67	201.01	238.59	211.7	174.6	201.5	181.6
295293	Pear1	721	697	930	965	678	666	802	771
361104	Zcchc24	1452	1522	1685	1643	1249	1397	1505	1398
303060	Pwyp2a	388	380	415	383	323	317	352	387
307645	Adgrg5	22	18	15	12	22	9	17	11
690693	Ddx19b	487.07	505.95	506.12	467.07	439.5	427.8	439.8	424.31
293849	Zfp275	357	349	302	392	329	266	318	320
315346	Itga5	200	181	305	186	162	232	227	147
294019	Calhm2	130	101	102	78	90	88	83	101
102551340	LOC102551340	350.59	301.35	317.33	326.98	282.2	262.3	299.1	298.12
304850	Rnf2	407	430	441	359	320	325	414	383
65261	Myo1c	1025	1093	1268	1140	857	1114	1046	970
363484	Chic1	506.5	510.7	436.91	533.2	435	368.7	447.2	499.87
306137	Rbm26	535	590	676	635	535	473	575	563
691981	Spem1	16	3	15	8	6	9	12	10
81685	Mlh1	122	161	143	154	114	128	141	128
298908	Kcnf1	306	313	324	327	292	265	273	289
499716	Dnajb14	269	294	292	374	300	199	313	271
304061	Brwd1	693.39	602.9	688.63	679.54	642.5	493.4	665.6	546.51
100359523	LOC100359523	81.29	73.69	73	66.23	65.37	59.49	79.3	55.12
103693812	LOC103693812	0	3.01	1	6.52	2.01	1.01	2.26	4
315804	Rfx7	621	606	611	681	583	495	536	606
500592	Tnfrsf25	105	84	90	75	71	96	67	78
308790	Mex3b	148	131	170	116	109	113	129	147
114520	Strn3	1062	961	1045	1074	928	879	972	872
24361	Fancc	307	271	271	223	231	209	253	252
292064	Banp	623	691	693	754	555	594	648	637
103692905	LOC103692905	200.15	130.73	113.6	115.19	129.6	109.8	141.4	112.54
305467	Sfi1	722	765	696	645	570.4	670	668	585
291635	Pcdhga7	509.79	527.54	545.63	535.77	448.5	476.4	492.7	450.62
366595	Syp11	828	866	839	850	631	757	821	774
688790	Pmp2	6452	8136	6948	5631	3144	5357	6932	8522
294074	Cep55	27	21	44	18	27	24	24	22
499110	Zfp780b	178.35	194.07	170.08	218.07	152.8	155	184.8	178.19
65218	Agap2	377	315	285	420	299	306	334	293
25426	Cyp11b1	718	630	845	705	558	574	735	689

100361383	Ecm2	152.45	96.02	158.07	223.79	126.3	33.18	139.1	257.41
498407	Purb	444	484	509	657	529	315	560	443
299706	Nup37	134.45	128	142.25	113.03	93.03	106	141	116.59
306571	Kat6a	825.52	800.61	923.42	1025.5	847.6	764.1	778.3	763.49
108350588	LOC108350588	66.92	73.05	66.43	69.91	62.86	55.4	55.67	69.8
295340	Rplp011	1.14	0	0	1.15	2.02	0	0	0
303443	Stxbp4	244	217	247	276	221	202	231	214
25667	Bmp3	20.21	18.12	35.73	27.9	26.38	12.83	32.53	18.21
361147	Primpol	155.75	166.9	159.47	185.31	138.8	149.1	156.4	144.6
29360	Selenop	6975.8	6263.9	7514.6	6403.8	5392	5486	6542	6541.65
289229	Vangl2	50.85	35.25	58.7	64.76	56.23	50.31	46.27	32.09
316516	Tmbim1	884	997.84	924.31	816.71	691.3	880.8	764.7	859.72
24811	Tap1	294.65	243.98	317.79	297.49	229.2	289.7	273.6	225.69
307449	Mcc	3	3	8	3	6	2	3	4
365581	Edar	7	7	6	14	5	5	8	12
291078	Prpf4b	1310	1265	1484	1391	1180	1075	1376	1178
100529260	Ankhd1	836	817	979	974	824	729	849	780
296968	Lrguk	235.56	275.2	264.19	264.91	298	166.8	257.3	195.66
310968	Ifi441	60	54	60	90	43	89	53	48
102553002	Zscan22	315	340	338	319	277	313	305	263
503053	LOC503053	61.69	37.87	52.24	71.91	50.87	42.37	47.39	56.83
366791	Rdh5	48	31	32	34	33	26	32	37
685451	Gng13	10	1	6	1	4.43	6	2	3.46
362597	Evalb	175	195	246	152	140	166	190	182
499360	Slf2	511.25	487.37	488.89	581.74	447.4	420.8	493.4	465.22
282822	Trpc7	6.02	4.85	2	8.66	4	5.01	6	4
313418	Mier1	870.24	888.75	974.59	906.35	780.1	788.2	853.2	792.46
310399	Naa15	1616	1541	1571	1646	1449	1306	1525	1348
689065	LOC689065	12.03	10.56	6.36	5.74	12.92	3.48	8.95	5.28
299940	Sntb1	866.54	879.71	901.36	957.11	705.4	746.2	946.4	784.86
298316	Nkrf1	185.46	184.26	130.09	207.41	150.3	143.5	181.8	148.86
58868	Fzd1	572	513	662	758	462	491	652	607
29497	Ptbp1	1103	1077	1309	1061	850	1057	1053	1058
298487	Cldn19	3149	4034	3570	3035	2222	3427	3002	3525
171436	Mk1	547.17	528.47	553.32	549.8	472.6	438.1	509.5	503.84
304007	Cep97	256	318	274	333	268	220	286	269
59296	Dnase2b	8.11	6.22	7.11	6.13	4.93	7.17	7.37	4.88
361838	Hnrnp3	457.43	464.17	423.64	413.15	313.4	373.5	449.1	417.2
295588	Rnd3	414	484	524	446	347	386	459	458
102554881	LOC102554881	17	15	10	18	14	12	16	11
361415	Dynlrb2	16	19	17	8	14	14	12	13
691221	Faxdc2	864.07	870.97	893.49	798.35	669.8	787.3	786.7	783.3
25124	Stat1	1669	1685	1563	1582	1271	1582	1442	1446
308738	Chd2	1348.1	1274	1346.1	1375	1163	1066	1289	1202
365770	Bbs12	75.66	71.19	74.19	81.45	73.86	58	56.17	79.19
685202	Efcc1	355.17	347.81	347.53	411.5	302.1	246.2	335.9	407.37
499356	Blnk	73	63	118	55	71	82	61	59
361388	Gab1	1566	1746	1950	2163	1340	1572	1815	1833
102555274	Zfp853	78.11	65.44	88.84	89.65	68.24	67.27	71.82	77.2
303963	Dzip3	903	756	692	921	704	582	856	749
100359861	Smim15	510	482	534	484	399	422	466	489
114110	Flt4	61	33	50	45	56	35	33	43
316344	Rev1	388.61	387.09	390.73	388.47	315.3	372.1	373.6	313
498289	Opn3	166	180	175	167	138	154	168	148
299012	Arhgap5	1446	1516	1544	1854	1388	1234	1535	1464
314824	Osbpl8	1316	1188	1366	1423	1246	977	1279	1176

29335	Oprk1	226.76	218.64	217.39	244.72	136.1	151	222.3	292.68
102553845	LOC102553845	19	0	5.96	5.52	0	0	6.94	20
362739	Ppp2r3c	677	608	544.55	613.77	558	500	504	597.59
64679	Tgm4	7.38	10.06	5.17	8.83	1.9	6.22	3.62	16.05
361245	Cmahp	12.99	7	19	4	8	14	6	10
102555453	LOC102555453	1462.6	1399.8	1469.8	1100.7	1208	1282	792.2	1520.62
680111	Rbl1	35	42	62	42	47	40	39	34
298878	Osr1	88.05	38.62	64.22	77.7	56.05	62.99	41.78	76.61
294519	Cep57l1	245	204	231	217	199	200	204	190
25663	Il1r1	289.03	216	318.33	301.71	249.4	235.3	265.3	244.68
362728	Twistnb	310	275	277	277	280	245	228	254
317494	Nhs	246.71	209.54	265.67	321.61	219	222.1	231.8	249.62
100910046	LOC100910046	454.08	441.12	410.66	498.27	404.9	339.9	406.8	443.61
300125	Ttc38	304.39	332.6	306.95	313.73	295.3	269	281.6	266.11
89824	Chi3l1	154	167	193	108	157	159	139	95
64046	Mrella	315	332	332	378	319	252	338	291
315798	Zfp280d	694	697	749	731	534	625	593	787
312781	Lrp6	723	699	671	865	676	564	704	672
304092	Son	4957.1	5184.54	5430	5578	4758	4111	5078	4757.7
314119	Zxdb	260.88	292	257	235.04	229.2	227	212	256.11
312855	Ppfibp1	1056	1119	1279	1311	873	1059	1156	1127
246301	Ascl3	4	7	7	8	3	3	9	8
501996	Il25	7	6	7	6	5	10	5	3
83476	Cyr61	289	350	227	1041	406	567	477	237
499877	Ubr1	701	728	707	864	730	551	670	703
29433	Pak3	1069.3	1083.06	1090.2	1294.7	1144	893.4	1038	938.78
25690	Ahr	493	414	527.98	629	527	452	400	447
310812	Plppr5	80	57	84	74	67	57	78	59
309460	Sh3pxd2a	3758.1	3990.71	5034.3	4719.2	3576	3787	4173	3948.78
313325	Lad1	125	74	116	145	82	86	108	131
361598	Iqgap1	1471	1581	2100	1766	1458	1552	1677	1434
259171	Dclrelc	168.92	150	184.96	154.96	149	137	144	152.98
296074	Fsip1	25	22	20	27.03	20.02	23	18	22.18
291463	Ppic	320	261	340	252	220	278	295	245
313373	Cyp2j10	225.01	238.99	266.98	238	192	207	239	219.46
298476	Olr867	0	0.13	0	1	0	0	0	1
115769	Tjp2	689	861	922	832	586	741	805	792
317673	Bbc3	69	83	64	71	59	57	62	76
691042	Sbf2	1009	1166	1247	1120	896	980	1093	1051
301261	Enpp4	1723.3	1551.45	1424.6	1341.9	1400	1337	1402	1207.76
114560	Rap2a	65.09	65	72	77	60.01	68	57.01	62
688133	Mbtd1	310	312	364.01	343.94	266	280.1	321	310.02
266670	Riox2	144.99	141.59	122.37	124.97	120.3	111.9	107.3	133.09
314787	Cep290	232.23	182.69	254.71	302.37	235	178.1	203.7	243.57
304721	Pdxdc1	528.54	586.96	545.58	649.94	527.6	410.6	557.3	550.19
311494	Rin2	597	582	657	568	503	499	561	565
681849	Mlip	1586	1874	1765	1456	919	1507	1647	1841
102549548	LOC102549548	8.02	6	7.1	6	5.01	4	9	6
81818	Vim	17934	21164	28152	18523	15771	20739	19522	19906
309362	Dnmbp	230	228	288	257	181	215	248	244
310086	Mier3	358	305	343	329	315	267	288	312
502017	Dpm3	253	232	251	235	231.4	206	196.2	226.18
301476	Ikzf2	107.03	133	120	154.9	122	106	125	102.98
56759	Rnase4	359	388	566	386	269	361.5	434	440
301556	Dock10	1221	1308	1430	1519	1118	1232	1320	1181
287662	Pcgf2	214.03	210.42	207.76	228.01	190.2	186.4	189.2	195.98

362466	Bicd1	716.04	777.37	794.59	1030.9	857	533.4	740.6	808.3
362341	Zc3hav11	81.33	70.66	82.62	67.8	70.41	56.64	70.3	70.47
290500	Ggact	224.13	177.27	198.7	168.95	164.3	157.1	187.5	172.16
361308	Kif20a	85.74	63.21	131.46	67.68	77.44	70.92	95.74	64.19
25262	Itpr1	209	176	211	235	180	185	195	176
691002	Dhdh	98.11	121.18	116.67	132	103.6	96.28	109.3	105.32
361091	Uggt2	242	228	251	259	232	214	219	203
686412	Sall4	3	6	12	14	5	7	10	9
306459	Stox2	825.15	853.44	944.6	979.51	764	739.5	845.1	842.79
360519	Rasgeflc	354	466	461	348	315	375	337	416
103690170	LOC103690170	8.52	10.41	14.36	12.43	10.35	13.01	7.77	9.37
361753	Noc31	314	382	363	334	310	320	305	299
501699	Myo15a	50	44	44	46	44	41	46	32
117057	Myo1b	742	719	742	726	571	661	714	649
103694069	LOC103694069	101.88	83.2	76.54	119.87	112.5	70.7	70.42	84.38
501795	Prr36	36	64	39	54	40	50	35	46
308708	Ttc23	262	249	229	208	208	199	204	229
498846	Pcdhga2	414.48	448.6	347.51	326.88	360.1	360.7	317.7	323.9
140583	Chek1	83	61	75	62	50	61	80	58
81809	Tgfb2	456	419	427	376	382	458	352	295
293024	Akap13	1423	1362	1569	1585	1351	1394	1299	1219
266767	Slc17a8	58.32	59.78	69.98	62.49	56.91	39.96	58.51	66.67
500582	RGD1565622	72.86	71.8	95.38	97	82.96	72.24	73.12	70.36
300225	Fmn13	256	277	362	256	248	250	270	252
500057	Zfp800	176.92	157.27	174.77	187.73	149	130.5	171.4	166.55
24337	Erbp2	383.75	381.56	478.04	414.45	335.5	350.9	436.4	346.47
103694506	LOC103694506	298.5	255.9	207.42	185.76	218.3	185	228.2	208.38
309164	Ovol1	35.27	31	29.01	36.05	24.21	29	35.13	28.06
364395	Clqtnf9	8	15	15	6	4	13	6	16
60662	Fgf5	7	6	24	7	8	9	12	10
498333	Bmp2k	625.12	606.1	713.02	708.02	539.2	554.5	651.6	605.72
361646	LOC361646	315	350	373	309.07	289	283	342	280.03
25029	Calcr1	444.24	418.54	455.01	394.51	305.2	379.9	468.2	364.56
363016	RGD1309534	399	352	368	327	292	338	327	325
246755	Bcas1	1095	1270	1327	1158	909	1081	1080	1230
294273	RT1-DMb	164.34	134.73	199.3	135.24	119.6	108.6	135.4	198.24
83685	Capn6	105.77	120.22	148.62	128.01	98	127	110	110.66
102551819	LOC102551819	92	115	94	114	90	84	101	93
362526	Dnajc25	71	60	67	67	63	54	55	63
498831	RGD1562608	270.1	237.21	246.85	288.81	259.1	202.6	236.8	226.43
309349	Slitrk2	913	916	913	1048	775	714	943	929
103694558	LOC103694558	181.16	198.07	167.17	160.56	161.6	137.1	173.5	154.77
114206	Tmf1	1027	1046.08	1145.1	1303.8	1101	753.4	1101	1055.26
304486	Tctn1	616.42	727.21	725.35	599.39	552.6	594.7	559	660.32
689909	Ccdc62	117	128	150	118	92	102	142	119
311658	Nfatc2	240.91	272.02	307.63	212.98	193	223.7	233.8	266.33
362106	Fubp3	538	547	551	514	534	456	538	379
360840	Srgap2	1083	1091	1304	1194	918	1073	1137	1016
497886	Clqtnf2	224	216	291	207	194	190	209	239
361247	Hist1h2bd	0	0	0	2.39	0	0	2.12	0
84021	Irs3	103	59	72	67	67	47	66	87
58948	Dlg3	196	204	229	168	171	156	202	178
287275	Sec24a	564	601	692	633	536	548	583	542
501194	Ppip5k2	267	289	265	331	247	228	274	273
361927	Fxr1	427.43	417.06	322.62	428.88	372.4	346.9	380.4	316.24
103692848	LOC103692848	26.54	20.81	13.07	15.54	21.36	13.08	14.27	18.69

289777	Figl1	21	19	21	10	10	18	24	11
363170	Zkscan7	134.37	103.3	133.92	116.39	128	102	111.7	91.37
313765	Slc35e2b	722.74	824.14	849.65	876.4	650.2	723.2	761.3	769.61
362342	Hipk2	834	740	782.01	1057.3	830	693	717	789
171100	Angpt12	535	547	766	630	443	593	581	582
680076	Asb14	19	13	14	16	6	21.01	13.01	15
303208	Specc1	401	525	531	462	418	457	449	379
246304	Cep350	493	590	606	702	622	355	568	577
25306	Cpd	1301	1408	1387	1641	1432	1084	1297	1279
294667	Poc5	318.87	302.35	283.31	273.13	262.9	286.5	281.7	214.19
303403	Med13	407	425	487	478	395	344	419	437
360629	Nt5c3b	383.83	364.92	342.75	374.85	313.6	322.7	330.7	334.55
56266	Cyp4f1	22.86	19.07	14.67	14.49	13.97	17.81	15.88	15.44
312903	Tram1	1391	1368	1577	1362	1119	1215	1338	1386
79238	Hmgcl	125	164	156	125	111	133	115	147
64640	Rpl30	1254.1	1113.29	2125.4	869.47	932.1	42.59	1689	2096.81
305987	Dock5	1458.1	1605.79	1456.1	1673.2	1344	1254	1582	1317.46
301085	Fyco1	345	365	419	412	325	339	380	324
310315	Ccdc39	210	166	196	195	178	149	176	177.94
296456	Itgav	3679	3992	3949	4323	3369	3379	3839	3567
305605	Ccdc88a	527	562	619	637	559	439	543	541
58820	Zfp148	996	953	1101	1081	957.7	837.2	964	909
114202	Mpp3	190.24	143.57	183	167	167.6	156	168.6	115
310363	Fbxo4	53	69	60	59	42	51	63	58
287990	Vps8	968	949	893	957	804	833	868	840
117255	Ptpn12	964	1004	1044	979	814	871	970	889
689933	Syce3	22	38	47	18	22	25	28	36
310538	Fnip2	413	448	474	389	412	365	408	346
25181	Bgn	2322	2003.75	3568.4	2931.4	2095	2641	2679	2200.36
362366	Fkbp14	318.83	385.19	332.03	306.13	242.8	302.9	336.6	309.81
361348	Mro	83	65	70	95	64	60	74	80
259237	Dock9	2172	2070	2071	2492	1906	1866	2042	2007
309557	Epb4112	2849	3320	3857	3350	2428	3005	3328	3121
103691999	LOC103691999	10.78	12.26	5.94	4.15	9.5	4.44	10.1	5.39
497903	Sowaha	49	56	65	36	42	38	53	50
192242	Akr1d1	59.04	61.79	61.68	65.41	50.8	60.11	45.37	63.97
29412	Adrala	58	61	46	68	46	48	60	53
308666	Cyfipl	1145.6	1280.33	1402.6	1322.1	1089	1139	1249	1098.4
689253	Nbeal1	236.49	239.57	268.97	344.02	254.9	159.7	241.9	311.09
84050	Enpp2	553	532	589	569	414	502	626	451
100363275	Adgra2	1025.7	1122.68	1337.1	1460.5	1029	1118	1143	1104.98
312566	Adamts9	250.05	229	327	237	197.6	228	244	257.2
116996	I116	686	862	818	652	615	785	611	671
360760	Pan3	777.9	824.18	816.28	843.03	717.8	690.5	768.4	722.05
100362170	Zfp964	97	108.93	95.68	99	92.75	95.7	86.86	80.78
103690962	LOC103690962	14	13	24	30	30	13	11	18
108352495	LOC108352495	1	2	3	3	1	0	2	5
117182	Hsd17b3	4	6	2	6	0	7	5	4
291165	Nkapl	9	3	3	3	5	4	4	3
302516	Nyx	7	2	4	5	4	3	5	4
304577	Ung	39	41	47	53	38	43	44	35
308810	Ccdc81	1	3	2	3	0	3	3	2
311613	L3mbt11	60	34	39	56	47	50	42	29
315085	Naprt	198	173	212	191	126	166	189	207
364620	Poteg	1	3	0	5	3	1	1	3
691416	Aknad1	1	3	2	3	2	2	2	2

691992	Gp1ba	7	4	2	5	8	3	3	2
303735	Rnf213	781	803	888	894	755.1	711	767	759
501157	Rpe	723.64	658.04	673.45	651.66	597.2	574.1	609.3	625.91
313228	Invs	250.69	243.05	280.69	214.02	239.7	212	232.5	194.58
311146	Itprid2	3300	3655	3872	4129	2859	3120	3682	3636
295263	Gabpb2	78.96	73.99	100.99	94	87	63.02	83.94	75.4
306506	Pragl	196	182	193	259	193	177	160	208
494344	Ier2	171	188	158	286	248	188	146	132
100362347	Fnip1	498	458	493	501	478	423	421	412
317420	Wnk3	59	84	63	74	59	44	70	76
24514	Jak2	521	545	588	577	502	440	565	477
309381	Pyroxd2	233	245	278	257	233	224	218	226
295347	Rap1a	1294	1247	1472	1143	960	1163	1284	1179
114483	Cdk6	235.85	218.72	253.14	313.31	228.9	217.2	241.4	220.7
306022	Fndc3a	1069.3	1167.45	1179.2	1335.3	1130	947	1146	1003.01
63843	P2ry4	91	88	91	101	88	69	107	66
108348149	LOC108348149	522.72	513.12	528.22	452.84	318.8	422.2	475.1	577.91
361948	Nbea	511	456	554	580	453	484	482	450
292085	Nup133	288	264	293	261	251	262	226	245
500069	Cep41	132	138	121	144	123	108	128	117
300983	Abhd14b	440	482	478	450	345	370	429	502
103692172	NEWGENE_1562258	152.09	132.61	128.58	96.11	106	127.8	100.3	119.17
293971	RGD1564433	2.84	2.24	1.51	4.12	1.79	1.61	4.21	1.92
362401	Tmem43	768	939	1127	797	708	894	816	813
79126	Cfi	237	297	307	194	249	225	188	259
689926	Smim5	195	181	153	134	124	131	158	177
315121	Cdc42ep1	866	1042	1012	904	700	876	862	965
297942	Pnlsr	1862	1817	1975	1970	1709	1574	1795	1707
310749	Rsbnl	436	438	430	441	418	364	372	399
266792	Zscan26	778	749	791	755	600	654	746	735
361300	Mocos	259	283	309	313	259	263	229	285
64469	Slc30a4	604.88	559.89	570.91	610.96	495.9	434.8	564	593.92
363013	Tmem123	350	356	454	368	324	401	318	317
24907	Dmd	3135.2	3259.55	3228.8	3278.7	2739	2674	3069	3001.56
66027	Drp2	7816	9677	8532.1	8570	5555	8210	7482	9545
64475	P4ha1	1367	1417	1505	1588	1090	1360	1389	1392
117108	B3gat1	18	25	24	24	17	18	26	20
362630	Srsf10	1062	1071	1109	1139	962	920	1101	917
289625	Klb	19	22	17	24	15	19	14	25
681292	Shld1	35	46	42	41	34	33	50	29
25478	Man2a1	339	391	420.99	407	321	330	340	396
302424	Eda	279	279	310	271	209	261	264	280
686240	Naa16	310	313	290	363	285	260	310	281
309307	RGD1311595	472	404	464	556	442	379	446	421
689284	Rpl38	1994.2	1578.87	1812	1294.6	1347	1326	1436	1838.3
100910069	LOC100910069	254.75	271.41	245.59	197.54	192.2	204.9	213.9	252.07
315903	U2surp	1162	1152.99	1233	1296	1069	1000	1202	1042
102551957	LOC102551957	5.05	4.09	4.49	5.44	4.04	3.95	3.74	5.25
497943	Gltpd2	9.4	13.13	14.42	10.68	5.48	7.08	16.64	13.21
114635	Trafdl1	1043	954	938	816	821	833	858	828
297508	Nampt	673	645	586	543	572	536	537	534
103689969	Kdm6a	346.58	340.54	339.25	322.74	284.6	260	333.7	323.23
362132	Epc2	399	407	395	419	332	365	383	363
276720	Kcnj14	105.13	125.39	109.36	99.85	107.4	95.9	86.07	102.37
361714	Rasgrp2	97	80	99	72	91	83	72	64
303247	Tnk1	41.61	47.14	30.68	60.43	41.89	31.42	36.81	50.11

313270	Megf9	2278	2346	2444	2774	2275	1831	2455	2207
287406	Adprm	368	431	339	310	303	325	329	333
299103	Klhl28	424.64	388.38	391.81	408.11	366.1	306.5	362.8	401.63
29695	Gabrr2	4.3	1	6.22	2.14	2.99	3	4	2.18
81516	Smad7	97	107	113	114	95	92	108	89
306810	Susd3	18	37	28	18	26	23	16	25
362893	Arhgap9	99.28	78.56	113.15	73.86	105.6	62.57	83.34	73.65
307016	Arhgap12	916	878	939	980	848.8	726	904	830
292139	Shtn1	615.32	696.88	832.88	717.96	503.9	653	745	649.61
362971	Mpped1	86	101.08	81.67	74.77	74.13	71	64.01	97
312896	Trpa1	1638	1554	1879	1676	1538	1231	1507	1737
290212	Efs	326	360	433	334	316	340	310	329
360829	Ankle2	472	446	520	513	425	375	481	458
366016	Nup188	381.43	378.49	442.75	364.31	371.9	358.7	352.2	314.13
500988	Ddx6	2158	2214	2079	2278	1999	1846	2031	1906
303824	Igf2bp2	52	58	102	83	47	67	76	73
29388	Tnni1	21	17	28	17	23	37	8	6
684996	Mplkip	211	188	208	177	172	168	173	186
315045	Pop1	77	84	85	77	66	62	79	81
684293	Syt14	445	415	342	460	416	336	357	373
313592	Col8a2	822	889	943	959	850	898	652	822
29618	Btg1	1062	1069	1113	925.98	881	985.9	946	906
313128	Casp8ap2	220	203	245	238	229	167	212	200
100360982	Relb	140	168	161.2	133	114.8	131	139.3	152
84426	Wnt4	23	28	28	32	23	22	23	31
308820	Ccdc90b	274	287	273	249	201	223	270	272
315594	Oaf	1745	1124	1330	1022	1271	1177	1163	1046
300838	Tmod3	393	398	526	405	345	334	457	400
293118	Prcp	292	267	320	260	238	282	280	216
116667	Map3k1	259.96	258.1	302.28	359	272	233	275	272
294343	Zfp280b	44.2	50.59	102.21	86.97	89.01	95.21	13.64	55.45
54223	Adcy4	92	72	105	83	66	87	94	67
360463	Mpv17	369.31	363.34	396.75	346.61	315.5	311	339.4	350.83
24605	Nras	1799	1733.36	1764.3	1630.2	1546	1468	1595	1569.7
365352	Mical2	1076	1057	1184	1079	993	1127	918	884
287550	Tp53i13	182	188	128	170	144	187	119	146
498305	Spata17	15	12	21	17	9	12	15	22
681008	Bend4	404	359	377	440	371	342	332	365
63852	Pter	103	113	145	76	81	98	96	115
103694513	LOC103694513	20	18	19	36	24	14	20	25
367034	Zfp266	1674.9	1662.28	1694.3	1785.3	1455	1427	1666	1536.83
25324	Htr4	175	197	196	177	193	152	168	152
108351576	LOC108351576	115.2	75.11	105.27	139.39	119.6	121	50.63	97.12
100911761	LOC100911761	9.52	12.57	26.54	21.7	11.28	12.21	20.31	18.98
293749	Ms4a6b1	78.13	45.12	42.04	52.83	43.96	44.84	63.05	42.87
100125361	Zfp867	70	78	84	76	64	56	77	78
363261	Mogat1	19	33	13	19	14	15	26	20
103694559	Usp9y	0	2	4.72	0	1	2	1	2
59264	Ltb4r	11	3	6	8	10	6	5	4
679600	Xaf1	148	68	105	127	77	119	71	133
365984	St6galnac5	46.45	45.01	72.13	58.11	34.54	47.05	68.27	48.1
498605	Lrrc25	112.93	95.19	133.67	124.96	79.53	71.07	134.4	131.77
25526	Ptgds	5892	2634	3923	10055	2462	2334	4140	11159
310362	RGD1305938	1484	1364	1459	1459	1305	1144	1290	1410
298977	Zfp277	286	272	250	220	227	218	240	233
291423	Setbp1	326	227	279	355	253	240	330	237

108351806	Znf660	38.73	48.14	41.77	44.54	33.18	33.07	44.93	43.48
684173	Traf5	43	39	43	34	32	42	35	33
362956	Triobp	845.7	809.3	991.85	780.9	846.2	828.7	651.8	734.54
156767	Tnfrsf1b	69	63	80	78	73	62	63	61
498697	Klh13	35	38	28	30	33	27	28	29
313111	Klh132	503.33	503.81	477.73	510.32	470.4	482.3	446.4	383.25
309338	Cstf2t	370	371	360	333	299	346	310	326
103694018	LOC103694018	63.13	62.83	48.01	67.13	61.31	39.39	64.62	50.07
684901	Zfp449	228.37	213	187	207.18	170.1	168	189	219.32
500393	Vxn	23.22	19.08	34.25	24.21	20.54	26.21	30.29	12.98
499016	Tulp4	1259.2	1388.08	1352.7	1523.9	1328	1066	1318	1222.81
313138	Orc3	524	520	528	540	547	405	455	480
499929	Tgif2	189	193	199	189	143	167	197	181
292771	Sipal13	493.53	491.28	574.38	579.12	471.2	475.2	490.3	473.84
64547	Bcl2l11	130.75	129.39	122.04	173.27	125.6	126.2	119.4	125.12
360674	Bahcc1	268.94	325.57	297	380.32	307.8	272	283.4	273.29
311266	Qser1	712	688	739	822	650	544	724	728
306957	Btn2a2	48.08	63.85	49.97	45	46.07	42.97	43.87	51.99
360714	Gtpbp8	103	119	82	91	82	83	80	108
100911674	LOC100911674	101.21	85.34	197.05	240.74	54.19	319.2	48.66	135.96
84114	Agps	456	541	502	590	480	352	478	557
690115	Dnhd1	271	241.11	290.55	288.02	227.4	217.3	261.5	268.61
360851	RGD1566099	132.41	117.74	121.34	93.92	103.6	115.7	106.3	90.35
316351	Npas2	19	41	77	23	17	17	63	46
100359823	Tmem167a	1520	1360	1340	1382	1161	1227	1283	1336
691254	LOC691254	256.83	291.31	346.63	342	268.4	230.6	307.3	299.22
102555474	LOC102555474	31.29	28.59	34.68	30.51	28.3	23.41	29.56	30.52
767613	Gpr17	36	36	32.25	52.1	19	37	42.75	41
363476	Yipf6	1809	1897	1772	1878	1688	1474	1723	1690
363294	Twsg1	773	812	936	908	671	743	852	799
108351541	LOC108351541	73.42	38.63	67.58	56.35	56.2	46.33	50.18	58.23
502084	Rwdd4	480	446	456	488	398.7	442	422	409
690366	Vangl1	320	342	393	369	255	339	374	305
29502	Slc20a2	793	862	887	787	603	862	777	734
305923	Zdhhc20	512	500	474	562	478	425	504	424
309008	Inpp5f	2171.9	2323.8	2499.5	2144.4	1946	2052	2249	1924.9
291540	Cep76	243	241	255	253	220	209	250	208
680280	Gas2l3	1154	1456	1473	1539	959	1125	1531	1412
81515	Lyn	137	173	210	142	155	141	156	140
81708	Aldh6a1	1271.4	1481.47	1209.2	1451.7	999.1	1249	1280	1313.58
64467	Entpd2	2139.6	2482.45	3013.2	2117.1	1718	2549	2351	2102.74
89809	Rfc1	1034	1062.72	1023.9	1064	925	915	990	912.96
494339	Zfp799	251.37	260.21	268.03	214.47	214.8	208.6	226.7	239.16
108348366	LOC108348366	46.99	69.99	57.23	61.21	63.14	35.87	52.01	59.56
502285	Vom2r80	17.95	8	20	13	11	9	13.8	18.93
60630	Unc5b	268.46	322.77	323.64	321.92	253.5	321.3	256.9	274.72
53982	Zfp260	703.69	659.45	676.88	701.62	560.4	591.5	689.2	611.56
100909682	LOC100909682	22.78	19.14	27.18	20	15.25	21.54	25.2	17.72
306066	Tdrd3	303	322	318	329	315	261	294	268
690661	Zfp40	291	263.99	276.51	319.04	303	222	265.4	238.99
301570	Sp110	280	265	297	298	233	264	275	248
363490	RGD1561958	13	10	9	6	9	6	8	11
171122	Rab29	281	294	294	224	238	246	257	237
83498	Hnrnpab	1972.4	1913.77	2930.8	1831.1	1953	1829	1979	1976.92
81742	Pdelc	1973	1583	1841	2184	1840	1449	1842	1653
304885	Fam20b	1593.2	1580.12	1528	1662.9	1469	1407	1447	1372.47

500686	Ccdc177	49.18	52.39	59.08	66.35	47	46	58	52.15
684024	Dusp28	132	129	109	106	101	98	110	117
64047	Lrat	26.17	26.81	35.35	26.58	20.65	25.68	26.74	29.77
362484	Plekhf2	306	282	305	221	222	238	273	264
297520	I117rc	100	95	144	99	88	108	104	92
315211	Zbed4	214	227	219	197	186	179	202	200
692004	Siah3	32	33	29	49	30	29	25	44
25425	Ctsh	2389	2197	2662	2373	1805	2034	2380	2393
303764	RGD1310429	658	567	616	648	584	464	623	557
361032	Armh4	1079.5	1174.48	1093.4	1160.7	1106	975.8	951.4	1002.18
84584	Ncoa3	571	572	593	729	574	588.2	532	512.52
360914	Plac8	102.97	69.65	118.11	27.26	87.82	75.71	57.54	63.6
296086	Ndufaf1	529.32	483.67	444.3	480.17	457.4	426.7	387.5	462.92
361552	Wtip	204	187	190	154	150	174	157	177
688618	Gxylt2	24	19	36	26	18	23	25	28
171287	Epha7	178.86	196.21	180.69	194.52	168.2	139.5	193	170.98
308900	rnf141	2248	2449	2158	2111	1594	1899	2183	2351
100364769	LOC100364769	13	12.04	16	24	16	11.04	18.19	13
498690	Ctla2a	66.2	65.46	62.97	49.07	57.45	40.85	63.36	56.53
500846	LOC500846	31.15	23.09	43.52	25.39	31.6	20.85	34.53	23.28
306994	Yae1	380	355	413	352	296	344	344	359
103690779	LOC103690779	93.18	117.2	84.99	119.97	82.11	73.38	79.66	136.73
682206	LOC682206	352	316	354.99	345.99	290.9	298	312	324.96
500316	Acrbp	46	32	43	32	29	38	35	35
108348081	LOC108348081	245.54	222.07	211.82	327.65	203	223.1	216.3	259.37
29547	Homer2	132	122	134	138	124	114	109	124
304135	Adamts5	343	339	379	412	329	248	366	376
103693051	LOC103693051	0	5.5	4.5	2.34	0	4.39	4.67	1.99
361501	Isoc2b	73	74	79	61	48	65	62	82
308668	Nipal	1320	1465.52	1351	1653.6	1417	957	1487	1323.99
684538	Echdc3	23	7	25	12	15	19	11	15
171434	Phldb1	1941	2296.01	2316	2149	1748	1922	1987	2136
102555826	Clec20a	345.1	289.83	331.66	216.09	188.3	289.1	300.3	281.42
364018	Ncf2	30.05	38.15	48.24	28.15	28.17	27.04	42.19	32.09
81517	Mdk	325.71	254.9	363.93	319	291	244	279.9	316.72
291984	Dpep2	16	24.86	13	12.01	22	11	14	12
307924	Zfp276	234.65	259.57	274.58	232.08	197.3	251.8	236.7	210.88
363210	Phf3	818	793	880	926	805	711	811	734
306183	Farpl	580	650	673	679	546	596	628	543
108349781	Hs3st4	73	56	63	48	46	40	82	47
300665	Hinfp	258	264.86	266.78	245.13	251	209	239	228
60331	Atxn3	691	733	694	705	596	587	676	670
497942	Cxcl16	363.76	293.72	313.9	390.81	296.8	277.9	330.9	314.69
366205	Flrt3	316	296	358	298	245	259	305	327
303173	Zfp39	110.32	110.42	127.42	115.93	110.4	82.85	123.5	99.07
171159	Zhx1	1500	1502	1587	1569	1401	1245	1518	1353
310695	Kirrel1	1365	1519	1984	1828	1303	1526	1675	1495
117261	Slc15a1	32.93	18.86	6.12	24.37	23.88	13.69	20.6	15.55
361564	Fam71e1	87.36	85.76	83.92	55.94	79.65	68.37	81.1	51.3
296117	Galk2	479.55	470.76	427.64	363.67	343.9	415.5	394.4	406.81
688442	LOC688442	102.97	96.24	138.79	137.23	121.3	118.9	108.5	77.23
315914	Morc4	172	193	250	222	171	200	206	173
308265	Lats1	697	805	801	837	702	656.7	766	689.03
257650	LOC257650	94.58	78.41	101.45	104.54	78.19	74.78	107.3	79.29
501127	Rfx8	62	68	43	58	49	55	43	60
687266	Fpgs	264	316	300	227	242	255	236	259

25724	Itgb4	10789	10411	12494	13736	8779	10963	11455	11308
310638	Ash11	1708.4	1776.52	1896.3	2135.6	1792	1557	1807	1580.22
314800	Acss3	64	48.12	66.93	66.02	56.65	49.09	53.88	60.01
289378	Tatdn3	202	237	197	106	196	174	185	110
361505	Cdc42ep5	82	65	94	77	73	67	80	65
291044	Nedd9	421.76	483.97	487.55	448.01	380.2	413.1	427.6	429.3
361183	Ankrd10	712	789	816	739	673	582	713	771
102548730	LOC102548730	27.45	21.78	16.36	26.67	23.96	27.53	15.41	15.79
501854	Rab7b	225.12	254.11	391.97	207.27	201.6	229.2	265.1	270.83
362325	Mdfic	389	377	505	466	295	360	494	408
690435	LOC690435	1.05	1.02	3.86	3.24	4.12	1	2.16	0.94
406170	Sapcd1	45.55	72.65	110.21	37.91	49.66	65.13	56.68	67.26
102556352	LOC102556352	100.68	100.69	83.2	120.1	91.79	94.91	102.1	74
27080	Hbp1	1161	1131	1099	1070	972	956	1025	1046
360492	Jpt2	346	372	409	399	286	333	388	361
689914	Trabd2b	221.98	295.57	386.34	327.71	283.8	268.8	299.4	252.18
102552069	LOC102552069	4.5	4.64	3.16	8.48	6.13	5.81	3.08	3.61
102553085	LOC102553085	4.5	4.64	3.16	8.48	6.13	5.81	3.08	3.61
289089	Ivns1abp	4581	4695	4663	4193	3577	3975	4288	4416
294213	RT1-M1-4	8	2	9	10	5	5	15	1
29527	Ptgs2	3	6	4	16	9	2	8	7
498580	Tmem273	4	8	13	4	5	9	5	7
103689954	LOC103689954	184.48	223.63	309.5	197.44	178.2	189.5	305.5	147.35
293967	Smc5	664.64	624.64	659.72	689.63	546.8	513.4	660.1	645.62
81651	Cspg4	602	677	856	828	498	815	753	591
293935	Prrg3	633.22	472.44	338.56	878.88	420.8	566.9	568.9	526.49
685933	LOC685933	163.67	179.39	191.81	190.78	61.5	211.7	156.6	220.96
100360061	LOC100360061	8.36	4.17	2.3	2.41	0	5.84	2.01	7.61
100909786	LOC100909786	8.36	4.17	2.3	2.41	0	5.84	2.01	7.61
100909537	Iqck	675.87	756.98	605.36	640.15	483.9	676.2	635.7	606.23
360521	Rufy1	350	378	388	338	278	360	329	337
303336	Wsb1	1377	1426	1471	1205	1038	1186	1475	1215
362472	Cspp1	425	386	412	467.12	372	370.9	399.9	373
299339	Tnfaip2	93	74	133	88	88	101	92	67
362514	Tstd2	602.19	629.97	570.68	624.9	545.5	545.5	544.4	542.05
58921	Foxm1	103	72	116.9	85.91	97.95	87.97	82.95	70
64012	Rad50	815	736	774	831	776	632	756	667
29498	Pts	188.43	187.34	169.06	176.46	185.6	143.3	152.8	165.37
54308	Slk	1360	1296	1437	1430	1319	1082	1380	1174
192178	Tnrc6b	1439.7	1402.76	1472.1	1645.7	1438	1203	1425	1281.06
102551257	LOC102551257	123.75	128.77	138.58	107.18	103.4	85.12	157.2	101.36
79213	Slc6a11	29	53	76	56	41	49	61	41
299996	Matn2	4448	5175	4860	4621	3930	5443	4058	3710
300173	Gxylt1	578	563	595	590	503	476	604	504
303634	Gna13	300	253	243	304	271	220	284	212
309375	Marveld1	719	800	843	744	614	689	808	676
64088	Snx16	780	769	776	734	601	639	771	734
502710	Kmt2c	1439.1	1429.15	1504.2	1803.1	1529	1240	1412	1360.96
116680	Ptpru	239	293	248	243	187	211	239	281
365894	Trim33	744.01	711	721	786	674	648	687	649
296084	Ino80	565	575	597	612	529	513	552	514
114102	Cdh23	24	14	32	8	23	19	14	14
364653	Wdr17	84	78	82	88	82	57	83	76
59295	Nucb2	892	828	861	798	713	732	813	775
361776	Ccdc172	160.76	158	201.04	191.01	160.4	130	188.7	159.01
293783	Lpxn	112	108	120	100	84	92	100	119

314740	RGD1565866	22	26	17	23	13	26	14	26
29459	Rbbp9	205.63	215.73	240.02	218.45	201.8	178.2	187.3	222.69
50556	Exoc6	764	777	870	720	647	712	704	748
108352059	NEWGENE_6497122	142	167	115	124	153	105	124	110
619580	Ctps2	1152	1103	1160	1138	928	985	1180	995
24212	Atpla2	7903.9	6792.26	6564.9	10716	6156	7029	7339	8188.36
309187	At13	1165.3	1197.21	1164.7	1173	1166	847.1	1170	1037.72
100360777	Mroh8	45.06	38.03	41.02	56.36	25.12	39.34	48.52	49.07
293104	Eed	306	286	294	261	247	247	266	270
315217	Plxnb2	1083	1201	1497	1336.8	1092	1121	1192	1190.81
298250	Fggy	150	157	158	160.82	120	133	136	173.01
303803	Klhl24	1127	1089	1105	1172	1032	913	1024	1066
29631	Bet1	380	405	399	317	291	326	361	370
102553158	LOC102553158	25.42	17.85	16.33	26.85	16.05	19.21	18.92	23.46
102555672	LOC102555672	300	323.77	302	319	251	241	315	310.97
366980	Arid2	618	608	658	728	596	522	654	574
301059	Myd88	235	247	267	184	195	204	192	247
298366	Ttc39a	89.26	139.54	90.28	75.93	93.26	60.05	138.8	62.68
688400	Edil3	3151	3220	3149	2608	2795	2692	2553	2854
313969	Fam84a	20	8	12	19	12	12	17	12
108348168	Rlim	1191.2	983.64	1070	1442.1	1131	871.3	1228	979.92
361871	Rfesd	363	401	384	486	424	304	353	387
54410	Enpp3	287	193	372	232	238	206	296	234
103693189	LOC103693189	1115.8	866.88	1019.1	793.12	562.8	984.4	1029	833.77
360993	Ppp4r3b	846	737	943	797	661	671	848	806
300811	Bnip2	923.52	1009.36	1091.1	996.91	772.9	877.5	1023	939.66
299117	Nin	567.01	529.3	570.58	707.01	529.3	519.7	560.4	523.73
317627	Baz2b	633	643	804	790	628	578	711	662
298941	Lamb1	3619	4748	5101	4514	3614	4044	4469	4032
503306	Sowahc	918	946	970	964	791	753	940	929
498013	Ern1	238	239	277	272	224	222	233	243
314764	Eea1	851	885	901	1290	1025	608	952	944
64681	Mvp	802	1055	1055	848	750	892	869	868
310689	Lrrc71	126.14	114.08	168.66	192.08	93.47	149.7	140.5	156.39
688611	Cetn4	90	86	94	66	63	78	88	73
108348078	LOC108348078	1168.8	1007.95	1009.5	957.93	1059	823.3	902.8	939.5
309995	Xrcc4	193.04	195.74	197.37	190.66	170.7	146.5	193	188.05
363982	Yod1	51	59	71	76	63	40	53	75
293750	Ms4a6b	355.61	319.11	369.86	310.95	277.6	297	306.9	336.99
301436	Kctd18	390.22	446.45	448.2	395.91	372.8	351.1	412	374.99
690893	Oosp1	30.92	32.07	26.32	30.92	37.7	25.31	15.33	29.73
303801	Lamp3	17	22	22	28	11	23	22	24
102548230	Znf235	80.14	74.35	74.64	69.35	61.08	63.89	66.8	76.54
100909664	LOC100909664	180.62	148.94	140.08	212.61	177.2	102.5	164.6	168.98
317517	Ptchd1	27	21	19	32	26	11	19	33
691280	LOC691280	364.16	383.57	411.02	399.26	339.5	329.4	361.1	370.77
688555	Atg10	104.76	117	86	95	86.11	76	93	107
60338	Fxyd5	372	317	441	287	338	300	336	300
102548101	LOC102548101	234.01	279.92	239.93	262.24	254.2	223.6	232	203.74
313474	Eps15	3573	3377	3236	3595	3248	2806	3091	3246
64709	Nucks1	1706	1752	1836	1743	1597	1520	1626	1585
685610	Zfp59	218.14	225.85	186.41	205.79	207.2	142.5	193.2	208.99
117538	Wipfl	928	964	1042	1048	846	838	946	951
498940	Ces2h	8.71	9.82	9.9	13.28	7.15	12.93	11.43	6
363122	Ppp2r3a	677	636.81	623.03	742	571	622.2	650	566
361764	Sema4g	647	811	714	739	545	733	590	750

64044	Casp8	79.4	61.22	88.76	71.57	61.1	50.69	82.33	76.54
25296	Bmp4	74.32	43.16	52.11	83.37	62.39	53.07	55.21	56.85
25672	Nr3c2	494	501	464	550	444	434	467	462
100911395	Agbl4	41.02	38.83	50.58	36.47	41.78	28.43	41.97	37.94
50554	Smad4	792	826	851	883	800	704	767	744
316395	Hecw2	418	436	382	525	417	383	393	391
298020	Tmem245	2536	2792	2789	2970	2370	2381	2612	2610
302288	Fem1c	496	471	475	509	431	449	413	462
291444	Prrcl	642	593	645	670	552	603	563	576
365297	Crtc3	535.82	560.71	571.89	545.37	406	544.4	517	524.29
295319	Man1a2	1342	1331	1321	1460	1340	1078	1255	1234
24973	RT1-A1	949.69	644.97	1091.2	990.57	817.1	980.5	862.2	648.77
315923	Lysmd3	120	108	126	106	122	86	100	106
100361506	Armc3	3	4	2	1	5	1	0	3
296610	Spaca9	8	12	5	5	6	6	8	7
299206	Batf	4	7	7	2	3	5	2	8
309609	Ly6g6f	5	1	4	0	5	0	3	1
317271	Mageb4	4	4	1	1	2	0	2	5
361192	RGD1308544	1	3	4	2	2	2	4	1
361993	Them5	8	10	8	4	3	9	5	10
498060	RGD1562726	14	8	13	5	11	6	9	10
499964	En2	1	3	3	3	2	3	2	2
500895	Iqank1	3	1	5	1	2	3	1	3
681325	LOC681325	1	3	4	2	1	4	1	3
140473	Ackr2	15	13	20	2	18	15	7	5
245955	Lgals3bp	1362	1795	1781	1415	1302	1807	1282	1327
362624	Selenon	1345	1547	1673	1538	1269	1440	1404	1380
114486	Braf	814.7	782.9	804.04	925.87	799.4	690.5	761.3	743.89
362017	Cyb561d1	160	171	169	131	114	174	131	149
25277	Mfge8	883	901	987	618	676	875	726	774
170907	Serinc5	1340	1674	1840	1694	1241	1485	1673	1496
315523	Nfrkb	695	718	801	645	654	631	667	622
113970	Magi2	333	417	385	440	329	320	382	387
25204	Pcsk1	1389.8	1553.7	1544	1362.9	1436	1088	1366	1376.93
307393	Sh3tc2	500	566	500	471	380	448	467	539
29186	Cd63	1813	1912	2336	1619	1424	1729	1785	1977
362602	Zmym6	356	335	379	356	305	292	354	333
298934	Adi1	289	274	272	242	221	252	269	228
364666	Cdk20	213	199	181	162	169	170	145	196
316526	Wnt6	413	385	394	439	307	319	366	477
680478	Lrrc19	3.58	5.18	2.49	7.58	7.66	2.99	2.2	4.11
309816	Lama4	1695	2120	2754	2636	1659	2066	2309	2257
294322	Pknnox1	306	347	291	305	269	299	268	289
313662	Mfap2	83	96	127	97	80	100	111	72
100365370	Ctdsp2	2021	1959	2145	1867	1569	1933	1793	1904
363684	Meox1	61	77	94	111	37	89	90	93
303008	Rhbdf1	1254.5	1291.07	1572.7	1220	1043	1197	1237	1332.51
29383	Fah	167	168	188	153	146	144	147	172
117526	Tbp	270	244.61	237	240	227.4	185	253	228.02
308361	Zfp329	204.98	221.47	271.67	301.57	244.7	170.4	249.5	236.12
498514	RGD1565222	102	103	109	90	92	104	79	89
502784	Gprin3	61.4	54.49	62.34	72.5	65.83	37.88	46.43	75.79
116499	Fgf4	139	144	138	125	94	111	116	171
293617	Ifitm5	19	20	27	25	17	32	16	17
363472	Prrgl	637.53	611.46	661.28	777.73	584.9	545.7	661.5	630.19
304758	Ccnt2	1434.9	1346.33	1404.4	1440.9	1263	1172	1362	1273.11

108351567	LOC108351567	17.01	6.19	13.51	17.44	11.44	14.71	14.35	8.3
313837	Qpct	115	148	132	101	80	78	176	113
681383	Lrmda	89.34	99.1	87.89	92.49	79.1	86.09	82.16	85.04
652957	Csf2ra	153	134	204	147	153	139	158	125
304507	Oasli	72.64	75.26	0	0	41.95	0	0	91.35
500000	Cldn12	440	474	436	474	353	427	463	401
103694908	LOC103694908	98.6	55.57	112.33	17.78	68.6	39.36	108.4	39.89
314979	Deptor	2371.8	2703.91	2642.8	2436.8	2455	2211	2208	2278.52
298019	Ctnnal1	2075	2606	2649	2023	1555	2191	2458	2227
303690	Rhbdf2	202.31	264.01	346.71	219.01	228.5	269.4	236.4	196.01
313566	Rlf	562	532	514	575	523	446	524	475
501317	LOC501317	104.8	52.01	76.15	49.47	67.73	32.96	66.77	87.16
293939	Erlin1	305	284	353	267	242	271	278	299
679906	Trpm7	1312	1282	1352	1459	1156	1106	1346	1265
108351482	LOC108351482	43.64	54.57	39.99	42.67	42.51	36.94	29.9	53.72
360590	Ypel2	843.98	920.97	880.47	918.22	778.7	803.6	800.2	830.43
290741	Dctd	35	38	68	42	43	27	52	43
363089	Mindy2	2832	2829	2908	3145	2716	2326	2757	2763
365277	Asb7	257	289	253	320	280	232	240	257
313860	Pkdcc	369	283	310	310	206	285	326	330
295248	Zbtb7b	300	270	290	280	252	271	263	242
102553001	LOC102553001	173.95	132.94	156.47	160.73	151.3	129.3	140.8	141.39
362182	Rcn1	2137	2400	2358	2168	1702	2098	2084	2290
29610	Tgfbr3	1161	1301	1376	1596	1188	1237	1305	1171
361773	Ccdc186	1709	1745	1627	1740	1599	1356	1657	1540
296474	Helz2	249	218	236	215	201	239	192	196
24324	Edn2	4	8.79	10.37	8.77	5.16	10.13	7.13	6.38
314690	Washc4	2076	2031	1930	2148	1937	1767	1869	1810
102554748	LOC102554748	75.13	82.14	122.1	128.95	91.94	107.3	69.67	99.39
64155	Scn7a	14491	15918	16327	16552	13087	12404	16451	15149
102550291	LOC102550291	127.74	127.5	147.34	160.56	136.6	91.32	130.7	149.39
81746	Pggt1b	384	421	409	441	379	331	407	376
687508	LOC687508	135.93	115.86	97.01	92.31	106.7	105.1	96.65	89.53
299145	Rhoj	650	592	750	767	534	621	693	641
362465	Tmtc1	2218	1982	2232	2186	1923	1979	2025	1848
363611	Iba57	111.66	126.26	120.49	126.44	117.2	117	93.03	110.19
25617	Hspa5	5877	5734	6817	7588	5380	6078	6531	5483
64322	Dap	691	794	993	673	610	730	771	732
361276	Cdnf	36	27	29	41	26	39	31	24
685472	Lrrtm2	254	242	214	262	251	216	194	216
315341	Hoxc5	74	67	56	59	51	54	53	73
116670	Ppp1r12a	1400	1362	1557	1458	1308	1279	1369	1257
108351873	LOC108351873	1.65	1.11	4.23	10.33	5.26	1.34	7.82	1.21
312478	Loxl3	190	180	200	209	137	219	178	169
689972	Piwil4	4	13	18	6	10	9	9	9
362152	Hnrnpa3	5067.7	4879.28	5510.2	5158.6	4574	4322	4959	4749.2
360799	Nupr2	77	66	88	87	76	72	63	76
114120	Gngl2	982.83	887.56	998.63	939.9	788.5	863.6	893.9	891.72
362229	Xrn2	632	604	677	652	529	544	652	590
102550203	LOC102550203	31.53	42.91	37.14	27.27	33.22	25.57	33.32	33.21
296750	Rint1	472	451	435	469	428	409	398	414
304109	Tiam1	393.16	408.27	461.86	403.5	388.2	408	392.7	315.57
103689983	LOC103689983	483.99	435.59	419.46	483.99	338.8	403.3	371.1	532.39
290315	Tdh	34	26	23	30	27	23	20	32
314171	Prpf39	638	656	699	671	604	520	624	657
311487	Polr3f	514.85	519.66	475.97	515.75	440.7	442.5	465.1	481.15

361159	Eri1	358	352	365	296	306	283	330	319
252919	Slc38a3	54	30	24	57	26	44	29	50
103690178	LOC103690178	200.81	170.64	216.47	194.92	168	187.9	159.1	191.88
289052	Zbtb41	461.04	476.82	473.1	480.41	415	340.3	468.7	484.11
315510	Igsf9b	199	216	262	314	280	158	237	220
404641	Mas11	78.19	89.23	66.22	96.34	78.8	61.12	70.05	88.06
295602	Rif1	185	139	193	175	156	100	182	187
311412	Anapc1	1042.7	1067.1	1114.4	1168.1	1004	999.2	992.6	971.7
368070	Pnn	1193	1047	1213	1186	1089	970	1119	1012
24218	Atp7b	58	39	52	68	49	44	50	53
303233	Cfap52	16	18	16	12	10	10	20	16
315763	Mtfmt	203	190	160	160	141	168	186	149
294299	Tead3	143.19	119.65	147	133	103	148	134	105.31
304477	Kntc1	130.81	112	119	143	109	110	125	111.97
103689932	NEWGENE 621351	7913.7	8872.31	14317	10219	6942	12024	9599	8759.53
302670	Zrsr2	380	408	377	396	397	369	344	300
362368	Ggct	173	174	178	147	122	179	144	162
499179	LOC499179	167.59	169.62	184.74	181.62	162.8	154.7	176	141.92
302470	F8	421.12	491.01	550	535	443	456	441	464
316599	Usp40	475	487	539	495	414	431	490	468
314862	Dyrk2	274	251	294	267	214	246	257	264
81740	Pcm1	1884	1771	1853	1995	1733	1498	1864	1683
313449	Upf3b	547	477	520	495	514	390	473	465
108348336	LOC108348336	45.04	85.9	57.71	63.59	74.54	68.54	33.09	51.7
690625	Oc90	10.89	18.59	12.41	8.52	6.03	19.99	8.43	11.09
500762	Tmem198b	208.06	188.22	207.76	223.33	162.6	182.4	212.7	189.79
691658	LOC691658	619.24	574.78	617.27	633.82	574.5	545.1	583.7	505.73
497930	Scol	383	350	303	290	280	320	255	343
24918	Stat5a	284.16	287.3	277.31	278.63	231.4	296.9	230.5	259.78
293057	Whamm	168	147	130	156	150	121	132	140
317423	FAM120C	887.45	847.97	908.66	1099.1	905	789.1	855.6	832.31
691610	Zfp770	288	273	278	312	267	218	262	293
293019	Arrdc4	547	567	591	463	494	492	520	453
312398	Smarcad1	534.3	504.78	586.39	558.13	467.6	470.9	547.4	487.25
685203	LOC685203	102.97	93.54	94.67	103.44	81.5	97.48	85.19	92.42
314169	Togaram1	1093	1102	1152	1243	1091	920	1110	1027
500108	Zfp398	141	179	167	177	156	133	134.1	177
317344	RGD1565685	525.51	482.7	448.62	429.64	414.2	403.9	428.6	458.31
310166	RGD1564125	167.17	143.54	167.91	179.68	135.6	139.4	152	167.99
300189	Rpap3	785	773	720	809	712	675	712	691
301346	Sema4c	1223.1	1202.49	1354.4	1121.5	936.1	1214	1095	1185.74
360602	Luc713	2005	1880	2075	2009	1825	1645	1927	1806
301081	Zdhhc3	1788.7	1846.14	1882.6	1893.6	1549	1696	1701	1752.35
306424	Mfap31	3722	3509	3513	3850	2958	3094	3679	3461
25162	Sp4	128	129	158	168	146	94	141	146
102552880	LOC102552880	449.88	515.12	443.02	560.49	493.1	355.5	476.6	454.34
311968	Kmt2e	1698	1692	1919	1846	1621	1611	1651	1586
313488	Reck	1051	1176	1243	1297	897	1012	1192	1209
24718	Reln	3172	4098	5248	4209	3605	3975	4100	3444
294800	Rad1	125	113	95	95	95	78	101	113
100364335	LOC100364335	2559.7	2482.35	2587.4	2630.3	2252	2299	2441	2285.17
367072	Arhgef12	983	1052	1111	1132	1058	863	1023	925
691125	Atp8b5p	41	26	47	43	31	36	33	42
108348112	LOC108348112	996.18	1219.32	1012.4	818.89	781.1	1120	964.8	794.65
307029	Wac	1497.3	1385.58	1356.8	1529.1	1262	1302	1351	1301.66
303251	Dvl2	183	195	206	191	179	186	171	165

287526	Serpinf1	1008	849	1045	837	694	886	1008	794
689800	LOC689800	13	8	15	18.16	12.99	13	11	12
363131	Pik3r4	636	756	773	790	692	698	647	636
311134	Ccdc141	680.62	608.62	734.7	744.38	641.2	519.6	647.1	696.29
308376	Adgrg6	1693	1572	1672	1827	1382	1457	1728	1552
116666	Lman1	1002	904	915	934	808	812	892	885
295528	Erich3	1239	1343	1241	1348	1463	1156	973	1086
306451	Tenm3	1190	1257	1617	1246	1277	1276	1218	1033
291211	Ggps1	1080.7	1014.43	969.94	1094.4	964.7	842.5	928.9	1027.06
361237	Cdyl	212	225	241	256	207	194	221	223
362756	Pigh	400.54	367.7	409.13	325.84	311	356.9	351.7	340.32
54404	Itih4	1	6	9	5	2	4	4	9
65200	Slc16a8	3	4	7	7	5	3	5	6
362581	Scmh1	363	357	370	354	286	344	342.5	334
499655	Cks1b	245.46	235.21	217.53	208.96	175.6	191.4	230.8	223.06
499210	Acer3	1120.1	1175.55	1162.6	1181.2	998.7	957.1	1105	1137.08
292044	Cdyl2	472	499	469.94	524	470	358	504	446
305972	Zfp395	322	305	333	312	257	270	297	327
312947	Tgs1	295	277	280	263	262	232	262	253
29261	Tyms	91.99	71	85	78	67	81	79	68
294744	Gpx8	513.05	453.55	567.13	420.43	369	424.3	492.4	482.79
296219	Nxt1	96	79	95	67	81	81	61	82
362516	Msantd3	276	259	250	227	220	225	240	231
308839	Rsf1	661.17	601.37	676.35	693.08	609.6	528.1	612.2	632.46
266674	Cyp4a8	19.84	22.1	18.84	22.1	16.11	15.31	17.52	26.08
170946	Marf1	2556.9	2498.76	2615.2	2793.5	2436	2158	2459	2419.26
305600	Fanc1	113.64	108.92	113.27	96.13	86.41	91.93	115.3	97.37
362096	Setx	1062.3	1049.04	1206.4	1210.4	1051	926.7	1098	1023.32
296090	Sptbn5	2712	3141.23	2999.7	2646.6	1839	2916	2888	2767.76
54272	Mcpt9	13.2	5.29	14.05	1.15	16.69	6.28	5.5	2.03
297822	Tp53inp1	396.98	414.96	425	410	369	355	378	389
681288	T2	48	50	37	34	44	27	45	37
100363074	Acot11	69.51	66.56	77.61	96.79	69.06	68.71	69.31	74
140931	Hnrnp1	2312	2112	2402	2164	1830	1978	2216	2115
85252	Xpo1	1602	1555	1648	1640	1443	1374	1554	1464
296280	Tspy26	104.83	125.19	125.75	103.19	104.1	93.17	122.5	95.81
100125373	Pnrc2	881	795	992	746	669	704	816	902
306866	Slc35b3	341	313	322	303	289	255	297	317
311598	Fam83d	19	11	31	13	10	18	22	17
295971	Depdc7	72	114	105	79	76	63	102	94
103694328	LOC103694328	935	928	977	987	882	785	888	910
308516	Rhpn2	132.79	103.46	115.27	142.95	120.1	116.6	100.1	111.02
291182	Stard3n1	990	1006	961	809	834	805	900	871
498819	Greb11	181	203	186	213	225	136	171	177
363443	Ndp	321	365	350	239.46	229.9	294	340	291
100312982	Ddx3	1298.3	1213.96	1227.3	1268	1149	976	1196	1213.27
679087	LOC679087	170.47	120.97	108.55	124.58	114.3	93.55	119	148.23
300470	Thyn1	570	587	523	470	459	454	538	496
117547	Ncr1	5.18	10.14	18.8	20.15	13.5	15	11.76	8.89
102552170	LOC102552170	11	16	10	16	11	13	13	11
291324	Trdmt1	310	314	309	265	265	238	296	286
64456	Spon1	564	554	364	681	438	385	466	670
315265	Twf1	1144	1157	1219	1114	940	1009	1171	1077
500973	Slc37a2	283	229	299	250	236	245	231	249
317346	Bcor	255	271	348	325	254	284	278	270
100910732	LOC100910732	1398.8	1387.8	1534.3	1421	1225	1310	1396	1270.86

291023	Id4	642	724	689	684	598	553	724	606
361241	Serpinb9	2344	2267	2218	2240	1945	1815	2641	1813.96
691397	Smg1	1839	1896	1991	2256	1936	1369	1972	1954
308496	Nfkbid	30	25	31	31	26	25	34	21
108350407	LOC108350407	41.72	55.36	40.65	49.06	35.3	41.88	47.72	44.33
302566	Usp27x	71	71	73.03	74.03	56.89	82	52	71
287989	Ephb3	156.96	185.3	224.24	158.42	171.3	179.6	145.1	160.78
363886	Cnpy4	260	269	295	241	236	237	233	259
83518	Aplnr	91.19	92.9	83.69	72.51	96.95	90.01	53.89	67.49
365895	Hipk1	2162	2156	2256	2337	2006	1836	2212	2021
310743	Olfml3	498	471	571	486	450	439	486	461
498806	Myo3a	302	289	210	276	249	219	280	228
100912151	LOC100912151	331	350	304.01	331.41	276	272	348	297
25153	Mas1	22	20	21	33	20	20	24	23
65187	Gabrq	14	20	13	17	11	8	13	26
315840	Myo6	1028	1156	1105	1159	1103	1019	992	917
116591	Fcgr2a	46.58	64.28	52.65	39.51	31.97	47.3	44.18	60.54
50555	Ugt8	4069	4597	4055	4186	2890	3860	4009	4565
26295	Ogt	3198	3257	3159	3358	2909	2725	3234	2890
25528	Sirpa	888.35	917.05	1014.3	995.16	847.3	918.7	859.8	832.19
497009	Naaa	296	332	345	310	289	265	318	291
497974	Myo19	246.33	216.49	200.37	211.04	200	196.3	179.9	216.39
688146	Rsad1	41	66	60	47	56	59	34	45
304862	Tpr	1799.4	1771.96	1957.2	2097.2	1780	1639	1862	1632.06
59303	Tmem33	966.98	1028.15	1032.4	975.24	948.3	791.1	830	1059.46
363554	Msln1	33	30.25	43.84	26.1	28.69	28.01	36.09	27.96
298074	Xpa	167.66	159.98	171.93	136.37	151.1	134	146.8	144.66
360511	Pank3	4313	4498	4500	5102	3838	3509	4553	4795
103691573	LOC103691573	44.21	38.84	29.9	44.62	40.09	42.15	27.18	33.45
25470	Kcna5	243.98	300.66	234.33	239.35	202.3	286.1	204.1	230.94
25289	Adcy6	779.98	747.37	796.26	752.47	632.5	760.8	706.9	689.13
29263	Acvr2a	1047	972	1043	1046	905	867	1009	944
501100	Crip3	2.06	1.24	0	4.53	0	1.46	1.47	4.17
293618	Ifitm1	619.12	402.97	548.39	406.81	382.7	405.5	479.9	524.84
361605	Pcf11	553	488	554	508	477	473	475	482
56763	Srekl1	1143	1212	1264	1286	1166	978	1215	1089
300518	Robo4	3.04	17.52	9.75	4.79	6.38	7.62	10.92	6.91
114510	Mllt3	249.11	207.15	218.69	265.28	223.2	210.3	223.4	195.8
302499	C1galt1c1	583	577	567	474	470	454	515	557
689500	Mcts2	243	231	209	262	217	192	235	213
309009	Mcmbp	353	336	388	405	305	311	363	365
498004	Cfap97d1	2.76	1.43	0	0	2.42	0	1.38	0
100912447	Nynrin	355	359	473	457	315	404	354	418
304883	Abl2	540.03	589.84	687.66	596.52	601.1	524.2	597.9	466.24
296137	Bub1	87	83	114	60	70	86	86	70
682914	Zfp326	297	307	317	380	261	260	361	298
499157	Svip	2429	2456	2400	2341	1952	2148	2294	2337
308901	Trim21	269	252	264	280	221	252	238	255
288354	Zfp654	344	335	306	349	304	266	288	352
362540	Hacd4	449.44	478.28	515.18	422.74	309.4	447.1	467.4	468.37
306515	Mboat4	57	49	43	34	39	35	47	45
25687	Cald1	2876	2877	3043	3166	2661	2527	3006	2657
29308	Arl4a	472.78	457.58	506.07	529.39	402.3	403.8	498.9	478.3
103690155	LOC103690155	127.27	165.55	148.35	60.24	112.7	74.62	141.7	125.82
293953	R3hcc11	126.86	115	130	133	115	104	114	125
100360623	Iqgap2	676	797	615	692	551	650	636	685

108348771	LOC108348771	47.71	59.72	45.86	47.35	52.04	47.91	40.38	41.7
500943	Arhgap42	573	528	579	704	493	494	595	581
81816	Ube2b	3237.6	2960.71	2808.3	2731.6	2814	2805	2879	2152.98
171493	Osgin1	69	58	55	77	71	61	47	56
498630	Wwc2	687	809	776	815	682	653	763	703
100125370	Nadk	868	954	1021	850	715	865	902	869
362226	Sec23b	462	482	452	429	378	433	467	378
291527	Stard6	93.14	71.38	103.6	83.15	68.87	76.81	94.18	78.9
310670	Adamts14	1168	1183	1359	1229	1126	1145	1082	1129
500616	Socs5	1509	1547	1625	1566	1333	1457	1453	1426
308581	Ccdc155	28.37	15.2	21.56	18.43	19.16	13.77	24.77	18.13
494340	Zfp868	474.5	410.52	428.86	390.15	382.9	380.6	357.9	424.96
294030	Sfr1	1013	982	1050	977	864	848	935	1003
60627	Exoc5	997	890	906	962	849	751	922	886
361730	Tkfc	141.33	167.2	165.76	125.44	131	144.2	143.4	125.8
308282	Shprh	490	502	483	517	447	419	507	435
300900	Plscr4	448	428	471	451	344	366	482	440
116684	Oplah	368.41	325.01	355.98	382.07	309.8	319.8	344.5	325.31
102552729	LOC102552729	19.07	9.3	10.76	11.17	12.32	9.24	8.05	16.05
362857	Tmem263	824	818	845	818	690	666	807	837.54
289501	Sowahb	78.11	68.96	68.96	72.27	74.33	43.52	72.97	70.93
363502	Mid2	1033.2	1045.19	1087.8	1035.2	970	839.9	1006	998.47
307604	Elac1	146.36	187.86	173.24	175	180.8	157.9	129.4	151.56
307151	Bmil	726	779	739	713	648	592	769	676
366352	Mob3b	478.52	549.68	530.55	720.26	430.7	466.7	547.9	624.21
499254	Tmc7	533.05	556.21	577	631.32	582.5	502	687.7	314.23
79124	Anxa4	2314	2529	2504	2202	1930	2048	2415	2279
313961	Smc6	866	812	948	902	849	725	860	770
308173	Kif13a	698	741	875	790	661	722	730	706
297554	Csgalnact2	332	339	392	277	270	314	338	295
686117	Meis1	67	86	85	100	93	83	61	70
287362	Nlrp3	69.46	64.94	87.02	65.26	69.19	49.96	58.89	82.36
315427	Sesn3	3045.1	3235.96	3390.8	3687.4	2736	2818	3403	3177.68
362359	Mpp6	788	905	841	925	743	712	830	857
307829	Zfhx3	1236.5	1258.09	1446.6	1536.3	1319	1249	1235	1173.34
108348055	LOC108348055	9.6	6.16	5.34	6.73	5.39	5.36	7.29	7.24
314265	Zfyve26	514	512.37	544.36	605	493	508.4	518.9	456.16
679894	LOC679894	358.83	340	347.79	373.4	351.1	271.5	332	335.41
64199	Gng11	157.61	160.45	190.09	83.06	143.7	73.37	156.1	163.99
499807	Dcaf17	588.49	610.32	601.34	586.83	561.2	532	515.2	560.17
84493	Fmo3	129.96	44.76	44.96	50.99	68	53	53.95	70.99
310461	Dhx36	1266	1257.98	1237	1209	1166	995	1172	1183
298786	Slc30a6	266	233	235	252	200	218	226	252
308845	Thap12	625	626	677	571	527	585	611	548
266706	Gjc1	58	66	94	67	52	75	66	66
315108	Apol3	89	57	83	78	68	68	79	64
100909590	LOC100909590	24.31	24.64	13.45	22.91	22.62	19.09	15.85	19.97
363854	Elavl1	276	244	293	251	242	239	236	250
287706	Klh111	457	468	429	555	548	218	479	490
24948	Fmr1	741	774	796	861	657	689	780	757
681371	Nufip2	1972.3	1877.44	2101.5	2060.8	1780	1603	2042	1857.04
654496	Fubp1	1341.8	1287.52	1331.6	1243.8	1209	1114	1213	1194.5
305556	Ehbp1	1519	1731	1662	1908	1427	1468	1743	1561
313641	Hspg2	6575	8706	11868	8567	6986	9391	8688	7399
363014	Yap1	1404	1435	1567	1470	1295	1292	1371	1383
307820	Nfat5	2221.7	2288.92	2324.5	2628.4	2047	1958	2314	2282.36

266808	Lrrcc1	175	195	172	172	154	163	164	168
25423	Ctsc	523.99	605.93	703.07	570.54	471.7	607.8	667.4	437.92
29548	Homer3	372.85	346.03	419.25	296.64	326.8	340.4	332.4	304.63
287269	Clk4	777	651	686	673.45	550	598	683	703
100362908	LOC100362908	5	1	2	3	3	2	3	2
102552996	LOC102552996	2	5	3	1	3	1	2	4
289167	Mettl11b	4	2	0	5	3	3	3	1
297596	Lag3	19	14	14	8	12	15	11	12
362136	Dapl1	2	2	2	5	1	1	5	3
365544	Umodl1	14	9	26	6	8	13	16	13
60422	Slc18a3	3	3	4	1	2	1	3	4
282708	Afm	2	7	4	9	2	4	11	3
499848	Ccdc73	25	18	26	19	19	19	22	20
689978	Nrsn2	85	94	92	70	67	81	73	89
29584	Gjb1	328	441	413	359	258	364	376	403
309953	Tmem161b	340	323	329	307	285	254	326	316
108348102	LOC108348102	269.29	306.03	359.67	364.67	330.8	290.8	309	250.99
102546572	LOC102546572	1381	1376.67	1430.6	1422.6	1237	1134	1399	1331.89
288414	Rfc3	190	211	210	171	162	175	186	188
81784	Ssr3	1677.5	1662.27	1666.7	1596.3	1520	1426	1588	1468.55
286984	Vom2r18	3.79	4.95	4.36	6.18	7.37	1.49	2.63	6.04
85241	Polal	100	85	108	104	85	99	89	88
314246	Zbtb1	767	777	754	758	721	702	704	652
306380	Psd3	2111.5	2178.03	2182.7	2558.7	2312	1727	2109	2064.45
680591	Lrch2	104	128	123	120	98	105	122	107
308306	Eif5b	1303	1258	1441	1301	1273	1212	1211	1127
301415	Ankrd44	326.41	373.31	420.99	366.16	304.2	331.9	366.5	349.75
362264	Srsf6	1984	1882	1908	1818	1717	1707	1803	1678
83718	Clic4	400	424	448	519	380	409	445	395
363445	Usp9x	8386.2	8578.18	8643.6	8894.6	8202	7003	8663	7514.49
29362	Tef	1837	1789	1590	1723	1677	1738	1421	1476
25050	Camk4	1123.3	1087.24	1039.1	1208.9	1154	772.7	1088	1040.76
65037	Mertk	344	326	334	347	266	376	273	314
297757	Sbson	752.37	891.11	902.58	947.58	511.7	831.5	882.7	952.26
170915	Ep300	1064	1068	1151	1292	1093	1061	1051	957
311580	Samhd1	145	139	160	110	140	126	136	102
289088	Swt1	323.27	266.27	305.55	318.9	249.2	268.8	285.2	301.44
499264	Apobr	63.89	43	78	47	61	49	49	52
362046	Dappl	42.72	21.62	59.23	36.06	33.17	33.25	39.5	39.33
57027	Adam17	785	852	1129	988	732	839	1034	811
306998	Cdk13	682	751	810	756	687	657	693	692
116668	Myt11	530	543	493	567	538	431	515	457
691922	Nt5dc3	892	906	843	803	835	707	774	818
24681	Prkcg	57.99	44.85	55.88	53.52	46.76	57.39	53.77	35.23
680201	Zfp322a	302	298.02	293.5	313	278	245	276	299
316742	Tgif1	85	84	104	94	76	81	83	94
299626	Gadd45b	191	187	199	246	194	183	179	193
103690074	LOC103690074	66	66	97	127	105	41	84	94
316211	Usp49	155	169.15	136.01	174.09	157	148	141.1	131.12
501515	Tut7	1117.3	1171.33	1214.9	1247.7	1137	1067	1101	1018.89
305882	Haus4	280	287	284	218	264	247	200	262
314713	Utp20	476	444	484	534	432	455	465	412
292737	Blvrb	465	421.61	427	387	348	407	382	411
362978	Creld2	173	159	197	207	144	165	217	144
619582	Tmem69	499.22	507	428	494.37	425	395	451.3	484.55
29540	Hsd17b7	555.12	652	569.98	577	493	542.7	573	534.59

498404	Ccdc117	205	145	160	149	141	134	148	177
292127	Dclrela	221	263	245	223.19	229	193	228	217
315864	Dopla	928	987	862	969	903	811	872	825
364827	Zscan30	231	222	224	229	206	181	201	237
81921	Sh3gl3	312	353	270	218	273	258	253	266
366203	Esf1	536	502	488	500	480	444	483	438
84472	Ilf3	991.63	1101.9	1075.5	1040.5	982.9	1013	924.2	913.79
293736	Myrf	302	335	448	393	347	375	331	293
245953	Tmem37	12	7	23	14	11	6	14	20
79011	Camkv	111	110	126	146	137	110	105	97
690728	Ints13	347	330	367	346	273	310	373	310
312491	Zfp638	1292	1328	1407	1537	1268	1105	1378	1317
29486	Smc3	881	805	968	970	833	763	900	805
100909461	LOC100909461	5.15	0	4.84	0	0	4.56	0	4.54
291002	Cdhr2	177	145	154	119	142	146	105	149
498411	Hus1	529	548	438	416	401	403	520	435
288744	RGD1306556	346	387	398	430	335	403	350	334
297387	Mobla	699.69	761.84	876.24	727.84	634.5	667.3	747.1	743.79
29419	Numb	424.09	363.23	435.12	446.08	382.5	410.3	389.8	337.42
294274	RT1-DMa	226	166	235	171	188	163	190	186
313388	Dock7	1347	1371	1448	1412	1225	1255	1299	1303
362763	Lin52	301.2	323.06	263.25	296.72	243	249.4	283.3	303.19
362520	Fktn	1360.5	1411.23	1258	1452.7	1309	1112	1324	1249.9
56766	Leprot	883	902	969.78	837	772.8	801.9	838.5	859.55
24944	Lamp2	6805	6149	6116	6229	5671	5328	5869	6184
25705	Zeb1	1663.2	1657.86	1937	1821	1574	1595	1639	1642.59
366783	Alkbh8	219.48	213.53	202.32	241.3	221.6	180.4	193.6	203.22
691517	Megf11	1327.5	1237.31	1392.6	1425.5	1181	1396	1240	1087.92
306618	Arhgef10	1874	2010	2168	1893	1573	1858	1789	2020
64618	Zic1	139	96	122	139	93	89	88	182
85432	Ddx52	226	162	236	188	160	208	185	187
282635	Mbnl1	1248	1138	1086	1412	1252	925	1172	1102
361659	Plekha1	1338	1408	1551.3	1285.2	1264	1257	1384	1183
24504	Inha	131	127	138	112	133	111	113	106
315871	Snx14	458	367	371	464	331	350	435	397
290823	Erlin2	571	534	563	489.29	456.1	488	532.1	490.08
24223	B2m	12027	10890	11246	9952	8982	9734	11458	10036
171154	Serpina10	45	33	43	46.84	40	37	40	36
362343	Parp12	204	215	216	202	180	203	178	202
103691134	Flt3lg	61	56	70	62	54	65	61	47
100911216	LOC100911216	674.17	766.3	864.98	637.09	576	653.7	795	658.07
303112	N4bp3	40.91	37.82	56.64	33.64	31.64	42.82	44.54	35.09
25750	Maob	1603.5	1579.45	1431.6	1263.6	1020	1419	1509	1411.04
432363	Slco4c1	11	20	18	19	12	20	20	10
682978	Nudt13	39	56	61	48	51	33	54	48
100362814	LOC100362814	943.9	1109.89	1112.7	1377.7	923.8	1066	1125	1028.43
303448	LOC303448	157.46	158.36	214.27	163.9	155.7	126.9	179.5	170.73
311872	Zbtb43	229	233	213	222	187	222	208	201
499770	Spout1	305.53	322.96	281.89	285.35	289.7	259.3	267.8	273.64
307615	Terb1	8	17	9	12	10	7	10	14.95
299830	Lrig3	150	163	174	161	133	154	173	131
311909	Rc3h2	1233	1095	1165	1157	992	1081	1120	1048
312365	Mindy4	264.72	341.55	353.15	331.89	324.1	268.9	310.5	274.34
100361114	Zfp869	349.84	316.32	323.08	345.72	293	301.7	330.9	291.95
25643	Gnai3	2024	1958	2070	1951	1773	1660	2003	1864
686098	Sorbs1	8644	8802	9270	10369	8226	8676	8626	8300

305171	Lin54	439	416	437	416	394	415	370	379
103689950	NEWGENE_1306455	1599.1	1189.02	2316	2186.7	1599	1898	999.5	2154.42
100912372	Tcaf2	0	0	2.2	2.13	2.13	0	0	1.82
362095	Gtf3c5	441	528	528	509	461	471	458	440
361346	LOC361346	343	272	338	358	281	269	309	337
303312	Wdr81	428	417	459	509	456	427	372	399
83629	Slc12a2	3464	3499	3034	3819	3066	3011	3430	3098
500623	Wdcp	260	310	254	249	227	237	257	258
360863	Suco	724	719	831	854	706	645	744	759
497865	Rbm2511	879.84	835.36	832.78	978.4	858.7	757.5	854	747.32
309407	Trpm3	950	1053	1274	1439	1238	833	1162	1070
252858	Frmd4b	416	425	484	445	422	402	417	374
114555	Casp4	256	237	283	252	197	212	281	248
294270	RT1-Db1	714.63	411.17	612.37	445	492.1	420.7	501.9	577.35
688517	Mut	1393	1446	1238	1361	1195	1185	1290	1292
499617	Rfxap	270.94	167.75	124.75	113.75	69.62	237.9	206.8	103.62
315648	Ppp2r1b	197	194	225	161	174	190	166	179
25742	S100b	30823	28385	24597	26364	21094	23410	27961	28066
299557	RGD1310212	38.91	37.66	39.25	39.32	26.91	39.73	35.11	39.82
361944	Elf2	400	380	405	393	375	365	369	331
362912	Der11	1016	1041	912	852	837	835	913	902
317579	Utp14a	305	292	287	283	264	262	279	260
100909505	LOC100909505	353.54	393.16	393.62	395.82	287.4	321.9	379	413.53
362501	Topors	407	378	426	357	367	328	350	386
296199	Snx5	1407	1417	1473	1291	1129	1239	1385	1347
306222	Lsm5	109	83	97	66	72	83	77	92
293645	Ppfial	923.94	923.87	940.06	1100.9	886.7	811.4	946.6	904.51
299153	Ppp1r36	424	472	497	339	323	421	413	424
287612	Mks1	150	150	150	127.91	133	140	114	140.53
312437	Krcc1	468	477	604	506	472	426	496	482
85420	Prkcq	457	515	465	343	335	469	389	432
360845	Zc3h11a	1209.9	1165.93	1272.7	1314.1	1153	1066	1200	1111.59
680424	Pex10	152.02	124	119	109	125	112.1	113.1	110
315911	Rnf128	170.37	195.66	163.33	167.97	131.3	172.7	166.7	166.06
100363332	Card11	80	64	86	69	55	74	69	75
259222	Npb	16	11	12	7	7	15	11	9
315615	Dscaml1	24	57	42	38	37	39	40	31
81677	Itpka	10	3	8	2	3	4	6	8
83568	Naalad11	9	11	11	15	12	11	10	9
305625	Slc49a3	69	50	69	88	60	52	75	65
83720	Fat1	1418	1729	1969	1890	1431	1619	1728	1619
306886	Ripk1	317.28	308.81	388.01	317.05	293.2	275.5	342	304.84
24706	Rarb	127	104	166	144	107	104	141	142
314320	Mlh3	286.57	330.58	259.99	259.08	254.6	264.4	257.8	260.76
498898	Dok6	94	89	85	112	100	40	94	113
307927	Taf5l	291.4	285.78	281.9	232.15	237.3	222.5	242.7	293.93
360204	Zfp24	1225.4	1236.48	1234.7	1193.1	999.3	1146	1218	1101.57
363227	Nabp1	111	118	110	99	91	99	106	104
291921	N4bp1	572.41	571.95	651.96	618.27	573.3	592.2	511.6	528.17
316731	Mettl4	48	44	46	58	41	48	36	54
297504	Edem1	1248	1173	1358	1250	1152	1093	1233	1115
303637	Abca8	582.44	638.19	622.27	663.01	564.3	474.1	631.3	619.12
288016	P3h2	137.88	120.39	122.95	107.4	73.66	132.7	123.9	116.03
314128	RGD1304624	49.24	74.09	80.06	39.89	36.4	66.17	64.56	55.1
362553	Tctex1d1	85.96	105.11	82.33	117.13	90.2	74	109.1	83.46
288353	Cggbp1	798	911	951	831	731	700	874	884

314259	Mpp5	1111.6	1101.07	1080.1	1102.5	1010	892	1039	1073.7
252941	Hdgfl3	724.01	793.53	707.15	823.07	711.7	602.6	713	756.87
360820	Pxn	1554	1346	1658	1412	1322	1503	1387	1242
108348069	LOC108348069	55.88	57.92	83.02	89.9	82.32	33.05	65.9	80.67
64570	Nat8	0	1.18	1.25	0	0	0	2.22	0
362153	Cwc22	284.1	250.99	300.29	267.29	237.6	246.6	251.2	272
313115	Ufl1	588	542	578	561	492	504	541	536
296511	Alx4	9.17	5.26	8.12	15.32	2.12	11.21	9.16	12.11
316101	Limd1	430	444	576	520	406	432	534	428
296789	Sema3e	294	271	326	303	270	296	279	246
102556119	Znf354b	84.69	71.48	67.88	75.08	63.06	62.42	80.81	67.04
315326	Tns2	1113	1076	1226	1294	978	1154	1089	1082
25614	Ptk2	722	784	895	814	680	798	766	694
299347	Brf1	559.12	550.52	575.37	525.41	484.1	475.8	549.9	510.27
689134	Sec61g	497.29	521.65	523.14	356.67	419.6	392.8	406.4	516.42
294854	Dnah5	23	17	23	30	20	17	23	25
688452	Spaca6	255.66	268.13	284.38	271.43	236.3	237	262	251.52
362107	Aif11	989.88	1056.39	991.52	878.4	656.4	986.9	971.9	964.33
315716	Cd276	469	500	675	506	456.2	518	518	473
100360772	Zfp17	228.42	185	217	212	158	190	214	208
25631	Smad3	155	189	270	189	156	194	173	211
361621	Olfml1	1388	1331	1314.8	1400	1192	1232	1280	1263
306254	Pbrml	1329	1400	1434	1472	1273	1198	1430	1250
315114	Clqtnf6	102	121	160	106	98	134	128	87
361813	Stk38	579	479	581	515	481	521	481	486
140590	Bmpr2	5189	5148	5286	6231	5171	4382	5183	5242
192181	Podxl	655	715	661	660	622	615	611	612
680127	Tirap	111	89	110	98	90	97	90	96
691394	Chst14	122	105	121	95	81	100	127	97
296290	Bpifb2	5	10	12	8	2	9	18	3
64354	Htr6	6	13	8	8	7	6	13	6
78960	Prx	13935	17719	16561	15310	10416	16450	13694	17521
288105	Zbtb20	100	113	145	179	153	71	97	170
691538	Rnpc3	385	399	450	377	389	348	348	388
316258	Cd2ap	912	875	894	1079	979	704	914	841
307213	Zfp407	369	340	337	391	330	336	322	326
679082	Arhgap19	1001	1080	967	948	752	919	997	986
303399	Tbx4	13	10	17.86	6	9.85	11	16	6
84685	Ppplr9a	1253	1272	1366	1462	1235	1123	1298	1239
306071	Lcp1	3212	3319	3361	3211	3106	3068	2638	3170
305244	Thap6	225.81	267.78	235.57	231.59	222.8	183.1	245.1	227.63
25105	Nppb	51	13	33	20	33	9	17	48
57341	Parva	3684	3963	4290	4087	3529	3732	3609	3785
29365	Mpdz	1452	1481	1476	1631	1334	1338	1423	1429
363139	Zmynd10	69	72	75	65	62	68	66	61
85426	Slc5a7	176.36	206.86	173.6	155.5	160.8	131.3	191.5	167.87
315696	Snx33	342	276	362	297	286	301	296	285
296866	Gpr165	33	28	27	41	28	31	29	30
304291	Zdhhc4	255	244	267	243	210	239	224	250
690752	Med121	231.03	231.88	253.63	259.65	269.7	166	240.1	217.3
498795	Ccdc3	152	94	193	136	136	121	121	148
304297	Sdk1	238	248	270	282.99	215	286	228	221.46
58834	Dlc1	1069	1374	1349.9	1451	1068	1256	1294	1179
29224	Cbr1	456.43	584.23	452.03	529.03	481	558.3	337.8	472.43
313519	Gpbp111	1216	1241	1140	1159	1091	1047	1101	1112
29203	Foxd3	368.11	391.25	524.13	365.69	313.4	379.7	421.7	393.99

315308	Csrnp2	504.55	460.55	472.18	465.63	422.4	452	429.9	436.62
296560	Uap111	259	274	345	262	227	269	254	293
308624	Heca	756.07	671.46	735.09	711.18	653.2	639.8	663.7	672.69
310131	Rictor	734.83	810.98	781.7	826.92	816.8	566	779.2	724.3
361845	Eif4ebp2	446.59	420.76	486.01	517.38	426.8	424.3	446	414.79
309945	Arrdc3	761	748	689	1017	791	716	853	582
690825	Gngt2	34	26	25	21	19	27	24	27
100302447	Cox16	475	438	436	453	389	403	418	439
498701	RGD1566359	2305	2335	2361	2223	2046	2025	2256	2114
29409	Mag	590	807	782	614	464	749	614	729
305343	Pds5a	1323	1222	1301	1319	1250	1060	1309	1108
100910200	LOC100910200	17.6	35.11	5.47	18.98	11.52	26.53	15.83	16.74
103691261	LOC103691261	24	10	14	11	19	9	17	9
171026	Akap5	16	19	6	18	15	11	14	14
300193	Senp1	359	368	387	373	287	362	366	346
494125	Rcn3	777	872	1035	834	724	854	806	836
65205	Mmp16	235.63	213.57	257.02	308.8	253.6	204.7	229.6	241.21
361819	RGD1566085	556.38	461.74	499.03	530.44	462.5	498.8	440.1	473.02
85254	Slc44a1	6511.6	6997.33	7606.3	6872.6	6138	6651	6622	6208.45
360869	Tipr1	818	752	725	601	626	648	687	690
307446	Ythdc2	695.28	665.18	710	667	672	589.7	614.5	629.73
362332	Flnc	247	280	491	401	242	545	259	253
305332	Limch1	3021	3780	3323	3463	2362	3240	3118	3718
117275	Chrd	66	65	74	67	48	54	76	71
309475	Tm9sf3	4594.1	4388.06	4544.3	4580.2	4063	3988	4355	4169.72
84411	Ick	623	661	684	599	517	614	635	584
360503	Luc71	1710.8	1703.7	1586	1579.8	1461	1461	1621	1481.01
100363314	LOC100363314	32.29	23.35	16.82	17	18	26.25	19.34	18.31
310091	Slc38a9	501.1	481.83	484.55	526.54	482	410	492.4	441.15
290907	Lig4	519	523	631	588	492	465	579	534
25230	Add3	3027	3037	3276	3183	2667	2829	3032	2938
680782	Spcs3	203	204	211	224	198	165	207	201
302528	RGD1559951	308.65	322.22	353.1	244.02	280.8	283	260.6	300.02
362404	Suclg2	663	606	570	559	490	502	605	599
362866	Chpt1	313.72	304.23	294.45	310.84	274.6	305.9	286.9	252.81
686610	Tb12	546	612	604	637	573	559	550	515
302495	Rap2c	1315	1271	1152	1203	1123	1063	1198	1141
691493	Zwilch	162.98	135.85	187.98	150	145.9	134.6	158.9	143.87
360824	Wscd2	23	22	25.99	24	20	22	22	23
288280	Ncam2	331	305	345	446	385	187	365	370
690654	Wars2	281.49	270.94	254.14	298.51	278.4	223.9	274.1	235.71
363162	Cmc1	94	95	84	72	74	62	97	83
360468	Emp2	1194	1383	1516	1120	878	1266	1295	1336
303601	Cyb561	346	385	323	303	271	331	287	354
102556082	LOC102556082	5	10	8	7	3	4	8.48	12
500502	Eqtn	60.94	160.35	122.87	166.93	152.5	109.5	63.03	143.14
499124	Zfp14	168.68	132.76	148.13	99.79	119.9	116.7	137.9	128.79
84359	Dffb	70	63	83	58	57	67	63	64
24232	C3	184	109	198	105	128	101	194	123
29633	Ndst1	1335.1	1498.45	1556	1619.4	1395	1340	1307	1462.65
29199	Hfe	43	41	39	44	42	32	51	28
292681	Nova2	34	40	48	45	55	30	32	36
365668	Mtrex	1008.9	1021.45	1041.4	1006.4	931.9	857.8	1008	938.97
297514	Setd5	1729	1619	1693	1870	1645	1527	1628	1532
498112	Yeats2	415	427	418	423	384	398	415	345
314587	Zfp472	59	70	68.49	47	58	52	52	62.01

681647	Lysmd4	304	308	316	266	275	250	269	300
108349536	LOC108349536	277	289.99	330.69	345.42	297	232	320	290
29596	Ifrd1	388	402	432	391	356	360	399	363
63847	Fxyd6	3330.4	3680.01	3854.2	3396.8	2118	3275	3952	3723
289635	Rel11	575	531	530	575	410	481	533	602
689954	Setd7	546	579	585	729	669	489	534	543
308140	Tfblm	560.26	591.69	516.09	528.21	446.4	502.1	523.6	540.48
24950	Srd5a1	719	767	723	603	558	748	632	639
313842	Hnrnp11	668	746	744	654	584	640	672	681
25270	Abcd3	1819	1898	1774	1884	1556	1607	1815	1781
306238	Ccdc66	315.35	274.82	338.8	360.91	323.3	281	285.7	292.06
24915	Pdlim4	928	1041	1228	779	740	1033	927	944
302363	Sh3bgr1	4211.2	3820.22	4239.8	4044.1	3518	3437	3930	4069.14
103691527	LOC103691527	608.78	722.88	748.49	692.81	520	636	660.9	724.8
302855	Rbmx	725.07	656.75	699.02	675.39	563.4	618.5	676.9	667.65
498095	Tctex1d2	179.25	157.23	160.28	165.57	147.7	126	158.9	174.59
364712	Sox4	750	766	975	759	762	751	682	784
308118	Rgs17	405	426	461	460	425	346	405	430
501779	Cd200r11	0.99	1	2.99	2.1	2.15	1.99	0	2.35
108348955	LOC108348955	14	19	15	12	12	11	11	21
140638	Apoa5	5	4	3	0	2	2	3	4
292755	Nccrp1	6	1	2	3	2	3	0	6
317189	Diaph2	59	61	76	80	68	51	68	66
53949	Chrm5	2	1	5	4	1	3	5	2
685153	Wfdc6a	2	5	5	0	1	4	4	2
689388	Ptx3	3	6	11	4	5	5	3	9
84399	Ihh	4	3	3	2	2	6	2	1
308918	Ppfibp2	463.05	512	555.16	483	419.1	492.4	438	496
689106	Vstm2a	526	517	534	560	512	413	577	457
286994	Lgr4	1242	1271	1309	1354	1162	1163	1263	1157
690516	Smurf1	1147	1430	1296	1135	1023	1265	1151	1152
25205	I16st	5251	5027	5537	5733	4976	4984	5224	4570
100911831	Zfp182	242	198	273	260	206	193	246	247
307724	Rpgrip11	333	315	353	333	329	271	328	295
313434	Akap17b	498	447	481	533	465	426	447	458
291534	Rnmt	1181	1111	1104	1111	1023	1026	1046	1037
306014	Reep4	152	164	169	116	133	144	133	141
24482	Igf1	1195	981	1272	1193	1064	927	1355	909
362871	Elk3	309.03	302.16	376	302.31	267.2	315.7	315.7	283.72
315532	Fli1	278.08	251.36	263.67	241.04	250.6	234.2	252.1	211.24
360600	Spag9	6868	6977	6657	7329	6537	5900	6677	6403
102550403	LOC102550403	15.94	16	16.55	17.18	12.93	15.78	13.35	18.15
303348	Atad5	86	87	122	114	90	89	104	92
309035	Dcun1d3	453.38	420.21	390.69	414.08	376.3	349.5	400.5	412.63
299759	Lrriq1	63	64	74	88	82	62	60	61
303747	Cd7	71	69	85	52	56	90	99	9
682988	Med18	146.73	154.85	179.67	132.66	154	121	165.4	122.62
363070	Fam219b	1153	1124	1060	975	939	928	997	1090
361458	Akap7	60	59	71	75	59	53	63	68
108352957	LOC108352957	84.3	127.29	96.78	179.31	151.2	68.1	109.3	118.55
294009	Cuedc2	257	301	408	251	210	292	306	308
103693480	LOC103693480	541.63	630.31	705.16	693.19	543.4	605.4	652.2	555.94
290501	Tmtc4	1324	1333.99	1311	1358	1217	1110	1292	1266
298890	Fam49a	171	147	167	190	160	112	170	177
304056	Zbtb21	424	383	410	447	396	359	403	368
116545	Pou6f1	556	579	564	556	481	558	548	481

114901	Sorbs2	508	527	595	397	389	507	495	468
84486	Sf3b1	3699	3742	3832	3766	3288	3048	3816	3641
64026	Casp7	114	99.15	142	105.15	104	103.9	116.3	98
500464	Epb4114b	510	605	588	461	501	524	493	467
310324	Dcun1d1	1056.1	978.92	1049.1	1037.2	985.2	830	1015	949.94
64466	Cited1	36	24	33	28	23	24	31	33
102549471	LOC102549471	86	93	67	81	73	73	78	76
305419	Pi4k2b	187	196	198	182	172	161	191	176
497039	Amy2a3	0	0	1.09	0	1	0	0	0
497961	Nlk	1249.4	1180.86	1100.7	1352.7	1160	1128	1147	1044.75
313706	Ubiad1	165	143	162	148	128	160	129	150
246235	Slc36a2	642	882	775.98	802.99	571	875	610	790.99
361109	Dcpl1a	109	91	119	130	105	105	100	102
687001	Hdac9	410.94	357	372	437	397	315	353	382
362988	Cpne8	788	821	905	763	695	756	798	758
363337	LOC363337	428.69	198.1	313.68	170.46	298	155.5	288.3	277.6
309457	Pcgf6	94	116	123	92	102	90	104	94
679504	Nemp1	44	52	35	39	40	28	48	40
500584	LOC500584	229.05	246.89	244.75	243.72	216.5	204.6	248.4	215.54
312927	Rblcc1	1939	1827	1960	2158	1899	1700	1886	1750
317183	Pcdh19	318	274	340	380	281	280	351	292
102555172	Tmppe	91	122	89	99	102	84	104	78
361953	Lekr1	34	38	37	49	31	32	46	36
100362110	LOC100362110	3886.9	3523.29	3833.8	3876.9	3258	3194	3684	3741.68
361381	Rad23a	1083.5	1136.46	1100.5	994.56	983.1	1045	930.7	1001.59
499821	Fam171b	2562	2536	2483	2647	2495	2200	2494	2198
25459	Hmgb1	1326.2	1376.34	1397.3	1315.5	1304	1292	1146	1227.95
313581	Utp11	728	751	748	717	630	633	709	730
309728	Arid5b	212	228	265	342	233	244	268	216
315394	Kbtbd3	1069.7	1112.74	1030.6	1231	1151	862	991.9	1074.28
297604	Ltbr	794	693	925	746	586	640	868	805
309053	Relch	1484	1392	1332	1451	1354	1253	1306	1282
288306	Usp16	441.29	399.64	451.87	408.25	353	369.4	423.3	415.82
364706	Foxc1	217	182.52	204.41	247.95	173.6	168	206	234.54
360703	Vps26c	518	540	548	471	438	476	498	495
290794	Tnks	759	755	693	909	786	625	756	694
299700	RGD1563365	133	127	122	107	100	105	117	127
691429	Shisa7	148	141	151	173.41	156	116	139	152.24
362706	Rbks	160	150	143	157	133	130.1	142	155
306977	Zkscan3	362.24	356.54	326.27	314.38	309.1	304.1	336.2	298.99
303504	Mllt6	815.03	791.6	804	919.6	815	793	756	694
100359832	Fam104b	221.6	231.8	218.71	210.32	193.4	164.8	232.1	220.04
301446	Carf	296	324	348	317	295	245	327	313
84428	Dctn4	3740	3768	3418	3640	3439	3194	3579	3164
361568	Rras	457	407	442	359	334	428	388	379
64824	Nab1	1350.1	1395.94	1328.9	1375	1140	1196	1339	1330.02
309452	Nfkb2	236	264	326	252	219	265	248	258
116651	E2f5	145	156	154	133	141	128	158	113
50645	Rab27a	411.99	396.04	490	426.27	421	354	426	382.68
497984	Zfp652	127	148	147	212	131.3	131	166	154
292770	Spint2	179	178	236	241	174	171	211	210
500337	Clecl1a	113	101	100	91	93	78	111	90
100910839	Luzp2	1427.1	1430.9	1353.2	1553.5	1392	1113	1486	1304.11
362317	Krit1	867	805	845	797	738	718	774	814
288111	Spic1	109	85	93	106	93	87	94	87
100361710	Setdb2	212.03	251.63	265.89	265.77	238.4	198.8	250.4	226.78

501665	Slc10a3	309	283	308	304	266	305	259	276
304887	Ralgs2	241	233	264	245	232	187	249	235
360548	Tnfsf12	614	578	607	585	498	557	530	605
313243	Exosc3	140	111.25	110	104.73	104	94	114	116.07
282584	Mtmr9	1177	1188	1124	1416	1317	980	1167	1042
499056	Znf761	96.13	87.6	86.51	88.43	81.19	72.24	89.2	86.87
292999	Chsy1	353	365	456	425	364	360	416	329
360773	Sun1	721	791	821	818	674	724	761	736
29357	Smad2	719	729	731	825	686	625	721	728
361476	Rsph3	129	123	112	117.32	109.3	103	115	115
308894	Rassf10	119.02	90.98	94	78	69	72	115	95
311716	Col20a1	89	93	143	94	98	98	98	91
313917	Abhd1	843.78	518.88	460.87	466.35	547	524.5	471.8	560.89
307594	Mib1	495	592	571	673	636	361	562	583
116554	Mapk8	1621.2	1636.67	1716.4	1757.8	1502	1401	1634	1649.37
315639	Usp28	458	452	466	425	439	435	416	365
192352	Ss18l1	121	111	98	139	115	105	108	103
366232	Rem1	69	57	94	64	52	71	78	60
103691988	LOC103691988	132.28	122	141	142	135	103	134.9	120.88
499281	Lrrc27	73	75	65	96	64	67	83	70
500824	Fgd6	190.35	189.86	215.74	251.97	241.2	145.7	198.8	193.58
100363266	Igip	2808.9	2730.37	2679	3037.8	2505	2455	2733	2653.13
363849	Hira	489.92	404.3	430.03	469.91	291.8	500.8	424.9	431.64
365871	Ciart	62	51	49	36	49	76	27	30
246776	Filip1	583.19	673.05	691.25	676.93	496.6	541.7	716	658.13
117521	Scaper	646	586	628	653	629	559	594	528
85261	Mterf1	412	333	349	330	293	310	353	353
500981	Zfp202	113	114	127	129	116	92	128	108
363578	Havcr2	4.09	6.01	4.03	13	10	6.05	4	4.89
307764	Usp38	449	436	436	488	419	387	446	411
362297	Rbm33	1273	1241	1358	1207	1169	1136	1183	1181
289324	Cnih4	957	975	1009	938	810	821	945	990
361512	Ehd2	692	715	887	682	593	785	676	682
363334	Stap2	74	47	56	71	52	62	58	56
687813	Traf1	35	32	31	26	24	21	29	40
100909998	LOC100909998	51	62	56	42	51	42	41	60
100909569	LOC100909569	38.9	56.11	63.64	48.01	50.6	35.76	43.09	60.56
305896	Irf9	693	668	651	584	573	616	572	626
102554586	Tmem265	49	37	55	33	40	33	48	39
499270	Prss53	101.32	84.65	89.02	53.04	73.01	81.02	63.98	83.64
361271	Upf2	578	558	591	586	583	500	544	500
682469	Kdm3b	862	911	911	960	850	786	902	813
366196	Cr1s1	361.68	330.63	310.46	312.59	286.9	286.9	313.1	322.78
366894	Trhde	57	42.57	56	60.18	48	53	49	48.41
313208	Fsd11	2720.1	2684.25	2444	2849	2694	2140	2485	2518.04
307296	Zfp608	318	429	452	444	341	358	422	390
306141	Spry2	407	371	426	428	308	387	402	404
83805	Src	1399	1466	1451	1441	1281	1304	1295	1415
100363276	Arhgap6	42	31	57	32	31	32	54	32
81647	Atf2	647	636	651	760	675	560	628	615
305960	Xkr6	38	31.98	27	40	29	21	39	37
310589	RGD1566337	12.93	9.73	19.59	13.4	18.13	12.57	7	13.49
313851	Thumpd2	171	148	150	155	135	157	141	141
102550396	LOC102550396	526.29	546.21	631.44	577.48	501	567.5	497.4	532.71
303346	Nsrp1	368	356	383	367	380	346	323	307
298441	Nasp	261	233	285	208	232	198	237	241

309306	Ric1	679	631	667	760	620	583	633	681.98
309887	Ascc3	622	610	678	715	632	486	627	670
373540	Il18rap	10	4	9	2	8	2	8	5
474146	Hcst	4	5	11	5	6	3	4	10
29516	Pde3b	372.15	333.56	316.17	350.97	334.3	283.5	323.4	321.85
293526	Ate1	1005	1001	1000	1110	940	886	992	969
361930	Bbs7	255	272	257	242	240	215	235	254
312560	Xpc	365	339	363	347	313	328	343	317
314374	Foxn3	779.58	888.32	805.2	856.36	714.1	815	762.3	772.13
288702	Unc119b	687	675	681	624	568	624	598	664
304074	Morc3	623	592	671	607	561	530	622	581
500032	Thsd7a	2443	2299	2495	2542	2559	1839	2428	2173
500258	RGD1560289	209.05	232.64	257.82	233.64	237.5	194.4	243.2	183.67
500551	S100pbp	655	624	572	619	546.9	559	586	581.21
297408	Alms1	540	562	557	625	534	430	567	571
286932	Vps54	677	614	656	689	607	571	632	616
302711	Tb11x	1699	1711	1560	1608	1443	1521	1671	1419
81529	Pdela	145	146	155	119	125	112	133	150
54278	Nr4a2	265.04	268.61	305.78	338.14	242.7	287.3	311.1	242.77
303888	Osbp111	384	447	458	421	350	406	434	384
102550657	LOC102550657	86.05	73.98	98.49	96.1	85.13	65.28	82.96	93.06
288091	Poglut1	823	848	809	730	754	670	763	768
311661	Zfp64	331.96	291.95	333.97	339	323.9	299	263	308
116639	Cux1	2007	2181	2267	2300	1900	2043	2061	2056
361697	Tbcd10c	22	14	17	10	15	21	13	9
81710	Msx1	16	25	9	13	14	22	7	15
497198	Impact	1896	2016	1835	1914	1682	1595	1866	1910
287750	Prp211	320.92	333.63	295.22	363.79	325.9	320.6	277	285.88
362170	Api5	1783	1762	1746	1691	1476	1611	1642	1699
64040	Aldh9a1	954.22	878.75	763.38	914.01	627.1	872.8	751.2	980.73
317546	Tab3	676	674	668	755	730	569	669	585
311731	Scrn3	995	1100	986	1030	897	900	1034	954
313838	Cdc42ep3	239	254	213	202	189	226	200	221
360726	Fytt1	1897	1871	1981	1888	1704	1609	1897	1822
312912	Prex2	1185	1179.41	1018.4	1289.4	1152	916.4	1169	1065.03
117514	Txnip	2655	2575	2977	2601	2370	2755	2743	2084
444984	Dnmt3a	596	588	637	667	542	570	625	554
315344	Smug1	448.9	505.84	457.45	456.18	445.9	395	422.4	457.17
360961	Mxd4	1992.6	1969.02	2233.7	1817.4	1757	1893	1879	1849.83
363069	Ppcdc	287.7	220.47	211.58	135.96	171.7	232.2	207.9	176.26
363198	Cenpq	56	62	62	35	39	46	56	57
316312	Zfp451	722.98	718	727	753.99	693	599	725	674
64515	Cdc20	55	54	70	49	55.98	51	56	47
245986	Gng8	99	84	96	88	80	86	85	87
24251	Cd53	350.38	272.04	275.63	247.43	257.6	279.1	184.9	333.31
361554	Lsm14a	913.23	925.75	950.64	914.05	808.6	858.3	888.2	856
314028	Cb111	418	430	423	527	422	397	423	414
100362565	LOC100362565	74.41	56.18	61.79	56.08	57.87	49.92	59.37	61.68
289233	Pex19	2345.9	2174.73	2242.3	2278.9	2033	1930	2243	2122.13
293165	Sox6	201	155	197	182	148	140	217	172
498952	Zfp1	163.79	161.94	176.25	136.68	165.5	137.1	164	121.79
313348	Klh19	2885.5	2723.89	2772	2937.7	2568	2405	2735	2718.41
56083	Tgm2	594	568	702	584	429	591	650	585
365494	Nanos1	256.49	251.09	220.17	208.76	212.4	223.7	219.1	207.58
191571	Fat3	339	340	326	506	447	254	376	315
306104	Pibf1	290	307	293	317	257	254	297	304

432392	Fut8	1911	1836	1838	1708	1341	1756	1746	1876
299194	Ptgr2	704.25	642.51	668.14	648.49	583.5	571.7	670.3	628.26
313620	Srrml	2174	2267	2377	2424	2113	2093	2224	2085
303313	Scarfl	65	85	75	42	59	72	55	60
364788	Arl5b	619.05	570	563.44	606.75	574.5	490.8	578.1	530.31
192649	Prokr2	358.43	317.78	347.68	431.13	334.6	303.6	341.6	360.81
108349769	LOC108349769	110	122	82	106	92	90	110	95
500972	Stt3a	1557	1568.95	1754.4	1613.8	1486	1482	1599	1417.52
500950	Zfp317	408	363	395	400	371	307	400	365
117550	Kif5b	9985	9733	9696	10767	9545	7865	9667	9951
500077	Cyren	110.03	143.78	127.96	105.38	112.1	119.1	117.9	99.92
303511	Ikzf3	14	13	15	9	17	11	7	12
310626	Tmem79	15	10	15	11	8	18	10	11
501664	Fam3a	697	652	699.59	765	672	593	665	663
360990	Usp34	2683.3	2807.89	2959.1	3222.2	3005	2215	2861	2677.12
312371	Avl9	1275	1304	1239	1338	1239	1098	1225	1190
58954	Klf6	1760	1610	1769	1741	1535	1534	1542	1730
294190	Olr1735	0	1.5	0	0.67	2	0	0	0
83574	Rxrg	427.97	436.13	403.99	377.27	331.5	400.1	425.9	358.89
310958	Zzz3	676	622	636	645	597	526	629	625
308476	Capn12	21.86	16.37	17.65	14.23	17.59	13.27	17.41	16.35
302680	Txlng	427.65	405.25	426.7	459.71	360.3	382.2	439.9	402.23
171071	Ppp1r15a	960	994	1078	940	943	877	897	944
288416	N4bp212	516	458	449	457	404	380	499	450
170908	Tesk2	197.85	212.47	165.29	142.93	133.7	195.1	155.4	178.24
108348092	NEWGENE_1582771	315.06	234.91	262.55	248.73	234.9	237.7	268.1	237.67
63912	Fam129a	975	1091	1553	1349	1209	1078	1281	1012
297804	Plagl1	155	168.03	160.99	144	169	102	137	171
313433	RGD1564541	481.35	398.19	433.36	435.67	431.5	386.9	400	393.69
308283	Fbxo30	615.99	567	566	583	554	497	550	548.99
311726	Pcmt2	1048	1028	1078	960	950	884	994	965
312562	Rbsn	872.85	1015.57	1056.1	1018.9	957.6	847.6	939.9	909.05
362793	Clba1	108	102	124	89	85	103	108	94
691777	Lrrc75a	275	277	333	295	207	272	286	323
192211	Prom2	19	22	23	13	22	16	12	21
679711	LOC679711	519.29	259.85	307.88	191.16	293	194	363.4	328.16
683788	Fscn1	889	1048	1296	977	874	1069	904	1035
689890	Srsf1	2565	2358	2601	2475	2281	2207	2385	2347
314245	Zbtb25	567.93	582.79	531.44	542.57	553.1	491.1	489.4	517.84
309144	Ppp6r3	1020	1084	1108	1000	926	949	1056	953
25403	Cast	3722.4	3655.88	3820.6	3921.4	3440	3339	3785	3379.37
83824	Cxxc4	426.73	450.78	390.77	491.06	401	357.6	467.9	395.99
291699	Stard4	1005	941.94	982.63	1005.4	874	845.9	1001	907.31
366957	Rac2	193	161	216	112	190	175	149	115
100910772	Cox7a1	35.51	25.66	34.62	16.35	28.47	28.85	23.61	22.5
24842	Tp53	482	551	675.98	556.99	452	558	553	527
287554	Tefm	83	99	75	78	76	64	77	92
361167	Bag4	284.38	287.71	247.63	262.35	262.3	213.6	264.2	258
59115	Ninj2	33	38	28	30	37	28	15	39
288532	Mcm7	240	209	267	226	235	225	224	185
311551	Pofut1	125	111	147	159	123	121	135	121
300860	Senp6	2047	1887	2131	2079	1908	1736	1976	1893
311327	Kn11	70	59	91	77	67	54	72	81
680581	Rbm41	82	72	77	66	77	56	60	81
24525	Kras	2143	1954	2085	2085	1840	1725	2071	1991
89842	Mbtps1	1800	1782	1804	1771	1516	1690	1663	1734

362187	Ccdc34	82	63	89	89	70	69	79	80
303206	Ulk2	2104	2205	2078	2142	1985	1799	2050	2035
298031	Susd1	98	89	78	71	80	77	73	80
502097	Dkk4	218	219	188	190	175	192	187	198
24208	Ar	135.04	121	100.19	155.82	156.6	79.8	124	112.12
289491	Mrpl1	155.77	123.04	0	276.44	114.4	0	398	0
310614	Gatad2b	407	418	404	468	420	371	398	377
360611	Copz2	236	203	284	210	173	246	214	228
171457	Cep170	2622.4	2650.06	2758.9	2985.4	2642	2272	2833	2419.02
83617	Hipk3	1899	1827	1904	1907	1736	1584	1799	1837
362862	Hsp90b1	6170	6338	7317	7411	5795	5985	6788	6569
500629	Rdh14	364	345	355	312	269	301	367	333
301416	Coq10b	399	395	441	362	343	346	384	401
303057	Slu7	855	883	823	854	783	781	846	742
100911140	LOC100911140	2	2	1	1.5	1.5	1	1	2.5
300649	Crtam	6	3	2	2	2	2	2	6
301057	Vill	3	6	1	3	0	3	4	5
315215	Mlcl	1	5	4	3	2	5	1	4
492821	Pmaip1	55	25	37	39	34	37	40	33
497761	Cd2	15	4	9	11	8	5	10	13
498664	Tex29	2	3	4	4	5	2	3	2
685680	LOC685680	6	4	2	1	5	4	2	1
102555083	LOC102555083	22.5	20.5	21.5	20	21.5	19	18	19.5
114093	St14	40	52	42	35	32	28	45	51
300884	Trim43a	8	4	6	8	5	11	3	5
312401	Ndnf	22	23	15	31	16	24	24	20
315652	Colca2	7	8	4	7	6	6	4	8
362948	Zfp647	22.5	20.5	21.5	20	21.5	19	18	19.5
304429	Psph	217	207	239	195	183	191	208	210
287765	Ddx5	9064.6	8900.56	8960.5	9018.8	7867	8069	9049	8195.61
308959	Usp31	1029	933	899	1222	1121	771	957	920
298032	Inip	403.27	410.64	409.14	341.32	324.6	366.2	372.4	380.92
100361585	RGD1310951	177.38	215.76	183.62	232.97	191.9	166.6	213.7	175.27
304423	Tywl	251	214	246	213	201	216	227	209
24797	Sst	1540	1380	1240	1320	1467	1008	1028	1556
313481	Tut4	212	195	248	231	206	182	228	202
500964	Prdm10	195.59	193.36	205.29	219.87	172	211.3	184	184.29
103690016	LOC103690016	151.1	249.97	327.39	275.37	259.4	211.9	304.6	151.06
293949	Hoga1	136.52	156.93	159.29	110.49	120	126.1	134.6	139.41
499337	Dock8	171	173.95	251	176	163.7	185	177	187
25511	Pemt	111	60	63	53	72	55	67	71
100909750	LOC100909750	353.95	355.03	434.08	353.75	330.5	371.8	342	337.8
300231	Dip2b	1022	1124	1251	1354	1077	1003	1186	1121
310760	Cttnbp2n1	1186	1279	1375	1382	1101	1146	1356	1219
289026	Sox13	423	382	407	420	350	402	346	409
116722	Psmd10	173	179	163	164	143	140	174	170
293488	Sgf29	295	306	264	245	279	282	220	244
362740	Mbip	210	213	222	178	180	180	180	220
24852	Tpm4	1554	1403	1620	1342	1227	1278	1586	1375
306872	Cage1	44	49	47	56	38	39	53	51
313876	Birc6	2267	2212	2438	2741	2381	1951	2364	2223
100359484	Zfp628	220	202	252	215	213	192	192	224
498858	Ccdc112	203	200	188	220	220	171	183	175
316129	Uhrf1	47	28	58	24	42	35	39	29
294925	Fndc3b	910	998	1105	1122	878	895	1062	984
307547	Zfp35	322.8	317.53	312.38	334.83	311.5	287.4	293.6	296.88

25609	Tub	113.74	144.82	116.98	151.38	114.6	114.6	152.1	105.53
499443	Lims1	1636	1607.63	1595	1619	1390	1367	1669	1539.1
305268	Uba6	1441.1	1385.84	1391	1685	1476	1148	1426	1403
292267	Armt1	456	440	428	394	404	384	408	391
499508	Zfyve16	448	477	543	552	419	408	512	527
296757	Napepld	219	243	226	199	197.1	215	217.3	190.08
652955	Rnf130	692	768	758	655	545	633	734	742
246152	Wdr44	843	850	821	884	763	750	818	808
362078	Ehmt1	398	440	425	430	380	356	439	389
315666	Npat	429	387	427	438	423	317	401	412
290959	Slc35d2	170	149	156	116	140	113	142	151
246212	Sipa111	908	950	1024	1099	864	907	1003	904
361886	Adamts6	44	26	59	55	40	44	41	45
83803	Prkab1	331	294	360	277	270	305	272	319
289344	Hhat	22.87	23.17	29.29	35.38	28.22	37.7	21.25	15.12
26956	Ak3	937.62	961.12	873.1	903.49	835.2	852.2	814.1	894.41
313087	Cpne3	3674.8	3650.66	3598	3749.5	3485	3100	3273	3699.17
303919	Lrrc58	657	656	607	790	768	401	608	727
100360601	LOC100360601	53.86	51.14	42.62	60.77	51.81	41.03	31.16	68.55
25467	Irs1	75.83	103.94	94.86	78.72	88.72	55	75	107.78
685258	Eny2	1097	1024	1053	932	913	898	1001	982
108353205	LOC108353205	276.42	167.92	228.55	103.08	137.5	103.9	233.6	242.06
689176	Tmem64	535	461	466	526	457	421	483	476
287747	Spata32	11	20	19	29	10	11	23	29
502603	Srsf11	1537	1611	1714	1565	1469	1435	1584	1451
307667	Hmgxb4	251	299	265	265	232	246	265	255
363172	Lars2	423	479	483	446	470	422	382	418
310764	Inka2	1087.1	1325.46	1334.8	1214	973.4	1141	1156	1314.24
361843	Aifm2	269.71	254.14	270.45	270.36	195.4	279	236.7	272.73
313130	Pm20d2	154	163	130	133	131	125	150	130
314180	Mdga2	388	348	367	440	393	319	358	356
310506	Ppm11	2252.7	2438.79	2345.8	2662.6	2272	2270	2276	2146.91
679812	Plekhg1	403.09	409.26	460.83	495.78	384.7	406.9	440	403.29
293627	Tspan4	331.63	225.54	246.84	189.65	269.2	244.8	228.5	175.81
309591	Trim39	299	305	346	304	280	243	317	319
25315	Ephx1	863.83	796.88	758.47	802	734	746.2	716.6	780.58
316369	Nck2	224.77	228.89	286.5	221.6	192.2	218.4	240.7	237.66
25369	Adora2a	165	136	143	151	143	152	134	121
366153	Nutml	81	115	113	101	95	90	101	93
294235	Ier3	223	204	220	226	207	233	183	184
362713	Selenoi	957	1026	951	1048	950	874	975	882
499330	Nmrk1	163	168.76	140	147	133	136	155	148
291597	Trim36	3037	3052	2766	3029	2951	2596	2507	2932
500086	Ttc26	223.81	235.77	251.82	266.88	241.4	191.4	243.8	227.82
288242	Chaf1b	37.12	50.83	46	53.79	54.9	45.77	34.35	38.54
360681	Narf	759.87	787.66	864.72	661.52	693.7	688	735.3	724.68
365192	Zfp324	167.17	150	189.94	163.29	138.4	169.9	157.6	153.96
290300	Tnfrsf19	18	29	34	25	18	26	29	25
29645	Ptprj	867	777	905	949.99	742	796	806	891
298875	Laptm4a	5935	5798	5851	5386	4608	5018	5650	5962
499442	Ccdc138	100.85	91.07	94.56	99.73	82.05	82.85	100.8	91.42
64563	Nphs1	35.13	21.1	23.13	19.45	15	20.26	26.22	29.88
308908	RGD1561034	58	57	58	79	76	37	73	47
100360606	Zranb1	884	778	877	777	754	730	829	753
308807	Prss23	294	246	368	193	244	299	281	194
690899	Vsir	588	679	777	636	506	579	723	670

312965	Ubxn2b	375	318	347	367	317	293	339	352
298443	Toe1	156.15	142.53	147.71	109.07	123.3	126	119.6	144.76
315634	Rbm7	320	322	341	279	262	274	315	316
304543	Mlec	3966.5	3895.29	4028.6	4421.2	3666	3654	3976	3787.58
65134	Stx5	644	607	646	574	556	559	601	569
302811	Elf4	76.41	74.32	87.23	88.74	90.44	73.08	69.96	68.63
315434	Ankrd49	292	265	315	231	227	268	256	269
102552783	Ac1576	68.52	82.84	59.47	67.39	69.66	54.67	54.55	78.41
84587	Plcl1	257.95	290.41	273.89	299.87	243.1	246.6	253.9	294.18
362011	Dram2	436	478	511	451	436	343	464	492
690512	Tt114	457.62	357.49	427.7	406.18	359.9	344.3	471.3	349.6
295496	Trmt10a	449	521	524	516	415	438	519	487
362924	St3gall	447	419	497	541	400	450	436	475
497958	Gemin4	304.99	322.63	282.53	316.03	265.6	315.9	299.5	253.12
361238	Pxdc1	216	216	198	169	138	205	210	186
314249	Plekhg3	1088	1046	1120	1141	987	1005	1047	1026
298075	Ncbp1	941.95	976.14	926.12	955.79	869.5	806.9	906.4	931.8
688705	Dgki	5551.8	5316.33	4914.2	5712.4	5648	4264	5003	4966.55
691246	Rnf207	123	90.94	91	94.01	83	115	92	79
306487	Mtus1	2206	2231	2192	2390	2150	2114	2088	1990
29534	Pex2	291	264	281	257	250	243	264	254
287615	Vezf1	847	798.99	901	855.24	698	805	879	765
100360457	Fmn2	604	634	670	705	593	604	596	624
100362554	Otulin	483	519	498	420	445	432	464	435
680515	Ckap2l	30	20	39	31	30	22	29	30
503169	RGD1564963	63.93	62.8	85.37	38.31	42.47	59.59	54.74	74.83
25454	Gfra1	4476.4	4402.21	5318.6	4374.9	4200	4263	4423	4293.28
310667	Cers2	1915.4	2092.09	2058.7	1933.4	1544	1929	1856	2070.72
361326	Dtwd2	87.03	72.43	73.27	78.05	69.11	78.92	69.36	70.09
84006	Prkci	1411	1293	1357	1368	1228	1237	1325	1232
685072	Rarg	683	573	721	598	523	596	571	692
117259	Tra2b	1706	1630	1712	1468	1443	1515	1567	1503
309595	Mdc1	223	249	259	324	233	206	267	270
378794	Trmt11	87.15	75.87	91.46	77.81	82.01	66.32	77.97	81.12
309361	Chuk	559	524	510	492	460	442	522	505
171337	Rap1b	3480	3164	3464	3115	2942	2704	3305	3283
297417	Gfpt1	1165	1277	1280.8	1259	1072	1136	1251	1150.37
58821	Zranb2	1949	1906	1953	1954	1852	1735	1812	1783
306672	Tent4a	513	514	497	497	480	435	495	460
102556047	LOC102556047	888.12	825.45	863.59	939.6	788.8	694.9	843.3	927.07
298598	Necap2	570	602	646	580	443	602	592	582
102551716	Nkain2	1472.8	1466.08	1489.4	1402.1	1298	1282	1435	1380.43
103694079	LOC103694079	419.71	441.87	384.24	405.93	413.2	311.9	388.8	414.63
308503	RGD1563307	169.69	192.35	181.96	162.28	182.2	146.6	182.6	142.23
360949	Cpeb2	2503	2362	2270	2715	2408	2059	2347	2302
289754	Xbp1	1625	1591	1721	1505	1448	1506	1526	1482
308923	Ahi1	272.43	351.7	292.89	383.43	300.7	276.1	299	327.79
300901	Plod2	485	462	588	533	411	499	548	456
497975	Znhit3	346.63	293.58	313	284.53	297.1	261.8	259.3	327.47
171433	Micu2	979	946	878	784	839	832	815	834
315509	Jam3	881	938	877	824	710	790	924	834
81666	Gnaq	1246.2	1233.01	1188.3	1391	1259	1018	1232	1173.35
310261	Eif5a2	5883	5798	5306	6000	5426	4819	5556	5476
309126	Tnpo1	1755	1830	1857	2046	1732	1588	1880	1731
310467	Tiparp	685	653	604	586	558	562	579	641
299510	Zbtb39	231	256	232	263	209	242	230	228

305310	Slain2	1088	1114	1270	1224	1013	1093	1094	1147
365407	Cpsf7	908	871	1023	939	842	868	874	879
300996	Rbm5	1592	1480	1564	1573	1350	1411	1553	1434
500985	Cbl	1610	1700	1738	1849	1624	1430	1719	1612
297998	Nudt2	684.21	658.92	648.88	578.58	635.9	557.9	554.3	631.78
311919	Golga1	614.89	649.49	588.71	604.14	600.3	505.8	627.2	541.68
296995	Mrps33	617	597	559	491	468	514	552	562
497976	Rad51c	91	87	88	71	70	72	97	73
64521	Tspan2	1469	1410	1405	1325	1296	1142	1391	1364
25275	Cnp	4134	5027	5513	4343	3829	4484	4682	4612
501285	Yju2	505.82	499.22	444.18	420.76	396.5	411.7	469.9	453.36
501059	Kif9	126.02	98.95	131.85	161.38	156.9	107.6	113.3	101.96
365371	Tbx6	8	6	10	3	4	7	6	8
292767	Catsperg	95.49	77.47	108.62	87.26	69.97	92.87	93.17	85.51
362303	Klhl7	994	957	936	1018	859	926	963	868
291164	Zkscan4	78.76	68.46	99.86	77.62	58.9	75.94	86.85	79.01
498840	Tmem173	68	47	68	47	49	45	53	66
499437	Mcm9	199	173	210	230	168	177	209	198
287076	Zfp263	228.83	177.7	187.76	164.02	172	173	183.1	174.22
304863	Odr4	824.05	816.89	869.67	864.57	749.8	768.8	838.6	768.73
499068	Zfp583	179.92	175.34	256.33	164.13	183.5	184.8	180.7	169.44
25695	Cebpd	389	299	381	489	284	312	443	404
85240	Plcb2	28	33	33	27	28	33.07	28	23
83537	Smpd2	103	80	129	81	72	99	93	100
361999	Anp32e	1436	1411	1461	1411	1302	1294	1428	1273
292155	Hs2st1	1440	1539	1705	1374	1431	1384	1397	1399
302378	Lpar4	24	29	35	34	25	25	41	22
304268	Rasl11a	34	20	42	26	24	34	30	25
310775	Lrif1	347	294	332	342	277	298	294	349
301737	Fer	548	491	464	531	484	463	497	440
498412	Sun3	5.12	6.33	7.92	11.42	6.91	6.17	8.46	6.98
294978	RGD1307100	3132	3353	3426	3723	3444	2617	3197	3371
305579	RGD1305110	2316	2363	2314.8	2489	2151	2049	2274	2310
310378	Nnt	406	436	469	549	346	518	435	424
291409	Zfp236	411	454	512	485	432	424	442	427
100359678	Armcx4	586	568.24	572.17	619.07	544	475	601	553
65157	Amotl2	593	468	423	462	349	441	476	537
689997	Fam91a1	1914	1803	1824	1717	1703	1517	1745	1760
312812	Eps8	379	346.99	357	388	340	381	316	326
293166	Insc	361	356	305	354	333	266	336	340
311348	Cdan1	381	366.01	403	413.76	371	369	348	361
298874	Pum2	2398	2403	2466	2437	2253	2169	2364	2206
302953	Slx4	455	528	553	537	457	510	485	469
686298	Ppmlm	142	127	172	132	127	129	137	138
294962	Gnb4	628	751	659	637	592	570	613	704
102552000	LOC102552000	374.1	365.7	386.85	427.36	368	287.7	388.3	396.18
304150	Usp25	1340	1244	1292	1354	1210	1177	1227	1233
85247	S100a6	3693	3474	4193	2585	2852	2934	3187	3951
85270	Tekt1	14	29	17	22	20	20	21	15
25290	Alox5	57.61	47.21	93.45	52.25	54.61	49.57	57.31	70.7
170910	Mtdh	1422.4	1443.83	1453.5	1468.7	1279	1404	1416	1266.36
291259	Zmynd11	1566	1502	1552	1683	1464	1429	1532	1417
29411	Ppt1	1636	1755	1469	1649	1472	1466	1532	1563
29647	Cask	457.36	458.91	458.89	511.95	457.6	373.2	494	424.4
54267	Maf	2404.8	2390.98	2322.3	2383.2	2190	2252	2083	2282.16
361688	Kmt5b	768.58	699.07	760.34	777.39	684.6	677.3	740.1	683.76

25126	Stat5b	541.84	484.7	566.69	601.37	534.6	523.1	486.5	490.22
365548	Pttglip	2056	2125	2215	2142	1801	1991	2004	2119
311987	Rsbnl1	287	275	308	309	328	244	278	243
192223	Opn4	81	70	61	76	78	70	52	67
362040	Ostc	1169	1143	1094	973	883	1026	1084	1067
501015	C2cd4b	100.13	95.92	105	127.46	97.29	87.05	112.8	100.16
303617	Bptf	1124	1207	1251	1417	1211	1139	1214	1071
207118	Bod111	1049	1019	1254	1265	1111	1029	1115	998
313131	Rngtt	455	431	428	444	400	410	438	382
103690018	LOC103690018	227.73	147.89	235.58	208.14	196.9	161.2	207.8	193.84
498385	Lcor1	277.82	287.62	296.99	319.18	280.4	246.4	300.5	268.37
501039	Slc25a36	1973	2072.57	1915.8	1920	1807	1678	1922	1901
25689	Htr5a	14	9	19	13	11	12	15	13
287774	Apoh	24	29	28	29	30	25	25	22
288308	Ltn1	1215	1243	1202	1250	1126	1019	1257	1151
301076	Zfp445	1083	1094	1084	1168	992	909	1157	1049
25097	Pld2	584.95	471.03	527.62	561.64	469.6	497.4	535.6	486.81
64831	Ireb2	1267	1334	1304	1408	1274	1105	1316	1232
312182	Rbm28	371	344	408	350	319	366	335	346
306814	Phf2	659	703	764	794	650	723	703	632
291091	Serpinb1a	5342.3	3734.09	3575.6	3909.7	4903	4029	3554	2873.58
302502	Cul4b	1363	1220	1155	1292	1172	1057	1238	1198
360574	Utp6	978.14	930.9	940.79	884.34	841.3	782.2	945.6	894.2
498823	Ankrd29	1083	1087	1028	1176	961	967	1104	1025
108350772	LOC108350772	20	19	13	17	18	15	18	13
287127	Cramp1	390.12	438.74	423.52	442.85	342.4	393.7	427.6	408.78
293514	Bcl7c	304	284	359	269	268	297	278	285
313593	Ago3	539.63	659.02	661.58	893.5	742.8	399.7	636.8	775.21
317371	Was	50	42	48	26	49	45	31	29
122799	Rps25	2761	2439	2566	1864	2113	2117	2189	2515
25359	Tmpo	862	883	950	864	773	810	904	815
63845	Tmeff1	693	604	458	641	541	408	530	744
297123	Fkbp9	1196	1566	1834	1429	1187	1478	1484	1441
64370	Metap2	1539.2	1449.17	1354.1	1394.9	1323	1185	1393	1422.69
361580	Gtf2h1	795	684	705	686	648	669	699	647
299008	Nubpl	103	119	104	90	80	102	100	104
310621	Iqgap3	106	87	144	93	127	108	92	72
361103	Zmiz1	1784.6	1967.96	2254.5	2453.9	1922	2035	1924	1970.71
299139	Slc38a6	85	84	85	79	65	93	65	86
297705	Aebp2	619.27	613	612.65	601.7	581	546	572	571.31
311403	Mtfr1	202.95	195.17	186.95	184.28	179.8	169.7	180.4	184.04
290270	Mphosph8	1365	1325	1365	1456	1312	1207	1324	1271
679822	LOC679822	2.05	2.09	5.04	5.12	3.86	1.03	4.29	4.09
81638	Agtrlb	11.99	15	13.29	11.09	9.11	15.36	9.08	14.12
100910371	LOC100910371	45.63	45.92	47.14	49.58	35.92	37.42	48.44	52.93
308631	Nhs11	68	81	100	112	92	86	84	73
101241893	Trim34	141	180	154	150	143	154	131	152
362263	Ptprt	1300.9	1005.32	1109.6	1133.9	1120	894.6	1049	1158.21
85424	Elf1	268	315	389	348	288	313	298	326
100365928	Fam166b	8.23	7.07	3.06	11.1	3.08	7.08	10.09	7.09
363146	Dalrd3	366.71	387.17	325.23	310.23	297.8	318.2	334.8	338.62
307271	Mex3c	860	801	798	809	707	765	762	799
312046	Dbf4	36.21	41.46	44.75	42.9	40.88	45.98	31.77	34.81
288589	Rasa4	51	37	63	30	38	58	43	29
287954	Dgcr8	460	464	489	411	413	428	444	408
362609	Pum1	986	1019	1120	1094	928	968	1045	975

304827	Kcnt2	179	176	195	216	207	166	171	167
315728	Thsd4	2067	2139	1905	2427	2032	1821	2147	1925
83830	Gtf2a1	738	740	801	772	756	689	702	685
361015	Atxn7	331.71	277.7	319.9	359.03	304.7	273.5	299.3	318.31
312135	Tmem168	520	529	532	510	465	433	533	510
293038	Zfp592	707	723.05	817	751.99	685	745	696	658
84590	Rab27b	795	962	885	1054	976	603	912	940
362779	Vrk1	219	216	199	189	197	185	211	171
171574	Dnm3	6746.1	7412.99	6229.6	8203.2	6503	6852	6621	6565.99
282838	Gm2a	1485	1684	1826	1492	1374	1604	1557	1487
497991	Med1	870	794	884	887	812	824	792	761
309156	Bbs1	472.02	504.47	425.17	503.09	398.3	468.1	470	432.03
363017	Taf1d	165.45	170.82	166.4	148.47	135.2	138.4	160.1	170.78
289315	Sde2	297.17	269.97	307.01	306.03	248.3	282	298.3	267.08
361057	Ints6	391	339.2	355	364	324	312	402.6	307
170945	Chrna2	6	2	4	2	2	4	2	5
287799	Cpsf41	5	3	4	2	5	1	2	5
29244	Gch1	24	19	25	16	31	12	19	16
298288	C8a	5	4	1	4	3	2	3	5
300776	Iqch	7	8	5	8	10	7	4	5
312668	Cacna2d4	3	5	3	3	5	4	3	1
502306	Igsf23	5	5	10	8	7	11	3	5
689055	Rad51ap1	77	65	57	53	50	58	74	52
691670	LOC691670	2	6	3	3	1	4	4	4
80722	Sost	6	3	2	3	5	0	5	3
84018	Synj2	178	186	221	213	184	156	229	172
298682	Atad3a	395.72	409.52	389.6	415.8	340	399.5	391.7	364.45
102552199	Tgm7	155.36	146.12	142.05	122.08	128.2	116	128	153
296285	Commd7	539.14	538.03	539.69	439.11	410.2	484.4	609	405.75
171121	Ppp6c	1742	1711	1663	1598	1564	1491	1631	1549
299636	Tle2	112	134	140	133	105	132	139	106
25358	Timp3	10005	9928	9745	12377	9099	9606	9484	10868
363188	Ubr2	1149	1312	1220	1383	1160	1156	1211	1176
308968	Rbbp6	956	972	1038	1004	925	899	947	916
360534	Trim11	253	186	228	231	213	200	181	240
25111	Chrm4	61.29	69.1	61.07	62	53	55	61.12	66.28
310677	Otud7b	1300.6	1259.25	1221.6	1204.3	1147	1280	1096	1107.08
302553	Suv39h1	209	192	215	204	207.8	194	178.8	181
680258	Zfp748	285.64	256.25	301.17	266.06	256.4	223.9	250.7	299.19
361391	Cbfb	3316	3417	3161	3447	3052	2971	3301	3067
65189	Stk3	436	378	358	374	347	380	360	349
685928	Zc3h10	244	227	277	208	194	226	216	252
362004	Gdap2	658	625	573	647	596	551	601	577
114612	Ddx39b	2401	2370	2481	2355	2019	2184	2488	2233
316235	Polh	159	162	149	135	133	152	143	134
688903	Nme5	72.45	59.69	56.28	81.06	71.05	49.61	71.95	57.73
246174	Fgd4	282	350	312	352	314	190	330	370
64550	Top1	576.41	637.38	582.26	654.38	632.2	514.3	592	538.08
58852	Nr1h3	180	214	206	203	170	175	178	223
171407	Gprasp1	2070.8	1991.95	1963.8	2247.8	1996	1790	2060	1840.66
29144	Canx	14297	14439.6	13977	14734	12555	12674	14388	13753.53
500350	LOC500350	95.14	86.11	79.53	95.41	92.05	72.04	68.07	98.76
294975	Exosc9	596.61	638.09	624.89	566.28	591.7	500.3	563.1	598.59
304470	Sbno1	1868	1866	1869	2152	1882	1738	1949	1636
691143	LOC691143	67	78	81	56	53	64	79	66
301038	Ubp1	1054.7	995.45	1115.1	1069	918.6	995.5	1046	973.96

303211	Mmgt2	314	306	312	323	222	294	315	335
81661	Gmfb	5452	5425	5261	5086	5004	4549	5014	5152
288620	Cct6a	2649	2616	2553	2522	2406	2252	2520	2429
287418	Arhgef15	130.49	151.59	219.76	150.3	139.5	130.5	171.8	164.12
25597	Rasa2	193	212	223	233	207	167	209	217
313429	Pars2	120	126	129	105	115	121	110	100
293828	Mphosph10	357	334	333	374	314	300	349	336
367252	Mgat4a	607	586	555	583	595	475	586	510
24530	Lcat	370	376	450	344	294	392	370	375
286973	Elavl2	4824	4474	4327	4794	4534	3805	4454	4323
170842	Tob1	517.33	571.59	536.61	495.32	477.2	515.4	424.1	554.21
360734	Dnajb11	731	815	741	810	689	726	753	710
300284	Alg13	217	195.27	214.77	154.42	170.1	187	188	181.17
360894	RGD1310587	461	316	552	468	384	373	454	459
691113	LOC691113	252.55	240	241.85	212.01	196.7	203.4	257.1	222.27
311530	Nanp	111	98	77	82	77	83	86	96
108348214	NEWGENE_1565644	402	373	318	365	339	337	367	312
25676	Rasa1	1102	1019	1092	1219	1042	917	1188	972
304860	Npl	234	217	205	208	193	194	218	198
366889	Zdhhc17	1694	1498	1443	1698	1459	1409	1557	1461
497811	Xdh	402	458	623	458	549	437	442	376
366300	Pcmt1	1731	1640	1766	1834	1625	1542	1669	1643
294787	Nipbl	868	884	1020	1139	927	834	960	914
302935	Ubn1	648	613	662	628	614	579	621	557
289453	Abcg311	1017.3	907.52	1073.3	924.12	852.9	922.3	898.9	971.38
293452	Palb2	66.16	64	53.48	51.02	49.08	51.2	58.48	59.35
306279	Arhgap22	531	566	585	489	521	462	466	569
289085	Edem3	1502.2	1514.24	1492.1	1617.4	1452	1342	1437	1463.24
84404	Gemin2	136	140	136	99	118	124	122	111
367021	Fam76b	304	254	294	312	262	234	295	291
295678	Sestd1	1240.2	1104.99	1255.2	1394.2	1200	1141	1175	1127.88
108353138	LOC108353138	20.51	19.28	24.16	29.62	19.47	26.25	23.4	17.86
308215	Chd1	454	505	566	534	525	451	498	440
305955	Zc3h13	827	899	890	936	874	780	865	783
170698	Slcola2	776.94	803.97	744.96	756.99	689	565	823	788.96
295596	Orc4	1272	1269	1192	1442	1225	1111	1228	1247
362955	Nol12	175	186	163	130	151	163	161	133
301010	Slc26a6	234	234	222	192	198	227	194	201
312251	Luc712	2204.9	2414.08	2354.4	2456.9	2240	2027	2299	2202.36
297486	Ppp4r2	1079	1025	1090	1061	976	969	1041	970
290556	Gn13	513	478	475	413	381	436	502	428
192204	Ehd4	1296	1331	1452	1203	1156	1297	1250	1208
114024	Acs13	1583	1597	1552	1634	1346	1413	1644	1516
313770	Mxra8	1442	1594	1664	1467	1185	1463	1559	1527
498355	Grxcr1	13	18	15	11	12	7	16	18
688018	Zfp106	4319.9	4460	4388	4775.7	4175	4230	4196	4084.33
361802	Hsd17b8	259	206	218	187	190	221	194	204
25301	Cebpg	1059	1099	920	988	909	904	1028	940
362686	Cebpz	743.82	770.34	809.13	764.21	731.6	683.3	719.7	736.58
309512	Tnks2	1196.2	1343.2	1315.5	1291.2	1154	1136	1233	1262.83
295062	Wwtr1	256	276	368	356	283	276	296	313
64823	Csnk1g3	1638.9	1482.42	1444.3	1482	1341	1336	1493	1454.27
292095	Ttc13	587	570	629	527	515	520	589	527
304014	Adgrg7	16.28	15.11	19	12.16	16.83	9.58	15.19	16.57
498265	LOC498265	26.68	18.82	35.68	40.23	32.16	23.33	29.3	28.12
363225	RGD1305645	179	211	209	201	162	187	163	232

102550789	LOC102550789	25.31	20.34	33.51	28.03	40.12	24.99	18.94	15.64
302937	Anks3	337	327	328	338	278	304	346	309
294606	Fam172a	864	771	831	856	722	713	831	824
315723	Senp8	105	97	109	90	80	92	92	109
29487	Gstt2	311.18	278.16	317.13	250.33	262.1	228.9	274.3	310.79
305539	Spred2	355	356	357	408	353	322	339	359
289594	Nipal1	65	72	65	56	44	77	47	72
501126	Vwa3b	10	12	11	10	12	10	7	11
59302	Bmp15	12	5	11	15	6	10	12	12
54286	Prkg1	364.22	373.24	406.24	426.42	438.8	299.5	353.8	368.44
24205	Apc	3484	3589	3511	4609	3992	3068	3614	3460
66012	Gucyla2	64	71	58	94	70	37	68	92
303469	Dlx4	8.86	10.35	6.85	12.4	5.08	4.93	8.58	17.19
312159	Fam3c	837	994	1039	1049	840	993	868	945
314545	Wdr75	583	590	638	572	521	528	613	555
316482	Crispld1	166.9	122.91	123.17	194.22	94.05	160.8	147.9	162.2
312132	Tmem106b	1062	1078	1099	1057	965	947	1013	1072
171564	Pbld1	110.63	149.45	103.17	118.05	79.91	113.2	112.3	142.43
102554045	LOC102554045	5.42	4	4	7	6	4	5	4
25479	Vps35	5340	5193	4904	5000	4695	4346	4897	5078
192179	Gpm6b	8748	9549	9079	9466	7736	8269	8915	9362
25281	Nup153	905	999	974	1051	915	898	941	902
102550851	LOC102550851	284.72	244.13	296.04	288.86	263.2	223.2	273.2	276.82
246282	Zfp91	2160	2055	2072	2206	1979	1953	2006	1965
301516	Stk36	143	126	152	155	144	116	140	136
305012	Kif26b	271	288	331	363	337	271	294	264
294283	Rgl2	461	391	438	309	364	383	380	361
363517	Plxn3	1215	1271	1430	1300	1014	1370	1355	1115
362251	Rbm39	1966.4	1982.54	2039.3	2413.5	1940	1602	2158	2118.31
432360	Sgce	690	700	843	649	542	707	710	723
170911	Pik3ca	1467.9	1504.65	1452	1659.6	1418	1266	1580	1397.69
306455	Cdkn2aip	315	311	296	260	273	233	297	297
362751	Tmx1	1637	1650	1634	1437	1438	1369	1499	1611
688405	Cdk2ap2	412	483	441	395	348	402	419	442
308692	Peg12	6	12	4	7	4.99	8	9	5
100911798	Seh1l	565	506	549	516	479	489	522	498
498873	MGC105567	160	162	165	151.09	148	131.9	159	155.08
290533	Slmap	1804.7	1647.85	1813.1	2047	1742	1659	1792	1612.85
296281	Plagl2	133	165	200	152	161	129	151	164
312574	Lrig1	435	547	669	590	441	523	590	532
294065	Kcnv2	82	96	85	84	73	84	90	76
361449	Ppil4	363	366	343	345	312	304	351	352
294924	Mecom	98	103	105	95	95	80	112.3	86
680229	Sgcb	1991	2114	2063	1917	1808	1837	1985	1896
287159	Pigq	1512.7	1540.59	1536.2	1388	1293	1376	1468	1427.49
117060	Ubr5	3271	3418	3330	3715	3505	2924	3250	3106
108350812	LOC108350812	47.55	33	23.53	35	27	40.47	28	34
252832	Zc3hav1	882.01	1036.09	1151	1028	891	1043	955	925.01
289277	Desi2	344.58	347.67	388.25	374.44	319	331.3	362.4	341.81
366959	Gcat	132.34	106.02	137.48	93.01	125.8	110.6	87.95	112.12
299331	Hsp90aa1	51158	52664.4	50224	52545	48716	43040	49270	51299.67
24812	Tap2	221.35	233.4	287.21	252.7	238	209.9	251.6	226.5
65144	Pdzk1	240	220	245	251	231	225	218	216
641520	Popdc3	376	370	320	441	370	357	329	347
102548228	Bivm	403	412	391	446	373	365	397	403
304266	Gbp1	4	1.98	5	7.28	1	7	3	6

362925	Zfat	286	306	367	273	283	302	271	291
103690550	LOC103690550	3	12	7	7	9	5	8	5
689721	Rnf212	19	6	18	15	9	13	15	17
499653	Gon4l	541.16	577.25	606.78	636	561.8	544.2	572.3	520.02
298168	Tenm1	347.63	315.51	369.38	403.69	386.8	277.2	342	331.27
79127	Dck	122	129	116	141	130	104	119	120
501550	Trappc2	1856	1863	1889	1708	1597	1567	1733	1915
304157	Nrip1	869	760	806	817	829	628	833	738
292483	Stx11	74	100	88	72	76	56	106	73
54287	Eif2ak2	877	791	836	778	749	772	764	771
305624	Pcgf3	359	380	354	403	369	316	349	359
308266	Zc3h12d	28.77	18.56	30.46	27.09	31.25	15.96	27.08	23.37
365216	Cadm4	2967	3538	4037	2635	2409	3443	3117	3301
689826	Ncmap	1919	2157	1741	1727	1335	1894	1791	2005
102553119	Mettl21a	89.11	82.73	81.74	66.17	71.39	76.22	80	70.15
361689	Unc93b1	328	380	400	317	331	299	329	368
25744	Nf2	830	877	910	917	792	837	788	874
102556337	LOC102556337	1556.8	1526.28	1213.2	1474.9	1385	1269	1269	1451.49
361243	Cdkal1	144	142	143	124	126	115	132	142
353229	Sgms1	500	578	609	584	520	470	596	529
304799	Ppp1r15b	740.05	791.4	782.47	707.69	659.5	707	704.4	743.1
29624	Alox5ap	85	81	119	79	98	68	97	76
299976	Rrm2b	268	249	257	289	265	206	289	230
691506	Ttc19	1158	1118	1060	1077	994	1009	1061	1046
314614	Plppr3	195.85	220.83	226.38	192.32	183.2	200.3	214.6	180.03
100362634	Kmt2d	2633.7	2514.62	2640.5	2851.5	2543	2570	2482	2315.57
296884	Glcci1	345	364	337	397	315	298	376	355
289758	Pold2	169	186	205	198	183	180	166	177
362184	Dnajc24	155	142	122	135	123	129	115	149
303702	Engase	231	253	246	276	235	251	254	197
305497	Cobl	1058	1119	1239	1178	1058	1071	1045	1105
500364	Sspn	461.72	444.24	483.22	513.62	377.8	491.4	475.3	427.93
170900	Rbm14	296.94	352.87	352.87	382.78	309.2	336.3	321.6	323.42
102547287	LOC102547287	212.99	233.26	231.91	187.66	214	176.9	216	199.68
291677	Dnajc18	436	413	365	523	413	425	411	369
682999	Aida	1627	1623	1676	1573	1451	1446	1610	1547
691387	LOC691387	2849	2776	2955	3709.8	3152	2617	3028	2652
310659	Rfx5	437	436	429	422	357	387	421	441
29662	Gdi2	6305	6269	6209	5867	5545	5436	6066	5916
65166	Sec11a	564	517	624	443	423	489	541	548
498549	Akap11	4664.6	4964.46	5062.4	5164.3	4956	3651	4965	4924.8
498386	Cc2d2a	351	358	353	371	317	343	348	327
310250	Zfhx4	249	240	232	259	236	193	251	233
499800	Ly75	146	145	158	136	126	124	157	138
687713	Gucd1	132	146	115	119	107	124	114	132
171387	Rnf39	39.11	35.01	45.1	41.13	33.09	33.08	41.13	42.09
314830	Krr1	177	184	211	189	161	171	178	199
81505	Emp3	1045	985	1234	937	914	961	975	1064
83534	Tpp1	1162.1	1283.95	1322.9	1282.1	1083	1234	1187	1201.75
300691	Nnmt	347	356	394	353	341	315	362	333
25549	Slc18a2	1198	1175	1129	1217	1147	1105	1052	1093
501512	RGD1559731	100	82	116	98	84	84	106	95
361086	Scel	146	143	146	137	122	116	170	125
114217	Yme111	1158.2	1262.05	1204.5	1300.1	1030	1013	1278	1268.5
291314	Sephs1	670	656	667	648	583	592	654	632
312828	Etnk1	4546	4769	4254	4759	4283	3926	4571	4299

100360619	LOC100360619	2.84	2.75	2.6	1.35	1.28	4.46	0.11	3.04
25046	Pigr	18.93	21.11	19.68	24.4	29.01	15.12	18.91	15.35
100362279	Trappc31	291	286	247	351	349	203	279	264
100910575	LOC100910575	59.08	34.72	45.5	40.33	43.55	44.87	47.95	31.03
25049	Atxn1	145.05	121.7	139.94	169.83	156.8	98.37	152.8	129.32
89816	Picalm	4816	4518	4532	4596	4069	4373	4534	4230
500030	Phf14	1174.7	1216.91	1179.1	1318.7	1220	948.5	1243	1145.71
25718	Igflr	683.78	683.11	716.48	698.81	624.9	660.6	617	690.43
684274	Mtif3	267.35	261.33	243.98	247.98	244.4	228.3	221.1	257.49
140668	Abcc3	160.74	162.55	179.31	155.13	142.4	135.6	170.3	164.75
94267	Nudt4	2236	2134	2552	2300	1936	2094	2341	2224
315036	Vps13b	1196	1249	1305	1428	1230	1149	1272	1175
287379	Shmt1	30	24	29	20	20	35	17	24
360609	Cbx1	530	560	533	556	506	493	536	496
29508	Nfya	338	296	298	305	268	266	327	292
287129	Tmem204	210	226	173	201	146	188	203	218
680537	Nsd2	2139	2158	1970	2290	2119	1847	2040	1970
84487	Slc17a6	2696	2551	2661	2669	2492	2448	2423	2496
108351875	LOC108351875	15	8	13	14.42	7	12	17	11
362498	Mdn1	635	655	648	775	654	558	672	645
103692804	LOC103692804	8.07	4.02	11.77	1.51	9.16	5.38	5.57	3.54
292690	Ppmln	13	16	17	13	12	18	13	12
108349754	LOC108349754	0	12.28	2.01	15.37	10.26	9.3	4.85	3.24
25372	Grk3	591.89	607.01	633.2	636.3	617.9	589.5	550.6	543.18
499313	Zbtb3	59	69	61	62	57	63	56	58
100911807	LOC100911807	16.09	36.28	12.77	21.57	23.78	17.46	24.63	14.97
499677	Lix11	599.74	594.82	606.48	598.4	542.6	557.7	587.6	549.15
691145	Immp11	180	179	187	178	156	173	146	200
303754	Rab40b	91	108	113	102	85	97	93	111
114248	Pde6h	10.02	2.01	8.01	2	9.6	7	2	1.95
83507	Parg	630.14	596.52	613.42	603.27	573.8	550.6	609.1	544.75
361018	Fam107a	594.93	621.36	730.81	509.75	498	642.7	580.6	569.61
100365679	Dennd5b	209	204	234	286	254	160	206	250
288264	Ifnar1	1794.9	1835.67	1846	1852	1698	1700	1757	1679.12
309081	Dock1	935	901.7	1053	1063	924	923	922	917
100911597	Myh9	1664.1	1837.46	2426.8	2808.2	2288	1560	2115	2184.15
313757	Ski	1234	1157	1432	1311	1129	1283	1183	1193
83840	Rps6kb1	677	678	612	704	681	594	612	604
688041	Suz12	761	791	780	786	761	682	752	713
299180	Med6	339	290	321	253	257	284	296	285
502736	Cpa4	6.41	2.71	9.05	3.22	4.31	5.56	4.64	5.44
317163	Eif1a	1322	1286	1272	1215	1162	1128	1315	1147
59087	Nxf1	1453	1412	1572	1565	1315	1363	1454	1466
500526	Mknk1	481	485	509	457	460	458	428	456
302422	Pdzd11	577	567	537	474	468	477	497	568
362505	Cc127	130	120	102	94	114	103	99	100
287585	Ppml1	231	244	215	217	197	201	222	226
65168	Scamp2	455	471	553	484	431	439	499	462
367235	Fam135a	663	631	620	629	582	508	687	595
317589	Stk26	128.69	120.93	110.74	127.68	114.2	121.7	112.5	106.85
311715	Tcf15	37	24	40	33	36	35	26	28
288771	Rbms2	1087	982	1165	998	864	957	1050	1077
298024	Akap2	1813	1873	2370.1	2241.1	1937	1919	2136	1747.75
500247	Aplf	240	237	227	220	232	182	249	199
171058	Rab3c	1020	1086	939	1341	1242	676	1124	1050
307189	Neb1	291	322	324	361	338	259	307	307

361282	Plxdc2	2555.8	2319.07	2919.1	3097.4	2304	2444	2682	2732.53
81527	Nrp2	1702.8	1921.01	2275.1	2530.9	1866	1911	2113	1975.57
301665	Srbd1	412	463	485	463	405	395	482	419
25562	Eloa	646	611	590	604	533	570	594	590
100361684	Simc1	178.07	189.08	193.09	203.04	165.1	178.1	176	193.08
362324	Mios	207	236	223	232	202	194	240	202
266774	Zfp597	115	119	107	123	116	87	118	112
25600	Utrn	5371.9	5772.21	6148.1	6699.9	5568	5290	5694	5837.63
287798	MGC95210	148.48	130.81	150.14	123.33	137.5	116.6	132.9	128.81
360959	Htra3	261	231	257	285	214	244	233	274
100912115	LOC100912115	733	768	792	825	666	775	736	733
303292	Ankfy1	1741	1920	1950	1930	1764	1641	1897	1736
293589	Paox	512	486	528	408	402	440	455	508
360571	Rab34	530	544	579	476	447	477	529	534
117106	Scarb2	1378	1480	1411	1624	1407	1322	1409	1362
317464	Msl3	677	647	569.82	557.35	552.3	562	605.4	568
25083	Adra2a	105	79	114	107	90	85	115	88
306231	Pde12	106	127	125	107	127	101	100	106
64565	Tmprss11d	24	16	5	15	12	18	9	17
25554	Snai2	12	10	14	9	7	14	6	15
282580	Stab2	6	3	1	5	4	7	2	1
294395	Rfx6	5	4	3	3	2	4	5	3
361658	Btbd16	20	28	41	16	29	28	23	18
685612	Col26a1	25	21	34	25	21	23	26	28
315530	Arhgap32	1268.2	1240.45	1256	1532.6	1173	1256	1358	1158.07
317432	Kdm5c	851	827	909	943	807	809	822	857
679110	Frat2	186.61	211.65	191	186	196.1	193	147	187.53
498764	Jcad	683	613.68	681.47	772.8	619	529.5	679	740.4
310877	Tifa	283	250	265	269	233	257	256	250
685082	Zfp318	697	672	653	789	705	606	669	644
309969	Ap3b1	1308	1348	1355	1431	1335	1250	1295	1200
317335	Ddx3x	5821.4	5791.85	5671.5	5815.7	5169	4971	5781	5643.43
64551	7-Sep	5619.2	5288.74	5562.7	5507.2	4869	4874	5546	5227.31
404658	Mrgprb4	627.29	514.32	533.31	453.32	449.9	438.5	518	580.38
298033	Snx30	421	388	417	429	383	359	391	412
299198	Fcf1	535	495	479	432	453	440	436	483
83789	Rps2	6630.7	6536.1	7477	5147.4	5913	5784	6168	6213.21
114765	Wbp4	1259	1160	1134	1251	1193	1059	1140	1093
113992	Ugt1a6	119.14	154.04	150.4	142.37	109.8	135.8	135.6	147.29
29750	Galnt7	168.94	170.23	192.82	229.41	180.7	161.4	187	181.85
64200	Hnrnpf	2111	1989	2099	1923	1818	1853	1996	1916
171111	Rab26	48	49	53	46	47	47	44	45
681943	Tmed8	1004	977	907	942	991	839	834	912
362519	Smc2	319.6	324.08	351.9	357.36	329.6	289.4	355.1	289.08
361047	Ska3	124.61	129.44	134.28	112.85	112.5	99.64	103.6	152.25
305583	Pus10	419	339.3	425.51	407.28	366.1	349.4	398.2	371.95
64016	Qtrt1	104	94	94	70	88	77	92	81
305270	Cenpc	311	312	312	302	286	282	305	282
681578	Rnf13	2821	2682	2687	2507	2282	2355	2677	2674
497988	Hoxb4	71	82	90	74	71	68	82	75
81645	Chrm2	146	141	156	176	131	111	153	183
292949	Perp	660.18	566.57	573.99	541.04	577.4	467.2	578.1	563.97
360893	Taf1a	126	112	102	98	103	101	104	101
307485	Taf7	164	123	134	138	124	133	132	133
29386	Mecp2	1511.5	1603.73	1573	1738.5	1649	1375	1539	1439
314721	Anks1b	753.93	751.96	795.46	771.13	778.6	703.9	685.9	700.99

29682	Kcnq3	268	266	220	427	365	160	282	296
81510	Mia	31	35	21	19	20	39	19	21
680419	Rsu1	1276	1339	1398	1213	1160	1206	1180	1335
686295	Wdr82	794	766	804	742	697	660	799	745
25336	Nfyb	410	378	434	369	389	325	407	365
29556	Myh6	491.88	498.87	387.53	466.03	429.8	441.6	538.6	312.6
100365363	LOC100365363	144.99	114.01	114.77	123	119	98	112	135
363735	Gabpa	691.69	705.78	771.62	742.98	698.9	633.6	679	708.49
314075	Pnpla8	2717	2302	2525	2873	2057	2306	2792	2575
302972	Amdhd2	281	288	270	223	271	228	232	261
498642	Rbpms	266.4	243.14	273.69	216.79	207	311.8	225	190.36
361846	Vps26a	1608	1539	1534	1469	1391	1398	1547	1409
313591	Thrap3	2018	1969	2158	2162	1920	1898	2033	1909
81660	Gatm	1263.7	1491	1396.1	1234	942.4	1328	1357	1403.16
367909	Tceal8	1523	1444	1575	1368	1198	1375	1445	1503
499445	Calhm4	18	17	20	21	17	18	17	19
502292	Zfp773-ps1	16	16	26	18	16	23	16	16
450231	Krt42	9	8	2	6.69	11	3	7	3
498269	Fam78b	421	449	619	427	408	476	468	438
685374	Ankrd13c	1747.7	1499.31	1680.3	1572.6	1465	1408	1616	1584
170895	Cetn3	460.59	413.09	454.89	399.87	368.1	385.7	450.5	410.48
312030	Scaf11	1093	1126	1219	1299	1086	998	1181	1161
365037	Sash1	907.84	1043.13	1135.7	1065.7	872.1	967.3	1076	963.98
114212	Chek2	68.44	57.13	71.83	54.59	71.51	60.74	51.06	52.14
108350576	LOC108350576	39.81	36.15	58.47	58.87	51.8	38.33	41.29	49.2
406867	Ly6g5b	17	14	19	11	19	11	13	14
362799	Rapgef5	889	755	669	830	587	759	725	866
100911190	LOC100911190	15.48	38.86	33.07	22.5	26.13	32.2	11.95	32.43
25313	Egf	39.96	55.58	35.96	39.37	35.41	33.16	34.3	56.81
306630	Abhd13	381	344	350.01	345	307	309	354	357.03
308871	Rnf121	240	198	204	198	186	194	199	206
317425	Phf8	722	757	738.4	862	706	736.8	749	686
498301	Wdr26	1914.8	1896.69	2068.4	1937.9	1785	1849	1951	1721.02
100910990	LOC100910990	777.82	702.2	711.88	667.09	615	710.9	770.9	575.16
113976	Acs14	1161	1118	1202	1227	1090	931	1221	1158
102556092	LOC102556092	1237.7	1200	1181	1357	1147	1119	1255	1129.65
103693197	LOC103693197	4	2	5.08	1	4.16	1.01	1.02	5.1
308912	Dchs1	155	164	230	231	141	198	186	204
366507	Lzic	503	550	509	564	467	489	501	530
364681	Rnf144b	173.37	175.21	201.17	204.8	166.1	151.8	229	158.34
54400	Bet11	365	351	276	264	272	299	286	317
100363539	Mrpl33	398.57	343.78	329.07	309.11	301.4	298.3	345.1	345.58
85274	Prdx4	444	552	538	396	430	438	479	457
100911312	LOC100911312	109	95	98	81	94	76	78	110
316034	Cnot10	638	629	614	617	506	622	605	602
681185	Cenph	12	7	21	6	13	11	14	5
306587	Tcta	1137	1021	1010	866	869	924	899	1079
691105	Fancg	86.66	81.74	80.98	82.88	78.06	85.31	73.8	73.43
368062	Ankib1	1172	1066	1123	1196	1018	984	1133	1125
102552463	Zfp446	385.83	359	294.06	347.71	310.6	309.1	313.4	363.04
308944	St5	702	694	785	842	606	732	757	731
690263	Tmem179b	189.66	187.65	192.82	152.43	172.6	165.8	184.5	152.67
316519	Slc11a1	56.57	61.31	104.78	72.83	78.03	56.56	68.47	73.18
102551980	LOC102551980	136.74	105.75	134.09	150.33	121.8	125.1	101.9	143.73
682967	Tmx3	2464	2289	2261	2445	2190	2051	2307	2295
499806	Erich2	70	43	54	48	47	59	50	45

287929	Mzt2b	471	456	472	444	438	459	438	388
298374	Prpf38a	338	345	344	279	326	266	289	340
293546	Gprc5b	974.13	1099.02	980.64	1105.9	923.1	965.8	988.3	1011.77
686781	Ppp1r13l	140	147	181	147	136	140	153	146
287191	Rars	1021	1001	945	954	917	870	982	897
362093	Wdr5	307	274	344	291	265	319	283	270
65196	B4galt6	795.87	738.77	814.41	767.32	794.1	709.6	692.9	717.46
689249	Rspryl	325	336	309	339	315	258	330	321
310643	Efna4	23	10	29	15	11	21	25	15
305911	Zmym5	1056.4	907.6	1059.7	1048.5	952.1	878.8	1018	959.09
364458	Kctd12	4285	4763	4427	5347	4199	4213	4942	4247
313438	Dock11	3287	3162	3332	3308	3253	2601	3196	3190
289400	Camsap2	4312	4192	4176	4609	4237	3630	4156	4145
298079	Aldh1b1	73	50	49	44	53	60	49	40
497933	Slc25a35	102	83	112	135	87	98	108	111
117186	Sh3bp5	372.67	434.41	499.37	349.88	317.5	425.5	430.2	375.82
309928	Mctpl	561	542	589	499	546	462	553	488
313391	Atg4c	396	373	359	415	344	371	369	359
361314	Arap3	597	601	713	652	570	587	665	575
501125	Fam178b	80	64.59	74	53	37	65	78	74
25165	Zfp386	341.01	344.86	337	373.78	340.6	289	341.7	334.93
314894	Mon2	1031	1086	1125	1283	1075	951	1142	1064
310753	Lrig2	914	877	845	917	855	792	894	782
361028	Mapklip1l	460.01	482.9	556.2	654.34	548.1	449.4	525.9	490.77
290537	Appl1	1459	1479	1453	1561	1448	1235	1433	1451
365462	Lcor	302	329.01	366	420	395	238	325	367.36
309548	Shoc2	1225	1193	1162	1292	1136	1006	1265	1150
29614	Psme2	900.79	936.66	1045.1	908.5	821	904.6	851.1	969.28
691149	Capza1	3689.3	3482.9	3468.5	3545.2	3363	3144	3420	3343.29
362547	Alg6	262.5	264.92	254.2	239.94	221.6	221.9	258	254.09
680668	Tpk1	181	199.01	205.77	175.01	158.3	154.7	184.2	214.46
317312	Mospd1	804	767	739.91	711	738	554.8	751	783
297342	Elmod3	135.94	127.09	146.64	100.88	123.9	122.8	115.3	115.62
288080	Stxbp5l	212	253	185	326	267	142	232	272
310791	Slc25a24	601.91	667	712	617	617	566.3	647	600
498034	Fn3k	91	70	57	92	65	77	62	86
679805	Mei4	13	4	10	4	11	6	6	6
81676	Hnmt	25	28	25	15	17	20	21	29
500693	Bbof1	104.57	109.53	108.8	105.32	99.91	93.36	116.9	90.42
307801	Gfod2	1275.5	1300.16	1268.5	1404.2	1337	1192	1233	1148.69
680663	LOC680663	8	3.93	12.04	6	8.04	4.02	5.99	9.99
360612	Scrn2	145	110	137	105	121	105	109	130
291095	Gmds	295	279	285	275	246	253	281	281
304431	Sfswap	709	705	714	716	632	734	696	599
315989	Manf	901	788	942	790	737	764	830	870
363167	Ulk4	122	131	120	125	115	139	114	98
501038	LOC501038	435.32	356.3	369.5	456.22	361.4	364.6	414.1	373.29
29577	Hes1	224	217	290	188	187	248	242	183
84582	Hdac7	474	444	488	401	425	424	433	409
362166	Phf21a	355.51	319.61	317.42	360.65	323	341.1	280.9	321.39
84429	Kcnk9	58	38	34	57	51	38	44	42
313155	RGD1359108	1107	1114	1115	1092	964	985	1103	1092
102555183	LOC102555183	566.18	551.94	581.92	563.25	502.5	474.5	566.8	574.37
363528	363528	84.86	90.55	79.37	82.36	91.58	71.31	79.16	73.48
79214	Galnt1	1227	1084	1141	1057	961	1074	1211	974
293860	Flna	2969	2886	3929	3067	2689	3505	3223	2611

64206	Tdo2	66	48	50	39	50	43	53	44
303926	Igsf11	1811	1829.02	1818	1936.4	1659	1754	1785	1723.54
291962	Elmo3	77	71	77	72	67	66	66	79
691657	Crip1	721	677	891	590	622	730	659	684
494219	Eogt	497.7	472.84	550.85	463.55	442.7	452.7	478	484.74
315987	Dcaf1	606.24	643.77	683.2	749.64	648.4	636.7	674.3	552.16
108349551	NEWGENE_1309147	8.27	12.28	27.64	15.55	9.27	13.25	15.53	21.62
117250	Dnah6	21	23	22	28	19	20	27	22
361916	Chmp4c	12	13	17	5	7	11	16	10
685750	Aldh8a1	18	17	25	34	18	22	28	20
364996	Chtf8	903.96	964.94	1015	894.97	871	848.9	911	907
25285	Igfbp5	967	788	1794	1108	1141	1222	1148	849
64030	Kit	962	1010	1019	1227	966	909	1125	949
310914	Bmpr1b	272.47	252.18	236.32	296.94	247	235.8	268.9	238.84
314910	Nab2	757.95	795.99	769	762.38	701.1	722.7	706	759
304300	Pap01b	31.03	17	15.93	28.96	23	17	23	24
287475	Med31	309	318	265	254	253	239	284	297
303342	Ssh2	700	774	858	902	749	702	818	759
117056	H3f3b	4206.7	4471.93	4727.1	3673.3	3530	3951	4254	4256.32
361180	Grtp1	222	168	188	176	196	158	170	182
56819	Extl3	1443.4	1521.95	1514.4	1740.1	1418	1330	1601	1474.54
60628	Cxcr4	339	365	358	321	353	342	298	302
498188	RGD1562310	208	186	180	181	194	174	180	159
367308	Alpg	118.53	88.79	121.15	98.78	90.22	114	105.2	90.67
361967	Ppid	1029.9	886.81	995.72	957.75	878.9	830.9	941.8	972.79
25506	P4hb	3522	3890	4461	3593	3331	3719	3949	3485
108353410	LOC108353410	17	14	18	14	16	15	11	17
81758	Rbl2	967.38	1035.72	952	1021.6	884.3	904.3	952.4	983.25
685882	Syndig11	941	403	672	615	723	482	651	608
29627	Gria2	556.42	647	531.87	639.43	540	509.2	583.2	591.59
295704	Ube216	385	433	455	366	383	360	390	402
78971	Birc3	38.17	47.44	50.59	31.83	30.8	44.13	31.78	50.66
24284	Csn1s1	51	71	89	57	79	54	40	78
25065	Slc12a1	34	37	39	32	40	36	35	22
300126	Gtse1	68	66	82	68	77	69	70	50
89784	Idi1	2595	2721.81	2717	2630.9	2108	2230	2539	3112.01
100125368	LOC100125368	93.78	85.26	77.34	66.08	64.33	66.19	98.76	72.75
311191	Ckap5	3756	3876	3920	4175	3827	3361	3945	3598
102553842	Hoxd11	152	88	64	75	114	78	75	88
29515	Atn1	1774.5	1682.62	1923.9	2237.9	1523	1759	2032	1823.24
301517	Cyp27a1	337	291	307	297	252	281	286	335
500308	Cecr2	156	175	180	184	196	158	137	160
299848	RGD1565117	18.52	17.23	17.26	27.39	31.75	16.12	12.8	14.64
259224	Npw	24	24	21	10	12	17	19	26
29237	Penk	88	123	141	122	72	110	143	119
293112	Crebzf	1151.3	1012.7	1142.2	1133.5	992.4	941.9	1108	1116.4
362165	Creb311	704	716	860	882	622	718	764	858
114116	Cdc42bpa	2202	2296	2180	2779	2412	1889	2333	2225
64019	Pag1	31	39	42	62	54	32	44	33
287595	Dhx40	833	856	791	907	790	701	831	851
313574	Nt5c1a	68.79	59.24	77.5	98.41	57.42	74.91	76.21	76.21
362607	Kpna6	582	529	543	611	594	500	544	484
307947	Set	1478.2	1597.89	1702.3	1578.7	1507	1449	1541	1459.42
300834	Wdr72	29	24	22	36	28	22	31	23
685611	Phldb2	94.47	77.93	126.63	120.99	65.65	93.15	110.9	123.8
100364027	Hkdc1	51	58	63	66	54	65	56	48

308501	Cd22	404.3	335.01	355.55	323.95	348.8	336.3	352.3	292.05
290946	Fastkd3	233	228	189	207	189	190	218	206
100360342	Msh6	275	292	282	310	266	280	293	247
291797	Thoc1	394.01	385	443	349	345.1	351	354	422
311578	Sogal	125	137	176	213	185	140	134	151
363448	Dynlt3	6918	6641	6221	6470	5705	5650	6439	6803
299802	Lgr5	1200	1273	1153	1424	1173	1124	1297	1138
313906	Zfp512	694	670	687	649	616	662	640	612
289997	Dlgap5	110	99	128	92	75	120	118	89
29232	Clcn2	669.04	650.11	617.65	596.61	460.1	678.4	602.1	633.46
362112	Tor2a	285	257.87	280.82	256.53	256.2	257.1	243.2	255.69
64013	Pdcl	452.23	446.4	396.89	374.54	371.3	382.6	397.5	413.54
497918	Smcr8	274	279	267	325	280	241	279	273
59075	Grk5	958	974	1088	1004	974	862	1019	916
315686	Peak1	1500	1553.36	1738.1	1798.5	1547	1553	1597	1478.54
100911887	LOC100911887	18.79	0	0	0	0	17.61	0	0
56003	3-Sep	441	477	362	424	373	419	385	420
102552920	LOC102552920	380.68	381.9	351.57	341.88	326.8	331.7	345.4	360.79
373544	Ermp1	2124.6	2133.87	1963.6	2130	2055	1893	1980	1899.71
501033	LOC501033	471	434	458.08	583	509	417	470	428
311604	Zhx3	625.22	562.73	581.29	679.09	601.2	613.9	553	526.71
83624	Ppig	1358	1219	1327	1423	1374	1180	1241	1198
311567	Itch	1709	1654	1671	1745	1563	1483	1655	1653
25348	Rps29	3654.8	3044.27	3404.2	2488.6	2939	2707	2647	3509.2
140866	Dgka	472	471	496	428	435	444	465	406
309774	Gopc	1168	1149	1138	1078	1037	1063	1089	1060
316001	Inka1	111	118	116	86	79	92	116	117
683722	Fgfrlop	528	524	525	532	508	438	490	541
100362684	LOC100362684	94.97	31.23	32.1	35.69	62.34	24.22	63.2	32.09
252885	Hoxc6	328.16	302.65	302.02	280.45	242.1	267.1	290.4	337.78
292964	Rpl36a	1115.4	1023.51	1184.8	855.22	944.6	906.7	884	1182.35
102552675	LOC102552675	5	10	7	10	5	5	12	8
287070	Nlrc3	9	7	9	7	9	8	7	6
302328	Pof1b	2	2	6	6	0	6	7	2
308436	Cxcl17	2	5	3	6	2	4	4	5
499926	Bpifb1	3	6	2	5	3	4	6	2
56227	Espn	3	4	4	5	1	5	4	5
64576	Ptprv	18	26	64	20	32	45	25	18
65135	Dpys	9	8	7	8	6	8	8	8
290354	Pdlim2	138	105	112	93	123	89	103	105
292124	Tectb	11.75	14.74	15.07	11.79	16.05	9.05	12.47	12.45
252924	Nr2c1	420	505	419	483	431	426	460	396
300862	Irak1bp1	154	147	143	133	122	123	146	150
291964	Fhod1	183.58	200.52	228.96	181.77	169.6	194	188.6	193.05
365652	Col4a3bp	2947	2684	2721	2969	2665	2638	2702	2610
362627	Rcan3	160	180	174	192	183	148	161	170
286928	Abi2	1435	1492	1402	1562	1429	1217	1491	1387
317241	Rlim	1031.8	1132.69	1064.3	709.88	891.8	867.7	879.8	1054.04
297498	Crbn	5751.7	5163.18	5271.3	5663.4	4959	4684	5324	5521.62
361920	Ythdf3	1298	1289	1280	1365.8	1209	1120	1320	1258
308362	Zfp110	934	868	849	819	775	804	834	841
685462	Emid1	472	613	580	521	352	491	582	625
290365	Nudt15	129	98	109	98	106	102	102	97
29511	Padi2	950.88	1128.97	1017.9	907	716.9	1115	897.9	1026
311437	Rassf2	387.28	321.09	371.78	425.04	337.5	294.4	415.7	364.13
24560	Cd200	2325	2342.2	2435.6	2163	2077	2189	2171	2252.59

362892	Mbd6	1105	1007.06	1112	970	983	1030	976	944
297392	Tex261	1687	1479	1524	1539	1464	1470	1405	1503
362559	Zygl1b	1550	1606	1527	1852	1718	1220	1627	1564
302642	Sat1	2408	2795.99	2612	2619	1883	2066	3251	2587
291705	Iws1	299	270	297	310	278	257	284	284
79121	Arf6	822	864	876	822	812	788	801	773
291071	Rpp40	392	365	348	297	324	257	332	402
246325	Kcnh8	72	68	70	64	65	49	75	68
266760	Nalcn	1637	1634	1551	1628	1573	1263	1711	1503
308482	Zfp84	409.9	401.21	400.72	390.59	382.4	369.4	362.9	388.46
315664	Kdelc2	818	782	839	804	754	696	804	788
65165	Tmed2	2311	2294	2330	2181	2007	2065	2303	2176
24954	Insr	246	281	298	321	315	216	279	265
364205	Fbxo48	67.25	84.14	93.3	81.41	87.75	81.08	72.81	64.26
116502	Bak1	321	302	298	290	255	311	269	301
554172	Pxdn	1629	1558	1539	1620	1577	1564	1420	1392
361039	Lmln2	9.6	10.56	16.17	5.21	5.31	11.46	10.56	11.64
59077	Grk4	72.18	77.43	83.94	64.83	71.78	72.76	73.01	62.37
24680	Prkca	6028.6	6526.07	6312.8	7032.8	6306	5800	6056	6136.87
64157	Ddah1	2519	3017	2871	2512	1940	2734	2724	2846
360860	Cop1	1104	1022	1054	978	907	953	985	1056
108348107	LOC108348107	0	3	11.89	0	5	3.97	5	0
303029	Ranbp17	207	184	179	207	159	193	191	186
362731	Snx13	1782	1720	1661	1879	1599	1469	1791	1748
360969	Castor1	190	143	144	203	165	157	150	166
294799	Brix1	293	304	362	304	269	281	298	337
286900	Selenos	876	885	787	707	718	740	745	851
498028	Cep295nl	19	15	22	25	16	22	14	24
499486	Gpr150	28.06	28.06	42	34.08	26.04	34	32.09	31.91
117279	Cflar	828.27	784.81	912.18	925.09	840.9	750.8	842.1	803.58
503027	Map4k5	1360	1295	1294	1287	1233	1268	1241	1171
304302	Tnrc18	1184.6	1249.1	1359.1	1546.3	1227	1215	1275	1292.96
499419	RGD1564149	10.63	4.16	7.2	11.41	10.09	5.65	9.38	6.22
291469	Srfbp1	290	254	289	302	265	262	253	285
406195	Tcf19	138	108	158	115	117	115	148	107
100359558	Fam177a1	917	826	786	861	904	696	764	817
83619	Nfe212	1004	1014	1020	985	896	897	982	1000
103690937	LOC103690937	1297.2	1188.47	1141.4	1117.1	1143	1037	1145	1127.06
85491	Vamp7	2026.2	1997.4	1898	1966.3	1831	1694	1916	1960.85
679272	9-Mar	337	329	366	315	311	322	322	309
309858	Sec63	2071	2033	2035	2238	1930	1928	2080	1923
58942	Cacnb4	1715	1782	1649	1870	1772	1355	1769	1688
363466	Reps2	1558	1520	1383	1695	1559	1181	1467	1570
362456	Arhgdib	460	384	547	396	481	396	419	381
300258	Myg1	454	435	407	410	378	428	384	411
302640	Acot9	1272	1226	1193	1151	1047	958	1182	1357
684439	Cenpo	35	29	42	24	26	41	33	22
361601	Abhd17c	308	344	311	305	296	297	314	283
100910202	Crnk11	94.84	154.29	130.9	182.77	125	142.1	151.4	109.73
362224	Kat14	179	170	153	165	160	164	163	139
298533	Ago4	98.96	88.07	109	83.97	77.04	78.32	106.3	95.01
367171	Map4	8080	8328	8274	9513	7254	8308	8347	8186
499893	Ap5s1	88	93	84	77	71	88	87	75
314859	Mdm1	172	151	172	157	173	142	149	148
117051	Arfrp1	693	676	687	634	647	597	627	654
29555	Vipr2	85	91	97	102	97	87	91	77

294392	Kpna5	562	502	522	632	542	466	552	522
309312	Gldc	93.15	111	97	135.63	56	124	89	141
65027	Chd8	1218	1325	1383	1541	1335	1269	1335	1193
311020	Rbm43	137.78	142.65	130.71	143.35	121.6	129.7	152	117.15
360807	Rsrc2	847	786	786	719	701	682	776	787
293844	Haus7	226	212	220	241	206	214	209	215
288092	Tmem39a	211	172	208	161	160	176	187	183
685925	Rs11	87.32	106.86	85.56	92.85	92.95	76.41	85.87	94.57
302678	Syap1	726	684	739	696	605	618	693	755
679578	Ldlrad4	339.26	299.33	353.24	400.62	310.5	302.3	356.4	338.19
362802	Atp6v1c2	116.82	105.12	108.61	89.34	75.39	97.96	111.1	109.76
108348061	LOC108348061	1200	1123.45	837.66	925.81	871.4	894.7	1069	1002.33
315880	Tbc1d2b	611	592	615	623	569	578	570	575
290235	Nop9	280	305	292	255	267	302	245	249
314352	Sel11	2684.5	2699.9	2788.6	3033	2706	2682	2706	2429.44
303763	Zfp207	2216	2075	2161	2054	1992	1955	2037	2004
301363	Map4k4	3540	3803	4037	4421	3594	3545	3872	3828
103693553	LOC103693553	13.07	14.75	23.97	8.66	3.75	20	19.14	13.88
311550	Ccm21	191	250	196	201	176	209	191	211
298376	Gpx7	276	271	327	227	237	258	279	260
316090	Fam198a	40.96	55.08	43.92	57.62	43	40.68	50.95	50.93
25625	Tnfrsf1a	863	926	1151	1006	866	950	964	926
100912615	LOC100912615	18.7	26.09	26.26	62.01	43.91	32.49	28.74	19.83
359726	Rnase1	559.98	579	533.1	565.08	546.3	491.9	533.8	529.19
680466	Plpp5	221	172	273	190	180	181	188	255
361073	Cog3	748.03	736.27	731.87	702.28	636.9	596.6	812.6	695.14
310811	Palmd	641	705	733	655	619	636	717	596
362699	Yipf4	1059.3	1025.83	1077.8	948.68	939.8	925.6	966.8	1029.84
311508	Gzfl	341	326	319	299	294	298	298	317
498327	Abcg3	92.14	96.53	111.21	114.25	72.62	109.2	103.1	104.05
171411	Tmem176b	14392	13254	13734	10858	11682	12428	11638	13324
292016	Cmtr2	159	177	127	131	141	131	148	138
499974	Nup12	148	120	128	132	142	108	137	109
363676	Zpbp2	23	11	18	14	19	14	18	11
25508	Pam	3735	4129	4426	3947	3493	4008	3978	3774
252894	Pcdhga4	76.65	87.34	73.22	89.02	91.43	66.96	88.84	59.24
50692	Plaur	218	232	181	178	194	177	193	196
259269	Erc2	402.28	397	421	469	445	323	423	396
361389	Anapc10	414	407	382.97	351	344	364	368.9	383.9
103694875	LOC103694875	73.97	113.95	84.53	97.53	80.46	119.6	87.69	59.89
311368	Ctdspl2	67	78	62	74	58	61	76	69
444982	Em15	276.7	262.09	264.62	252.06	277	182.4	213.3	318.94
313905	Supt71	111	113	132	107	109	106	116	104
688777	Grpel2	342	313	346	289	335	261	312	304
29177	Hpca	266.93	204.2	176	226	200.6	196.1	243.3	180.41
311059	7-Mar	1250	1257	1202	1315	1173	1076	1252	1220
312381	Ppmlk	688.41	844.44	711.71	543.84	673.3	590.4	723.3	633.03
300160	Lrrk2	1264	1273	1117	1433	1175	1167	1306	1132
361700	Kdm2a	1787	1701	1873	2015	1732	1734	1770	1695
102553270	LOC102553270	44	40	27	55	36	32	57	31
293544	Pdilt	24	11	19	29	17	20	22	19
303375	Rad51d	293	265	256	265	251	254	262	247
680726	Rbms3	1682	1782	1743	1949	1796	1595	1685	1649
102547920	LOC102547920	58.95	63.42	46.23	57.65	47.49	40.82	55.3	69.02
365703	Zfr	4107	4083	4016	4291	3968	3583	4115	3839
498953	Tmem170a	81	90	67	78	78	67	86	66

288651	Gtf2h3	278	272	261	237	225	271	264	225
498415	Zpbp	57	39	41	46	37	37	44	54
305913	Zmy2	1489.3	1501.76	1481.5	1557.1	1484	1279	1458	1446.99
368042	Btaf1	686.92	730.67	728.2	714.83	703.3	615.4	703.7	666.31
304859	Dhx9	1719	1846	1805	1924	1653	1628	1861	1714
360673	Tepsin	428	411	454	389	437	413	392	339
360956	Tbcd14	1281	1300	1300	1216	1201	1211	1225	1154
308663	Tubgcp5	586	540	504	686	583	496	539	559
289711	Evc2	100	81	97	72	90	97	80	62
361442	Sipall2	900	1045	1090	966	923	980	886	972
293508	Prkacb	7035.7	6937.55	6249.3	7290.3	6561	6157	6781	6363.06
310685	Polr3c	553	588	476	516.99	518	562	462	464
310508	B3galnt1	479	550	495	511	510	511	434	458
24252	Cebpa	82	66	99	70	72	94	72	60
309732	Ado	140	156	170	168	154	155	145	142
289307	Tfb2m	619	638.87	554.04	587.42	520.5	508.5	605.5	621.01
295607	Prpf40a	917	859	949	930	833	784	902	917
83839	Calb1	175	63	116	97	86	76	160	102
681004	Paxbp1	477	509	502	500	436	420	532	481
297885	Zbtb8os	383	409	387	358	319	345	372	409
83422	Pias2	521	604	513	551	498	516	532	512
299256	Cpsf2	1093	1145	1111	1200	1125	957	1124	1071
287112	Abca17	20.03	18.11	20.96	15.2	18.23	20.3	18.29	13.04
170699	Atp2c1	4540.9	4326.17	4447.5	4445.6	4259	3823	4574	4043.71
29560	Hif1a	1610	1499	1511	1609	1404	1429	1550	1474
363249	Ctdsp1	1611	1641	1656	1472	1329	1525	1513	1632
294673	Hexb	705.1	775.06	752.16	760.66	643.7	723.4	720	727.11
297872	Syt11	17	12	25	13	18	15	20	10
315250	Pdzrn4	21	20	11	15	19	17	17	10
310960	Usp33	2551	2648	2481	2808	2467	2389	2591	2415
686774	LOC686774	674	632	620	738	661	556	660	628
100910823	Der12	650	651	612	617	593	523	628	635
154968	Oga	2792.8	3000	2933	2999.8	2838	2663	2872	2652.8
360720	Rabl3	248	329	298	231	267	270	247	256
295245	Slc50a1	211	230	231	200	201	208	206	205
368066	Inmt	96	25	51	46	49	30	62	64
363972	Dpp10	5564	5228	4760	5528	5081	4251	5155	5336
108348101	LOC108348101	129.63	118.96	93.44	163.94	88.92	117.8	104.4	164.65
63888	A4galt	846	857	851	616	795	704	745	737
78965	Csf1	384	387	541	433	364	422	441	414
498100	Mb21d2	190	201	216	249	158	200	242	205
360992	Pnpt1	852	843	727	751	711	724	731	818
311349	Ttbk2	4014	3774.11	3822.2	4573.8	4156	3154	3939	3972
312656	8-Mar	1018.1	1042.12	1036.2	989.03	1003	908.6	937	993.48
64301	Smn1	217	234	244	246	183	235	214	253
100361238	Rasgef1b	62	69	51	87	63	51	61	78
497863	Tmem186	366.78	364.97	335.65	332.54	327.3	313.9	339.3	336.18
362618	Fam76a	457.5	461.86	420.59	448.28	400.6	459.4	398.8	423.08
299488	Esyt2	3027	2919	2847	2980	2803	2633	2924	2713
108348073	Eif5	5586.2	5514.47	5299.3	5573	5131	4848	5600	5088.82
312603	Rybp	801	802	792	821	748	727	745	805
690303	Magohb	91	72	85	72	66	63	76	96
362138	Rbms1	1127	1163	1135.1	1294	1184	1010	1157	1088
50655	Aco1	653	664	744	770	613	708	680	662
498803	Otud1	165	196	182	199	140	191	178	189
362479	Tcea1	1319.1	1230.02	1244.8	1192	1048	1136	1313	1192.14

652928	Rbm12	245.92	333.24	365.91	338.83	300.2	318.9	260.7	328.04
685756	Tmem229a	2895.1	2809	2523.9	2688	2557	2458	2723	2529.9
100359977	Cd16412	82	76	67	45	61	66	69	58
64314	Casp2	284	266	299	282	272	235	262	295
293060	Btbd1	2202	2254	2333	2175	1997	2008	2263	2165
305035	Angel2	478.6	487.64	394.43	388.44	407.3	369.8	438.7	429.69
315333	Atf7	1088	1178.87	1317.1	1341.2	1096	1135	1222	1180.5
368175	RGD1565071	91.81	122.73	98.43	127.03	123.2	94.61	80.52	115.61
314993	Atad2	162	162	170	165	183	126	151	160
25489	Nedd4	16332	16363	16766	17720	16022	14560	16800	15825
361034	Arhgef40	1751	1975.23	2006.8	2025.7	1849	1816	1938	1696.11
287380	Dhrs7b	459	453	426	456	399	427	426	436
311860	Ab11	670.05	736.97	840.92	753.25	651.5	708.3	740	724.2
311795	Tor4a	104.98	96	117	105	98	97	95	108
310644	Pbxip1	1335	1436	1986	1593	1377	1584	1470	1544
288257	Donson	170.9	162.34	182.7	166.36	160.7	160.5	158.6	162.27
315305	Atf1	308	331	355	311	282	315	332	299
500514	Fyb2	18	23	18	19	17.05	12	16	28.35
362088	Snopc4	176	151	179	156	145	194	148	136
298309	Lrrc42	403	439.55	387.56	378.07	384	342	384.8	402.66
29157	Ccng2	664	721	653	579	569	625	601	668
100359836	Kirrel2	10	6	12	6	9	10	5	8
291947	Prmt9	370	340	339	345	330	314	363	305
300761	Gramd2a	27	24	22	29	19	23	28	26
307305	Prdm6	70	49	70	66	60	63	55	62
307390	Fbxo38	698	706	689	712	649	658	672	661
317203	Rps6ka6	186	185	167	176	154	156	181	181
360615	Fbxo47	4	3	8	2	3	7	4	2
407758	Krt26	48	74	79	71	50	63	78	65
501036	Plscr5	6	27	19	16	23	33	7	1
683593	Jmy	986.75	1014.65	963.06	1056.4	914.8	895.9	1040	934.14
60563	Hr	871	854	652	667	690	757	661	757
300888	Tmed3	725	688	831	613	658	644	675	712
266772	Klhl12	693.62	602.45	619.3	598.63	586.5	600	607.7	572.03
301323	Prim2	106	139.84	129.7	136.2	117.1	99.47	126	139.08
686922	Gstt4	1	0	6	1	4	1.53	1	1
360952	Tmem128	562.27	588.57	564.4	468.91	436.1	504.1	537.9	577.73
116655	Hnrnpm	1333.9	1346	1410.9	1373	1243	1182	1339	1379
103690051	NEWGENE_1304700	175.08	157.45	148.2	119.71	131.5	172.5	181	80.23
361574	Snrnp70	2552	2471	2541	2556	2404	2475	2477	2170
494445	Srsf2	3606.3	3440	3603	3317	3198	3238	3556	3154.98
289693	Dhx15	2033.8	2007.04	1922.7	1956.4	1839	1754	1921	1941.27
294912	Sec62	3916	3979	4041	3983	3835	3724	3749	3677
363084	Usp3	166	168	169	145	140	147	172	151
292019	Sf3b3	656	732	764	680	636	723	671	636
360895	Rrp15	147	141	138	137	121	141	136	132
364654	Rnf170	983.98	924.43	936.82	946.27	822.3	827.7	991.1	928.28
306966	Zfp184	54.45	54.06	52	61	40.36	54	56.18	57.99
362269	Pcif1	354.22	344.74	380.06	359.85	316.5	351.6	333.9	352.61
29483	Slcla3	306	317	231	341	269	282	279	295
83726	Ctcf	824	793	874	838	787	793	785	769
499878	Mfap1a	586	597	558	581	548	548	530	560
289388	G0s2	66	67	33	56	56	61	36	56
65161	Litaf	697	810	1086	908	713	853	793	937
690369	Il15ra	31.53	17.74	29.36	25.38	20.45	25.39	25.35	26.73
85237	Ptp4a2	2373	2383	2367	2527	2178	2335	2320	2252

314306	Elmsan1	566	560	658	676	555	621	604	536
100312983	Kdm5d	649	588	559.62	592.88	553	576.9	567.8	552
498962	Acsf3	329	448	421	306	312	351	361	392
301419	Tyw5	132.18	131.53	139.53	131.91	120	108.5	136.5	138.83
293058	Ramac	421	413	387	369	376	337	407	377
299949	Tbc1d31	311	293	305	322	288	325	267	279
363232	Bzw1	3845	3567	3587	3417	3175	3218	3555	3625
310707	Chd11	159	165	199	144	189	123	159	157
289809	Pno1	365	384	383	322	309	325	364	371
259225	Ppp1r14b	436	337	462	340	374	349	382	378
314417	Papola	2164	2122	2192.1	2153	2051	1922	2133	2021
685909	H2afv	472.24	355.96	383.86	287.98	359.4	360.7	337.3	355.16
498257	Fam163a	163	164	93	163	109	140	147	153
289606	Gabra2	3406.4	3347.68	3485.8	3974	3800	2825	3421	3339.54
361925	Actl6a	241.69	240.5	266.94	250.68	221.9	256.2	241.6	221.92
679571	Hmg111	2204.7	2166.5	2295.6	1982.1	2049	1988	2151	1957.65
303165	Zfp672	301	294	298	292.03	261	291	261	303
114200	P3h1	315	372	457	368	279	392	373	380
300088	Polr3h	503	497	436	351	407	396	451	429
294734	Gpbp1	1582	1406	1480	1529	1435	1329	1470	1414
365465	Cwf1911	324.53	303.55	304.09	282.37	305.6	257.7	281.5	299.04
100359583	LOC100359583	1655.2	1564.66	1785.8	1437.1	1455	1589	1554	1470.1
117058	Pou2f2	20	15	25	26	13	23	25	20
297595	P3h3	833	974	1094	851	819	1052	822	841
293505	Cd2bp2	1178.5	1391.32	1301.3	1207.5	1144	1160	1248	1230.49
81684	Mipep	416	420	418	416	386	406	422	359
315936	Zbtb38	1098	1023.57	1147	1175	1015	1021	1069	1080.99
314619	Sbno2	607	597	734	579	572	619	630	549.92
60336	Arpp19	4582.2	4419.79	4307.4	4255.5	3993	3982	4270	4300.42
305938	Spata13	1058.3	1213.54	1427.9	1259.6	1138	1164	1173	1196.1
295305	Acp6	158	138	204	155	143	151	162	161
303577	Acbd4	513.71	457.98	465.37	408.74	497.6	483.9	343.4	413.87
316214	Tfeb	242	255	245	241	229	256	221	220
690032	Wdr4	234	137	203	151	114	174	189	206
102554605	LOC102554605	441.55	417.58	444.27	419.25	430.5	352.6	394.7	445
364475	Dzipl	1155	1128	1085	1312	1110	1096	1143	1060
289734	Smtn	864.12	1082.07	921.55	820.35	715.7	994.4	812.4	952.08
360739	Ranbp1	1571.6	1657.69	1568.4	1514.4	1518	1406	1489	1534.23
103693932	LOC103693932	0.76	1.94	2.07	3.35	0.74	4.67	0	2.24
691335	6-Sep	1567.6	1384.39	1418.1	1450.1	1318	1244	1440	1481.12
300215	Lmbr11	295.74	286.64	327.43	292.88	282.9	297.1	274.1	279.09
360775	Zfp157	276	290.01	258	271	271	234	244.7	282
304982	Igsf9	129.6	140.06	142.04	118.78	119.2	144.3	100.1	136.24
24848	Tph1	154.78	154.27	193.94	149.81	164.4	130.5	153.2	166.89
114767	Ptpre	498	587	608	591	490	561	543	558
287930	Top3b	465	464	438	451	429	427	449	408
301235	Bicral	542.99	585	662	669	571	614	557	575
85255	Hacl1	299	317	299	246	270	317	256	251
81783	Ssb	1771.8	1739.79	1759.5	1863.6	1656	1566	1804	1697.65
60337	Npff	16	9	14	13	6	14	15	14
680210	Psca	12	14	10	16	14	12	14	9
414065	Nanog	6.01	7.12	6.12	2.09	3.31	5.51	7.06	4.23
689621	Lsmem2	300.96	306.19	278.04	296.13	227	290.9	309	286.4
315795	Cgn11	2364	2175	2515	2877	2488	2047	2686	2138
308326	Zfp667	105	114	128	122	119	108	95	120
315447	Chordc1	1203	1153	1111	1347	1138	987	1202	1210

311115	Ubr3	4381	4551	4261	4937	4670	3770	4414	4233
362564	Bend5	64	59	49	54	60	48	56	49
500874	Tmem65	2926.7	2870	2821.6	2791.8	2691	2564	2844	2655.2
306547	Thap1	105	98	88	109	93	91	90	103
81002	Trim23	1079	1108	1046	1082	1014	915	1107	1031
298318	Slc25a43	28.55	21.03	27.94	16.79	24.18	25.15	21.09	18.47
81820	Doc2b	438.81	407.76	421.84	486.04	431.9	375.6	412.4	433.77
298086	Zcchc7	392	365	455	425	357	411	385	390
309758	Herc4	490	480	496	469	463	431	471	459
312077	Golga3	1449	1393	1462	1572	1418	1316	1470	1335
312299	Ezh2	140	157	160	136	145	128	149	137
64364	Pllp	1845	2227	2205	1712	1379	2115	1920	2117
81656	Dpyd	475	450	403	384	389	350	442	433
100361503	Zfp717	1684.9	1553.53	1510.5	1633.7	1559	1407	1609	1442.12
313027	Eya3	1195	1276	1230	1369	1266	1200	1199	1115
296136	Nphp1	223	266	232	206	212	214	210	238
303439	Mmd	601	614	588	734	575	555	646	616
108349244	LOC108349244	89.73	85.81	85.35	84.16	71.56	76.57	81.51	95.69
100361733	Ociad2	82	104	105	94	104	86	92	81
362474	Adhfe1	48	47	41	39	49	29	45	42
688390	LOC688390	12	6	9	8	8	8	11	6
691807	LOC691807	1225	1223	1165	1095	1082	1076	1172	1109
304277	Cpsf4	239	235	214	205	210	195	226	211
100910508	Zfp41	255	238	228	222.01	218	221	225.2	224.99
685697	Supt3h	617	691	652	615	652	611	583	582
289928	RGD1306063	856	887	787	782	717	750	800	856
81655	Dync11i2	5638	5412	4991.4	5461.7	4938	4820	5346	5173
50719	Slc7a5	1373	1482	1572	1536	1292	1473	1403	1455
314381	Nrde2	262	249	255	269	262	234	252	228
317370	Wdr13	1437	1346	1430	1348	1356	1206	1359	1323
363140	Rassf1	248	209	240	198	209	172	248	215
362962	Cbx7	824	796	801	756	712	756	733	795
362586	Trit1	279.04	292.11	253.01	288.02	241	248.8	287.1	272
680445	Mbnl2	7078	6933	6880	7517	7005	6343	6822	6620
307343	Fam210a	915.27	946.86	856.56	879.25	832.7	824.7	885.3	850.35
682908	Rcc1	167.91	135	191.5	133.41	145.6	153.2	142.8	150.47
100360594	Fanci	108.91	118.36	89.26	120	82.09	93.33	87.14	149.12
298068	Sec61b	340	360	395	294	288	299	338	385
100909445	Ube2w	932.5	938.1	816.58	1010.2	861.8	763	898.8	963.62
361354	Fbxo15	32	17	22	17	23	22	15	23
291958	B3gnt9	160.83	134.69	158.06	140.2	131.8	134.1	143	151.14
366014	Zdhhc12	161.71	141.93	149.86	129.83	151.7	139.8	106.9	151.87
299514	Mterf3	356	306	309	263	267	290	295	312
499636	RGD1563962	523.01	472.4	618	574	574	545	449.5	494.83
688478	Commd2	393.76	356.95	376.71	323.4	345.2	325	355.3	343.05
300359	Ccdc82	398	304	327	364	354	290	359	311
81768	Rpl22	1279.7	1179	1375.6	977.29	1083	1078	1186	1191
102549542	LOC102549542	4164.1	4092.46	3857.2	4498.9	3836	3658	4073	4104.37
498150	Brat1	418	403	424	359.93	379	372	397	366
29491	Itsn1	845	856	937	928	860	806	871	827
500723	Zfp839	116.91	98.85	93.05	84	101.9	81.8	105.4	81.51
366588	Colec11	28	18	38	22	24	22	28	26
29611	Dbt	720.84	648	651	680	603	593	681.1	670
364183	Bloc1s4	172	132	172	125	139	139	142	147
24590	Mme	355	366	372	463	290	344	421	413
685579	Rrm1	508	403	507	439	451	391	464	446

317380	Prickle3	123	126	138	126	119	107	115	143
309103	Pgghg	175	153	217	145	141	163	190	157
29257	Rp19	3686.3	3302.47	3213.8	2775	2914	2736	3013	3581.36
364154	Smiml4	2745	2745.78	2745.4	2675.8	2511	2675	2648	2462.02
313563	Exo5	102	108	92	70	76	86	85	104
81524	Nflx	609	652	738.99	712.04	589	776	605.9	588
100912032	Rps27a	4693	4265	4407	3446	4022	3558	3812	4470
361151	Ufsp2	1077	1020	1011	915	923	959	939	975
304656	Ccdc130	270.99	267.98	290.99	275.64	264	284.3	253	241.94
292156	Sh3glb1	2449.9	2266.18	2487.8	2265.8	2081	2218	2321	2316.19
286918	Mx2	1112	1069.21	1068.3	1232.9	996.4	1288	943.4	1001.89
297725	Tm7sf3	608	610	657	592	604	591	603	530
290230	Mdp1	292.97	258.6	200.65	223.21	231.6	231.5	233	224.4
364410	Kctd9	1484	1433	1428	1442	1325	1306	1424	1406
309070	Uros	206	231	211	222	253	198	181	189
293504	Qprt	136	167	242	112	136	146	171	167
365755	Tbllxr1	1606.8	1510.03	1544.2	1592.8	1553	1381	1517	1451.34
103690502	LOC103690502	657.89	656.74	657.24	656.83	583.8	518.5	696.4	682.21
304204	Snapc2	896	957	992	871	820	932	814	941
316035	Cmtm6	1235	1345	1419	1123	927	1242	1255	1410
292148	Eif3a	3054.5	3087.91	3207.8	3466.2	3233	2691	3241	2931.41
171305	Clk3	878	790	822	767	762	801	786	725
362910	Samd12	58	52	83	74	78	40	62	72
362537	Snapc3	574	494	486	441	443	432	511	497
78956	Scn9a	7208.2	6759.43	7436.5	7794.5	7782	5682	7209	6887.69
308598	Hps5	433.01	398.64	418.01	426.4	408.5	371.3	405.3	396.98
60396	Cdk13	56	45.67	46.03	30.14	74.17	5.27	21.1	67.32
300441	Tmem205	574	514	425	448	459	436	428	528
309295	Ikbkg	421	351	390	407	389	337	381	374
494345	Pdcd10	1549	1434	1411	1295	1304	1279	1383	1404
313216	Rnf20	1286	1284	1262	1360	1281	1135	1319	1166
288028	Tmem44	21.01	30.99	21.18	20	30.93	19.03	19	19
100910751	Mtg1	355	328	285	264	262	292	276	333
170465	Acaa2	1481	1022	1276	526	1055	974	965	1070
362736	Hectd1	2789	2764	3013	3117	2953	2588	2929	2559
171096	Cst6	222	163	180	132	156	151	151	200
362020	RGD1309139	74.58	57.97	67.78	77.63	74.06	56.62	63.31	68.42
362392	Snrnp27	462	443	443	423	417	379	402	474
290348	Synb	66.93	69.12	39.91	56.24	51.44	50.63	65	52.16
306253	Glt8d1	465	502	528	511	408	478	495	513
300674	Arcn1	3313	3304	3295	3255	3047	3033	3331	3021
24660	Pmp22	82646	94714	90329	74722	57498	87387	80077	98339
54299	Ncor1	1638	1658	1813	1972	1782	1572	1641	1691
689883	Setdb1	643.59	677.48	731.14	718.02	655.7	672	666.1	621.99
300687	Bud13	186	227	205	189	173	198	179	212
308942	Dennd5a	3848	4155	4311	4231	3794	3918	3926	3985
156826	Eya2	185	147	170	216	127	167	175	209
316452	Ccnyl1	255	223	344	363	206	221	291	401
316820	LOC316820	83.27	80.42	65.6	65.41	41.82	60.63	73.06	102.78
25235	Ghr	867.99	869	784	856	767	772	796	854
298312	Yipf1	1089.1	1082.88	1017.1	921.91	953.5	908.3	1044	976.18
690599	Mxra7	722.58	761.76	708.78	744.96	729.8	718.8	632.8	693.17
316219	Trerf1	202.56	193.91	205.3	236.96	188.6	204.1	221	178.33
24825	Tf	1234	1489	1993	950	1334	1269	1478	1270
100359562	Mroh6	11	9	11	5	11	10	7	6
116467	Tm4sf4	15	23	20	14	14	19	14	21

25129	Egr4	2	4	4	8	5	4	3	5
287824	Trim80	10	4	17	5	7	4	11	12
302579	RGD1565862	1	11	2	4	6	3	6	2
498486	Gnpnat1	161	167	157	145	143	129	156	167
500832	Bbs10	205	217	169	201	191	175	213	169
502916	Rerg	16	38	40	14	23	30	23	26
171361	Eef1a1	37820	39802	42872	34591	35504	35177	37436	38354
311575	Phf20	1594.4	1707.79	1633.9	1754.7	1662	1525	1616	1516.24
362129	Gtdc1	404	343	353	359	292	337	373	376
360663	Unk	325	305	350	353	317	334	315	293
361977	Isg2012	163.9	172.56	197	179.71	154	165.8	163.8	190
100912286	Leng9	123.34	111.55	124.09	113.58	99.4	103	140.1	103.83
246314	Tor1aip1	435	394	434	433	381	391.9	412	416.99
292130	Afap112	1360	1563	1885	1608	1313	1575	1690	1482
299762	Tmtc2	760	772	771	815	745	683	793	724
293113	Tmem126a	293.68	242.3	263.78	212.5	205.6	222.1	246.8	281.6
499846	Tcp1111	1722.9	1835.81	1783.5	2485.8	2172	1437	1871	1913.73
363142	Sema3b	6037	8636	7808	6772	5555	8199	6804	7073
406166	Egf18	3075.4	3399.19	3375.1	2316.9	2155	3126	2830	3380.53
299521	Camkmt	295	288	297	275	283	261	283	264
60374	Lmna	2488	2736	3270	2263	2474	2698	2543	2446
361541	Proser3	299.04	290.11	302.02	308.08	286.5	313.1	283.9	249.35
293059	RGD1305713	422.06	418.35	412.31	350.28	379.5	367.1	401.9	365.79
361059	Ccdc25	665.68	663.82	674.84	584.63	568.2	575	659	643.47
360389	Zfp422	345	338	368	376	330	291	367	360
678772	Casd1	1128	1056	1000	1080	981	985	1088	974
310056	Ipo11	1464.7	1399.01	1311.1	1310.5	1324	1207	1338	1313.39
299625	Lmb2	131	161	169	117	149	143	122	132
360917	Cnot61	290	267	298	338	278	262	303	284
314879	Xpot	1835	1955	1832	1977	1756	1754	1923	1746
362804	Cwf1912	438	414.17	424.12	448	431.4	357	386.3	454.29
362511	Fbxo10	193	249	248	233	225	197	226	224
315969	Topbp1	364.52	340.97	471.92	394.25	397.2	365.6	402.1	319.9
266606	Tor1a	464	433	440	329	343	397	466	368
362483	MGC94199	395	411	340	321	315	353	356	362
24382	Ganc	422.81	416.89	432.3	419.11	365.4	418.3	412.7	401.4
102555303	LOC102555303	0	0	0	1.45	0	0	1.37	0
362151	Lnpk	1223.8	1199.88	1151.8	1281.7	1155	1035	1291	1108.22
498038	Vg113	541.44	604.87	597.66	542.31	472.5	452.3	573	662.44
289855	Ccdc85a	450.08	371	330.45	452.87	401.1	352.9	405.6	356.35
291318	Nmt2	1471	1487	1414	1668	1377	1405	1525	1400
680227	LOC680227	547.06	487.76	577.91	512.89	467.9	476.2	506.4	557.91
309004	Vkorc1	427	398	445	345	339	400	371	416
288659	Vps37b	263	253	292	299	229	258	247	312
309051	Pign	553.1	623.27	600.86	693.57	609.8	506.6	623.9	594.45
24246	Camk2d	1988.8	1920.37	2250	1914.1	1817	1904	1952	1956.11
24772	Cxcl12	787.07	727.07	737.77	794.26	638.9	736.5	797.4	705.75
362041	Rpl34	2249	2139	2159	1685	1919	1806	1835	2219
266688	Rab8b	192	227	242.01	266	214	212	235	215
308584	Plekha4	4965.9	5635	6157	4687	4239	5304	5607	5115
361755	Aldh18a1	579.98	592.63	690.35	636.14	535	540	672.4	614.23
315655	Rdx	1166	1198	1336	1335	1127	1175	1275	1181
288003	Rfc4	222	204	194	180	200	149	201	206
408200	Pan2	402	380	392	372	361	363	393	344
297607	RGD1311164	292	286	282	286	281	265	282	255
302810	Bcor11	280	271	280	315	287	262	250	284

290401	Esd	835	839	816	713	718	693	795	821
24180	Agtr1a	93.01	99	77.71	99.91	71.89	67.64	107.9	101.88
362719	Asap2	426	531.84	732.82	575.95	487.8	613.1	555.6	485.64
366170	Tmem87a	701.19	756.11	668.7	656.89	671.6	572.7	691.3	694.59
54350	Scfd1	912	966	939	903	810	803	966	937
361377	Phkb	1178	990	943	1067	1107	942	983	917
304935	Tbx19	17.04	33.96	36.24	33.76	22.11	30.45	29.14	32.67
499214	Coa4	235	201	194	172	165	197	213	183.08
362974	RGD1304694	2529	2501	2483	2497	2221	2382	2407	2452
114851	Cdkn1a	115	125	226	137	108	155	198	109
499136	LOC499136	524.54	464.28	553.11	544.55	493.8	456.6	478.4	543.54
687192	Gid4	1781.5	1971.48	1837.1	1914.8	1579	1748	1813	1954.03
306229	Dennd6a	924	876	809	810	795	756	844	837
361814	Srsf3	1748	1694	1761	1288	1486	1372	1715	1563
291228	Mkx	92	100	81	111	104	77	84	98
100362202	Znf408	205.7	201.09	216.04	165.62	176.2	186.2	202.6	180.39
362896	Stat6	1169	1210	1274	1253	1129	1174	1191	1144
499317	Tmem258	362.32	315.18	361.91	311.94	299.8	334.5	296.9	346.31
363174	Sgol	28	23	38	21	33	33	20	18
312382	Abcg2	566	420	321.06	419	434	376	392	430
680039	LOC680039	1458	1466	1409	1630	1452	1361	1442	1383
300955	Nck1	529	486	444	468	464	414	452	492
498796	Fam107b	653	710.15	694.01	498.55	664	565.1	589.2	598.17
497948	Trpv3	148.36	245.09	240.53	222.67	171.8	186.8	274.3	177.16
286931	Unc13c	747	921	990	815	873	770	796	845
682964	Zfp551	61	58	54	66	66	47	57	56
295663	Phospho2	547	543	506	482	492	426	516	531
292729	Snrpa	237	231	222	193	196	235	210	194
298648	Tardbp	2000	1858	1829	1894	1714	1657	1995	1803
171552	Prpf18	963.62	928.52	950.18	942.55	908.9	865.9	921.4	883.05
501110	Gsta6	190.95	190	166.99	150	164.1	159	168	168.92
297801	Xkr4	90	89	89	118	124	55.03	75	111
113929	Nup88	576	619	557	570	549	529	602	516
361035	Mettl3	885	948	934	864	818	903	849	864
296758	Armc10	548	507	591	529	500	505	510	542
299841	Rxylt1	433	411	357	404	326	381	408	403
363450	Ftsj1	139	153	133	110	141	127	129	109
292087	Urb2	153.52	175	151.11	152.65	149	158	146	145.02
266729	Dab1	394.34	348	409.21	365.17	376	376	356	326.59
301525	Glb11	223.43	189.57	308.43	259.2	217.7	214.7	272.7	222.42
310544	Map9	1784	1787	1705	1779	1741	1523	1787	1622
298385	Magoh	349	333	324	287	290	265	338	330
360748	Prkdc	729	674	775	780	771	614	727	686
100909715	LOC100909715	22.92	34.68	35.25	28.8	38.35	30.4	22.05	24.27
305451	Tnip2	152	107	165	131	130	147	118	130
310548	Rbm46	197	196	187	197	211	159	184	181
362722	Tmem18	230	249	215	231	214	198	225	238
308004	Fam204a	354.29	307.5	290.58	321.73	340.5	273.2	299.2	292.28
683522	Tead4	86.3	105.35	109.74	85.49	73.96	84.79	97.54	109.69
308899	Mrvil	215	157	169	181	177	195	147	164
102548728	LOC102548728	29.17	31.14	27.66	29.43	26.06	21	30	34
681031	Snrpg	272	216	228.63	165	207	197.1	189.9	240.02
362003	Gpr89b	1003	980	913	939	912	920	913	883
290947	Mtrr	548	492	462	462	442	429	504	483
303883	Lrch3	1201	1177.23	1224.6	1334.8	1143	1102	1330	1096.14
60445	Tsc1	985.79	1039.14	975.81	1139.6	1003	993.6	974.8	945.94

363127	Dnajc13	1678	1609	1743	1868	1725	1588	1718	1495
499567	RGD1565641	486	413	373	360	362	306	413	463
290577	Wapl	906	867	933	952	885	746	947	883
300514	Ei24	1783	1752	1683	1671	1614	1611	1601	1692
311713	Mrgbp	256	280	273	216	254	251	252	212.8
298182	Tyrp1	12440	12518	7833	10104	10331	10581	10645	9028
304549	Oas12	275.43	312.38	310.36	356.83	267.1	381.2	263.6	275.58
313974	Trib2	1355	1383	1447	1463	1272	1231	1463	1378
366975	Pphln1	901.53	890.15	928.83	891.95	862.7	805	859.8	890.58
360563	Ncbp3	189	228	204	197	205	188	195	186
313427	Usp24	937	970	1039	1071	972	922	1002	905
498560	Uchl3	429	388	388	321	328	348	388	380
100034253		1294	1276	1217	1350	1305	1167	1222	1167
362626	Rsrp1	1937	1716	1699	1479	1613	1598	1562	1691
363067	Sin3a	624.31	600	689.99	646.28	597	535.1	667.9	623.04
25486	Myo9b	1738.2	1753.06	1897.9	1901.7	1637	1751	1840	1670.76
304546	Git2	955	972	1001	909	842	931	980	878
108349010	LOC108349010	1842.7	1878.62	1750	1662.6	1622	1620	1669	1840.97
296925	Aass	97	97	64	96	93	79	66	97
29318	Ddt	1126	952	813	838	828	832	833	1036
362048	Tspan5	1020.1	1111.33	1228.5	1025.2	1060	1010	1029	1050.38
296813	Slc25a40	208	196	185	195	189	182	193	178
304743	Ccdc93	646	658	737	723	621	670	657	668
499895	Slx4ip	130.26	113.35	129.49	138.25	136.7	111.1	116	120.19
293017	Bclaf1	2139	1992	2123	2119	1997	1790	2120	2018
27100	Gfer	293	322.4	248.69	261.07	259.3	241.1	272	292.62
307170	Acbd5	1619.6	1483.85	1593.1	1632.7	1475	1373	1513	1629.67
171394	Clstn2	605.68	834.41	582.56	710.69	707.5	650.6	629.9	599.2
680014	Esco1	383	359	397	395	387	336	380	349
140588	Gli3	34	32	29	36	22	24	42	36
313551	RGD1564804	234	226	159	167	160	198	195	191
304208	Cers4	846.45	868	828.01	1062.6	1011	700	856.7	844.95
84360	Clcn3	2510	2486	2441	2410	2326	2340	2300	2355
362700	Spast	1047	1067	1052	991	1044	939	996	956
364976	Syce2	57	51	43	55	53	44	45	53
304695	Zcchc2	617	594	593	650	539	577	607	600
294753	Mocs2	832	876	830	760	802	660	806	854
290284	Sap18	195.52	219.26	195.52	221.25	183.4	195.5	193.9	214.33
313024	Wasf2	1096	1197	1277	1212	1093	1167	1118	1149
24166	Adcyap1	1282	1395	1496	1341	1370	1202	1274	1374
366856	Mterf2	122	93	87	102	81	99	113	89.46
316009	Plxnb1	817	848	869	943	705	899	851	836.62
29600	Atp2b4	1101	969.69	1119.2	1073.2	1004	995.2	1080	956.26
192647	Mfn1	716	778	725	689	675	629	730	719
100360302	Sec16a	1342	1339	1551	1585	1402	1382	1430	1293
314850	Frs2	936	980	910	1005	932	856	925	914
100359464	Zfp420	328.32	336.73	324.18	321.84	315.8	288.5	342.4	294.54
309812	Rev3l	404.64	434.52	414.92	494.05	423.2	368.1	432	431.79
25481	Mmp11	75	70	80	76	56	77	58	94
300442	Ccdc159	94	121	111	107	95	100	101	114
361548	Dmkn	2	7.96	4.5	6.25	1.37	7.82	6.42	4
686326	Ifnar2	344	332	327	315	305	310	326	307
293989	Cyp2c6v1	5.9	2.3	2.23	0.68	2.32	1.07	4.88	2.25
367793	Scml2	29	34	32	18	33	24	28	22
500707	Tc2n	105	78	83	92	76	82	86	95
360643	Cdc27	1508	1440	1480	1583	1448	1341	1469	1434

24936	Cd9	7256	8290	8319	6360	6113	7243	7490	7775
362938	Scrib	962	1072	1185	1083	905	1131	1066	972
299825	Gns	1728.5	1876.84	1968.4	1920.2	1586	1868	1826	1817.47
24855	Tsc2	1060	1265	1223	1252	1097	1253	1151	1045
292464	Katnal	159	139	157	131	145	111	162	137
500281	Setmar	114	99	95	89	98	72	97	109
84031	Chn2	380	423	389	415	315	383	409	415
94270	Nnat	1471	1482	1441	1376	1565	1008	1120	1772
298683	Vwal	3511	3603	3763	3218	2806	3733	3246	3565
308537	Uri1	488	507	567	463	469	496	490	463
365458	Fral0ac1	271	256	263	232	232	259	257	220
315473	RGD1561444	166	169	139	132	139	139	155	141
288707	Gltp	1058	1110	1292	1033	850	1119	1122	1165
100911610	LOC100911610	235.17	237.35	139.86	251.74	189.2	162.7	224.8	241.86
499940	Tp53tg5	7.17	10.68	4.03	11.3	8.65	9.08	6.89	6.81
294687	Bdp1	645.29	624.51	670.85	683.65	696.1	552.7	671.1	566.1
24705	Rara	316.59	299	446	335	306	353	310	354
24884	Yes1	897.18	766.14	821.96	796.65	719.5	713.8	859.8	815.91
307845	Mtss11	1803	1930.3	2261.6	2115.3	1657	2054	2082	1890.26
309962	Pde8b	399.99	432	422	436	361	383	408	449
53372	Nup54	298	293	277	272	263	270	285	262
500005	Gatad1	1043.8	981	1012.2	959.46	916	966	965.1	939.27
170943	Slc25a10	714.7	795.03	832.27	728.48	684.8	787.5	729.9	706.93
363442	Fundc1	1421	1405	1322	1315	1221	1138	1426	1391
362289	Lime1	386	342	360	322	319	372	331	314
64531	Synj2bp	2282.7	2320.55	2199.8	2513.7	2286	2142	2238	2162.92
361929	Atp11b	779	714	749	788	728	688	742	713
25618	Acadsb	2071	2019	1991	2111	1880	2299	1578	2006
100365504	Sf3b6	489	409	454	386	392	362	442	451
310192	Trio	1656	1702	1822	1915	1753	1653	1791	1527
108349907	LOC108349907	51.2	49.69	37.32	75.99	55.7	44.72	55.9	46.68
680692	Golm1	228	223	223	244	230	197	229	214
305851	Supt16h	1368.6	1369.39	1294.5	1362	1267	1208	1387	1250.21
288906	Rfx1	248	257	263	296	242.9	267.9	261.8	235.81
310682	Pex11b	474.03	434.74	448.46	380.28	394.1	418.9	391.5	442.25
306252	Nek4	223.18	187.86	182.57	200.54	194.9	194.7	169.9	193.14
691170	LOC691170	299	268	276	268	268	235	277	273
102551177	LOC102551177	9.5	3.13	4.15	8.89	0	6.52	12.85	4.96
84431	Asah1	2411.1	2271.11	2177.8	2223	2014	2057	2328	2209.45
500227	LOC500227	69.79	59	48.99	44.43	54	57.43	49.19	50
114846	Gstol	1196	1021	1114	887	982	914	956	1146
308561	Zfp819	15.35	16.15	11.06	12.28	16.53	15.12	10.2	10.13
362223	Snrpb2	640	614	533	496	508	493	566	597
307024	Zfp438	73	78	72	84	69	51	72	99
619561	Acsf2	490.73	443.93	406.64	466.5	425.6	413.5	416.3	458.24
65034	Pdzd2	763	824	856	1127	915	765	856	848
314730	Ikbip	294	277	299	301	292	269	270	279
619566	Cdca71	54.04	44.84	64.76	38.35	61.32	49.81	36.34	44
29598	Atp2b1	4368	4035	4364	4462	4447	3872	4392	3621
313125	Bach2	84	89	92	100	92	64	92	98
108348199	NEWGENE_1306210	2314.9	2296.06	2307	2179.9	2168	2149	2220	2087.91
310756	Mov10	151	171	159	153	132	176	142	151
499672	Cdc42sel	1362	1406	1424	1150	1220	1250	1274	1320
313098	Usp45	963	912	960	1047	974	718	970	1018
307178	Arhgap21	1786	1803	1906	2115	1871	1727	1753	1863
100910079	LOC100910079	137	96	102	107	90	100	136	93

289584	Usp46	1438.7	1386.58	1366	1380.4	1335	1253	1383	1310.78
291975	Enkd1	50	55	33	35	32	41	41	50
499418	Spatc11	32.75	40.88	0	53.88	16.38	0	54.75	49.75
311257	Nat10	294	315	291	312	300	304	299	246
300062	Ift27	263	238	235	207	251	225	244	174
310314	Ttc14	355	394	390	421	358	300	397	424
298066	Erp44	960	911	885	865	821	848	920	844
365619	Arsk	184	198	155	195	167	170	190	167
361917	Zfand1	186	157	149	144	122	154	161	166
691422	LOC691422	211.11	194.13	190	206.37	216.8	176.9	180.3	186.06
309957	Mef2a	1875	1959	1881	1976	1917	1747	1949	1679
363158	Crtap	251.59	236.13	241.4	232.53	214.9	219.9	234.2	242.81
317398	Usp51	0	4	7	5.99	7.11	5	4	0
54318	Eif2s1	1090	1062	1009	953	954	891	1002	1054
314157	Fbxo33	297	320	325	333	305	284	291	329
246273	Trib3	10	13	12	23	18	15	9	13
65160	Clnsl1a	814	740	724	643	660	705	722	683
361452	Ltv1	326	372	368	366	308	342	351	357
303394	Usp32	3422	3469	3411	3748	3370	3176	3662	3116
305466	Prr141	999	980	1037	1068	1022	896	1005	950
310377	RGD1306227	60	52	47	54	54	45	59	44
54320	Pdpm	1322	1386	1702	1674	1465	1404	1385	1516
497896	Zfp879	35	37	46.23	37	31	36	41.22	39
114021	Ebnalbp2	334.61	216.02	326.21	367.81	243.6	257.6	281	398.21
103690073	LOC103690073	11.5	18.14	18.41	22.72	22.39	12.61	20.2	11.92
116482	Sacm11	2727.3	2766.42	2457.5	2579.6	2432	2330	2651	2574.26
100912216	Prcd	34.74	33.22	29.03	21.33	31.95	21.7	33.37	25.2
295072	RGD1560324	4.16	2	4	4	2.62	2	3	5.81
80773	Cyb5b	1078.7	1221.84	1042.2	1150.1	1067	988.2	1076	1130.41
84577	Hdac2	1510	1565	1560	1419	1431	1435	1471	1405
100909604	LOC100909604	99.42	204.51	361.96	500.19	138	420.5	182.1	365.44
308650	Hnrnp2	1638	1540	1547	1511	1457	1471	1506	1481
306941	Carmil1	618	642	631	732	599	622	647	620
294091	Ifit2	284.56	227.18	220.9	297.65	226.5	281.6	283.9	185.35
303552	Rundc1	462	464	476	408	447	432	404	434
29423	Gap43	4501.6	4649	4827	4211	4573	4081	4517	4083
500132	Plekha8	276	270	274	271	268	239	283	245
298144	Kdm4c	346.77	320.44	365.08	328.95	327.5	290.5	368.8	304.5
307348	Spire1	2130.4	2006.92	1997.5	2001.8	1853	1996	2041	1830.28
315216	Selenoo	643.21	657.72	659.6	589.96	604.5	609.5	589.2	616.39
102556290	LOC102556290	33	21	25.03	19	21	25	32	15
315981	Col6a4	9	10	8	12	8	1	10	18
680867	Tmem191c	103	97	97	93	105	100	79	86
171050	Mob4	1614	1636	1487	1523	1351	1367	1585	1636
361052	Cdadcl	884	840	750	726	703	785	758	790
304881	Torlaip2	1282	1248	1270	1233	1116	1177	1191	1291.01
301013	Shisa5	1312	1392	1553	1403	1263	1399	1348	1360
83781	Lgals3	3481	3289	3721	3001	3079	3066	3310	3346
290364	Itm2b	10223	10067	10193	9312	8788	9508	9610	9852
363509	Arhgef6	927	891	859	938	831	888	895	816
289615	Atp8a1	3911	3957	3807	4216	3839	3643	4054	3542
79251	Aspa	611	531	499	569	389	450	611	647
305164	Wdfy3	3811	4192	4451	5256	4637	4216	4066	3886
361686	Osbpl5	1587.4	1387.61	1433.6	1409.7	969.8	1494	1382	1675.6
298767	Dync2li1	184	207	201	172	188	154	182	201
311536	Slc52a3	32	38	42.58	40.81	35	34	35.56	41

690634	Fbxo3	1961.5	1951.84	1844.3	1846.1	1748	1715	1854	1899.15
298091	Slc31a2	140	153	134	102	114	108	127	153
103691564	LOC103691564	85	95	75	98	78	86	82	89
301442	Sumo1	1270.8	1246.84	1322.8	1156.9	1186	1085	1255	1216.91
361842	Sarla	2247	2200	2266	2175	1899	2130	2207	2199
56042	Uso1	2476	2518	2509	2582	2265	2374	2516	2416
304983	Tagln2	6188	5943	6704	5832	5793	5429	6368	5820
100909586	LOC100909586	1.51	0	1.42	2.96	1.43	0	2.8	1.36
314205	Arid4a	338	353	358	404	372	301	343	363
295107	Smc4	544	441	645	668	560	509	583	529
54245	Crk	4537	4484	4294	4500	4148	4021	4479	4260
303885	Rubcn	1688	1840	2095	1802	1743	1932	1694	1678
303599	Tanc2	2322	2624	2746	2921	2509	2440	2681	2443
315058	Chrcl	146	120	136	109	108	119	118	140
58840	Mapk6	892	981	905	943.99	792	954	929	858
500054	Pot1	225	230	200	192	223	169	188	224
116549	Csnk2a1	3369	3334.03	3202	3155.9	2885	2899	3315	3299
305549	Pelil	404	324	373	377	353	324	378	348
315000	Rnf139	566	534	510	499	451	487	531	533
690244	Sumo2	2155.6	2229.89	2115.4	1979.8	1860	1968	2148	2075.55
266806	Erc1	993	998	1052	1119	982	976	1033	960
298199	Plin2	1404	1297.99	1525	1298	1357	1328	1198	1362
361924	Mynn	261	281.07	318	286	256	249	267	316
498594	Lrit2	247.26	248.19	256.38	219.74	216.7	244.1	200.4	261.22
300652	Sorl1	2316.1	2114.2	1932.9	2210.6	2246	1960	2109	1825.5
315740	Kif23	46	28	53	31	40	34	38	38
100360437	Nsun3	28.62	22.24	11.06	22.9	27.09	17.21	17.06	19.17
24239	Cacnalc	1136	1188.11	1183.9	1034.7	1094	1151	1019	1049.54
367092	Arid3b	123	123	119	110	111	115	119	106
361526	Sertad1	179	175	193	126	149	164	150	176
171085	Pcsk4	155	136	154	149	147	146	133	138
108348127	LOC108348127	138.41	133.87	164.6	120.47	110.1	139.2	160.8	119.19
307035	Mpp7	164	168	130	192	151	118	187	165
288783	Ormdl2	534	555	501	491	478	479	504	515
311630	Zswim3	218.99	189.17	175.13	193.02	166.5	202.9	174.1	193.59
102551184	LOC102551184	20.61	18.68	12.59	16.78	17.37	23.46	8.98	15.39
303037	Spdl1	53	77	60	68	59	54	67	65
360540	Akap10	444.9	427.11	414.45	468.68	394.8	383.4	452.6	435.98
305918	Ift88	435.21	452.91	432.99	395.79	398	401.7	421.3	409.5
29492	Notch2	1016	1106	1189	1459	1091	1131	1151	1157
293343	Fam160a2	413	418	413	426	419	365	416	386
100365779	Zfp605	100.99	92.47	95.16	119.38	113.2	66.71	111.4	96.15
114023	Copb1	1710	1686	1631	1635	1554	1480	1683	1610
689991	Unc80	2384.9	2511.16	2338.8	3137.8	2791	1927	2651	2482.11
81680	Lifr	4251	4436.14	4299.2	4915	5442	2819	4321	4419.95
299043	Eapp	539	507	518	506	460	470	534	502
295344	St7l	563.28	540.34	549.43	477.32	476.6	479.3	547.7	519.72
310999	Plekhg5	398.42	497.78	457.94	397.54	391.6	452	434.4	385.68
83842	Crot	1555	1414	1347	1458	1443	1357	1492	1192
361338	Fech	823	900	773	710	819	760	715	751
308667	Nipa2	1089.4	987.67	1051.4	1045.9	1018	921.7	1025	1000.6
309069	Edrf1	312	311	304	329	290	270	321	312
100360066	Evi5	2935	3110	3219	3181	2884	2679	3178	3080
362356	Cull1	3315	3015	3081	3046	2920	2746	3168	2999
100361658	Usp37	605	623	544	581	584	474	595	582.18
291445	Megf10	1115	1254	1235	1550	1179	1113	1404	1200

679712	Myef2	1593.9	1409.22	1525.1	1564.7	1459	1407	1482	1439.27
306404	Spock3	950	821	856	810	869	753	903	740
289175	Slc19a2	510	458	459	472	426	457	489	432
499725	Rpf1	294.07	280.73	267.27	265.68	227.9	265.5	299.3	259.69
366872	Cep83	767	778	789	866	768	661	829	782
288118	Tmprss7	5	7	5	3	5	5	4	5
301351	RGD1310819	29	30	28	33	30	26	27	31
500577	Fhad1	36	26	26	32	25	30	32	27
114485	Dmtf1	1286	1239	1201	1274	1169	1115	1334	1132
305684	Samd8	1527	1644	1499	1661	1624	1434	1538	1419
360471	Usp7	2433.4	2535.53	2305.5	2375.5	2260	2224	2458	2225.96
300782	Ints14	662	620	608	659	636	607	596	583
85421	Prkd1	647.34	668.72	626.16	606.17	590.9	589.2	627.6	613.71
317593	RGD1561327	739.77	678	645.82	752.86	672.1	587.1	730	687
292022	Ddx19a	558.59	614.35	559.19	579.02	506.5	552.3	576.3	560.91
304138	Cyyr1	414	389	355	428	339	395	378	395
289014	Mapkapk2	590	663	720	659	568	727	610	596
308718	Pex7	152	187	176	149	151	160	164	156
117280	Hnrnpu	4983.4	5054.74	5178.5	5059.3	4741	4813	5041	4674.25
305288	Cep135	135	102	101	105	107	101	124	89
308341	Ssc5d	382.55	429.83	511.58	438.09	381	507.1	366.1	420.4
24929	Ptger3	90	75	90	108	96	64	88	97
308509	RGD1308428	1024	1060	1066	1048	996	1016	1025	953
289424	Xpr1	352	360	368	435	395	304	366	375
170927	Clcc1	634	606	560	604	553	524	623	585
687022	Sec22c	1317	1418.02	1266.1	1360	1216	1273	1301	1306.1
301430	Orc2	669	610	607	601	576	512	649	627
362923	Efr3a	2588.1	2532.41	2334.6	2718.5	2418	2293	2517	2442.91
680200	LOC680200	27.8	27	24.18	23.99	15	30	26	26.88
360466	Zc3h7a	771	724	704	675	635	642	778	677
311483	Rrbp1	1717	1748	2199	1907	1722	1917	1823	1735
292188	Rnf217	157	146	172	153	162	143	140	152
85430	Herpud1	925	938	824	960	863	1023	791	790
296501	Hat1	405	406	417	354	347	370	411	376
361995	Prpf3	478	434	443	431	395	429	455	419
289219	Ppox	211	207	196	198	176	192	204	200
64171	Card9	45.36	47.77	51.44	46.25	52	33.99	50.97	44.46
25256	Fmol	544	417	368	559	426	456	410	503
688318	Lrrc45	548	569	637	528	596.6	572	567	434
306306	Ccser2	8333	8251	7387	8823	8152	7339	8129	7559
299247	Cpg1	115.42	111.77	136.15	116.49	110	101.5	113.8	130.86
116477	Wnk1	3336.7	3592.49	3883.5	4424	3799	3469	3732	3486.66
293698	Ccdc88b	104	107	94	81	98	101	92	76
361667	Dhx32	588.81	648.69	621.21	632.62	574.4	571	634.4	589.01
298018	Fam206a	410.73	396.73	362	400.52	371.6	321	369.6	430.59
310710	Sec22b	886	924	926	883	830	843	876	892
691018	Hsd17b14	18	12	15	16	8	23	13	14
498205	LOC498205	0	0	3.66	0	0	3.48	0	0
313981	Nol10	412	475	471	411	420	412	411	439
291736	Rprd1a	1713	1626	1523	1504	1534	1421	1611	1487
303241	Chd3	2147	1825	2124	2365	2057	1948	2045	1995
100360412	Dnajc1	149	177	177	189	151	170	164	173
295428	Mettl14	592	535	572	540	502	494	613	520
306767	Ar110	324	315	284	339	323	300	288	289
288486	Zfp12	367.41	311.4	304.81	313	310.4	328.3	316.8	277.45
361895	Elov17	1615	1435	1425	1455	1509	1323	1443	1364

310376	Nimlk	63	76	76	50	80	58	51	63
295088	Gmps	521	535	526	539	480	427	598	512
100910299	Larp4	356.66	410.82	363.67	483.93	415.3	332.5	417.9	370.33
305120	Rpap2	316	314	311.63	291	285	282	321	284.21
292090	Galnt2	1354	1517	1746	1510	1332	1529	1531	1435
302492	Mbnl3	48	51	62	50	65.73	32	48.94	54
316561	Sphkap	1607	1491	1482	1510	1585	1288	1541	1378
100910130	LOC100910130	359	346	311	313	280	292	330	362
25444	Fgf9	254	338	260	293	260	281	313	235
84485	Ccs	361	290	321	255	266	297	303	301
313375	Cyp2j3	467	461	512	540.82	415	446	496	526.99
311112	Fastkd1	370	340	339	319	336	306.1	342	317
50864	Ntm	440.85	418.19	304.14	455.22	322.3	437.5	390.3	389.22
361233	Ssr1	1620	1755	1763	1614	1600	1608	1723	1491
287361	Zfp496	292	280	325	250	253	284	303	251
307503	Etf1	1546	1337	1466	1391	1279	1263	1531	1387
311047	Cytip	57	39	42	26	39	34	32	51
499113	Selenov	4	15	10	12	9	3	13	14
295654	Ttc21b	511.01	443	409.01	441.01	429	402	438	447
289707	Lyar	211	263	248	201	200	244	212	222
25263	Mal	6140	6463	5591	5688	4168	6474	5330	6746
80850	Gng2	6066	6248	6171	5977	5660	5735	5901	5974
501088	Tbc1d5	858.85	849.07	847.55	925.73	801	823.2	869.1	818.35
286761	Vcpipl	659	678	659	817	788	500	690	698
365042	Rab32	71	77	107	53	74	58	98	63
316008	Ccdc51	174.2	163.45	159.21	163.47	140.7	142.8	172.6	172.07
29317	Csrp2	192	146	129	129	150	120	120	177
25107	Avpr1a	47	48	42	48	42	36	42	56
108353265	LOC108353265	17.45	21.75	23.2	20.88	31.03	18.2	18.6	11.4
362283	Stxl6	1251	1275	1266	1164	1172	1189	1217	1137
84511	Slcolc1	112	136	82	143	70	78	71	231
499709	Gar1	93	126	118	95	96	118	94	103
313702	Mad212	155	152	182	149	157	143	152	155
117254	Prdx1	3800	3679	3916	2972	3205	3075	3572	3817
100912483	LOC100912483	58	71	52	66	62	42	61	70
501925	Slc2a9	70	87	81	112	84	107	82	60
361055	Kpna3	1414	1378	1330	1338	1233	1237	1407	1318
307491	Hars2	597	603	615	617	551	555	602	605.99
25622	Ptpn11	2448	2424	2450	2614	2439	2328	2454	2233
54244	Crebbp	405	437.01	497.09	474.39	380	465	500.3	380.24
353233	Nsmaf	585	503	544	512	521	490	513	516
81632	Abat	791	697	693	1080	696	695	787	925
29150	Matr3	3916.3	4058	4253.2	4189	3883	3554	4151	4033.52
171015	Cyb5r4	457	422	444	392	387	365	404	476
114095	Stxbp3	568	562	532	488	478	474	575	519
299027	Eif2s3	2362	2310	2299	2325	2276	2105	2278	2187
58966	Ramp2	1151	945	919	913	898	910	976	954
252855	Sfpq	1259	1416	1497	1536	1402	1304	1415	1311
497897	Zfp2	130	123	125	160	131	119	132	130
689256	Tpd5211	230	205	197	196	188	183	191	226
313914	Gtf3c2	864	897	910	952	825	941	838	844
246097	Fas	90	84	104	74	96	85	79	75
289080	Rgl1	1631.3	1563.87	1522.4	1892.6	1632	1655	1581	1423.82
305391	Med28	459	424	439	397	378	416	397	445
361324	Sema6a	662	572	646	730	675	601	676	532
315744	Itgall	87.88	57.92	90.04	91.92	88.6	83.01	76.79	63.54

363614	Natd1	301.08	276.84	231.99	92.47	290.4	29.33	296.9	242.3
192227	Ptgr1	80	42	69	58	51	51	56	79
294408	Asfla	267	273	287	252	236	235	268	288
366251	Slc2a10	41.33	35.23	58.09	39.86	31.17	41.15	50.37	43.41
683570	Gnpdal	345	314	334	315	307	293	312	333
192359	Zc3h14	1109	1179	1192	1193	1083	1065	1205	1095
305614	Sptbn1	26739	28572	29946	31798	27562	27158	29292	27408
687029	Ss1812	362	383	338	309	326	299	324	376
313494	Tln1	2833.2	3226	3631	3442.2	3026	3210	3090	3174.07
498995	Ncoa7	6110	5940	5736	6261	6028	5494	5907	5461
287405	Tmem220	70	77	74	70	69	66	80	62
498727	Nol7	519	477	478	440	439	420	459	504
60384	Copb2	1681	1579	1622	1506	1520	1361	1534	1666
361849	Ccar1	1050	948.14	1077.3	1093.9	1068	895	1013	993
25248	Cnr1	625.58	496.27	485.84	538	507.8	499	535	500.88
366960	Maff	61	66	116	90	73	87	87	70
294090	Ifit1bl	54.48	75.61	69.26	56.66	73.06	51.97	53.35	65.34
298558	Zfp46	730	745	803.81	807	796.9	745	697	698.93
171123	Rph3a1	38	32	39	37	28	36	27	48
25637	Ptger1	117	123	138	102	114	126	121	96
316457	Pikfyve	1426	1380	1372	1520	1448	1235	1404	1338
304741	Tfcp2l1	240.31	203.31	276.82	261.93	257.7	215	230.5	232.17
60581	Acaca	2036	2100	2000	2342	2093	1864	2071	2044
360866	Scyl3	359.32	406.18	345.32	382.77	361.8	332.7	337.7	389.88
364535	Tmem161a	318	298	313	283	280	322	292	260
311346	Lrrc57	557.06	501.22	501.1	437.04	434.8	461.4	516.4	488.4
100364240	Btbd8	573.26	687.35	585.94	708.72	553.3	627.7	664.3	587.72
102554315	LOC102554315	417	408.16	370.62	331	336	359	404	354.73
310097	Snx18	1007	1027	1015	965	870	960	992	1000
307505	Ctnna1	3689.2	3803.82	3872.1	3700.2	3425	3749	3553	3618.56
299872	Eif3e11	1898	1884.98	1849	1656	1557	1654	1847	1882
108351491	LOC108351491	16.32	17.41	12.3	26.49	27.09	19.85	12.94	9.18
296293	Cbfa2t2	564	667	618	710	635	560	665	577
24942	Chm	521	551	510	579	506	470	494	588
114561	Pitpnb	1690	1626	1578	1657	1528	1540	1643	1528
100361104	LOC100361104	7	16	12	28	9	23	12	16
114125	Dl13	8	6	3	4	7	5	5	3
289199	Lrrc52	4	10	5	2	3	3	6	8
291427	Loxhd1	7	5	6	3	8	4	6	2
297386	Slc4a5	7	3	6	5	7	4	3	6
29755	Colq	83	53	63	74	71	73	60	56
300019	Gml	10	3	4	4	6	6	4	4
367074	Tmprss4	5	7	5	4	5	2	4	9
680799	Ccdc166	9	4	3	5	6	7	3	4
474154	Rbm4b	179.46	201.4	195.7	175.2	164.3	166.4	189.1	196.16
317191	Apool	294	321	302	281	259	260	308	314
102552497	Pcdhgb6	56.41	77.4	96.49	100.54	83.3	104.4	45.05	82.33
296304	Edem2	306	346	345	286	339	276	310	297
298916	Cpsf3	622	624	631	585	533	633	590	589
305227	11-Sep	1032	1087	1082	1155	994	962	1119	1074
25679	Itpr3	2562	3468	3512	3295	2749	3126	3040	3312
361718	Naa40	124	116	118	84	85	125	93	118
311670	Cstf1	305	312	370	318	301	316	315	311
170902	Zfp347	274.19	261.58	248.84	276.79	230.6	223.5	268.7	288.19
315858	Ibtk	522	562	570	537	495	528	565	499
679692	Lpgat1	1740	1770	1637	1832	1713	1580	1711	1644

364144	Fryl	1975	2222	2303	2484	2183	2210	2186	1979
292781	Syne4	114.21	112.68	115.58	123.28	104.1	144.7	107.8	87.06
296099	Tp53bp1	2029	2085	1993	2278	2152	1912	1981	1943
100362836	Pocl1b	283.99	265.39	292.58	283.6	283.7	256.4	269.8	262.43
100362678	Epcl	550	584	549	556	502	540	515	576
361959	Kpna4	1131	1017	1028	1218	1061	1020	1061	1044
291526	Pol1	92	81	91	74	84	68	94	76
29253	Maoa	1032.5	1099.55	1212.4	1077.4	977	992	1117	1126.96
301549	Wdfy1	1953	1910	1817	1929	1773	1771	1919	1786
303212	Zfp287	349.57	393.87	336.08	370	363.1	329.2	328.3	360.4
294883	Raly1	1126	1110	1023	1074	1047	962	1047	1072
25337	Nfyc	696	743	713	702	669	653	708	689
362831	Dot11	844	774	911	833	800	821	853	729
103693210	103693210	1224.6	1102.85	947.34	983.92	947.7	940.9	1095	1073.83
300516	Tmem218	298	303	290	252	250	271	270	298
29347	Faah	170.18	207.04	205	147.22	153	179.3	194.4	168.29
301374	RGD1310553	384	414	384	448	393	397	380	383
170899	Kcnk2	375	253	283	338	274	268	333	315
309016	Wdr11	810	756	780	788	753	736	767	730
313865	Thada	434.6	456.81	466.77	506.86	448.8	395	468	465.21
315769	Trip4	585	583	556	566	572	498	562	550
64440	Syt4	5812	6263	5887	5708	5745	5194	6081	5534
103691373	Frat1	152.39	169.35	124	156	165.9	139	128	140.47
246217	Ngef	353	301	234	259	315	227	262	289
309357	Tmem185a	508	473	472	480	466	444	461	471
500318	Cd27	14.43	16.45	12.6	27.47	23.31	9.77	19.26	15.27
246268	Oas1b	192.36	212.57	199.35	240.17	209.6	227.8	191.5	175.82
305150	Hsd17b13	20	23	23	19	14	28	21	18
361810	Fkbp5	1018	659	593	580	771	764	553	628
366697	Sptlc2	2300.8	2525.86	2418.3	2427.8	2218	2381	2319	2300.64
170956	Ythdc1	849	928	915	1010	910	810	923	885
298370	Txndc12	819	883	863	693	616	790	832	867
298065	Tex10	530.31	532.95	513.31	496.98	486.3	480	541.5	468.42
171129	Uggt1	1521	1517	1594	1719	1560	1479	1582	1432
100361558	LOC100361558	2848.2	2892.75	3281	1900.3	2475	2563	3066	2306.49
113948	Bbs2	681	721	597	623	613	632	639	615
171107	Arr3	26.15	16.11	24.86	21.84	18.06	18.07	25.75	22.91
58959	Crhr1	15	20	13	16	11	17	11	22
316317	Imp4	392.61	372.43	403.02	321.18	342.7	348.2	353.8	374.78
497815	Nrcam	3381	3411	3775	3520	3802	3129	3534	2962
102551838	LOC102551838	11.97	1.36	8.01	5.98	5.34	9.07	4.13	7.5
54230	Btg3	174	167	191	151	144	140	174	193
316575	Trip12	3510	3534	3582	3889	3655	3200	3650	3330
64394	Zmat3	1313	1493.84	1517.1	1399	1332	1257	1469	1396.57
289196	Tmco1	1067	1039	977.18	963.22	949	900.9	1004	1002.98
24192	Akr1b1	4614	5400	4653	4104	3475	4312	5093	5012
300756	Arih1	2134	2033	2066	2098	2037	1872	2069	1963
291618	Kctd16	342.21	388.13	399.08	526.35	460.5	295.2	379.4	443.12
108352427	LOC108352427	13.19	26	11.25	26.08	15.39	11.24	13.58	32.73
316406	RGD1306941	1023	944	900	874	888	823	944	911
295106	Ift80	510	543	471	486	467	442	485	522
311748	Metap1d	76	67	58	77	61	69	74	61
100910867	Cfap69	268	209	204	260	225	251	166	255
81748	Pls3	5643	5474	5167	5277	4766	4620	5518	5649
25132	Myo5b	148	168	110	173	173	112	128	158
25245	Bdkrb2	337	393	426	363	369	385	384	310

64133	Xylt1	42.99	42.11	58.02	76.06	48.9	59.07	51.97	49
81640	Amd1	2351	2235	2157	2165	2176	2104	2196	2016
24679	Prkar2b	3074	3177	3613	2712	2886	2722	3116	3265
362724	Sh3yl1	199	191	162	155	162	162	166	184
500901	Arhgap39	1773.2	1928	2075	1922.1	1947	1883	1767	1741.99
24419	Grm6	71.09	73.87	78.09	108.56	86.26	69.78	91.51	68.61
295690	Dna.jc10	4070	4002	3925	3963	3822	3545	3975	3875
315145	Fam83f	331.68	351.53	385.81	307.38	251.6	362.6	330.4	367.76
681284	Hmgn5b	83	63.59	87.03	60.04	81	62	68	69
679168	Fam199x	21	36	32	40	35	18	30	40
685679	Nme4	22	19	24	21	23	15	19	25
311607	Chd6	1893	2039.97	2017	2242.2	1993	1933	2063	1822.1
498390	Zfp518b	569	555	570	522	566	471	514	562
315758	Dpp8	4214.4	4206.87	4183.6	4564.5	4123	4069	4265	3914.46
361859	Cdc40	366	367	385	346	356	350	356	334
360850	Nek7	4811	4519	4267	4751	4224	4181	4660	4431
83627	Galnt5	536	502	437	529	537	438	455	481
60430	Mc11	769	713	792	766	639	729	766	765
361939	Mfsd8	803.9	823.87	762.55	794.78	785.1	695.1	768.5	788.73
103691035	LOC103691035	1.4	0.66	2	2.2	1.42	1.47	3.08	0
361315	Yipf5	944	924	986	860	852	859	913	918
502935	Eya1	19	18	26	45	12	19	44	28
681359	E4f1	371.57	322.87	333.97	334.03	339.2	322.8	327.8	309.61
360725	Snx4	1039	953	1013	953	934	906	999	936
501560	Rps6ka3	2823.5	2739.84	2990.7	3186.1	2980	2508	2954	2755.1
171090	Giot1	202.06	179.41	214.53	246.07	214.2	176.6	199	213.31
304054	Prdm15	194.71	170.93	200.76	194.85	205.6	171.7	193.7	155.01
501195	RGD1562136	1324	1334	1225	1159	1187	1145	1239	1238
100909657	LOC100909657	195	204	218	184	178	206	198	182
290648	Pgpep1	287.36	274.31	256.64	299.62	286.1	255.2	252.2	272.77
315141	Mief1	817	845	841	876	796	881	773	773
305472	Pik3ip1	1191	1350	1300	1120	1145	1265	1111	1211
366461	Ppih	319	276	306	269	260	263	269	324
100359687	LOC100359687	248.23	297.96	408	66.56	254.7	338	8.99	372
102547932	Zfp623	182.35	153.21	184.33	149.51	147.3	152.1	157.4	181.66
311880	Gapvd1	1433	1545.18	1539	1630	1478	1436	1527	1423.11
50659	Nr2c2	546	475	525	605	562	413	561	516
315702	RGD1305464	135	107	129	107	112	122	106	116
502642	Selenoh	272	228	263	172	210	263	199	220
171576	Bub1b	20	18	37	12	30	22	20	11
29316	Adora2b	93	65	104	86	93	85	84	70
619385	Ncoa4	2686	2679	2779	2644	2525	2489	2654	2624
362173	Caprin1	7420	7331	6961	7458	7080	6587	7318	6844
307848	Fuk	205	205	170	225	209	203	188	168
314384	Rps6ka5	710	736	676	708	682	664	711	643
310982	Tt117	23963	20596	18749	23465	21235	18510	21762	21280.45
361522	Hnrnpull1	1517	1609	1697	1645	1574	1655	1557	1385
100361234	Btbd19	120	159	118	104	104	126	128	120
288504	Snx8	233	218	236	228	241	215	214	203
362092	Brd3	635	625	692	685	639	613	634	630
114489	Dag1	8486	10325	11150	11089	8908	10308	10188	9764
316639	Farp2	869.93	914.38	854.93	928.48	832.6	952	809.7	809.84
316013	Setd2	979	1008	1078	1125	1055	980	1061	902
311573	Cep250	364	339	406	398	361	352	393	332
100909679	LOC100909679	17.7	33.17	27.44	38.04	22.71	24.03	35.26	29.03
24770	Cc12	240	260	318	320	206	245	335	300

680404	C1ql3	47	52	73	47	27	50	43	89
365903	Fam102b	2357	2278.64	2217.4	2440.1	2229	2117	2187	2336.08
84379	Rab6a	13447	12947	12661	13306	12188	12511	13041	12232
362428	Rimklb	512	667	604	651	501	583	608	631
296840	Rbm48	113.45	106.65	117.32	98.55	87.86	108.8	120.1	99.3
299284	Dicer1	968.05	970.66	982.76	1113.3	972.7	970.2	978.1	929.8
314388	Ppp4r3a	648	601	662	592	599	573	620	597
100910996	LOC100910996	373	359	275	311	313	334	318	293
308742	Mctp2	1427	1290	1425	1552	1445	1230	1476	1284
361462	Hddc2	397	373	367	380	362	329	358	399
300965	Srprb	368	383	355	433	354	368	385	362
292756	Pak4	419.75	333.78	386.9	416.9	372.5	354.4	345.5	414.2
155192	Abcg8	21	10	18	17	15	11	21	16
298845	Emilin1	201	174	255	228	176	217	191	235
313170	Kif24	19	20	30	19	20	22	23	19
500356	Rergl	8	0	1	13	6	5	8	2
54190	Rabep1	1976	1966	1882	1991	1834	1805	2020	1801
29613	Ntrk3	498	509	538	680	476	525	541	582
289820	Actr2	6786	6571	6365	6227	6215	5687	6543	6327
100158232	Zfp9	472.99	448.22	466.29	486.44	475.3	397.2	479.4	437.06
361990	Chtop	1655.7	1547.41	1716.5	1441.2	1473	1463	1556	1580.47
362549	Efcab7	139	125.06	138	129	103	106	157	141
363924	Rad9b	183.77	156.22	142.77	142.19	144.9	165.8	124.7	161.3
64298	Rpl31	3066.8	2859.65	3086.9	2338	2568	2456	2575	3238.11
290291	Cab391	1795	1919	1850	1656	1535	1681	1838	1839
24827	Tgfa	532.02	598.05	613.33	526.34	411.2	545.7	595.9	614.12
362367	Znrf2	806	847	831	918.99	891	733	847	778
64562	Prkab2	1667	1586	1470	1512	1696	1434	1503	1320
313365	Ift74	201	164	188	199	170	156	204	188
25475	Lgals5	58.42	45.51	80.11	13.28	43.19	56.67	42.29	46.25
363672	Sp6	77	62	132	83	90	72	67	109
81757	Rala	2316	2300	2236	2221	2073	2038	2236	2316
102548231	LOC102548231	122.07	129.98	101.13	116	113	111	117	106.99
498081	Slc35a5	616	663	679	632	557	638	660	618
65033	Stx12	3503.4	3345.23	3329.3	3130.9	2997	3101	3208	3402.18
140568	Chst10	281.89	267.97	227.04	296.09	263.2	249.7	253.7	257.92
59326	Rapgef3	339.32	289.73	286.98	318.13	245.4	345	264.3	323.71
303602	Dcaf7	1788	1812	1801	1933	1795	1754	1727	1727
688622	I131ra	1578.6	1777.61	1703.7	1951.2	1932	1390	1439	1934.01
192263	Pigl	135.08	87.83	112.34	121.35	105	95.18	113.9	121.88
100911751	LOC100911751	20.63	17.59	26.27	27.37	29.54	27.67	15.09	15.42
683667	Sri	3550.6	3502.03	3486.8	3450.2	3155	3271	3465	3467.86
100910854	LOC100910854	164.27	172.88	166.87	135.48	143.7	187.6	159.7	119.71
304378	Gigyf1	845	795.54	903.02	846	826	893	805	713
307745	Tent4b	719	756	759	810	728	681	744	754
84356	Abcd2	706.68	702.2	612.59	740.15	725	668.8	639.2	604.37
315762	Ras112	235.45	184	176	164	153	207	186	179.28
360697	Ifngr2	688.89	655.53	701.43	615.17	643.4	649.3	646.2	602.5
293667	B4gat1	661.46	785	540.97	646.98	538.5	642.5	695.5	639.47
295446	Tbck	466	492	510	533	492	488	461	470
310669	Golph31	323.44	298	275	292.28	276.1	264.3	305.4	289.51
291209	Hecw1	2882	3052.99	2919	3611	3207	2673	3134	2891.06
691501	Snopc5	529	514	438	456	451	474	461	464
315891	RGD1309079	571	534	592	619	554	534	586	538
293754	Mrpl16	467	415	365	380	380	378	396	400
289668	Lap3	1101	1155.95	1133	1040	982.2	1056	1107	1086

312440	Kdm3a	664	596	658	668	622	617	628	603
117544	Ppat	519.72	474.66	439.16	471.26	459.2	450.8	446.1	463.35
683758	Klrb1c	2.59	0	6.24	4.11	8.23	1.06	2.07	1
25409	Cdh6	472	477	429	631	538	394	491	496
116555	Nup107	463	414	399	421	415	367	423	416
102547626	LOC102547626	19.22	11.43	14.91	19.28	15.46	12.3	18.64	15.54
311415	Zc3h6	158.48	211.53	177.9	188.11	166	167	170.5	199.61
450229	Krt27	19.82	15	13.18	13.8	14.84	10.93	10.58	22.69
29597	P2ry2	419.68	429.75	463.77	449.31	376.5	427.3	423.5	456.51
171018	Zfp384	708	621	669	624	548	671	663	623
307766	Smarca5	1604	1597	1720	1714	1541	1502	1704	1592
500266	Fam19a1	190	167	154	162	135	160	175	173
103693914	LOC103693914	13	7	13	6.04	5	10.23	10	12.07
316810	Gtf3c3	504	513	494	576	502	456	545	491
310820	Ptbp2	1898	1812	1675	1820	1740	1603	1894	1647
64365	Tcn2	999.66	972.32	1121.2	1056.2	917.4	998.8	1014	1034.28
305956	Wdfy2	1709.7	1822	1658	1787	1557	1691	1747	1671
501563	Prkx	1158	1187	1161	1233	1068	1020	1224	1216
100910636	LOC100910636	66	72.74	56	61	69	58	51	66.36
688581	Elmod2	520.56	340.49	513.5	518.83	445.4	401.4	352.5	609.84
114107	Kremen1	147	170	196	184	162	145	192	167
302864	Mmgt1	2516.2	2655.68	2433.3	2636.6	2445	2395	2568	2378.82
287726	Rdm1	50	63	68	44	58	49	46	62
362733	Etv1	3778	4246	3113	4550	4238	3741	3408	3603
314523	Wdr60	209	201	221	202	192	179	232	193
361506	Leng8	4884.7	4355.45	4995.9	4734.4	4509	4879	4716	4025.17
685504	Clgn	3052	2895	2785	2698	2890	2693	2700	2640
361986	Slc39a1	1015.7	975.62	1219.5	1025.4	921.7	1003	1019	1105.28
361285	Mllt10	683	610	700	645	663	595	666	597
499583	Naalad12	103	71.85	95.06	116.04	77.38	78.01	100.4	113.01
63994	Arhgap17	1052.8	1088.2	1165.1	1205.1	1063	1055	1118	1074.98
363054	Mpz13	102	86	73	100	92	81	85	87
25122	Scnn1a	25	26	43.98	40	32	26	39	32
362969	Tt111	821	771	706	773	782	738	756	659
59322	Cnksr2	270.2	267.74	317.47	390.38	355.3	234.3	318	283.05
25255	Dyrk1a	1151	1172	1182	1170	1119	1121	1161	1067
363151	Ccdc12	226	147	169	181	153	182	162	194
366693	Rbm25	1215.2	1148.64	1326.2	1238.6	1220	1126	1238	1125.68
361481	Prr18	209.18	221.29	227.78	227.57	238.2	207.8	190	210.67
308909	Smpd1	2064	2304	2250	2162	1993	2178	2071	2150
292816	Zfp507	267.28	266.01	266.48	278.36	265.5	225.8	255.3	283.91
116650	Srp54a	1119	1092	1099	1016	1001	930	1113	1091
500795	RGD1562114	94	106	125	83	93	93	95	109
54227	Arpc1b	1589	1689	2146	1286	1468	1666	1724	1556
414786	RT1-M1-2	18.55	19.57	20.72	32.11	22.34	25.48	21.67	17.45
300857	Tmem30a	9812	9450	8693	9615	8722	8015	9791	9386
100362121	Ddb2	98	109	76	80	85	73	99	90
300030	Rhpn1	1206	1269	1315	1091	970	1305	1163	1228
362304	Orc5	525	534	547	483	483	471	518	525
311913	Dennd1a	405	422	428.99	427	387	412	421	388.99
291750	Trappc8	1411	1362	1340	1479	1316	1319	1442	1269
307474	Tcerg1	1753.5	1919.38	1879.4	2021.6	1807	1762	1976	1695.62
24778	Slc2a1	1294	1412	1643	1791	1416	1456	1561	1437
312777	Etv6	49	39	44	50	42	52	48	32
100360406	Tsr1	695.54	698.22	693.27	676.38	642.5	656.3	679.5	663.66
310658	Pogz	652	636	653	745	617	663	660	628

304019	Tbc1d23	919	988	1019	967	866	905	976	975
500841	RGD1561648	51.7	54.83	49.07	51.7	46.25	52.65	49.65	49.65
313663	Crocc	128	129	135	147	108.3	149	142	116
367838	Zc4h2	483	427	373	381	404	352	412	423
81802	Stx3	293	304	283	283	310	230	288	284
297930	Wwp1	1025	1189	1149	1175	1069	985	1186	1099
296954	Tnpo3	1562	1496.93	1577.5	1550.1	1587	1417	1524	1388.46
305025	Tp53bp2	287	316	300	377	294	307	319	304
83572	Pafahlb1	20561	19960	19382	20556	19773	17623	20266	19277
311419	Stk35	384	383	322	397	355	389	343	334
116483	Dars	1118	1165	1146	1054	1018	1048	1124	1097
299668	RGD1566251	753.17	657.7	601.62	848.61	793.7	630.1	610	702.25
311163	Ctnnd1	2733	2981	3030	3254	2799	2915	2956	2804
295217	Snapin	1406	1317	1273	1156	1094	1176	1330	1327
58823	Nckap1	9937	9093	9318	9467	8973	8461	9626	9104
305127	Zfp644	1007	958	1012	1009	952	882	1016	962
363098	Ccpg1	2266.6	2091.32	2077.5	2262.6	2135	1976	2282	1925.08
114638	Hps1	206	190	252	177	183	240	191	175
680259	Fam171a1	2689.1	2803.16	2829.8	2963.5	2771	2747	2718	2556.71
295334	Bcas2	382	430	370	377	331	360	391	409
170849	Zfp111	135.44	136.86	141.78	99.74	119.4	123.1	123.4	125.5
309196	Ttc9c	1240	1225.29	1262	1246	1226	1115	1204	1212.12
363629	Cyb5d1	479.24	421.45	470.09	452.15	410.6	439	459.3	434.59
312480	Pcgf1	192.69	110.01	145.15	118.66	132.6	151.7	160.6	96.98
287356	Mrpl55	559	477	474	419	448	444	467	486
312439	Rmnd5a	1774	1650	1737	1776	1594	1596	1788	1657
312664	Rasgef1a	648	702	688	604	640	618	609	660
85244	Spa17	301	286	252	264	278	237	285	255
366169	Rtf1	963	974	953	947	914	924	937	895
306492	Cnot7	1408	1268.02	1282	1259	1206	1218	1294	1272.14
304733	Epb4115	82	139	91	148	108	106	100	126
54302	Slc14a2	7	4	5	7	5	5	6	6
310460	Arhgef26	296	308	320	250	221	272	317	313
500384	Tmem70	703	617.51	527.68	546.14	516	524	631.7	618.71
361767	Poll	504	544	499	480	425	539	506	469
309097	Adgral	362.52	308.67	318.97	240.2	208	265	360	343.93
108348083	LOC108348083	140.02	129.37	118.65	107.86	151	96.98	118.7	107.77
103693495	Oxld1	115	85	59	87	73	69	101	88
64031	Pdcd4	1420.3	1383.01	1605.3	1455.5	1480	1410	1557	1162.89
294390	Zup1	247	215	194	222	190	223	215	212
282843	Sorbs3	1133.5	1077.19	1102	1020.7	916.7	1200	1085	944.27
498136	Mtus2	245	182	173	187	174	185	215	179
114119	Gng10	802	770	836	672	670	724	755	798
305831	Atg14	210.82	202.47	213.65	224.66	195.8	195.5	214.1	209.38
29524	Limk2	640.27	673.25	738.56	691.11	620.2	674.8	669.8	660.01
81634	Actn1	375.6	345.68	502.99	394.56	369.6	393.6	431.3	354.51
300710	Ddx10	506	538	516	550	480	475	528	536
306375	Csgalnact1	735.13	601.2	869.47	579.41	729.9	716.6	630.5	588.2
65195	Kcnd3	2754	2696	2644	2806	2713	2360	2563	2794
261736	Cops2	4805	4599	4512	4629	4155	4078	4648	4865
315606	Kmt2a	1274	1254	1370	1557	1320	1280	1345	1275
317368	Porcn	414	428	398	411	374	431	397	378
685859	Ubxn2a	1988.2	1965.37	1658.1	2002.3	1760	1766	1893	1868.05
29500	Slc10a2	893.37	808.18	874.14	810.57	732.1	819.5	888.4	800.6
367915	Rab9b	2324.9	2087.88	2140.6	2221.9	2074	1894	2292	2137.88
498310	Ns11	38	36	55	34	35	43	40	38

296370	Ctsa	3845.9	3912.16	4277.2	3636.3	3460	3990	3705	3844.51
102554398	LOC102554398	129.1	116.98	118.11	110.95	108.7	112.7	118.4	114.9
310935	Fpgt	303	251	217	301	264	221	267	274
360792	Styx11	83	81	100	69	59	92	97.02	70.7
291841	Cnot1	1714	1800	1961	1945	1793	1703	1843	1763
108348063	NEWGENE_1309551	140.33	175.43	212.82	101.72	153.2	132.3	210.8	107.11
309135	Ano1	176.19	192.84	164.41	179.61	170.5	180.6	184.9	146.49
102554622	LOC102554622	2748.4	3365.98	3366.3	2999.4	3233	3080	2896	2736.95
360667	Mfsd11	751.48	800	830	758	732	748	793	732
312937	Cyld	602	656	579	640	619	571	606	575
362890	Tspan31	1148	1133	1131	1075	945	1032	1221	1097
293650	Tcirg1	675	589	650	587	601	652	554	587
171057	Cbwd1	200	209	182	157	175	177	176	188
362044	Cenpe	69	56	105	74	90	62	75	64
100362710	Tiam2	249.74	270.31	286.91	231.79	244.6	253.9	241.4	254.52
303088	Trim41	738	696	732	712	691	668	739	657
362687	Srsf7	988	890	972	850	889	868	930	855
100125385	Mroh1	206	229	196	259	235	195	225	197
114906	Pkia	2280	2376	2261	2035	1930	2078	2216	2346
499309	RGD1560108	627	585	668	582	568	585	594	610
314297	Papln	1168.9	1018.77	1074.9	1297.9	1189	1063	993.2	1121.58
362118	Mvb12b	2825	3148	3258	3324	2573	3314	2977	3156
286978	Tmsb15b2	352	343	328	268	356	248	295	337
296913	Lsm8	242	234	238	178	169	211	241	233
309255	Mtmr10	462	529	453	434	474	414	459	451
362383	Rpia	177	165	179	137	137	157	175	161
498949	Phlpp2	388	352	358	430	416	315	372	360
50681	Acox1	1181.9	1206.09	1145	1161.8	1088	1116	1157	1134.08
291276	LOC291276	1	0	0	3	1.83	1	0	1
314399	Ubr7	519	456	479	452	455	433	493	444
100911486	LOC100911486	0	0	9.18	0	4.71	4.08	0	0
687565	Denr	812	722	714	672	763	636	717	680
678726	Fbxl18	188.1	203.93	194	210.05	217.9	181.3	145	218.2
367289	Kansl11	288.36	307.96	274.55	322.34	289.8	263	302.8	287.09
361390	Abce1	2591.2	2459.08	2501.1	2521.4	2484	2293	2460	2408.24
296708	Olfml2a	1739	1976	2332	1976.9	1771	2071	2086	1756
309429	Kank1	940	855	924	1084	868	1006	925.2	842.94
116543	Ebf1	2048.5	2085.15	2122.4	2296.1	2327	2098	1984	1781
80843	Sec61a1	1849	1902	2032	1883	1778	1886	1876	1802
260323	Snx27	1879	1856	1854	2032	1804	1807	1960	1728
100147704	Usp43	16	15	20	20	14	21	16	17
499798	Arl6ip6	92	70	115	78	80	72	94	94
114839	Ccnc	890	942	906	860	861	765	884	936
29390	Ptpmt1	424.6	441.68	409.24	351.57	368.7	376.2	395.7	417.88
301079	RGD1311745	243	207	222	181	217	184	194	222
304923	Gorab	218.21	220.07	206.95	202.33	182	183.7	216.9	229.32
114513	Rasgrf2	83	55	61	62	78	48	67	57
102546968	LOC102546968	108.29	134.67	122.01	68.53	119.5	113.7	121	61.05
78961	Golph3	1756	1601	1700	1730	1576	1664	1718	1543
305884	Acin1	1974	1975	2054	2120.8	1905	1954	1995	1927
362515	Anks6	386	357.34	332	337.09	361	349	361	282
312166	Cadps2	755	811	860	826	860	760.1	736	759
304601	Baz2a	863	837.76	885.83	942.93	869	839	856	817
361425	Emc8	260	284	266	212	245	233	260	241
79249	Abi1	1237	1262	1356	1259	1163	1158	1352	1226
29546	Homer1	290	263	257	332	276	276	282	260

309010	Sec23ip	758	726	764.78	827	767	697	733.6	749
24766	Scn2a	325.65	262.18	254.45	314.21	305.5	244	309.1	249.27
290549	Selenok	1119	1120	1062	941	922	973	985	1184
85384	Sos2	613.47	703.4	686.63	723.87	679.8	611	654.2	668.04
308236	Zfp53	47.67	63.2	54.25	70.13	60.38	45.54	52.03	67.44
367307	Dis3l2	304	291	297	301	264	300	288	291
306792	Slpr3	2529	2678	2899	2062	2126	2427	2897	2292
246244	Tax1bp1	4624	4342	4221	4168	4163	3746	4545	4174
291212	B3galnt2	354.26	306.82	310.17	291.91	277.1	305.1	303.8	324.24
24564	Mpz	193132	236439	223443	197282	1E+05	2E+05	2E+05	254558
291689	Cdc23	1026.3	1039.79	903.54	880.32	900.6	874.1	925.3	988.81
100360508	LOC100360508	2963.2	2113.31	2607.6	2193.4	2428	2162	2341	2533.27
260325	Homez	60	59	52	68	62	62	47	58
499751	Man1b1	2390	2373	2447	2279	2097	2211	2369	2415
313611	Pafah2	236.7	245.02	242.02	221.42	233.4	240.6	229	202.66
192110	Pou3f1	189	244	302	222	222	221	239	235
140915	Slco3a1	1000	1123	1046	1116	917	1116	970	1103
683007	Mia3	1490	1471	1607	1754	1542	1582	1540	1394
64465	Cdc42	7339	7360	7196	6916	6378	6795	7095	7340
171455	Exoc2	2145.8	2245.42	2133.7	2196.4	2164	2062	2203	1927.76
312649	Tsen2	135	128	108	132	97	131	143	111
83731	Kcnma1	495.54	510	509.29	678.2	622	383.4	519.1	577.02
192243	Golgb1	2218	2207	2313	2511	2403	1990	2393	2077
293344	Arfip2	1527	1414	1445	1295	1379	1314	1407	1344
305816	Ddhd1	910	853	917	893	834	863	871	856
297522	Sec13	669	704	666	647	600	644	660	670
29372	Rasa3	445	549	571	570	464	522	585	475
79215	Mtpn	1728	1605	1661	1699	1635	1446	1718	1615
288064	Kpna1	1713	1611	1650	1768	1586	1565	1704	1606
292610	Zfp606	173	145	154	152	144	136	161	157
691774	Lpar6	141	135	123	129	152	100	103	151
171134	Lgals2	5	7	4	8	3	5	6	9
25655	Gja4	84	78	96	78	68	93	93	68
361321	Atg12	1581	1442	1405	1502	1415	1353	1430	1485
103690102	LOC103690102	82.3	64.01	83.78	116.7	60.78	85.36	79.19	107.02
310155	Mtmr12	415.41	422.03	428.96	388.56	403	441	373	369.11
54265	Llgl1	801.9	810.43	855.91	779.39	747.9	786.8	798.9	778.82
60427	Kitlg	1487	1823	2113	2052	1822	1484	2086	1772
100362965	LOC100362965	172.92	237.87	194.04	149.83	187	179.7	181.3	175.33
360670	Slc26a11	111	115	116	115	108	112	108	110
362007	Sike1	503	484	480	458	428	479	467	471
117045	Eif4e	1828	1781	1683	1761	1608	1640	1764	1748
288617	Tpst1	464	432	576	454	416	452	506	472
83836	Nde1	168	163	177	180	153	161	187.4	158
302980	Fahd1	312	284	220	221	229	256	270	239
315764	Plekho2	694.93	642.08	708.38	722.63	770.1	620.4	645.4	617.36
314436	Elk1	421	478	478	481	477	456	452	396
688673	Pomt2	396.99	437.03	384.81	450.6	372.4	421.1	388.4	418.33
360687	Cadm2	162	186	213	188	180	164	195	179
316067	Xylb	579	553	543	574	525	549	531	551
25492	Nfia	272	292	308	410	324	270	342	293
303245	Senp3	867	914	951	824	828	859	873	849
363634	Kctd11	169.98	200.09	224.23	166.41	156.8	211.1	151.7	209.7
29366	Serpine2	2689	3021	2842	2436	2340	2797	2659	2739
116636	Eif4ebp1	161	168	162	116	126	164	125	167
116633	Akap8	951	934	942	864	880	873	915	871

296182	Tmx4	3775	3779	3422	3607	3635	3189	3689	3470
362918	Mtssl	740	746	857	841	740	734	836	743
114553	Ncf1	321.81	345.65	405.04	322.49	341.1	322.6	343	330.89
291309	Usp6nl	1487	1732	1741	1511	1365	1672	1680	1488
316412	Tmem237	707	656	662	578	617	577	713	589
309513	Ppplr3c	253	257	183	256	215	245	226	224
100364568	Rprd2	728.01	701	723	769	747	680	712	662
29721	Hivep2	1103	1264	1346	1449	1245	1234	1337	1134
25439	F2r	928.17	885.21	979.07	975.8	841.3	1000	934.6	837.4
308577	Fuz	271.74	267.25	240.4	257.84	225.1	241.3	248.2	280.12
290447	Mycbp2	4468.8	4485.82	4624.2	5547.6	5033	4262	4644	4403.5
362876	Ppfia2	558.56	551.06	502.66	586.98	583.3	469.3	536.2	520.23
315439	Slc36a4	571.17	540.6	566.96	553.28	557.6	500.9	558.8	523.19
317617	Hdx	25	31	30	36	32	10	45	30
498999	Ahrr	29	38	24	31	31	31	34	21
301674	Fbxo11	1512	1564.97	1503.4	1565.6	1437	1456	1519	1482.42
308602	Tmem86a	79	107	112	93	86	91	102	96
293117	Ankrd42	317	302	308	271	310	280	272	287
300308	LOC300308	115.04	77.58	69.78	101.72	87.46	79.28	84.38	98.11
317612	Htatsf1	748	705	759	747	683	686	754	715
85385	Shc1	2824	2764.63	2939.9	2938.2	2828	2676	2766	2728.48
54705	Pdp1	776	775	700	734	726	694	712	731
290746	Trappc11	977	998	936	1006	902	919	946	990
117087	Stim2	1259	1339	1236	1272	1216	1214	1305	1163
314798	Mettl25	100.26	127.19	102.11	97.1	92.84	101.3	99.46	115.63
116464	Ncoa6	941	966.01	956.5	1173	1012	999.6	950.2	910.16
298186	Ttc39b	645	644	545	694	662	449	675	639
307926	Ccsap	130.99	134	161.48	129.53	142	128.7	123.7	139
310013	Fam169a	527	488	434	540	540	454	471	443
309242	Gna14	2514.8	2325.99	2079.7	2008	2308	2020	2048	2188.65
100151767	Nkapd1	328	363	379	355	340	327	332	368
25227	Arsb	558	501	499	555	461	472	650	444
363460	Fgd1	188	201.88	194.19	223.06	191.1	192	179.5	211.7
171494	Aplg1	1434	1423	1376	1620	1458	1343	1432	1382
114511	Emb	717	633	648	634	676	552	679	618
685619	LOC685619	411.19	353.73	312.79	289.32	310.9	280.1	342.7	377.8
310533	Rapgef2	724	775.99	753	873.99	774	744	785	697
100911664	LOC100911664	3570	3812	3798	3756	3431	3516	3497	3886
286919	Cdk5rap2	430	485	547	435	453	445	508	414
300791	Spg21	967	954	939	862	819	857	943	952
310137	Cplane1	962	990	1020	1147	1045	892	1049	966
308864	Fchsd2	686	638	664	678	648	606	665	638.93
500855	Zfp706	1084	1013	1027	972	943	969	1016	1002
294917	Tnik	978.14	1049	1130.4	1153	1088	955	1003	1090
373066	Ift81	387	347	353	370	347	311	390	350
678774	LOC678774	581	506.86	543.87	461	466	535	511	496
25497	Nup50	682	719	646	696	675	636	686	635
29223	Ak4	73	90	82	101	76	86	59	111
293410	Swap70	720	859	887	848	715	803	900	762
317256	Taf1	1374.6	1356.98	1439.8	1563.1	1431	1158	1487	1426.72
24943	Plp1	10913	12271	12294	11838	9843	11476	12101	11984
499624	Tsc22d2	768.01	751.01	765.01	835	751	724	791	727
298442	Ccdc163	88	96	114	98	97	92	94	97
363171	Tmem42	246	270	261	238	254	230	233	257
58976	Slc30a1	211	215	220	171	212	156	222	194
293829	Mcee	303	307	256	224	246	241	260	299

499328	Rfk	1806	1734	1645	1727	1718	1547	1715	1653
364682	Nhlrc1	84	95	96	72	86	82	81	84
685574	LOC685574	253	271	227	290	248	255	235	261
362256	Snhg11	4387.6	3976.86	3678.7	4070.8	4340	3506	4004	3613.07
363165	Csrnp1	47	47	71	108	58	83	76	45
300985	Parp3	580.02	617.06	724.93	564.9	563.1	654.4	605.6	563.7
295394	Dph5	226	215	217	212	193	190	223	229
79120	Arf4	2475	2547	2595	2435	2205	2337	2580	2526
308939	Ipo7	1734	1770	1757	1881	1688	1570	1889	1708
306357	Gmip	284	322	344	295	283	267	319	326
690806	Smim13	1761.4	1654.94	1424.7	1746.9	1480	1576	1601	1665.9
311372	Spg11	735	719	716	771	687	680	740	716
360647	Icam2	93	88	104	64	84	95	82	74
499593	Sox2	507	532	611	496	512	531	510	507
363160	Stt3b	1010	1017	1067	1150	1049	985	1032	1008
500282	Arl8b	7370	7453	7164	7185	6833	6760	7210	7201
306586	Amt	275	234	261	255	212	246	260	266
500050	Asb15	14	19	22	20	15	12	19	26
288108	Naa50	375.26	367.48	386.7	365.85	382.6	371.8	332.3	348.76
54243	Cr11	1056	1058	1158	1079	1034	992	1112	1039
311279	Ar114ep	835.59	841.29	833.65	824.62	794.5	783.2	804.6	819.46
293067	Zfand6	955	937	880	880	827	836	904	939
362361	Hnrnpa2b1	2420	2359	2412	2494	2304	2191	2542	2261
363287	Hdac4	854	858	855	941	873	870	790	835
294421	Serinc1	20484	19306	18561	18323	17824	17729	19282	18781
297602	Tapbp1	299	328	323	305	236	321	315	333
171139	Timm9	205	191	176	156	168	161	188	182
308789	Ef11	273	294	285	328	263	279	305	286
63996	Smcla	1958	2061	1998	2252	2085	1844	2163	1848
290028	Osgep	140	139	135	114	105	123	152	127
497619	Fut10	81	81	89	101	84	77	94	83
307839	Zfp612	1244	1180	1116	1288	1171	1091	1232	1142
246769	Hint3	230	204	221	200	187	184	227	223
307956	Rbm34	303	349	333.76	291	302	289	302	333
29637	Hmgcs1	17592	18493	16777	16768	15403	15960	16977	18522
360581	Tada2a	314	284	281	279	269	306	275	262
64538	Ilkap	522.61	486.11	422.68	401.02	416.2	429.1	453	461.34
309514	Hectd2	221	266	243	252	212	231	256	244
290280	Xpo4	651.61	621.43	644	748.93	642.2	530.1	695.7	692.1
366192	Fastkd5	176.23	166.2	150.13	157.28	152.5	146.5	172.6	152.55
309891	10-Sep	586	609	569	604	514	518	646	596
307148	Nsun6	105	91	101	81	85	89	96	93
289143	Mrps14	402	427	393	316	364	328	381	404
303175	Hist3h2ba	287.11	258.01	263	189.01	265.5	194	267	231.08
294709	Trappc13	1199	1148	1115	1053	1019	1030	1091	1196
84357	Sh3kbp1	1629.5	1655.25	1603.6	1700.8	1617	1547	1614	1550.71
315423	Cep57	346	306	294	292	272	278	317	322
100363253	Nt5c2	1104.7	1228.04	1047.5	1037.5	1081	1050	1113	999.16
641452	Ube2d2	1279.9	1340.19	1310.3	1242	1103	1262	1297	1305.19
117282	Hnrnpk	6121	6121	6057	6152	5658	5828	6295	5703
312981	Asph	1473.2	1385.42	1498.9	1621.2	1384	1526	1466	1366.55
117272	Prpsap2	799	879	722	712	687	748	764	790
24326	Ednra	225.23	204.13	237.07	237.62	257.1	194.6	182.7	233.94
309172	Frmd8	1775	1844	2081	1768	1726	1945	1716	1786
293454	Ubf1	1008	997	983	938	981	943	963	884
315771	Herc1	3725.9	3871.68	3694.3	4157.6	4359	3129	3714	3638.38

314190	Klhdc1	136	132	125	139	134	126	124	127
116478	Kidins220	6971	6929	6846	7780	7314	6843	6768	6475
296374	Zmynd8	1380.4	1534.59	1533.3	1592.7	1441	1470	1499	1392.56
297093	Cbx3	1571	1545	1513	1456	1355	1396	1571	1523
25533	Rabggtb	846	827	813	788	780	721	790	854
81662	Gnal1	266	289	322	291	307	290	268	257
308291	Phactr2	1469	1444	1679	1836.1	1670	1463	1612	1429.94
316157	Pp2d1	546.72	513.11	520.05	493.19	433.6	478.1	499.2	580.64
81663	Gnal2	3062	3119	3135	3058	2817	2964	2988	3118
171083	Itfgl	6159	6289	5777	5688	5332	5507	6118	6015
291132	Gpld1	282	218	202.01	235	198	243	248.2	211
500837	Helb	317	337	337	306	295	310	345	296
100911928	LOC100911928	6.02	11.16	11.44	11.31	13.17	2.5	6.04	16.65
310773	Cept1	995	886	905	902	859	766	929	989
287834	Recql5	288	275	305	277	283	283	263	271
689844	Maml2	573.13	533.58	525.15	619.25	540	524	568.9	529.73
64678	Tfrc	3388	3560	2868	3551	3129	3129	3281	3303
294643	Lhfp12	839.05	864.05	962.01	810.14	782	715	960	881.72
309400	Cemip2	1013.9	1083.01	1223.8	1285.7	1094	1168	1031	1132.92
100192313	Atxn713b	3373	3308	2986	3279	3139	3054	3267	2978
686234	Mtrf1	254	255	214	220	239	218	229	220
114514	Clasp2	4792	4707	4549	4966	4662	4263	4793	4550
288238	Pigp	644	582	577	466	513	529	532	606
100911537	LOC100911537	0	2.04	0	0	0	1.96	0	0
361726	Sdhaf2	1885	1747	1605	1775	1689	1663	1681	1704
25265	P2ry1	725	670	647	713	681	621	680	665
291737	Ino80c	1109	1070	961	975	919	976	1030	1029
282840	Atf5	2128	2302.13	2112.1	1932.4	2012	2097	1789	2245.1
299138	Six4	1337.3	1243.82	1114.4	1523.7	1298	1269	1320	1128.01
304914	Rabgap11	1965	1779.63	1734.1	1865.5	1957	1450	1954	1695.97
308761	Prc1	84	71	166	63	92	101	97	79
83689	Cd164	7728	7898	7353	7643	7127	7228	7771	7300
689079	Ar115	421.92	406.96	418.73	420.96	385.1	396.8	444.1	377.49
81815	Tpp2	2101	2081	1977	2143	1975	1870	2250	1883
316426	Spats21	468	416	435	475	402	376	487	459
305826	Samd4a	82	105	135	114	94	114	108	103
362426	Bms1	649	601	636	628	618	608	592	598
171329	Usp15	1534	1547	1532	1699	1585	1368	1589	1524
362115	Fam129b	1527	1540.49	1628.1	1601	1568	1690	1341	1451.9
29468	Pdia3	7365.6	7611.5	7822.8	7653.6	6776	7071	7909	7511.6
288309	N6amt1	116	100	107	88	101	109	99	86
310630	Sema4a	168	157	192	151	135	169	172	166
500913	Shisall	1614	1575.01	1468	1548	1521	1487	1225	1729.85
316524	Zfp142	994.44	954.03	1033.1	1083.3	948.3	1066	953.6	938.83
684998	LOC684998	206	227	227	240	243	192	235	195
252891	Sral	450	403	383	333	346	408	393	361
361074	Slc25a30	405	401	422	448	450	387	408	366
29719	Kcnj16	24.94	21.21	8.01	25	34.06	7.06	21.02	13.95
25635	Mc4r	33	28	43	25	38	36	16	34
287716	Psme3	1875.3	1811.66	1752.7	1672.3	1907	1751	1621	1557.63
103690404	NEWGENE_1310847	107.5	75.83	96.25	96.83	92.9	86.39	97.56	84.99
316611	Agap1	1779	1916	2133	2053	1968	1917	1889	1802
303614	Smurf2	705	701	731	759	616	685	772	711
685695	MacroD2	513	577	443	510	507	480	512	465
685834	Znf740	920.96	745.04	827.03	791.71	805	816.5	817.5	718.81
363487	RGD1566265	195	216	201	216	195	172	233	196

290994	Lman2	636	654	676	648	600	670	615	628
680717	Zfp703	344	351	407	451	344	445	341	363
103693620	LOC103693620	16.92	22.54	26.65	18.63	19	24.24	22.55	15.68
305070	Tmem206	292	239	251	229	236	247	239	250
502994	Pramef8	94	96	78	95	77	76	97	99
302969	Srrm2	9105.5	8511.51	9806.9	10719	9668	9247	9385	8372.09
102551095	LOC102551095	218	212	189	185	172	172	192	237
307855	Fa2h	1876	2351	1933	1933	1397	2270	1729	2385
302313	Tspan6	585	543	581	496	495	482	550	593
363661	Mrm1	237.53	237	227	228	195.5	272	223.3	203
314718	Actr6	658	560	496	519	519	499	551	578
299116	Sav1	613	542	552	578	494	566	573	564
100362640	Rps4x	5387	5096	5370	4097	4544	4494	4893	5251
363229	Slc39a10	1426.2	1418.51	1273.4	1597.6	1379	1329	1498	1288.63
317508	Map7d2	8313	7866	7767	8540	8790	6925	8271	7250
289822	Cep68	799.8	877.34	883.37	829.97	788.5	855.4	816.7	799.52
689788	Prdm5	44	24	38	50	31	44	46	29
288239	Ripply3	11	4	6	5	14	4	5	2
500907	Rps19bp1	98	108	92	92	111	71	103	90
686075	Gapt	19	10	17	6	14	13	9	14
100361513	Gcc1	312.65	333.14	280.14	290.88	278.5	300	300.6	290.87
108350839	LOC108350839	160.95	194.63	182.45	173.04	175.9	176.5	172.1	159.29
100302453	Mettl9	965	976	1038	821	821	861	927	1045
307398	Arhgef37	501	436	425	462	369	485	451	449
360715	Boc	446	329	464	533	424	397	426	457
500430	Ankrd6	416	443	442	445	405	413	421	440
313825	Vps13d	1995	1975	1899	2343	2185	1913	1925	1874
25399	Cacna2d1	3383	3108	3413	3249	3396	2881	3321	3051
117152	Cand1	3068	3079	2982	3325	3158	2745	3119	2955
81641	Anpep	158	150	199	198	144	195	174	165
297783	Mybl1	159	168	214	165	190	166	176	147
362906	Nudcd1	401	405	382	434	384	349	398	429
498934	Lsm6	86.3	54.13	72.02	61.46	73.23	63.09	75.65	51.47
493810	Capza2	3340.9	3393	3458	3018	3054	2992	3321	3338
289168	Kifap3	7281	7341	7129	7213	7145	6638	7333	6741
362573	Szt2	836	787	847	959	841	831	810	816
29700	Pcbd1	608	633	571	544	553	532	537	644
362828	Spp12b	902	872	883	826	826	915	852	757
192129	Vmp1	1769	1900	1735	1697	1724	1577	1745	1784
363194	Xpo5	669	701	712	749	634	710	700	679
298643	Miip	121.17	159.49	157.61	156.01	108.8	182.5	129.2	151.17
84496	Stau1	1353	1356	1470	1405	1381	1350	1363	1277
25482	Mras	1150	1296	1266	1323	1133	1202	1180	1328
286906	Pdia6	2648.2	2656.88	3039.4	2818.7	2510	2608	2870	2750.24
303476	Abi3	16	32	33	24	24	29	26	22
289382	Ints7	383.83	382.21	449.24	410.38	402.9	394.8	383.2	382.85
308843	Tsku	131	108	119	141	112	136	117	115
500006	Pex1	432	479	466	462	452	413	474	430
303592	Tlk2	981.01	951	914	966	925	876	938	928
24511	Itgb1	7390.4	7710.13	7884.5	7465	6657	7473	8231	6931.34
288731	Pgam5	399	399	387	341	345	351	394	378
117553	Uba3	2126	2092	2175	2080	1887	1949	2202	2113
499067	Smim17	984	1006	849	898	851	791	1037	916
303010	Cpeb4	1883	1772	1772	1944	1821	1641	1941	1688
102549506	LOC102549506	41	36	39	42	36	40	31	45
363783	Zdhhc23	56	52	55	74	50	61	55	62

140926	Daxx	442	374	461	407.98	372	408	419	422
116456	Dnajc2	690	720	728	707	696	722	643	676
81738	Nup98	777	826	901	974	835	866	860	785
289350	Rab3gap2	1567.3	1572.56	1617.4	1810.2	1653	1452	1663	1549.76
29728	Mcm4	365	294	374	339	362	337	316	305
364605	Sgcz	29	33	32	38	41	27	25	34
246046	Lmbrd1	2634	2379	2318	2309	2271	2372	2540	2092
314743	Cdk17	476.65	518.63	495.43	530.31	485.2	486.5	530	442.78
685545	Mcrip2	52	55	37	41	37	41	54	46
497954	Ovca2	237.42	218.47	193.11	218.77	209	203.3	208.3	214.34
287126	Mrps34	385	487	357	384	377	354	409	412
311911	Rabgap1	1676.6	1747.99	1814.9	1783.1	1817	1540	1761	1639.23
84491	Qsox1	806	803	819	878	815	837	756	773
310288	Hps3	634.9	586.85	589.3	645.72	564.8	565.5	629.1	604.39
102548459	LOC102548459	37.04	37.7	36.27	49.34	41.26	32.1	47.75	33.18
25594	Ppplcb	4259	4275	4073	4153	3910	3995	4126	4096
499014	Zdhhc14	506.99	541.97	496.43	449.68	434.8	537.9	506	441.01
116683	Efna5	639	688	643	735	653	649	640	661
79559	Alcam	3196	3169	3218	3465	3299	2837	3403	3017
362612	Srsf4	732	671	746	689	615	715	713	688
287543	Tnfaip1	1770.4	1722.06	1863.5	1794.4	1612	1710	1794	1764.7
24831	Thrb	198.87	208.9	199.16	214	197	203	193	197
116600	Cacnb2	87.18	72.71	77.65	80.88	74.41	80.65	82.4	69
54241	Cltc	18916	18782	17887	20364	18636	17513	19843	17105
309331	Uhrf2	873	884	832	873	811	746	904	871
289632	Pgm2	427	398	371	323	341	355	387	379
294774	Ttc33	949	950	852	1008	918	839	894	967
140923	Bnip3l	3247	3158	2995	2921	2913	2871	3014	3061
502020	Lrch1	384	471	419	429	387	384	445	423.15
361181	Cul4a	1235	1270	1233	1251	1200	1158	1250	1194
25406	Cd44	2915	2994	3494	2845	3003	2864	3050	2872
89821	Trpc1	738.63	704.43	598.51	734.37	693.1	627.5	670.9	680.44
309098	Tubgcp2	1085	1187	1188	1260.5	1280	1159	1121	983.32
499339	Pum3	628	590	638	658	605	597	650	568
291464	Snx2	1704	1705	1626	1518	1474	1505	1646	1683
171136	Cblb	874	832	884	968	887	788	885	865
83825	Dclk1	2918	3149	3451	3270	3057	3098	3203	2952
289900	Fam149b1	712	693	710	614	594	679	660	694
306809	Bicd2	2511	2467	2556	2689	2522	2453	2423	2443
366065	Cers6	200	190	204	236	265	153	182	199
89820	Prmt3	557	608	550	561	578	512	558	543
313061	Virma	637	606	647	712	624	619	683	579
304337	Zfp68	1087	1070	1009	1074	992	908	1102	1080
366381	Cdc26	484	499	470	453	452	418	464	501
360745	Lztrl	1644	1605	1551	1670	1493	1626	1548	1562
364052	Pea15	17244	17971	17028	16115	14261	16606	16338	18607
114487	Wnt2	58	48	42	40	43	37	60	41
500625	Atad2b	28	52	51	57	46	30	58	47
362156	Zdhhc5	1231.3	1240.72	1313.9	1315.5	1203	1179	1256	1272.69
24908	Dnajb9	1061.1	1054	1108	1078	1123	919	1138	961
286970	Abca5	1672	1562	1604	1909	1733	1430	1817	1516
499891	RGD1565616	1320	1462	1528	1604	1284	1257	1598	1555
287773	Helz	544	548	570	677	630	517	552	553
654482	Cfap300	102	145	116	121	103	106	143	114
117513	Sec22a	209	198	210	190	182	190	202	203
290997	Uimc1	397	442	407	395	395	414	390	381

366698	Adck1	134	135	142	155	169	128	130	118
297865	Dsel	406	384	418	438	390	359	389	447
312199	Klhdc10	2317	2476	2227	2371	2276	2268	2269	2230
81745	Pdpk1	3299.1	3394.34	3156.3	3496	3508	2973	3283	3087.22
317407	Bhlhb9	703.68	763.64	711.15	675.95	649.4	637.1	768	694.21
25044	Sds	26	27	27	28	31	26	27	20
304299	Radi1	187	218	213	219	189	215	202	200
54319	Ezr	920	926	1073	1025	791	998	987	1022
29215	Arg2	378	343	301	302	324	276	346	329
300963	Cep63	227	263	252	285	241	222	262	264
305021	Sccpdh	2058	2244.64	2055.7	1976.1	1790	2012	2088	2135.22
117257	Gpr176	344	357	325	353	318	322	310	378
500244	Aak1	4091.6	4170	4040	4905.9	4201	4055	4341	3974.67
245922	Nup58	502	542	453	586	556	443	508	499
102550577	LOC102550577	2.5	3.51	5.85	3.56	4.95	2.42	6.22	1.26
363521	Taz	345	323	309	322	310	302	321	318
298936	Sntg2	24	27	28.99	28	24	23	24	33
306038	Enox1	548	560	504	582	527	529	564	493
290805	Wrn	472.29	467.79	486.45	548.61	479.3	458.4	493.6	470.93
306262	Btd	520	441	440	469	437	479	444	441
24962	Cth	54.96	57.69	98.29	59.06	47.89	55.06	93	64.09
366593	Dus4l	60	56	58	43	38	59	51	61
313413	Sgip1	1484	1457	1496	1615	1531	1406	1530	1362
29284	Rps14	2969.9	2874.31	2703.2	2091.9	2547	2329	2439	2932.59
288908	Cc2d1a	788	711	851	748	745	759	755	725
313067	Tmem67	286	280	278	299	247	278	296	280
311362	Frmd5	255	248	252	252	221	237	276	236
498119	Spidr	100	73	78	103	79	75	105	82
360932	Atp10d	182	188	253	222	218	179	226	191
294715	Rgs7bp	6889.9	6461.05	6565	7684	6811	6356	6937	6483.89
363284	Ube2f	550	502	459	509	450	436	532	528
84599	Tmed10	1809	1993	2081	1847	1693	1863	1951	1940
305586	Papolg	295	284	308	288	321	265	255	291
361760	Cutc	153	139	151	131	124	134	143	152
171086	Trak2	2622	2782	2973	2970	2564	2833	2797	2738
367236	Col19a1	221	155	191	226	252	180	214	118
361508	Mzfl	256	241	220	213	214	224	230	228
683687	Snx9	431	396	435	434	403	445	412	374
308519	Dpy1913	472.02	514.96	568.54	612.3	472.1	522.6	548.8	545.19
307217	Tshz1	530	554	604	585	531	584	557	518
307643	Usb1	236	213	196	204	196	179	211	232
25340	Npy5r	137	89	52	51	76	45	129	67
116645	Plaa	1487	1351	1318	1383	1321	1267	1497	1252
291877	Nudt21	1507	1498	1395	1391	1385	1344	1450	1401
287931	Ppm1f	1902	1906	1776	1719	1725	1756	1845	1711
25130	Stx2	1273	1377	1277	1211	1311	1187	1179	1274
317486	RGD1565844	12	13	14	16	17	18	9	9
688613	LOC688613	88	108	64	70	44	84	73	117
690297	Pwp2	331	311	320	276	287	296	328	282
361624	Akip1	175.78	174.89	167.43	136.03	141.2	121.6	177.3	190.27
315496	Dpy1911	965	1040	1150	1084	988	1022	1040	1035
360991	Vrk2	30.36	24.08	38.73	18.87	22.59	17.07	32.68	35.63
311430	Mavs	477	487	486	505	515	475	459	435
548106	Pcdhb19	85.62	102.75	89.28	73.22	90.8	89.26	90.83	67.24
24650	Pkd1	2901	2841	2768	3030	2953	2990	2677	2501
499407	LOC499407	19.17	14.75	16.7	18.24	16.46	17.25	14.59	18.06

361295	Ss18	739	716	814	761	624	764	792	740
100910088	LOC100910088	154	191	178	166	140	166	197	161
299923	Ndrgr1	10927	11938	11021	11645	9297	12064	10409	12109
363135	Rad5412	302.74	307.02	286.73	349.62	329	292.9	287.9	291.08
24624	Pccb	638	610	572	578	506	587	584	634
192235	Hyou1	1609	1783	2030	2132	1769	1914	1850	1747
29374	Cct4	3451	3264	3188	3000	3075	2911	3226	3223
288150	Mtx2	765.05	758.58	691.72	585.27	647.4	628.4	705.1	718.19
691729	Spata5l1	70.09	58.94	67.95	62.62	72.33	52.42	58.51	66.93
108348145	LOC108348145	159.29	89	186.92	128.04	110.1	115	156.8	160.99
311546	Tpx2	101	85	145	83	115	103	90	91
306516	Gtf2e2	483.04	450.28	427.86	397.84	393.7	386.7	445.9	469.03
114114	Dnm1l	5636.8	5349.22	5253.8	5635.5	5324	4820	5771	5168.81
314212	Daam1	1038	1011	974	1092	1116	920	1010	920
316552	Rnf1112	1397.5	1384.81	1360.3	1317.6	1237	1283	1316	1426.22
295143	Etfdh	862	736	754	770	669	693	853	794
361070	Xpo7	1598	1601	1619	1574	1523	1473	1683	1482
362766	Alkbh1	297.58	264.32	324.01	261.59	276.8	231.4	287.3	310.5
291034	Mcurl	191	172	164	165	177	152	155	183
304817	Ipo9	1573.5	1563.1	1661.7	1739.7	1529	1623	1607	1543.52
140932	Bnip1	228	218	230	183	172	219	223	214
681023	Qsox2	449.24	511.1	488.81	471.67	489.8	432.8	456.9	472.05
365793	Rab33b	689	636	599	573	548	584	624	651
362204	Casc4	2081	2005.02	1921	2134.2	2052	1745	2182	1869
103691376	LOC103691376	21.74	19.59	20.22	11.15	16.66	11.99	19.3	22.13
29185	Cd37	124	101	140	79	128	110	83	107
299957	Nsmce2	285	285	303	266	277	248	276	297
291914	Cnep1r1	464	477	459	463	449	407	488	452
680945	Sdf2l1	140	166	209	177	161	146.1	158	202
29507	Cox7a2	2138.6	1584.68	1412.6	1298.9	1460	1289	1493	1961.88
64189	Pafah1b2	4428	4476	4077	4163	4075	4048	4251	4154
83536	Mkln1	1123	1086	1082	1052	1069	936	1076	1106
293570	Abraxas2	845	926	864	845	802	810	887	856
108351581	LOC108351581	157.03	163.42	202.81	140.46	152.4	146.9	164.9	175.69
294988	Ankrd50	1272	1459	1388	1513	1343	1309	1445	1333
296302	Eif2s2	1885	1854	1831	1685	1717	1654	1818	1806
304941	Pogk	1536.7	1492.67	1498.7	1594.9	1486	1382	1503	1531.88
65209	Dync2h1	333.63	367.64	415	355	372.1	302.8	263.1	480.69
363513	Ids	7479	7768	7707	8210	7907	7064	7755	7322
365057	Map3k5	378	365	377	389	378	339	361	377
689142	Snx29	613	623	652	714	699	605	571	634
79426	Zfp36	500	457	436	1182	573	664	756	490
100361294	Tyk2	439.04	459.04	483.17	394.52	449.2	454.4	396.7	412
108353146	LOC108353146	7	6	5	10	8	5	6	8
353250	Niacr1	4	8	6	10	6	8	5	8
366518	Tnfrsf14	25.86	20.11	33.82	19.68	26.32	23.37	24.91	21.32
691209	Slc12a6	1440.8	1538.07	1463.4	1623.4	1457	1419	1520	1453.14
288734	Chfr	886	832	792	799	811	732	865	783
295384	Prmt6	274.88	243.02	210.88	251.42	223	216.2	233.3	272.74
309167	Pcnx3	962	925	1059	1009	982	998	951	883
290627	Use1	1086	920	885	812	949	805	891	926
25288	Acs1l	1630	1664	1496	1665	1472	1628	1577	1548
360557	Nlrpla	143.4	109.09	135.29	105.05	129.8	110.4	109.7	125.47
291057	Eef1e1	483	508	408	371	429	379	423	476
102553442	LOC102553442	1.6	1.2	1.17	3.62	0	1.34	5.98	0
498160	Zkscan1	410	440	412	481	485	362	431	403

353307	Slc29a3	219	251	243	271	238	228	238	245
65156	Dhodh	128	143	105	102	102	101	129	129
103691238	LOC103691238	61.67	76.33	83.84	78.75	76.4	72.8	72.36	68.35
306096	Dach1	190	204	156	210	166	213	196	158
102556057	LOC102556057	27.65	26.15	34.44	36.54	26.4	29.75	30.61	33.59
364981	Scoc	4789	4925	4451	4321	4423	4395	4458	4554
290651	Isyna1	653	516	627	657	578	601	592	595
365527	RT1-M6-2	23.61	19.92	26.77	42.99	31.3	23.41	29.05	25.52
83792	Scd2	65803	74877.6	65424	78275	64543	71347	65619	72807.55
290232	Tinf2	376.64	335.67	389.83	353.98	336	323.9	377.7	367.05
362685	Gpatch11	923.52	881.44	885.73	864.94	922.5	780.8	838.9	887.76
300836	Fam214a	488	485	516	519	478	535	497	427
304218	Pds5b	1835	1901	1738	1997	1927	1674	1893	1713
500419	Rmdn1	253	265	289	242	236	271	246	259
84391	Kif2a	1875.5	1983.01	1958.8	2148.5	1950	1873	1949	1912.56
312651	Ift122	461	476	504	431	375	465	497	469
498489	Naa30	686	734	597	679	664	612	668	657
64846	Slc13a3	740	688	688	694	618	669	679	745
313385	Kank4	1781	1945	1687	2098	1634	1973	1877	1763
500288	Thumpd3	885	772	821	823	772	711	855	847
81512	Cnmd	2613.1	3367.12	2230.5	2476.2	2150	2659	2937	2564.49
170851	Map2k1	2182	2208	2341	2068	2179	2125	2137	2049
296851	Pon2	1910	1767	1849	1452	1504	1752	1838	1639
24356	Ets1	395.24	381.01	477.34	398.38	441.8	409.5	346.3	396.43
303274	Phf12	512	542	596	515	536	540	531	482
362295	Lmbr1	336	326	333	287	311	301	302	323
64471	Plekhb1	8434	9281	9191	7911	6587	8617	8737	9654
81803	Stx4	653.06	584.24	635.31	585.51	568.6	570.2	634.7	598.46
680778	Rt14	105	103	101	90	89	89	103	104
362495	Ndufaf4	347	373	363	371	313	330	392	368
64442	St3gal2	1540	1524	1430	1465	1411	1564	1370	1405
309532	Atad1	2203.3	2047.28	2023.2	2070.5	1977	1908	2109	2058.19
303606	Ccdc47	4787	4655	4519	4667	4619	4332	4670	4354
315330	Esp11	33.38	55	62.37	41.81	47.44	48.31	53.37	36.69
287766	Cep95	206.41	194.44	250.5	220.2	193.1	193.2	243.4	211.39
498030	Anapc11	726.41	699.19	649.06	586.72	631.9	607.4	694.8	633.99
360953	Stx18	682	734	648	648	624	626	679	688
500040	Tes	1004	1009	1077	964	1036	908	1036	932
246142	Bmf	169	189	183	173	156	186	183	164
307548	Dtna	1100.3	1080.24	945.7	1142.2	1019	1032	1004	1064.47
246294	Optn	2816	2910	2643	2860	2704	2751	2796	2585
302290	Ap3s1	1633	1596.12	1666.6	1470.1	1467	1417	1579	1680.71
100361891	Rab5a11	2232.4	2116.41	2082.5	1961.5	1928	1886	2183	2102.06
84593	Cetn2	868	968	949	768	754	804	880	991
288124	Nectin3	592	611	643	590	605	509	673	564
690254	Polr3gl	136	161	162	143	147	137	151	146
362617	Ahdcl	554.86	530	649.01	707	596	613	583.6	563.09
100910768	LOC100910768	2741.6	2606.92	2460.3	2407.7	2440	2450	2373	2596.61
498003	Dusp3	4814.5	4695.28	4715.3	4452.9	4723	4486	4572	4245.48
83724	Ncoa2	1192.5	1196.25	1168.1	1452.3	1424	1053	1193	1163.4
303915	Iqcb1	359	321	250	333	298	253	348	320
361857	Traf3ip2	371.08	366.19	382.85	354.24	325.8	358.3	362.2	376.74
24651	Pklr	37.5	39.44	57.53	44.01	47.95	43.13	37.66	43.53
362636	Usp48	1727.3	1723.07	1666.1	1770.6	1736	1578	1730	1603.78
192272	Acot2	376.29	346.87	370.82	376.95	366.3	356.8	323	373.61
89825	Nap111	7324.9	7123.82	6288.3	7229.7	6603	6487	7063	6840.86

171138	Kcne2	31	46	47.98	18	31	44.04	32.99	29.98
314228	Snapc1	199	178	210	190	179	187	199	185
498941	Fbxl8	71	58	70	60	53	85	57	55
361674	Eps812	61	82	67	78	56	68	79	75
361645	Nsmce1	384	414	338	304	337	345	340	368
308322	Zim1	17	16.02	26	28	20	24	18	22
304005	Nfkbiz	53	44	50	84	54	57	69	43
308971	Tnrc6a	1543	1505	1492	1684	1570	1555	1571	1312.11
303238	Ctcl	832	947	904	1015	825	940	884	921
362277	Rnf114	892	850	855	841	805	866	794	854
24674	Ppp3ca	6468	5946.99	6620	6418	6864	6039	6198	5470.99
108349548	LOC108349548	406.1	369.81	387.93	280.42	303.1	337	366.3	387.87
191569	Pde9a	104	109	120	101	119	91	98	111
503252	Coa5	1730.5	1801.63	1761.6	1866.1	1788	1745	1740	1639.26
304176	MGC95208	192	213	216	161	185	174	191	205
362545	Tm2d1	1043	907.91	924.92	813.06	879	849	931	902.57
362530	Akna	231	216	260	221	213	231	229	223
312790	Gprc5a	12	10	17	19	12	8	26	10
307526	Ammecr11	731	755	737	796	644	756	785	730
252853	Stx17	433	476.44	501.52	504.36	478.7	485	475.4	410.24
100361660	Zfp617	102	86.02	72.04	84.01	77	83.01	75.04	97.17
685707	Nav1	4664.4	4804.7	5349	5943.9	5322	4924	4793	5008.54
289992	Fermt2	3620	3649	3759	3791	3159	3540	3963	3647
500651	Sptssa	798	728	719	661	634	633	743	796
116599	Blvra	620	605	519	494	545	479	545	592
103689959	Armh3	693	715	700	683	658	648	708	681
310652	Tdrkh	1135	1099	1068	1094	1049	1088	1094	1014
319110	Hnrnpr	905	844	846	870	854	752	956	784
307200	Socs6	241.48	221.55	215.35	243.27	233.6	204.7	234.9	216.83
252895	Pcdhga9	90.53	103.46	158.99	123.52	125.5	140.1	85.69	108.94
361065	Bin3	453	439	394	378	366	380	452	409
24640	Pfkfb2	816.1	772.46	710.16	705.91	768.6	711	715.9	706.24
100909824	LOC100909824	141.98	124.52	88.13	112.88	143.6	86.53	90.18	131.17
362197	Mapkbp1	389.4	394.98	406.25	395.89	407.1	396.1	384.2	344.9
100911685	LOC100911685	206.74	218.41	633.89	174.73	311.9	222.7	484.2	172.72
191574	Akr1c14	127	89	100	123	80	113	129	102
361692	Nudt8	118	128	99	94	104	106	90	124
24390	B4galt1	264	233	307	279	249	279	255	263
84430	Pomt1	326	340	384	327	325	375	329	301
103689968	LOC103689968	3124.1	2902.36	2854.2	2915.3	3002	2812	2758	2821.93
24499	Il6r	166	195	212	160	178	202	187	141
64018	Slc33a1	618	671	554	591	589	596	565	601
298841	Atraid	360	418	435	283	330	365	349	401
192361	Ppp1r2	10049	9534	9310	8815	8843	8548	9251	9781
683923	Bend3	103.83	108.06	134.64	96.36	98.88	108.2	106.2	114.57
287522	Smg6	412	452.61	459	504.73	427.5	438	429.8	470.75
679890	Gpkow	713.63	687.85	681.23	661.04	638.6	637.4	699.6	674.67
692032	Mzt1	426	400	436	443	392	378	396	481
29424	Htt	2171.1	2205.65	2182.7	2646.2	2340	2105	2220	2228.02
684934	Ccdc9	642	641	731	692	627	626	694	667
290551	Chdh	409	398	386	455	382	385	426	399
305853	Rab2b	2365	2199	2275	2144	2240	2068	2133	2237
310200	Ankrd33b	27	18	48	25	26	25	31	32
690911	Spen	875	889	992	1140	1019	964	900	881
315722	Adpgk	426.99	445.51	417.15	365.87	376	377.3	428.9	417.32
316557	Rhbdd1	232	254	278	270	223	266	277	233

362567	Pomgnt1	1178	1200	1255	1097	1033	1211	1148	1178
303753	Foxk2	946	949	974	1009	968	961	905	913
364033	Vamp4	2757	2588	2421	2364	2443	2246	2589	2510
84473	Ddx20	333	278	364	299	297	284	304	346
56785	Ralgap1	2116	2073	2287	2265	2096	1872	2353	2125
252892	Lgil	1082	1192	1048	1098	1059	932	1139	1141
307382	Napg	3002	2892	2616	2844	2712	2625	2878	2757
305865	Slc35f4	89	77	105	56	87	62	88	79
311846	Lrrc8a	2245	2378	2451	2381.7	2521	2358	2354	1905
303678	Caskin2	1813	2085	1904	1812	1585	1979	1732	2062
362886	Rassf3	289	315	347	329	276	363	304	294
299732	Lta4h	835	998	896	903	853	885	928	844
361980	Khdc4	560	576	590	567	490	567	623	536
362212	Tmem87b	1760	1728	1720	1672	1678	1546	1713	1712
84580	Hdac5	982	927	971	903	916	935	877	928
24913	Pla2g16	1008	1299	1145	930	868	1110	1133	1124
691814	Mrpl57	470.13	487.46	449.38	418.99	508.6	402	394.1	460.1
362286	Dido1	887.51	834.38	862.36	969.21	826.3	834.5	854.5	919.19
292097	Arv1	261	277	248	229	247	231	262	241
116459	Serpini1	1176	1035	1056	1002	1065	944	1140	977
24791	Sparc	37164	42629	46640	40069	34454	45132	41313	40026
680068	Dmrtclb	192.83	152.02	170.75	128.27	155	147.4	174.9	144.98
94273	Mgat2	527	542	597	458	492	494	543	524
266681	Tmprss5	3598	3446	3466	3166	3238	3361	3430	3190
60670	Fut4	101	104	148	96	83	116	117	118
499280	Mapklip1	524	493	487	472	472	448	473	517
360702	Ttc3	8241	8317	8470	9558	8842	7647	8618	8324
679532	Elovl1	2558	2547	2482	2417	2073	2449	2609	2539
500413	Triqk	494	548	471	434	492	398	481	511
303519	Krt25	28.79	28.69	35.95	37.83	33.13	36.4	34	23.35
89826	Rpe65	32.23	40.07	20.49	18.1	26.33	28.22	26.61	26.03
304794	Rbbp5	849	818	804	827	813	763	841	771
310879	Alpk1	345	307	309	360	316	268	377	316
291133	Aldh5a1	654	646	567	626	631	593	606	580
171116	Opal	3892	4095	3789	4118	3886	3674	4175	3630
155173	Sdf4	1899	1787	1712	1693	1614	1636	1809	1796
309454	Mfsd13a	290	274	292	256	261	262	239	313
64202	Calr	7515	7827	9729	9567	8254	8794	8316	8123
25054	Ntrk2	6448.5	6170.73	5943.5	7106.7	6327	6204	6363	5922
64830	Unc13b	153	145	171	163	154	141	163	153
103693024	Zfp558	64.2	49.28	54.38	64.81	64.32	40.84	55.95	63.83
289560	Igfbp7	3982.5	3287.79	4233.5	4054.1	3554	3355	3910	4222.9
312890	Gdap1	2881	2693.96	2329	2769.1	2614	2263	2768	2674
292898	Pih1d1	234.95	197.51	199.07	188.12	206.1	192	212.7	181.7
498014	RGD1565033	429	482	447	424	397	383	472	471
292811	Cep89	197	200	200	159	177	185	185	184
102550026	LOC102550026	150.05	135.32	177.72	96.18	151.4	147.5	120.1	121.77
291145	Hist1hla	8.02	13.01	5.01	3	4.01	2.01	12.03	10.03
108352464	LOC108352464	79	40	64	59	59	52	81	42
362635	Zbtb40	354	362.01	348	418	357	395	342	339
297381	Wbp1	738.95	282.56	374.17	367.32	474.9	569.9	461.3	198.71
81522	Mtr	334	373	335	442	378	323	387	347
292820	Zfp536	260	324	324	334	301	264	328	308
171402	Elovl6	18.38	8.03	30.78	54.04	36.15	12.26	29.1	30.05
315714	Loxl1	193.07	201	310.6	166	232.4	205.5	231	173
192357	Gmpr2	607.76	595.67	550.88	517.71	524.7	520	552.7	599.63

290234	Dhrs1	350	318	342	324	312	339	344	295
266758	Sec11c	841	756	653	632	590	616	751	830
312270	RGD1563986	115	118	136	147	133	114	114	138
307236	Adnp2	328	362	342	395	342	354	347	337
365382	Inpp5a	392	409	429	380	330	405	392	430
689092	Gcnt6	13.24	8.23	14.3	20.44	17.36	7.1	17.57	12.33
29670	Psma3	3143.6	3166.3	3018.1	2744.3	2793	2748	2977	3157.71
25145	Cd24	2929	2535	2236	2249	2543	2287	2234	2558
305424	Fbxl5	1094	1057	970	988	906	982	1078	1008
100362805	Txndc5	1344	1469	1635	1431	1314	1445	1508	1419
295975	Eif3m	1473	1428	1462	1212	1329	1177	1390	1496
689364	Chmp1b	879	893	929	772	815	836	885	823
64001	Cyb5a	1440	1461	1394	1160	1065	1283	1426	1502
362980	Tubgcp6	363.79	366.28	358.4	378.04	337.5	385.5	324.8	370.61
303554	Nbr1	2813	2993	2940	3018	2741	2753	2984	2900
304091	I110rb	386	355	394	329	327	331	367	391
65151	Rida	372	371	374	349	308	373	330	407
315222	Arsa	817	866	898	781	731	901	820	800
287110	Tbc1d24	266	244	235	264	260	241	233	242
363452	Otud5	1624	1527	1560	1468	1454	1440	1598	1485
501005	Cplx3	15.11	12.49	18.48	17.61	23.03	14.28	14.21	10.09
680264	Catsperd	60	53	72	60	51	60	63	63
680354	Tceal9	1169	1124	1155	1058	982	991	1128	1258
171069	Usmg5	1451.7	1236.39	1093.2	1114.7	1124	1049	1169	1394.51
307075	Wdr37	1122.1	1135.19	1043.1	1153.1	1114	980	1135	1079.02
60383	Rbck1	1022	1014	1046	999	948	999	1017	984
290645	Mpv1712	143	145	154	111	140	114	126	155
690344	Uqcc3	261	228	221	181	203	197	215	247
296178	Mcm8	100	79	80	79	80	88	83	76
60582	I11rn	25.01	25.04	37.31	22.37	32.69	30.63	27.22	15.62
292710	Ethe1	279	324	281	254	278	282	282	259
290831	Nsd3	1206.4	1142.08	1288	1322.3	1205	1110	1285	1197.47
116641	Lgals8	3931.4	3755.83	3408.2	3616.1	3450	3339	3764	3681.6
450235	Adgre4	27	23	29	32	26	23	31.4	27
307039	Rab18	2556	2520	2418	2281	2359	2112	2449	2538
311341	Pla2g4b	298.96	280.77	303.27	225.41	226.3	287.6	255.3	303.24
140674	Gabrg1	1695	1632	1224	1805	1454	1460	1567	1669
365355	Rras2	332	328	297	278	283	234	354	324
361685	Tnfrsf26	28	43.35	31	28.9	37	38	28	24
64554	Slc7a2	341.74	348	325.22	455.43	357.2	293.7	388.9	383
498420	Etaal	109.21	107.47	134.09	113.43	139.1	86.66	134	89.43
100359595	Tbc1d32	221	244	239	285	251	199	293	214
308850	Klh135	45.29	70.55	78.83	48.72	58.61	43.26	66.1	67.55
301555	Cul3	2827	2824	2831	2746	2533	2716	2932	2684
691556	Zbtb42	207.57	197.36	210.77	192.85	175.7	195.2	191	220.56
317399	Ddx21	895.31	868.38	923.91	910.17	798.2	852.9	962.6	867.8
685814	Cnpy2	617	502.04	578.51	444.03	459.1	485	547.3	581
362394	Isyl	198	176	186	152	159	164	187	179
103691872	LOC103691872	795.46	789.71	687.49	782.89	778.2	663.2	779.9	735.56
310178	Myo10	850	886	951	1153	990	898	913	915
83788	9-Sep	1978.4	2165.77	2488.2	2195.8	1963	2154	2287	2138.75
689414	Slc25a42	490	431	398	416	439	423	416	401
170577	Mark3	1136	1197	1119	1074	1051	1122	1178	1029
294072	Slc35g1	9	7	7	8	9	4	8	9
316022	Trank1	21	13	13	15	11	13	19	17
266809	Sc1t1	143	126	151	138	122	130	147	141

299909	Fam49b	1293	1263	1211	1162	1084	1236	1294	1156
100912748	LOC100912748	26.04	27.45	21.07	28.13	17.69	23.07	32.28	26.34
362416	Rpusd3	296.69	381.05	345.05	264.75	293	323.7	326.8	302.52
362288	Rtel1	1116	975	1024	950	937	1022	1045	930
361775	Trub1	252	241	228	210	251	209	238	203
362178	Cstf3	299	333	305	337	326	282	309	316
310341	Fat4	123.11	133.94	171.82	204.37	147.5	133.9	143.4	188.05
287622	Tom111	616.86	614.3	570.88	510.26	542.6	538.3	584.2	572.81
291293	Fbh1	1741	1683	1686	1640	1581	1557	1690	1705
303135	8-Sep	4312	4550	4499	4630	3999	4480	4683	4251
362273	Cse11	1780	1773	1662	1703	1565	1614	1884	1633
108348139	LOC108348139	7.66	5.44	2.82	9.05	8.37	4.4	6.64	4.76
81718	Cdo1	493	459	346	606	422	524	469	428
306129	Fbx13	1329	1243	1223	1171	1198	1134	1284	1191
50678	Pde3a	148.35	114.36	142.69	145.02	125.2	130.8	173	103.85
100910506	LOC100910506	1057.8	1017.01	1076.3	1020	1055	983.4	1065	934.61
361176	Upf3a	614	521	552	470	496	504	544	544
684441	Pin4	413	357	377	354	380	319	335	419
310698	Dclk2	1883	1909	2094	1996	1924	2020	1998	1688
309165	Rela	722	795	878	733	696	794	751	787
361092	Stk24	646.77	655.85	604.56	729.87	646.3	616.2	655.4	634.85
25193	Ccnd3	780	750	947	746	737	833	837	713
64633	Rab5a	83.88	67.48	55.41	53.3	63.2	72.58	59.68	56.3
29635	Timm44	647	654	601	540	589	574	626	575
311334	Exd1	97.52	85.44	97.22	77.98	110.8	76.58	80.47	78.93
299899	Eif3h	1987.6	1828.83	1788.8	1782	1789	1670	1956	1737.64
287772	Psm12	2445.4	2436.42	2205.9	2373.8	2175	2198	2498	2290.24
307652	Fam192a	590.17	621.7	646.98	561.86	521	640.4	619.1	563.16
64624	Cul5	967	960	969	1017	1020	845	987.5	936
100912059	LOC100912059	1234.7	1164.71	1108.5	1078.8	1158	1063	1117	1103.73
501659	RGD1561481	1234.7	1164.71	1108.5	1078.8	1158	1063	1117	1103.73
287101	Pkmyt1	85	106	116	102	96	102	102	96
306619	Cln8	343	337	307	304	282	335	295	338
308009	Fam45a	1209	1159	1076	1063	1100	1038	1121	1105
299002	G2e3	194.04	177.73	163.07	142.27	167.3	113.5	195.6	179.21
100174909	Smim11	96	83	90	78	73	92	81	90
25323	Htr1d	402	391	295	490	367	413	347	401
365023	Ankrd11	2525	2557.02	2705	2914	2736	2605	2683	2338.01
291624	Lars	2587	2566	2458	2554	2431	2375	2527	2510
315608	Ube4a	3456	3556	3695	3731	3714	3347	3467	3453
289180	Gpr161	1843	1800	1692	1904	1876	1562	1798	1774
297066	Zfp212	164	148	152.41	156	126.8	148	162.6	163.43
84350	Dnmt1	399.93	462.32	479.51	451.68	440.7	447.3	416.8	432.06
298227	Mtap	658	660	689	685	691	641	672	603
306562	Tacc1	5417	5668	5329	5852	5096	5659	5482	5326
365493	Cacul1	2062	2022	1967	2031	2041	1872	2016	1898
364049	Slamf7	82.54	59.78	63.48	68.15	73.34	52.99	73.83	65.15
293156	Lrrc51	74	62	66	52	79	54	54	59
170512	Ifi27	4227	3669	3384	2829	3641	3254	3273	3497
100362321	Smim19	700	744	709	648	621	684	674	734
314717	Scyl2	1159	1121	1123	1213	1181	1054	1123	1113
25027	Slc16a1	2329	2195	2129	2357	2048	2095	2436	2148
296399	Zfp93	12.04	7.05	8.03	6	8.06	7	5.02	12
362790	Inf2	1885	1979	2166	2030	1835	2155	1881	1936
309647	Brpf3	241	246	243	258	256	234	243	224
296911	ST7	216	182	192	207	214	192	187	179

79119	Arf2	356	369	353	326	332	319	361	348
363603	Cnot8	1073	1148	1010	986	956	936	1174	1019
246237	Plekha5	1290	1260	1302	1293	1209	1256	1282	1237
108349819	LOC108349819	7	6	8	11	9	13	6	3
287479	Shpk	358	394	367	321	327	339	345	384
683512	Uqcc1	1297	1215	1125	1165	1138	1131	1152	1231
303547	Ezh1	2153	2115	1956	2196	2163	2039	1953	2002
291060	Snrnp48	642	633	593	657.79	620	559	662	606
100364990	Pdssl	108	145	120	108	107	114	117	128
365627	Mblac2	341	332.63	319	324.63	328.6	291	305	351.6
313052	Epb41	1438.2	1327.64	1291.7	1459.5	1383	1471	1309	1182.14
25352	Sod3	2754	2729.38	3226.8	3230	2850	3237	2770	2711.84
113927	Csnk1a1	1434	1377	1429	1475	1445	1233	1488	1371
25017	Myo5a	4416	4927	4569	6412	5864	3468	5158	5201
102554884	Rcor1	604	623	603	676	619	622	625	562
314198	Cdk11	840.53	754.89	742.47	712.9	790.7	715.4	715.1	734.62
363169	Tcaim	657.95	696.95	694.67	654.36	684.8	633.1	665	636.99
308911	Rrp8	135	134	118	128	117	124	124	134
303755	Fn3krp	634	649	577	683	660	573	598	633
362257	Ralgapb	3093	3077	2986	3206	3077	2961	2998	2942
309147	Aldh3b1	101.54	126.52	126.59	103.85	85.05	126.8	116.4	116
499644	LOC499644	726.35	742.67	753.51	800.58	649.3	726.9	779	773.94
81869	Gstm7	1377.4	1797.1	1377.2	1745.5	1433	1481	1380	1808.05
170920	Map4k3	792	907	854	768	843	808	847	720
289608	Gnpda2	854.71	768.93	745.88	726.19	716.3	763.9	747.9	771.66
316342	Lipt1	37.69	28.5	54.09	40.07	43.29	34.69	32.87	44.53
84014	Ralbp1	2534.9	2626.85	2476.5	2425.5	2431	2361	2494	2465.78
315713	Pml	287	284	309	314	278	316	262	301
300128	Celsr1	551	746	867	579	728	651	665	614
313200	Hsd12	2062.1	1945.58	1853.9	1851.7	1861	1727	1883	2003.68
289457	Klhl8	425	365	332	364	398	327	340	375
361076	Dgkh	10262	9576.06	9651.9	10475	10640	7635	9692	10761.17
293551	Arl6ipl	5348	5315	5304	4620	4769	4733	5112	5336
289757	Polm	110	124	124	127	133	130	102	105
366064	B3galt1	767	752.98	625	765	735	680	774	631
290829	Ash21	960	933	924	969	845	885	1004	935
29143	Grn	1200.9	1400.71	1606.7	1454.5	1288	1513	1324	1362.48
100910795	LOC100910795	125.41	142.43	161.54	152.92	162.4	83.99	145.5	172.4
25577	Ywhaq	9472	9561	9135	8640	8196	8838	9338	9301
292548	Zfp418	229.67	222.15	203.26	197.59	193.5	209.9	211.6	211.31
499155	Fancf	153	157	150	124	126	164	143	133
25151	Igf2r	1015	1183	1202	1340	1086	1224	1179	1105
366954	Zfp251	474	438	458	481	426	418	480	470
311024	Kif5c	10725	10626	10638	11396	11071	10012	10713	10254
293871	Carnmt1	265	235	258	282	214	283	285	226
287222	Timd2	19.78	12.27	9.8	13.08	18.17	9.58	16.82	8.67
66030	Synpr	4887	4886	4770	4146	4605	4168	4547	4795
362556	Ttc4	858.47	844.15	840.22	834.56	794.2	830.1	884.2	765.16
79244	Hsd17b4	1730	1659	1674	1656	1560	1525	1794	1634
498351	Srp72	789.77	746.29	795.14	861.64	780.3	716.5	824.5	773.7
311326	Rpusd2	118.16	113.44	123.89	128.35	138.2	123.6	123	84.26
313341	Pigo	163	144	143	170	154	147	144	156
29254	Mg11	5844	6254	6124	5821	4980	6071	5863	6393
288666	Vps29	1743	1693	1540	1467	1480	1473	1579	1714
360985	Tmem17	357	379	321	284	345	345	311	299
102555330	LOC102555330	4.42	3.71	14.26	5.42	4.47	9.05	7.49	5.95

103694571	LOC103694571	4.42	3.71	14.26	5.42	4.47	9.05	7.49	5.95
362463	Fgfr1lop2	1755.9	1695.33	1544.4	1582.6	1652	1498	1640	1587.05
307498	Pura	819.82	821.79	880.06	849.66	859.5	786	737.6	885.2
291411	Atp9b	2233	2146	2006	2130	2150	2087	2090	1928
362353	Tcaf1	1449.1	1452.97	1468.1	1502.8	1428	1360	1493	1413.01
364834	Polr2d	251	231	202	168	203	189	208	226
29476	Glg1	2732	2830	2787	3359	3074	2743	2917	2617
498685	Prxl2c	541.44	489.01	473.57	534.84	464	469.9	552	490.93
305135	Lrrc8b	2309	2164	2418	2272	2213	2198	2176	2297
315916	Frmpd3	495.06	426.3	475.09	516.01	498	454.2	474	428
102551828	LOC102551828	117	126	114	103	108	116	121	101
29467	Ddit3	403.48	382.38	426.52	346.31	398.5	365.4	375.5	371.94
315997	Rbm6	596	554	616	571	589	525	598	554
497929	Pirt	14900	13753.5	13998	14110	14704	12876	13711	13745.96
309859	Scml4	454	417.04	374.34	426.11	474.4	325.1	364.9	456.31
290875	Cdc16	678	686	600	638	611	629	667	616
297415	Fam136a	131	136	154	106	111	120	136	144
303067	Thg1l	147	150	135	128	122	134	140	147
362490	Pip4p2	1187	1080	995	1087	1053	1086	1054	1024
287437	Tnfsf13	167	144	162	153	146	147	175	139
83571	Cdkn1b	2016	2429.99	2091	2062	2046	2198	1895	2199
25697	Ctsl	4216	4052	3754	3533	3724	3451	3808	4100
102549842	LOC102549842	275	246.01	243.27	233.01	227	216	256.8	267.23
361788	Prr3	570	532	614	559	548	587	529	542
100302405	Zfp958	677.22	663.27	697.23	734.97	653.8	622.2	750	662.64
287113	Rnps1	1501	1658	1633	1511	1540	1544	1501	1527
681037	Preli2	78	100	110	108	97	85	86	116
116727	Gp1bb	0	0	1.32	0	1.28	0	0	0
24882	Wnt3	7	8	10	8	10	5	5	12
291640	Slc25a2	27	20	34	18	16	29	27	24
304984	Cfap45	8	10	9	6	13	7	10	2
682147	Cgas	6	9	12	6	6	9	7	10
25319	Fth1	66178	65109.4	62420	59919	49501	61040	61305	74096.7
366953	Tonsl	125.81	113	100.12	99.52	115.6	117	94.48	98.17
297911	Otud6b	1252	1300	1131	1205	1240	1133	1174	1193
288583	Plod3	864.74	765.73	987.07	930.58	752.2	899.3	945.4	843.98
308449	Hipk4	141	136	124	128	127	147	125	114
361473	Mtrf11	126	134	136	133	127	129	124	133
292305	Sft2d1	528	470	490	397	431	456	477	464
29414	Akt3	1247	1240	1186	1455	1348	1087	1278	1260
245974	Comm5	197.26	173.93	164.79	151.27	164.4	180	169.2	152.85
302999	Prr35	80	81	66	71	56	85	86	62
362726	Atxn711	602.66	583.71	631.16	610.08	630.4	550.4	583.6	589.93
29496	Erbb3	2618	2674	3009	2699	2380	2690	2869	2729
170904	Stk17b	137	136	177	147	158	133	151	137
171451	2-Mar	499.01	565.86	527.32	393.47	477.2	441.2	518.8	488.65
314310	Zfp410	710.21	669.98	642.88	686.58	657.1	625.4	648.4	697.2
317343	Med14	996.4	1120.1	966.11	1252.6	1085	1067	1000	1052.68
84009	Kalrn	574	614	707	734	757	532	604	657
81807	Elob	2545	2108	2188.9	1785	2185	1904	1995	2284
116725	Ube2n	3330	3313.99	3103	3140	3012	2982	3343	3163
116657	Cplx2	1467	1582	1655	1928	1806	1409	1692	1526
100910725	LOC100910725	0.5	0.5	0	0	0	0	0	0.97
116654	Exoc4	1731.9	1741.42	1823.3	1842.6	1833	1662	1771	1659.42
296128	Stard7	1479.4	1340.09	1333.4	1227.5	1234	1328	1365	1292.04
295061	Tm4sf1	352	293	325	265	299	291	335	273

295050	Exosc8	101.59	108.7	116.64	89.9	74.19	100.7	110	119.5
312824	Recql	857.69	843.53	844.65	761.93	789.2	758	869.4	792.46
298101	Col27a1	348	442	720	365	391	610	500	318
498416	Grb10	539	466	586	523.02	510	569	485.9	486
311422	Itpa	1141	1195	1077	1014	1091	1018	1041	1145
366163	Aqr	898	924	903	1067	885	927	982	885
171485	Cd9912	3907.8	4005.54	3754.5	3891.3	3908	3641	3765	3781.97
60562	Stx6	986.57	1084.99	1226.8	1029.8	1021	1039	1044	1095.55
29699	Prkar2a	2166	2166	2185	2433	2202	2103	2254	2125
363266	Agfgl1	2400	2295	2130	2249	2276	2099	2236	2194
315417	Jrkl	188	164	165	158	153	168	166	168
299204	Nek9	2041	2057	1887	2185	1898	1890	1998	2142
300083	Slc25a17	905	948	888	839	847	838	859	930
312309	Zfp775	391.06	427.31	391.82	318.09	340.1	368.9	422.2	351.86
366376	Frrs11	178	176	183	240	209	173	187	185
108348148	Gstm3	382	253.93	267.3	263.95	274	243.9	287.3	327.44
289311	Mixl1	13.35	15.58	13.35	7.1	18.96	5.82	11.56	11.58
313242	Dcaf10	373	342	339	367	377	260	391	351
58927	Rpl36	1854.1	1719.18	1654.1	1262.3	1522	1469	1525	1781.54
307487	Pcdhb21	17	27	22.99	23.02	26.29	15.99	30.18	14.89
681433	Rgmb	4294	4646	4499	4707	4644	4296	4229	4441
25113	Ddn	312	401	201	271	243	332	267	308
360980	Tns3	3430.2	3783.41	4125.4	3741.7	3314	3632	3709	3979.72
688749	Tulp3	686.85	683.15	674.05	650.99	617	659.7	680.1	658.7
363040	St3gal4	807.92	721.71	669.82	607.6	671.5	775.7	612	665
25390	Atp1b3	11642	11448.3	10844	10298	10228	10080	10968	11653.31
297065	Zfp282	345.73	293.69	338.76	298.49	292.7	319.8	314.6	312
306764	Nsd1	2791	2721	2843	3231	2880	2733	2946	2686
362646	Fbxo42	764	805	782	844	802	812	768	719
362578	Svbp	93	105	74	68	68	75	91	96
303785	Rimbp3	7	10	11	6	5	4	12	12
311374	Duoxa1	7	6	16	5	10	6	9	8
289380	Nenf	768	566	663	554	623	581	580	692
100362548	Elp3	1387	1407	1288	1293	1255	1283	1376	1303
308751	Wdr73	193	225	156	141	156	158	179	201
108348233	LOC108348233	39.43	32.93	33.44	25.74	39.56	32.49	33.23	22.4
361970	Trim2	5783	5766	5569	6498	6078	5142	6026	5678
64441	Hsf2	1051	1008	985	984	931	925	1006	1048
689399	Cenpw	20.49	21.45	30.18	14.28	23.35	29.19	14.86	16.47
681315	Tmem230	1623.9	1657.03	1414.9	1479.1	1452	1425	1586	1531.18
266802	Alk	547	665	676	675	705	650	575	558
307905	Usp10	585	636	678	664	620	650	622	596
499691	Prpf38b	877	790	866	854	830	795	910	753
315970	Cdv3	2303	2223	2286	2189	2018	2110	2202	2408
29439	Jtb	512	493	513	399	458	471	499	433
305940	Sacs	3697	3590	3588	4327	4082	3007	3933	3736
310631	Mex3a	27	30	45	35	35	29	30	39
337920	Naglt1	139.12	127.01	144.42	100.2	126	122.3	113.6	134.03
500750	Tmem196	290	268	220	250	252	219	261	266
304791	Dstyk	1173	1251	1155	1356	1251	1195	1244	1101
100911248	LOC100911248	1425	1473	1385	1578	1447	1420	1437	1386
24667	Ppmlb	1928	1788	1686	1762	1732	1739	1725	1759
288471	Trrap	1780	1796	1972	2199	1971	1859	1892	1799
25678	Ddr1	1560	1645	1818	1566	1471	1693	1607	1626
294203	Olr1749	11.88	8.54	5.69	7.18	9.7	8.44	6.58	7.6
103694540	LOC103694540	0	0	0	1.03	1	0	0	0

292808	Pepd	937	1014	998	834	920	911	919	923
303611	Tex2	2020	2276	2076	2226	2048	2159	2030	2111
363099	Rsl24d1	846	817	779	690	801	712	773	755
100360750	LOC100360750	193.7	160.87	224.98	161.54	173.8	164.9	193.4	187.53
682507	Wasl	2026	2074	1991	2242	1984	1930	2154	2023
108348064	LOC108348064	358.6	365.02	324.16	313.72	312.2	330.7	316.1	362.95
81825	Cirbp	688	772	749	546	673	645	684	673
84353	Ctnnb1	6470	6492	6572	6433	6248	6180	6468	6317
306203	Pxk	864	924	867	895	870	865	882	830
140607	Pip4k2c	532	528	574	503	518	512	514	531
306103	Dis3	245	281	287	359	260	226	338	314
289500	Ccni	3766	4030	4142	3889	3898	3848	3796	3826
303700	Usp36	275	309	321	302	283	291	303	295
100909776	LOC100909776	20	20	13	16	15	18	20	14
313210	Abca1	1797	1909	2159	2208	2044	1920	2013	1862
58964	Nme6	73	80	71	52	81	55	59	73
688839	LOC688839	65.62	48.37	61.83	51.64	44.24	46.54	69.21	60.88
294993	Hspa41	3298.9	3242.47	2987.7	3541.4	3122	2906	3343	3322.31
314336	Ddx41	622	527.19	531.55	521.13	494.5	500.2	547	596.66
312195	Nrf1	254.66	328.02	335	296	266	321.3	318	273.42
362294	Ube3c	3351	3579	3171	3327	3327	3156	3395	3163
246332	Uhmk1	5348	4954.98	4868	6223	6293	4101	5466	4917.89
84479	Synrg	983	990	964	1125	1045	963	987	950
287156	Rhot2	764	794	723	671	720	722	691	734
311881	Fbxw2	1163	1210	1074	1068	1102	1069	1059	1155
288616	Tmem248	1210	1238	1330	1226	1285	1199	1188	1188
307008	RGD1308147	753	682	626	615	648	592	627	732
300813	Rnf111	625	704	640	777	691	692	687	597
365314	Lipt2	48	48	33	45	40	28	49	52
311570	Myh7b	230.64	185.81	227.72	256.02	200.4	255.8	199.7	218.43
58967	Sfmbt1	310	303	345	366	331	320	314	321
314616	Arid3a	236	232	269	250	252.7	224	260	222
498272	Uap1	457.44	474.21	469.48	417.24	417	456	452	441.26
406868	G4	133	150	165	146	156	157	138	125.99
301373	Tgfbrap1	584.28	584.51	577.59	533.77	540.6	579	540.1	555.26
294594	Spata9	414	401	418	445	405	374	411	440
304193	Arhgef18	710.61	659.84	715.49	685.16	690.8	705.6	649.8	645.62
170912	Alcf	10	10	6	9	11	5	6	12
362759	Exd2	624	629	608	624	571	610	612	621
304572	Fbrs11	523.46	497	505.52	471.58	522.4	501.4	467.3	449.58
64622	Adnp	1597	1724	1646	1765	1578	1599	1768	1595
306734	Rmi1	570	618.99	647	654	534	531	689	665
500636	Rnf144a	894	1003	883	1009	948	898	937	898
56064	Nptn	6907	7085	6826	6828	6144	6856	7201	6657.1
310005	Aggf1	428	436	397	425	419	404	396	419
100912537	LOC100912537	133	103.5	107	113.5	117.5	103.5	114	109
309486	Tctn3	133	103.5	107	113.5	117.5	103.5	114	109
361071	Sucla2	3173	3296	3029	3057	2861	2912	3182	3243
24708	Rb1	1001	912	1052	1047	964	924	1036	974
296312	Aar2	349	316	319	283	326	289	296	320
291927	Orc6	90	96	86	80	79	96	77	90
314981	Col14a1	1478	1922	2169	1935	1656	1900	2176	1559
681361	Pisd	586	569	608	506	538.7	595	517	554
293142	Spcs2	1549	1632	1565.7	1525	1478	1467	1592	1557
691899	Fbrs	839	904	921	869	827	898	875	833
117042	Rpl6	4013	3993	4049	2997	3444	3569	3638	3975

298732	Glis1	29	24	29	24	23	30	27	23
24655	Plcd1	431	571	605	445	454	546	484	510
310244	Zc2hcla	2721	2657	2429	2564	2564	2333	2677	2504
288182	Cldnd1	1415	1383	1410	1279	1270	1269	1416	1377
316275	Paqr8	1697	1886	1832	1988	1750	1798	1771	1875
122772	Rps20	2180.4	2126.47	2342.3	1428.7	1849	1986	1739	2275.61
25476	Lgals9	315.58	330.49	346.89	285.72	277.8	345.3	288.7	330.75
289827	Ugp2	1477	1384	1478	1476	1333	1478	1448	1392
363055	Cep164	549	655	670	679	640	601	697	543
498425	Zrsr1	700	656	541	764	731	624	602	629
57025	Adam15	1417	1334	1494	1434	1394	1454	1415	1256
685001	Cnpy1	64	49	61	39	52	56	43	56
295922	Mtch2	2609	2584	2378	2158	2253	2298	2515	2389
308870	Numa1	2203.6	2519.48	2652.7	2646.6	2556	2502	2449	2233.83
100909476	LOC100909476	94.29	80.85	69.5	75.77	81.46	66.85	86.97	76.11
84480	Bnip3	7273	6965	6395	6020	6386	6183	6459	6876
361258	Cul2	1786	1618	1658	1735	1659	1548	1737	1662
289603	CommD8	412	433	421	371	352	420	421	398
293678	Mus81	258	245	216	242	218	248	239	229
363858	Trappc5	868	841	813	718	816	767	789	777
304401	Ssc4d	116.28	117.54	127.06	79.26	101	94.52	98	134.28
366619	Dtd2	109	128	113	113	129	95	118	108
192252	Dctpp1	78	67	85	55	82	66	71	58
361328	Snx24	486	417	485	430	367	454	482	464
293184	Ctr9	1578	1691	1604	1687	1620	1570	1644	1542
58923	Mefv	72	100	88	61	57	74	100	81
307362	Zfp532	704	798	832	921	765	799	821	778.98
310917	Gbp4	42	58	79.62	60.82	52.79	68.72	51.21	61
363412	Zfp609	901	1040	1032	1176	1027	943	1062	1001
171501	Rnf38	652	747	791	817	734	648	805	736
24437	H1f0	1546	1568	1689	1355	1404	1476	1600	1506
287280	Skp1	14688	14570	13398	12840	13119	12201	14018	14608
363633	Polr2a	1704	2012	2164	2290	2068	2083	1908	1883
207123	RGD621098	416	365	365	360	375	389	371	329
246781	Ptpn7	72	66	91	58	75	70	63	71
498166	Gal3st4	51	80	88	68	53	78	81	67
684270	LOC684270	170	151	138	115	123	135	110	190
311183	Fnbp4	718	696	790	738	665	689	750	756
25592	Agrn	1668	1659	1796	1874	1648	1789	1810	1555
103690089	LOC103690089	833	863	863	1105	997	833	829	903
81767	Rpl19	5376.9	5319	5370	4160	4749	4591	4914	5409.25
361403	Terf2	246	271	255	309	240	257	272	282
54321	Cnn3	4733	4784	5235	4566	4243	4600	5268	4670
170816	Olr59	7	14	8	7	7	11	9	8
315137	Apobec3	12	17	23	20	13	21	27	9
315164	Cenpm	38	40	46	20	33	46	38	23
304317	Amz1	261	242	252	253	261	256	238	225
362142	Bbs5	149	168	170	161	146	152	170	162
362608	Tmem39b	126	148	144	158	137	165	130	128
266611	Ptpn9	1567.3	1641.81	1679.3	1640.4	1516	1582	1609	1640.9
361037	Mrpl52	786.25	862.64	839.72	774.06	666	874.8	773.1	858.27
84476	Strbp	2265.8	2260	2015.3	2449.6	2224	2013	2346	2157.51
192348	Fnbp1	1766.1	1903.21	1860.5	2081.4	2007	1825	1865	1703.5
361791	Nrm	91.81	117.19	112.61	89.41	98.33	100.7	103.4	97.19
25271	Rxra	177	174	173	162	170	161	162	174
680971	Ddhd2	1704	1716	1579	1611	1590	1493	1738	1606

305339	Nsun7	66.02	79.83	86.8	88.84	82.11	57.81	94.09	78.59
298425	Efcab14	1128	1169	1083	1213	1098	1057	1194	1117
305351	Klhl5	573	596	619	599	476	511	660	674
298748	Ndufaf7	547	501	503	475	497	493	497	483
361628	Eif4g2	25782	24440.3	24188	24604	24025	22722	24920	24612.34
81918	Pard3	444	472	532	544	484	472	485	496
29441	Por	1261	1180	1273	1287	1165	1349	1126	1223
29288	Rps3a	5020	4993	5209	4060	4324	4415	4959	5052
84027	Gsk3b	6207	6552.79	5955.5	6990.2	6375	6362	6416	5843.67
293735	Best1	65.08	66.06	59.06	64.07	62.07	46.05	55.06	84.09
313678	Prdm2	1818.1	1874.83	1865.6	1924.3	1904	1777	1816	1779.96
100361765	Hoxb2	178	152	159	165	151	177	149	159
83628	Cd82	2126	2091	2030	1897	1994	1994	1920	2012
286974	Chst15	1206.4	1366.05	1112	1469	1383	1195	1211	1222.15
361571	Aldh16a1	263.05	239.49	246.93	226.88	243.9	230	231.3	244.3
366608	Dock4	384	487	504	555	481	429	488	479
300077	Gtpbp1	340	361	387	369	317	372	347	381
298280	Slc35d1	293	295	286	293	295	265	314	261
303536	Dnajc7	2534	2517	2454	2416	2339	2254	2511	2545
498749	Tdp2	450	409	407	339	341	345	442	433
361272	Dhtkd1	291	282	250	281	259	263	270	281.74
103693953	LOC103693953	60	45.01	54.24	58.96	57.26	38.2	59.28	57.49
361661	Pstk	182	176	173	163	161	164	188	162
406162	Notch4	293	276	301	226	263	293	267	243
257645	Itgb5	1768.6	1899.28	1891.9	1836.4	1672	1923	1847	1752.66
24375	Fucal	784	823	963	757	785	817	835	799
360637	Ccdc43	384.3	382.22	386.61	376.25	335.8	351.3	384.2	416.34
84474	Ddx1	3042	2843	2744	2734	2664	2592	2882	2915
103691005	LOC103691005	358.24	359.22	369	368.21	378.5	300.1	373.3	363.15
100910007	Zfp30	33.6	22.72	30.7	24.96	32.91	27.63	23.01	25.38
50993	Rab10	3855	4068	3986	4181	3845	3937	3961	3909
501160	Vwc21	968	953	999	1011	954	868	1046	956
312516	Gmcl1	1646	1546	1485	1533	1553	1401	1527	1560
301361	Lonrf2	3176.4	3285.37	3066.7	3872.9	3785	2789	3379	3084.49
94189	Gosr1	842	866	817	824	816	776	868	798
100312984	Eif2s3y	1633	1640	1634	1584	1549	1486	1532	1748
84351	Ikbkb	383	401	452	385	368	413	407	389
192246	Phf5a	356	369	321	318	315	324	345	343
114633	Plcel	714	655	698	921	807	814	679	607
294012	Borcs7	1585	1525.05	1566.9	1636.9	1605	1383	1446	1708.78
360823	Ankrd13a	1162	1238	1301	1281	1105	1326	1198	1218
309696	Bcr	1418	1526	1397	1564	1527	1374	1531	1313
295461	Sec24b	1163	1241	1179	1398	1204	1269	1174	1199.03
171525	Polk	159	156.44	127.02	166.74	151.2	143.5	167	131.01
287541	Ift20	688	732	738	613	616	588	703	789
498529	Amer2	227	215	206	239	249	170	210	234
366952	Cpsf1	695	767	788	820	751	775	764	697
361170	Adam32	8	11	9	9	4	9	11	12
296060	Arhgap11a	85	83	108	57	77	74	88	85
680409	Prodhl	891	701	639	767	694	793	680	750
288774	Stat2	994	1172	1106	1134	1037	1185	1073	992
307133	Hspa14	325	304	310	283	294	272	322	301
293528	Nsmce4a	309	283	268	251	241	275	284	281
317275	Rpl17l1	1129	1126	1148	1066	1076	1059	1184	1029
302415	Foxo4	454	476	500	460	358	496	478	506.98
362749	Atp5s	236	190	216	247	206	240	193	226

304763	R3hdm1	970	995	977	1097	1014	1006	995	915
362203	Tubgcp4	528	455	495	486	459	408	541	503
66013	Arhgef9	882.66	908.97	806.29	919.87	923.9	771.8	866.9	860.37
301014	Atrip	164.22	182.28	172.6	134.96	174.6	146.7	160.1	154.98
297755	Rpl7	4477.9	4108.95	4370	3431	3777	3742	4085	4341.23
362950	Rbfox2	1027	1012.08	876	1148.5	1073	925	1036	920
313618	Macol	1092	1048	1039	1125	1076	1037	1073	1002
309041	Thumpd1	846.32	825.74	783.98	773.79	743.5	737.8	851.3	810.33
56820	Ramp3	282	279	280	275	249	254	284	299
314407	LOC314407	206.26	199.99	172.89	182.53	183.4	162.3	221.9	173.61
362551	Raver2	131.48	158.93	145.38	166.96	129.7	163.9	145.5	147.51
309912	Rtn4ip1	411	292	283	280	336	385	217	294
315409	Cep126	417	398	358	429	409	368	386	396
363247	Xrcc5	815	747	832	774	779	763	820	721
315591	Tbcel	905	959	846	980	899	884	963	845
361465	Echdc1	493	426	407	352	384	361	449	439
682920	Phactr4	220	245	275	268	251	269	222	239
100310874	Parpbp	14.86	12	19.04	6	12	14	9.95	14.56
307494	Wdr55	154.76	146.91	146.85	140.95	155.8	142.9	128	147
64020	Gpr85	223	184	192	223	180	196	214	210
362375	Lancl2	1257	1200	1129	1087	1139	1070	1232	1107
81764	Rpl10	5626.4	5393.19	5287.9	4324.8	4831	4910	4995	5345.22
362934	Ly6e	1583	1538	1572	1479	1529	1555	1391	1532
102552823	LOC102552823	51.75	53	58.38	58.32	59.61	48.12	48.85	58.95
308652	Smox	698	704	658	560	609	652	573	716
100911462	Txn14a	591.49	507.92	456.41	435.86	455.9	480	474.5	528.09
361414	Vat11	9959	10818	9919	10724	9893	9818	10576	10027
299314	Cfp	133	110	145	99	130	130	123	91
361848	Ddx50	579	608	589	586	531	540	617	611
365691	Egflam	629	640	808.96	824.56	557.8	637.3	806	824.03
286998	Zfand4	125	111	108	106	107	110	116	105
317252	Ercc61	22	15	21	17	21	21	20	11
103694910	LOC103694910	693.15	672.39	682.37	615.21	695.8	644.1	598.3	653.94
366964	Tcf20	933	1032.42	1061	1090.1	1076	988	955.3	987.3
65248	Prkaa1	1991	2057	1946	2223	2152	1901	2091	1854
289456	Hsd17b11	1608	1927	1803	1641	1503	1763	1769	1758
361323	Commd10	590	587	516.99	521	515	559	546	536
170820	Prdm4	1046	1046	959	1080	1004	983	1020	1014
688288	Eif4a3	978	923	966	783	863	907	893	890
363074	RGD1309779	190	183	170	172	150	179	182	185
266716	Zscan12	156	145	152	112	138	127	147	138
301128	Kdm4b	1029	1096	970	1015	992	987	1016	1006
501926	Zmat5	166.97	153.68	171.48	128.82	135.2	157.9	172.5	138.89
499563	Zfp458	42.98	38.03	35.94	66.87	48.73	49.46	34.85	45.91
502320	Faap24	49	62.54	71.49	45	53	39	68	62
308384	Sael	1685	1559	1597	1437	1530	1538	1542	1502
689755	Ccdc167	65	56	49	57	62	62	49	48
360763	Usp12	533.52	546.58	474.99	542.42	557.1	470.8	520.6	493.54
298943	Bcap29	890	785	801	742	752	691	821	869
296603	Vav2	1133	1109	1144	1197	1229	1099	1078	1056
100911260	LOC100911260	844.43	972.7	942.87	954.06	879.6	1064	835.3	836.8
294018	Taf5	105	118	85	109	102	94	101	109
298744	Crim1	409.12	271.57	378.83	408.2	352.9	387.3	402.2	286.72
315879	Adamts7	218	237	248	246	242	260	211	211
100910875	LOC100910875	219.69	231.1	262.49	262.49	282.5	256.8	174	236.81
295378	Vav3	300	306	277	333	311	293	290	290

287631	Wfikkn2	25	15	33	41	15	35	30	31
308064	Cep72	9	8	13	8	10	7	12	8
303200	Map2k3	307	216	301	164.05	201.1	282	244	235
102546648	LOC102546648	103.58	131.64	125	108.05	105	94	124.9	132
313997	Mboat2	2173	2042.95	1800.9	2086.9	1975	1937	2106	1872.83
65028	Dna.jal	6562	6408	6214	6454	6142	5638	6486	6698
301887	Cdh12	139.87	161	118.97	186.59	136	147	160	147.48
94266	Rps27	2018.3	1752.71	1871.7	1501.1	1717	1551	1577	2111.38
50690	Slc6a8	2076.4	2284.45	1949.6	1986.5	1991	2166	1902	2019.91
365215	Smg9	414	405	393	351	365	454	371	332
252900	Dgat2	453	383	352	378	358	430	339	398
291850	Tepp	159.18	159.5	158.29	156	163.3	171.4	151.7	130.03
290912	Arglu1	987	940	901	880	941	881	936	853
108351885	LOC108351885	424.82	531.32	430.79	452.4	568.2	411.7	418.3	392.99
29278	Laspl	2927.3	3006.72	3162.5	2931.9	2974	2930	2996	2812.95
114205	Crcp	415	369	357	312	342	318	347	408
64367	Ppib	1355.4	1371.28	1650.4	1204.9	1288	1300	1412	1436.93
684189	Trim68	104	85	85	109	93	84	102	94
246766	Ggtal	1137	1136	1096	1077	1075	1093	1089	1073
295455	Slc39a8	355.91	405.85	394.76	420.11	389.4	382.5	402.4	361.18
100909512	LOC100909512	189.93	163.95	181.47	214.15	195.9	146.2	181.5	206.38
361769	Sufu	293	339	376	412	321	367	364	331
291694	Fam13b	3986.5	3964.95	3469.4	3779.7	3667	3677	3819	3641.65
501349	LOC501349	129.05	63.29	90.15	59.25	86.34	61.33	101.6	83.6
24412	Grin2d	61.19	63.48	54.07	65.14	66.2	64.41	64.92	42.01
25283	Gclc	831	901	776	803	770	804	856	795
246303	Serbpl	2531	2369	2486	2280	2398	2285	2400	2332
306322	Entr1	1568.3	1432.67	1541.4	1383.2	1347	1510	1522	1392.36
362434	Lpcat3	710.31	664.83	798.37	778.67	714.4	643.4	750.3	767.49
298552	Tmem50a	2427	2342	2370	2006	2029	2229	2265	2385
306471	Snx25	708	664	698	634	693	620	650	671
24818	Tcp1	3779.6	3793.4	3569.4	3753.4	3464	3373	3920	3753.41
363485	Pbdc1	376	320	346	348	369	277	342	366
295625	Pkp4	851	783	798	930	747	841	860	827
499966	Xrcc2	132	107	139	125	128	126	119	117
301574	Cab39	5914	6066	5674	5955	5788	5660	6034	5517
307833	Ist1	1659.6	1695.82	1617.2	1588.9	1654	1569	1604	1565.32
313245	Polr1e	187	187	193	170	179	185	182	172
314168	RGD1307621	82	108	95	103	85	109	88	96
25246	Bsg	11188	10390	10492	10429	9914	9701	10624	11165
64530	Cnbp	4784	4596	4456	4100	4111	4126	4521	4716
316348	Pdc13	654	601	681	549	545	562	691	623
303164	Zfp692	332	253	327	287	273	293.1	343	259
294449	Hs3st5	361	372	389	354	380	351	358	349
289152	Ankrd45	112.03	101.12	77.15	101.1	89	87.19	109.9	95.22
361310	Pfdn1	1633	1585	1515	1339	1391	1367	1502	1656
690450	Taf1b	145	130	146	124	130	128	129	144
305827	Wdhd1	167	136	154	166	162	134	175	136
296207	Smim26	294	264	267	188	245	253	219	270
294232	Dhx16	415	377	389	379	403	407	356	354
304495	Kdm2b	237	232	270	236	239	234	258	219
108348147	LOC108348147	256.92	272.79	290.54	307.6	318.5	257.4	254.5	268.5
311631	Zswim1	253.72	246.91	251.76	257	236.8	276.8	245	224.92
361255	Tbce	1266.7	1275.18	1245.8	1093.1	1097	1097	1288	1273.76
310512	Nmd3	411	409	397	383	356	379	444	380
311502	Kiz	298	285	268	281	266	259	262	316

25231	Onecut1	551.66	633.92	522.77	807.68	638.1	619	671.9	522.51
252893	Dnah7	23.81	19.49	16.57	19.41	20.56	20.61	22.71	13.37
65158	Rab2a	4947	5074	4708	4455	4440	4384	4883	4986
298098	Pole3	1044.4	1021.29	1004.8	959.17	955.7	970.6	1026	974.75
308977	I121r	46.93	30.23	36.14	17.24	32.83	36.63	25.92	31.82
690285	Tmem223	833	718	635	590	678	659	629	739
690976	Cnn2	127	128	175	157	141	148	164	119
296147	Chchd5	339	301	277	298	235	317	321	311
79114	Fgfr1	4072	4294	4433	4844	4328	4670	4231	3964
500863	Rspo2	1100.8	895.99	1043.9	877.13	1052	843	902.1	1020.81
288779	Rab5b	6936	7150	7204	7263	6725	6897	7044	7159
79256	Hnrnpd	900	921	960	910	906	867	920	904
289270	Pld5	156	151	150	172	149	110	148	206
299104	Fkbp3	4698	4482	3916	3848	4023	3736	4260	4494
298699	Ppan	384	354	371	346	341	358	347	372
364670	RGD1559908	89.48	111.99	88.19	146.54	118.5	90.25	110.9	105.44
307081	Pitrm1	1812	1759	1730	1859	1715	1718	1784	1761
114104	Asah2	806.26	843.58	704.41	891	786.2	738	860	778.64
65026	Rwdd3	110	105	79	101	88	100	104	93
79237	Hhex	52	45	40	21	44	48	30	32
361182	Pcid2	557.77	574.3	527.37	526.9	564.1	523.1	504.2	539.59
619577	Rnf14	6864	6616	6462	6575	6668	6318	6155	6705
296709	Rpl35	3556	3341.95	3500	2749	3031	3012	3204	3567.47
84394	Dcx	155.54	197.12	197.28	136.7	188.8	152.8	186.2	141.55
311450	Pak7	71	75	92	79	79	97	76	57
362013	Ahcy11	3139	3175	3082	3249	3024	3053	3269	2980
89815	Syng2	230	213	255	214	213	261	216	199
312907	Slco5a1	1173.1	1104	880.03	1224	1128	1045	1116	981.99
25448	Cenpi	65	56	72	45	59	53	62	58
367902	Armcx3	2874	2862	2641	2852	2804	2526	2771	2845
311209	Tp53i11	561.14	464.77	509.81	556.15	479.2	486.8	459	614.16
140655	Rps16	6708	6127.99	6589	5093.4	5948	5702	5607	6645
286910	Smim3	449	396	463	362	376	376	441	435
294603	RGD1560883	129	123	135	130	129	130	120	125
170955	Zfp483	84	96	77	101	98	61	89	101
300032	Zc3h3	226	265	322	301	283	276	259	268
299828	Atp23	103	91	97	107	94	102	94	98
360632	Retreg3	411	420	443	401	388	394	406	445
308478	Spred3	412	420	527	398	444	443	427	399
81776	Rps24	3873.9	3655.55	3878.8	3015.8	3400	3196	3463	4004
313564	Zmpste24	1494	1308	1368	1381	1369	1341	1444	1258
83611	Apba3	380.99	430.97	406.99	344	366	388.9	379	390
84482	Foxo1	244	247	272	316	269	263	260	260
499903	Napb	7128	7426	6491	7665	7263	6336	7188	7205.22
266780	Rimbp2	549.58	430.83	462.04	517.48	452.1	473.7	495.1	490.09
306197	Tm9sf2	2858	2941	2858	2742	2628	2881	2870	2735
305910	Pspc1	502	515	454	529	477	490	519	464
171106	I11rl2	10	7	11	12	14	7	11	7
362732	Agmo	311	287	289	274	242	262	328	300
289338	Disp1	478	643	666	576	501	614	611	578
304569	Ep400	1043.3	1162.15	1282.2	1312	1140	1181	1180	1179
500034	Bmt2	103	110	118	110	109	94	101	126
312703	Pex5	684.02	641.02	582.5	619.93	623.2	617	628	596.29
361466	Tppp	1530.3	1404.5	1262.9	1428.5	1500	1305	1375	1306.38
108351137	LOC108351137	28.65	21	95.22	0	85.3	55.96	0	0
691976	Slc35g3	6	5	16.92	9	9	10	6	11

315524	Tmem45b	877.05	679.72	785.72	792.32	711.6	822.3	712	810.77
295549	Dnajb4	1793.1	1610.98	1409.4	1593.3	1592	1492	1719	1443.89
294693	Gtf2h2	210	175	182	157	171	171	188	176
294565	Fam13c	552.7	466.34	483	481.94	482.1	475.9	496.8	479.86
364601	Micu3	1957	1861	1759	1949	1793	1788	1875	1883
29274	Rnf4	1856	1916	1892	1795	1764	1807	1962	1741
100359574	LOC100359574	305.41	300.32	256.67	254.09	268.3	264.1	313.4	243.06
288479	Pms2	401	367	308	336	327	331	379	340
305367	Arap2	671	643	664	767	730	560	708	679
259218	Rwdd1	695.41	697.13	651.04	651	657	615.8	661	693.99
56816	Prkn	101	95	106	102	100	98	98	98
315134	Josd1	607	612	600	525	534	552	615	585
315158	Zc3h7b	3145	3283	3121	3626	3267	3173	3187	3222
312563	Prickle2	584	678	674	692	599	681	637	646
296461	Osbpl2	1020	997	999	990	897	1026	1013	971
361029	Ktn1	3459	3313	3259	3409	3266	3163	3517	3162
310062	Zswim6	838.99	799	881	842	864	779	846	789
304654	RGD1306072	158.26	133.49	162.37	151.24	136.6	162.7	156.7	134.45
314600	Zfp955a	523	462	493	508	505	408	481	543
78963	Apaf1	234.3	235.36	307.41	279.78	257.9	251	273	248.86
307483	Diaph1	518	499	591	543	517	529	517	535
89819	Bud31	814.32	695.75	799.48	675.38	697.8	669	779.3	765.29
362398	Plxna1	1341	1362	1629	1679	1449	1524	1497	1393
361256	Svil	874.2	816.11	962.02	1043	775.8	1022	883	923.48
290668	Mau2	1180	1111	1224	1102.6	1126	1127	1166	1085
295930	RGD1309540	1233.3	1566.65	1583.9	1349.5	1381	1424	1565	1222.61
305420	Anapc4	1294	1371	1315	1183	1225	1156	1337	1318
304978	Copa	2672	2831	3032	2970	2800	2889	2882	2651
295211	S100a5	27	34	27	34	35	27	25	32
266759	Hspa4	4905	4974	4726	5038	4736	4560	5127	4737
100912008	LOC100912008	87.75	99.14	87.66	50.67	62.3	96.68	93.05	65.2
303113	Jade2	637	555	589	621	643	578	552	570
681913	Gstz1	334.01	321.99	323.18	313.46	279.6	307.9	356.7	316.67
361363	Ccdc102a	248	241	265	224	233	246	247	228
171126	Ap3m1	1468	1473	1345	1463	1339	1332	1518	1419
502227	Gtf2h5	849	814	800	637	760	706	761	797
81785	Ssrp1	1455	1558	1564	1545	1476	1511	1527	1458
619346	Surf4	2303.4	2278.15	2449.2	2238.3	2174	2232	2299	2336.99
24539	Lpl	379	381	292	336	226	362	346	420
309550	L3mbt13	174	183	217	243	196	182	237	182
102552166	LOC102552166	58.05	41.78	62.42	95.14	62.12	61.33	64.07	63.57
364630	Thsd1	133.4	142.16	124.7	125.19	139.1	157.7	103.8	112.12
315210	Brd1	650	645	655	665	623	660	643	625
362425	Zfp637	859	800	703	662	714	708	761	767
161452	Lef1	85.54	94.64	102.13	96.52	103.5	80.64	78.32	107.12
84471	Snx1	1011	972	978	966	893	988	994	956
310784	Taf13	830	823	890	772	763	752	853	866
303553	Rnd2	433	431	478	377	426	434	407	410
312320	Igf2bp3	14	7	12	8	15	7	8	10
313234	Tbc1d2	63	54	71	58	63	63	61	53
689526	LOC689526	2.05	0	0	0	0	0	0	2
502503	Serf1	900	801	794	828	821	708	817	896
293415	Tmem9b	1510	1529	1591	1360	1467	1430	1419	1528
302526	Atp6ap2	1821	1909	1668	1782	1674	1750	1854	1727
291075	Eci2	549.56	561.71	571.22	501.5	501.8	518.5	548.2	562.27
312654	Tmcc1	583	568	567	581	594	544	559	546

304010	Zbtb11	647	656	710	781	720	627	754	624.96
293047	Kif7	149	145	155	167	146	153	168	134
297728	Ergic2	1006	911	852	891	926	818	899	928
102547414	LOC102547414	0	1.95	0	2.99	0	1.11	1.62	2.09
373541	Taf9	1337.5	1334.42	1032.4	860.82	1039	1102	1098	1215.57
292810	Gpatch1	309	309	309	351	297	304	322	324
84484	Slc4a4	3046.6	2637.21	2099.7	3062.4	2858	2402	2825	2498.63
311224	Ttc17	1016	982	955	1047	947	1009	974	973
25595	Map2	7611.6	7516.54	7001.5	9475.3	8485	6656	8205	7492.25
500390	RGD1564053	1005.9	985.23	751.26	1099.7	891.5	856.3	986.5	1014.69
362409	Sumf1	872	875	892	827	824	847	894	817
683626	Lbh	1639	1947	2142	1823	1724	1932	1911	1801
66031	Wdr7	3055	3288	3137	3562	3413	3147	3156	3010
289504	Sdad1	134	130	156	158	137	126	173	128
140943	Ppp4r1	804	811	813	752	764	850	752	737
287063	Nmr11	123.05	126.33	128.18	122.61	117	123	110	138
246150	Akap9	1411	1455	1556	1655	1620	1360	1464	1486
60443	Epn2	2353	2237	2312	2359	2288	2257	2206	2286
690217	Pcnx4	654	695	648	610	655	593	644	652
312690	Phc1	343.65	367.4	399.47	377.32	365.8	342.3	359	384.83
360937	Tbc1d1	575	531	602	611	569	569	567	558
25260	Gstt1	107	76	90	100	87	88	83	106
308993	Sephs2	526	476	473	434	439	463	461	500
306260	Capn7	972	917	1004	1013	937	908	1019	948
362058	Migal	2447	2167	2062	2023	2292	1933	2069	2196
64188	Mafg	2639	2513	2493	2476	2586	2397	2485	2410
100912076	LOC100912076	95.7	101.31	69.98	106.11	83.42	87.41	99.41	93.91
309804	Cdk19	985	933	1026	1024	1004	922	1004	943
310326	Arse	191	192	231	180	187	212	206	170
79113	Fgr	53	46	74	36	62	59	42	41
29192	Psen1	1648	1709	1717	1784	1727	1658	1677	1632
361684	Nap114	2542	2443	2343	2267	2311	2316	2400	2339
308490	Ddx18	343	322	303	331	351	287	338	292
309673	Rrp1b	298	308	361	332	332	319	325	292
361042	Pck2	624	584	535	520	564	515	567	563
361014	Ngly1	951	977	934	868	856	914	911	960
29222	Ptma	5114.8	5128.86	5744.3	4711.6	5086	5012	4962	5145.68
100362458	Gigyf2	888.08	861.49	865.38	1015.2	912.2	886.4	927.3	817.81
311926	Lrp1b	134	132	121	159	140	106	140	147
305240	G3bp2	5991.6	5945.7	5499	5858.2	5784	5340	5931	5685.92
362958	Mical11	1312.5	1529.17	1589.5	1467.4	1481	1443	1398	1436.4
360593	Ppm1e	333	302	269	400	347	248	352	326
297893	Hdac1	676	690.81	765	591	676.3	695	616	670.85
363760	Arl6	513	519	501	446	478	432	496	526
314288	Pcnx1	3167	3340	3444	3568	3583	3242	3374	2999
81805	Suox	362.72	353.11	362.3	351.9	302.9	346.3	352.4	394.4
305895	Dcaf11	1641	1653	1604	1594	1476	1702	1607	1553
306165	Gpr180	1071.7	1002.98	938.29	1106.7	1018	983	1018	1003.6
316455	Plekhm3	3125	3179	2547	3039	3370	3182	2792	2264.01
29184	Cd36	244.54	189.84	316.27	140.86	185.5	286.9	238.2	159.79
24800	Sts	329	322	347	310	323	359	292	303
117273	Rhoa	8429	8150	8685	7734	7272	8037	8661	8246
681908	Samd15	45	47	40	39	54	38.95	31	43
362593	Gn12	910.97	911.98	892.92	875	900	876	910	819.97
360994	Chac2	305	276	235	241	242	270	264	256
686506	Lyrn7	710	747.23	681	663	686	619	678	752

114632	Aimp1	949	840	736	818	833	837	792	802
292763	Map4k1	72	56	71	55	58	79	59	52
299864	Ebag9	596	620	561	509	481	569	592	590
313840	Rmdn2	193	208	175	186	157	171	206	210
362522	Zfp462	690.08	696.33	794.87	851.34	766.8	714.3	751.2	728.61
282547	Mrgprx1	469.33	511.71	602.79	505.28	550	416.6	657.2	416.06
302863	Slc9a6	2894	2836	2735	2773	2729	2515	2921	2808
100360054	Vstml	3	1	6.03	1	4	4	1.77	1
309646	Slc26a8	180.76	183.88	224.84	175.99	160	158.9	225.8	202.73
24392	Gja1	608.53	570.79	708.45	780.94	665	692.3	661	587.5
303828	Etv5	1106	1279	1484	1445	1238	1264	1384	1303
299199	Ylpm1	1038	1108	1069	1251	1183	1061	1112	1005
314992	RGD1310852	146	115	117	90	118	114	120	105
305177	Enoph1	978	1084	1012	1011	917	1025	1020	1027
367146	Gk5	63.46	32.84	37.31	53.21	57.67	36	42.27	46.49
117104	Ppp2r2a	1917	1839	1937	1847	1763	1879	1937	1784
291450	Aldh7a1	647	604	646	659	524	626	660	686
300253	Eif4b	3101	2966	2794	3122	3046	2764	3017	2875
315170	Poldip3	1081	1112	1111	957	1005	1055	1042	1059
303304	Sgsm2	842	861	831	833	797	828	815	848
29313	Clec11a	80	86	93	82	75	100	92	66
308381	Zswim9	192	214	206	241	228	215	192	198
25507	Pcsk6	454	478	444	460	389	484	442	478
58814	Tmod2	3369	3164	2771	3643	3387	2994	2973	3290
361549	Lgi4	5617.2	5796.47	6069.2	5175	4718	5819	5486	6104.29
298439	Ipp	361.7	394.4	410.74	400.65	347.1	380.9	400.1	402.87
170546	Ryr3	422	432	405	453	429	399	439	405
296050	Emc7	1701	1555	1462	1366	1334	1422	1539	1647
292686	Fbxo46	150	128	147	132	130	136	117	161
315988	Rbm15b	353	317	366	378	356	334	349	342
117021	Nup155	607	661	596	622	616	498	701	613
245903	Magi3	2134.3	2051.06	1869.1	2129.1	2089	1847	2117	1940.56
362137	Wdsub1	275.63	254.06	238.65	260.95	236.3	261.2	263.9	243.92
311118	Tlk1	1876	1820	1788	1892	1768	1723	1956	1757.11
100359829	Smpd5	267.2	285.07	252.02	216.02	256.4	229.7	267.6	242.83
293103	Hikeshi	434	429	418	394	341	416	428	451
294230	Mrps18b	691	670	658	687	618	638	702	685
679958	Slc9b2	35	35	35	24	40	30	30	26
170928	Necab2	128	112	134	99	81	116	131	134
305679	Vcl	2286	2497	2880	2576	2447	2528	2583	2443
498798	Stam	1538	1630	1457	1614	1522	1487	1601	1484
301121	Rfx2	47	48	53	42	37.15	50.06	51.19	47.19
689443	Tbc1d22a	334	318	312	329	309	315	367	272
360842	Plekha6	3890	4235	4284	4447	4329	4233	3785	4118
296126	Snrnp200	2141	2146	2256	2566	2172	2184	2366	2176
690182	LOC690182	25.6	46.61	38.35	34.1	46.78	41.36	18.39	34.78
115768	Zfp37	110.4	104.45	101.43	120.9	120.1	76.02	111.8	119.18
360915	Cops4	2193	2148	1953	1918	1906	2013	2020	2083
252960	Mrgprx3	450	429	327	437	482	361	383	379
312372	Kbtbd2	1534	1535	1327	1399	1407	1401	1486	1367
100909595	LOC100909595	1052.9	1325.54	1135.7	1062.9	1222	1029	991.8	1228.4
25604	Pcmt1	5255	5034	4656	4494	4852	4488	4926	4724
360634	Plekhh3	384	344	420	324	400	384	308	346
362789	Zfyve21	358	463	421	318	327	387	381	429
103694552	LOC103694552	29.07	37.03	42.57	36.07	28.43	32.62	32.7	47.65
83523	Impa1	1162	1140	1038	1086	1032	1014	1160	1118

317405	Gprasp2	1340.7	1315.41	1287.2	1367.9	1322	1280	1305	1282.13
362884	Tmbim4	696	667	667	575	597	616	687	645
29276	Csrpl	4514	4516	4790	4330	3730	4766	4516	4720
293721	Ganab	2553	2742	2823	2738	2501	2759	2689	2657
312490	Paip2b	1369.4	1427.88	1309.4	1399.9	1323	1280	1390	1387.81
288042	Fbxo45	1157.7	1115.73	1037.2	1098.6	1118	982.6	1114	1093.21
140934	Elpl	899.42	1010.86	908.48	969.53	909.3	859.5	967.5	964.91
113894	Sqstml	10836	10957	9459	9889	9167	9459	10790	10779
117258	Cntnl	12459	11540	11818	12768	12767	11443	12703	10555
361467	Lpcat1	519	547	605	550	534	531	562	543
361626	Tmem41b	1858	1809	1712	1595	1674	1703	1752	1685
309441	Twnk	525.52	494.21	514.36	491.53	498.5	485.5	495.4	499.77
290802	Ubxn8	438.47	412.02	385.86	372.31	359.3	371.2	425.8	415.49
502421	Slc35f1	1343	1340	1363	1494	1331	1422	1442	1218
246324	Rab31	985	1130	1159	1132	981	1031	1243	1050
64627	Hist1h4b	493.95	469.74	399.39	377.94	428.1	427.3	402.5	443.24
362905	Emc2	1594	1525	1402	1418	1429	1288	1500	1586
691984	Gpc6	417	342	465	436	364	390	485	383
294963	Mrpl47	408.31	382.5	353.06	374.32	343.1	349.8	394.4	396.08
289323	Nv1	130	162	193	156	156	158.3	152	160
500007	LOC500007	10.57	11.35	15.68	7.45	16.14	5.27	12.91	9.7
680944	Rbmx11	75.77	80.5	79.73	91.83	75.94	70.82	92.35	81.23
64154	Gosr2	1387	1469	1457	1336	1383	1413	1369	1355
363675	Stard3	746	765	754	763	684	762	733	780
361201	RGD1311345	775.74	719.38	723.12	645.31	715.6	651.6	690.2	740.99
685398	Ppplr26	309.83	319	292	271.96	288.9	290.9	287	298.93
81716	Ggcx	412	441	488	418	408	460	460	391
313139	Slc35a1	309.03	300.22	303.06	293.33	266.3	285.7	309.6	316.72
305178	Hnrnpd1	2010	2108	2106	1917	1960	1951	2308	1737
446170	Dear	8.49	7.45	6.4	9.81	11.77	4.27	8.56	6.82
683206	Tnfaip3	140	140	158	179	131	141	160	171
287643	Spop	2143.4	2097.9	2015.2	1995	1978	2025	2043	2018.86
296158	Pced1a	371	402	394	378	377	394	388	351
683504	Zfp639	256	292	271	241	244	251	274	267
29673	Psma6	2480	2395	2305	2147	2041	2072	2411	2592
29240	Polb	320	320	311	331	317	271	334	331
315272	Ano6	1373	1334	1522	1522	1358	1452	1449	1362
299209	Ift43	146	112	130	99	124	117	123	112
365022	Rnf166	277	269	293	268	263	280	279	260
170821	Atxn10	3849	4345	3844	3831	3995	3731	4279	3506
81830	Rab11a	4373	4378	4230	4312	4169	4033	4377	4324
100912096	Zfp113	92	85	90	88	85	83	86	93
303608	Ftsj3	438	493	514	464	493	446	478	449
24547	Mbp	50689	58780	50736	50913	38701	51821	50793	65050
25023	Prkcb	2108	1627.99	1682.1	1813.1	1813	1742	1600	1913.06
361223	Fgd3	81	60	66	60	73	64	75	49
29304	Rps6	5934.2	5582.34	5931	4781.3	5232	4978	5689	5831.25
60466	Stx7	4017	4126	3776.5	3627	3676	3558	3844	4120
366532	Dhx57	1789	1672	1630	1812	1653	1597	1792	1706
360904	Idua	1177.2	1025.39	1169.8	1062	1028	1081	1121	1104.4
307774	Otud4	914	876	977	1022	922	905	945	932
27256	Cntn6	110	114	118	104	106	116	108	106
24161	Acpl	2632	2430	2302	2191	2162	2292	2499	2388
297530	Washc2c	3224	3225	3252	3652	3249	3284	3479	3042
29595	Htr2a	50	44	53	32	51	36	49	39
315133	Ddx17	2211	2061	2209	2338	2087	2091	2325	2119

29149	Strn	1740.6	1868.8	1753.4	1999.5	1850	1766	1827	1755.47
500323	Parp11	162.88	184.19	167.31	181.11	166.1	154.1	176.6	183.14
29521	Scamp1	3475	3462	3057	3262	3520	3037	3290	3113
689488	LOC689488	0	2.88	1.43	2.86	1.43	4.12	0	1.46
291948	Pgrmc1	2738.3	2722.42	2377.8	2599.5	2465	2529	2573	2638.45
192251	Gpr149	781.21	748.6	747.7	738.91	781.4	715.2	712	740.54
297592	Spsb2	261.11	229.01	216.76	200.21	262.6	198.5	222.8	202.94
363707	Srp68	1061	1140.76	1115.7	1062.7	1075	1142	1014	1052.21
85382	Ngb	98	84	80	97	92	81	81	97
316064	Oxsrl	1584	1652	1754	1703	1688	1607	1669	1580
361303	Lims2	1306	1417	1327	1116	1006	1473	1129	1443
100912165	LOC100912165	54.34	57.03	48.71	68.13	68.13	51.22	58.15	45.63
500261	Magi1	1981	1984	1923	2067	2077	1849	1909	1943
114089	Inpp5e	447	400	384	387	346	406	418	412
301352	Mrpl30	37.71	48.91	34.46	42.98	39.37	42.06	33.84	45.14
365380	Jakmip3	322	310	319	353	327	319	314	315
300724	Fbxo22	652	619	618	552	579	599	596	613
296865	Las11	689	636	656	594	652	645.1	640	581
296259	Acssl	371.86	422.87	393.75	398.67	358.4	415.3	330.6	447.78
64553	Akap6	7140	7683	7299	9081	8361	7283	7839	7031
362642	Pqlc2	522.06	476.01	489.07	558.96	522	526	489	464
314949	Rad21	2258	2223	2374	2256	2144	2271	2236	2259
366962	Grap2	40	24	41	31	20	45	37	31
25565	Tle4	857.93	837.15	907.99	901.98	855	877	913.9	781.99
84420	Adcy7	623.04	525	594	576	574	546	649	498
100910231	Zfp82	320.54	337.68	334.99	370.19	370.9	319.2	347.3	296.01
295448	Ints12	215.68	222	240.46	194	214.4	205.3	204.5	228.8
500105	Cntnap2	3124	3141	3065	3493	3485	2835	3373	2848
25309	Cycs	3688.6	3451.52	3434.7	3339.5	3229	2969	3956	3454.93
688999	Hoxd9	412	391	342	357	411	370	363	325
25725	Prkar1a	9902	10226	9815	10010	9718	9589	10151	9618
378774	Pigw	157	147	108	135	122	131	127	155
360577	Nxn	1104	1031	1010	963	1013	963	974	1068
360498	Jmjd8	608.25	624.87	761.21	635.08	617.7	641.1	641.6	671.52
288058	Hacd2	450.15	432.15	436.61	392.92	395.8	416.8	429.1	432.64
24242	Calml	34345	32031.3	32461	33176	33439	30149	32253	33291.93
103694861	LOC103694861	60.42	45.69	35.87	38	56.43	42.39	36.9	40.34
363255	Ankzf1	514.57	459.43	518.57	432.8	486.3	436.3	499.3	461.58
363164	Wdr48	1137	1225	1263	1153	1206	1198	1149	1121
310633	Ubqln4	1103	1101	1134	1167	1083	1186	1098	1040
295647	Gca	545.74	409.32	379.54	538.22	410.1	374.3	485.6	562.05
280670	Lzts3	522	524	500	572	553	481	519	519
309391	Cox15	855.61	799.6	788.71	841.06	800.2	772.4	817.2	823.92
687358	Tvp23b	505	434	468	436	374	445	497	487
83614	Pias3	516	497	533	528	476	495	500	558
361044	Sdr39u1	468	460	419	406	396	424	419	476
288661	Zcchc8	350	302	347	340	324	353	342	291
292622	Bicra	501	531	677	554	542	620	570	482
500909	Ccdc134	127.59	114.35	143.72	111.74	117.8	107.6	139.1	122.1
303158	Larpl	5223.9	5556.02	5830.5	6123.3	5850	5534	5753	5104.76
296081	Ccdc32	1303.8	1324.5	1051.5	1127.5	1198	1093	1235	1177.36
300786	Clpx	562	621	438	508	520	529	526	508
364190	Ras110a	71	74	70	63	66	69	72	65
297336	Usp39	489.57	474	441.14	440.09	442.2	446.5	438.5	477.74
102553760	LOC102553760	61.49	50.38	47.58	63.45	59.37	44.64	53.18	60.9
681367	LOC681367	85.13	94.72	87.42	50.65	77.89	74.49	81.63	77.05

308060	Ccdc127	691	647	653	651	682	567	668	668
685233	Gpatch8	1240.6	1293	1166.1	1340.1	1283	1258	1242	1148.07
499108	Sertad3	91	104	96	80	109	99	81	74
500575	Szrd1	1072	1001	1104	1053	1023	1041	1036	1039
365875	Bolal	124	146	177	111	127	138	104	177
681665	Ints61	352	282	315	307	272	281	363	313
305571	B3gnt2	1247	1241	1136	1121	1246	1106	1155	1136
299258	Golga5	545	513	541	496	477	479	587	507
297867	Aridla	1703.1	1699.6	1914.4	1997	1885	1867	1723	1682.12
311553	Asxl1	825	897	823	856	825	863	804	836
305922	Lats2	1676	1568	1702	1764	1663	1602	1586	1715
499095	Zfp94	130.72	127.43	130.42	122.67	122.3	135.7	124.6	117.68
140544	Pcyt1a	1768	1763	1736	1818	1670	1779	1795	1689
501569	Tmem47	2715.4	2715.68	2505.7	2937.2	2755	2543	2769	2573.27
364754	Fzd8	458	526	480	448	468	470	471	462
64666	Taok2	2574.2	2523	2520.6	2645	2538	2578	2515	2412
24479	Idh1	3777	3801	3235	2956	3626	3489	3358	3001
361213	Sptlc1	728	782	761	765	682	772	777	740
303396	Appbp2	1522.2	1436.21	1514.9	1499.1	1399	1388	1655	1401.86
432358	Elavl4	4567	4716	4691	5091	4636	4648	4977	4396
298851	Slc35f6	642	677	603	700	604	682	622	658
311391	Cep152	58	78	69	76	65	74	78	58
361631	Cyp2r1	56	35	49	46	39	51	45	47.03
300807	Rora	159.77	143.89	120.72	149.12	128.5	163.3	141.4	128.11
368088	Dgkd	995	868	848	898	855	843	971	863
313934	Itsn2	1904	1840	1922	2069	2034	1745	1878	1913
289874	Erlecl	2020.6	1965.77	1919.1	1801.6	1859	1797	1884	2002.45
83582	Polr1b	235	251	238	262	242	259	194	270
305482	Mtmr3	1254	1319	1279	1360	1233	1311	1331	1226
298859	Dnajc27	1556	1522	1364	1573	1586	1411	1381	1509
25387	Arrb1	4023	3838	3902	4270	3964	3693	3996	4039
362668	Zbtb48	109	102	113	100	109	104	102	100
288993	Slc35f5	660	587	557	647	605	565	586	643
300797	Ciao2a	171	166.9	178.02	143.07	167	140	182	156
103689966	LOC103689966	117.42	112.93	52.36	38.96	64.6	59.33	56.61	134.32
293774	Dtx4	1280	1360	1345	1402	1241	1235	1396	1401
362587	Macf1	2954	3011	3498	3633	3313	2954	3311	3241
56725	Cript	1317	1206	1207	1097	1118	1079	1160	1368
361612	P4ha3	123.41	104.52	152.53	111.39	109.2	146.4	121.1	104.76
171152	Taf9b	676.45	617.83	644.04	627.44	654.8	607.6	625.7	623.48
171147	Slc2a13	485	420	449	495	419	458	474	459
102551140	LOC102551140	343.83	358.11	352.02	333.89	325.9	345.8	334.9	351.99
685465	Polr3g	2676.5	2535.01	2443.6	2559.9	2668	2360	2438	2533.98
171128	Gchfr	78	71	77	59	74	69	70	66
293922	Aff2	427	448	468	549.86	485.1	389	536	442.99
303493	Snx11	756	805	733	708	715	719	734	771
60391	Nrxn1	1671	1640	1577	1927	1915	1287	1759	1711
363220	Aff3	805.34	864.08	849.89	1089.1	890.3	864.5	889.3	888.7
192269	Sub1	3240	3201	3099	3076	3020	2851	3120	3361
365085	LOC365085	376.35	371.95	388	395.22	367	354.4	404.4	373.65
501706	Mis12	1003.5	917.53	888.26	918.11	1006	807.4	929.4	906.24
25216	Sdc1	91	77	96	71	72	121	73	62
363275	Eif4e2	382	395	384	371	373	402	350	375
498233	Lgr6	121	118	108	132	128	97	123	121
54269	Mcpt10	36.4	24.26	97.06	0	32.1	33.07	57.63	31.63
362987	Rab12	392	382	313	304	328	346	329	359

309300	RGD1565057	11	11	18	8	13	12	11	11
364835	Sft2d3	106	103	131	92	92	99	110	122
498515	Cdh24	139	143	147	148	154	130	151	130
314855	Cpm	573.23	693.93	569.58	527.77	638.8	515.4	611.4	549.77
682457	Txlna	1318	1138	1228	1224	1242	1111	1330	1123
679641	Cfap57	90	83	84	80	83	73	94	80
309809	RGD1310495	17.86	16.6	12.73	19.25	22.71	15.97	10.24	16.14
499882	Eid1	2955	3022	2997	2713	2759	2594	3115	2977
116551	Pdk1	424.13	414.6	396.5	414.35	388.8	398.1	420.5	407.96
680991	Tubg2	480.08	487.29	420.76	483.3	560.3	441.5	433.1	397.91
246302	Pcyox1	1818	1902	1815	1863	1809	1767	1894	1775
305935	Mtmr6	6128	6024	5853	5883	6088	5621	6066	5619
362702	Lclat1	408	416	377	395	415	369	396	383
259243	Kcnip4	1486	1421	1197	1268	1308	1220	1296	1436.99
688968	Ecd	327	366	346	366	335	388	288	365
691171	Ulk3	148.4	151.32	121.99	149.11	133	147.5	138	140.46
314312	Entpd5	649.4	690.26	688.68	787.53	712.5	668.6	692.1	684.61
361570	Prrg2	34	19	25	19	23	26	19	27
500538	Ybx1	3667	3792	4190	3498	3416	3778	3744	3897
685405	Fam53c	885	948	881	931	891	919	865	895
308106	Map3k4	626	694	718	733	670	693	676	675
140665	Rab3d	1586	1649	1682	1458	1667	1557	1467	1552.99
690262	Yaf2	1369	1332	1260	1297	1333	1195	1313	1309
500692	Heatr4	33	23	20.1	20	29	19	19	27.13
683630	Mat2b	906	856	760	747	822	762	844	774
117556	Sv2b	4253	4500	4045	4640	4413	4064	4300	4304
63839	Fhl2	168	143	179	194	145	183	157	185
541589	Kyat3	214	217	208	193	201	202	198	214
304529	Vsig10	255	256	262	304	259	303	263	230
292027	Cfdp1	937	922	954	957	927	841	931	994
691380	Psrc1	9	9	21	10	9	12	12	15
83833	Smarcd2	663	692	695	645	663	665	668	644
301345	Cnnm3	647	660.01	639.11	608	582	662	631	627
116632	Nat2	21.66	22.43	23.07	28.91	15.29	22.94	30.23	25.65
287302	Mrpl22	305	298	278	247	283	268	260	294
25059	Hk2	192.47	151.23	163.29	201.54	163.9	164.8	170.5	194.97
94203	Pgf	173	151	144	122	169	136	129	144
304445	Glt1d1	287	285	303	256	320	301	243	244
296284	Kif3b	1515	1538	1413	1493	1506	1334	1498	1500
362374	Voppl	2320	2329	2239	1934	2149	2000	2276	2218
117548	Kif1b	12986	13194.2	12454	17051	15594	12044	13986	12932.01
305242	Cdk12	1896	1874	1852	1823	1793	1660	1859	1982
311193	Arhgap1	1029	1048	1113	1052	1029	1057	1029	1041
499994	Zfp804b	79.02	76.07	63.01	112	97	51	90	85.41
363212	Bend6	2544	2600	2307.4	2508	2420	2402	2606	2329.65
685179	Smarcc2	3052	3112	3309	3360	3189	3225	3187	2972
103689999	LOC103689999	1393	1295.36	1110.3	1022.9	1121	1095	1198	1310.78
24561	Mpg	152	142	137	112	133	122	126	151
100911320	LOC100911320	131	146	108	122	116	131	123	126.72
85428	Rhoq	2196.1	2336.27	2284	2364.6	2157	2290	2227	2320.87
684112	Sik3	809	846	860	899	852	915	792	786
292381	Lix1	123	114	119	139	123	116	108	138
304063	Ets2	239	230	293	327	292	272	265	238
304539	Sirt4	73.55	80.98	84.81	79.53	80.16	78.31	74.66	79.3
50622	Slc23a2	1078	1133	1018	1228	1144	1041	1171	1011
293950	Morn4	742	744	687	650	683	697	641	745

360476	Nagpa	146	132	145	122	132	124	148	130
305031	Brox	2078	2081	2118	2105	2018	1983	2145	2067
360699	Dnajc28	112	108	75	102	91	84	84	130
362065	Wls	2511	2612	2399	2701	2175	2517	2729	2596
296188	Sptlc3	275	215	204	250	293	185	223	224
502988	Sesn2	178.31	201	222	210	219	206	200	170
287530	Prpf8	4023	4358	4419	4920	4271	4443	4346	4304
25460	Hmmr	118	104	122	104	117	106	99	117
360620	Wipf2	404	443	437	508	426	402	449	479
83427	Rack1	4033	3792	3974	2936	3676	3566	3458	3739
313707	Exosc10	695	751	715	683	667	756	678	686
307582	Lama3	410	386	404	447	388	373	432	421
307096	Akr1c19	300.99	364	391	293	309	294	396	323
361420	Taf1c	233	189	232	197	195	200	226	213
500262	Kbtbd8	122	128	125	126	119	118	126	128
688757	Tmem200b	38.92	23.51	31.88	28.48	32.79	34.5	31.71	21.34
108349256	Soga3	1809	1843	1869	2200	2195	1568	1896	1908
361715	Rps6ka4	428	402	429	396	421	428	382	391
363064	Wdr61	810	782	802	717	752	738	776	783
287739	Eftud2	1197	1368	1348	1408	1277	1352	1346	1240
317259	Nono	2208	2244	2256	2127	2094	2240	2216	2109
500199	Ptcd3	1005	947	850	964	912	857	993	929
314453	Wdr20	391.66	409.56	351.11	387.47	353.4	349.3	394.6	411.93
299566	Cyp4f39	351	384	381	292	374	378	276	352
309031	Ikzf5	783	805	742	788	798	685	768	805
311441	Trmt6	305	334	288	331	326	300	332	275
116590	Mapk1	4659	4596	4313	4761	4457	4447	4796	4265
312227	Cnot4	966.5	906.98	940.11	1097	992.7	920.6	953.3	966.39
108348156	NEWGENE_2116	523.24	494.84	483.24	499.04	448.4	464.6	529.5	518.22
81800	St13	5258	5402	4916	5470	5181	4861	5295	5292
361729	Cyb561a3	283	296	280	302	272	336	252	278
25613	Ptprz1	1977.3	2035.44	1959.6	2479.4	2155	1806	2277	2045.72
365946	Slc9b1	34	19	21	27	26	30	20	23
295707	Tnks1bp1	2079	2089	2312	2411	2242	2240	2138	2095
361217	Spin1	176.12	179.94	143.99	229.09	174.4	190.2	184	166.09
299113	Klhdc2	1915	1869	1745	1701	1672	1771	1850	1794
309002	Zfp668	176.78	169.13	142.08	157.34	164.2	166.9	161	140.48
100125364	LOC100125364	1012.7	882.07	876.04	772.85	881.5	836.1	893	863.2
502886	Foxj2	635.36	610.11	593.14	680.98	634.6	639.3	602.3	593.63
361745	Smarca2	1648.8	1727.72	1706.4	2051	1813	1814	1733	1632.15
502348	Stard5	44	48	61	50	46	46	61	46
291061	Riok1	534.29	549.54	547.01	478.46	500.9	477	546.2	543.71
313493	Rgp1	964	969.9	961	915	935	947	943	910
678741	Zc3h4	770.21	778.79	805.12	874.14	762.5	849.3	864.3	688.78
293497	Kctd13	400	388	377	362	365	393	368	371
360919	LOC360919	36	34	41	42	27	47	49	27
102552698	LOC102552698	0	0	0	1.53	0	0	1	0.5
499123	Zfp569	0	0	0	1.53	0	0	1	0.5
365468	Lzts2	592.87	593.58	652.7	590.78	597.8	638	530.9	615.68
362094	Mrps2	586	613	600	654	571	624	612	598
306626	Ing1	177	154	190	195	178	170	175	179
313035	Dnajc8	1495	1452	1372	1261	1343	1366	1364	1398
303280	RGD1307929	3966	4151	4086	4294	4217	4001	4059	3898
295105	Schip1	1715	1725	1620	1552	1542	1633	1614	1694
316216	Taf8	287	303	293	245	298	265	263	280
290552	Rft1	196.65	190.05	198.15	176.29	196.7	169.6	185.2	194.89

290905	Col4a1	4949	6157	6974	5965	4940	6720	5703	6215
294595	Ttc37	1298.9	1212.95	1199.9	1377.9	1284	1166	1317	1223.98
300361	Cwc15	1970.8	1842.47	1772.8	1788.1	1820	1699	1757	1954.97
79208	Epha5	351	332	398	415	376	322	442	327
308392	Strn4	920	932	950	967	896	989	926	885
294712	Cenpk	40	32	34	36	24	30	35.25	50
685076	Pgm211	7558.8	7601.57	7111.8	8067.7	8468	6442	7471	7370.97
688466	Usp21	356.61	290.82	368.25	332.38	312.6	325	367.5	317.02
84380	Dhh	1468.3	1724.91	1828.4	1381.8	1524	1631	1711	1413.24
81759	Renbp	159	168	163	132	122	155	167	166
102553866	LOC102553866	98.24	123.21	99.14	101.96	97.02	96.47	107.6	113.32
303630	Wipi1	602.32	677.08	707.75	594.61	545.7	645.4	666.8	674.2
246232	Uxs1	1536	1451	1385	1339	1426	1373	1463	1339
103693222	LOC103693222	8	18	14	12	13	11	12	15
297455	Lsm3	353	291	308	245	280	268	316	310
309150	Carns1	742	777	763	634	644	823	666	727
361043	Tm9sf1	514	465	518	482	489	472	505	475
499615	Lhfp16	781	763	940	798	705	779	854	881
282845	Rnf34	597	617	561	570.99	549	572	584	595.99
302987	Unk1	625	604	563	563	600	557	559	594
246326	Zdhhc2	6030	5830	5679	5329	5545	5350	5842	5695
25513	Pik3r1	4115	3882.73	3841.1	4206.3	4403	4314	3803	3219.22
690746	Spag17	5.23	2	3	3.95	2.16	3.55	1.16	7.04
25675	Hmgcr	2858	2922	2633	2960	2590	2635	2859	3073
365476	Cfap43	43	33	42	40	39	31	42	43
312640	Emc3	2038	2014	1987	1759	1762	1826	1977	2085
314856	Mdm2	494	574	534	453	524	459	544	489
500882	RGD1564548	3.78	1.35	2.19	3.22	3.04	2.13	1.66	3.51
296956	Ube2h	2551	2658	2548	2628	2412	2534	2675	2567
305365	Slc25a52	26.48	36.02	35.33	19.75	32.04	21.62	31.11	30.58
367384	B3gnt11	285.15	265.8	282.46	250.81	285.4	237.4	265.6	275.3
686189	Cabyr	558	520	503	531	472	525	539	536
287276	Sar1b	745	739	784	692	653	747	678	826
300751	Rec114	32.95	34	18.02	25	14	15	58	20.89
311591	Rprd1b	399	398	418	424	388	455	371	394
301004	Qrich1	941	951	987	928	1001	1018	879	837
65035	Nr1i3	22.64	34.87	35.72	21.51	30.11	26.41	28.51	27.54
305443	Trmt44	135	109	124	109	107	131	117	113
303586	Wnt9b	32.01	21.84	26.49	26.2	27.82	22.73	33.75	20.23
302899	Txndc11	386.54	412.87	435.3	428.57	424.7	411.2	412.5	383.44
63868	Hspd1	4110	4246	3778	4039	3737	3795	4245	4091
298942	Dld	2937	2929	2639	2844	2674	2610	2860	2991
81536	Sgpp1	1264	1223	1141	1201	1189	1134	1164	1251
308523	Tshz3	458	516	572	630	555	505	529	546
29578	Hnrnpa1	3563.6	3361	3604.6	3399.6	3537	3291	3485	3354
307270	Me2	957.63	972.57	897.1	970.21	913.1	845.1	963.6	1004.18
29561	Lsamp	2332	2214.19	1860.6	2518.6	2383	2170	2309	1895.97
100188933	Fam229b	109	100	89	74	94	80	99	92
288165	Pcnp	2923	2741	2802	2489	2719	2593	2664	2773
81707	Mmp14	1686	1846	2015	2123	1713	1862	1997	1954
100361520	Rpl37a	2554.4	2208.78	2333.5	1756	2275	1948	1955	2507.98
314942	Csmd3	64	77	85	94	83	53	92	86
299334	Cinp	519	501	499	459	454	490	466	531
315023	Slc25a32	257.98	259	225	220	220	231	252	241
304851	Trmt11	437	404	366	400	385	396	415	381
300850	Gsta4	526.87	586.9	520.88	436.72	367.2	499	571.1	595.43

316327	Arid5a	127	104	151	182	115	154	157	127.49
689043	Fam19a4	125	119	97	142	96	125	101	152
307288	Gramd2b	229	222	217	191	205	208	224	206
304809	Kdm5b	653	674	703	762	663	698	692	687
308267	Tab2	1213	1139	1311	1334	1111	1249	1283	1261
362919	Washc5	2074	2130	2074	2109	2008	2093	2094	2036
25233	Akt2	921.81	894.01	937.05	821.06	856	959.8	824.9	866.81
266766	Rcan1	1408	1394	1483	1365	1287	1376	1461	1421
317413	Morf412	4157	4082	4003	3801	3844	3679	4137	4085
50568	Cspg5	151	111	102	122	127	101	131	118
297708	Pyroxd1	282.31	261.47	280.35	267.07	239.8	257	282.6	291.54
305287	Exoc1	1506.4	1621.74	1573.2	1450	1486	1434	1542	1576.41
498008	Hexim1	718	679	696	611	680	679	610	685
170922	Ilk	2779	2723	2747	2409	2550	2666	2637	2608
305417	Lgi2	571	481	499	615	546	514	523	543
306665	Ice1	1420	1471	1503	1511	1580	1310	1444	1462
499285	Adam8	120	123.1	135.01	101.04	140.1	112.1	113.1	105.04
308890	Btdb10	792	870	824	773	795	762	842	800
114113	Pafah1b3	474	423	369	418	376	381	429	467
365802	Selenot	4949.9	4716.14	4595.6	4898	4769	4378	4881	4779.36
266732	Npc1	805.56	864.2	919.26	1033.9	826.2	919.4	930.7	880.2
304920	Klhl20	1229.4	1194.65	1043.9	1168.9	1224	1080	1167	1080.42
499219	LOC499219	7.73	7.33	6.38	8.55	9.44	7.07	6.72	6.21
361409	Rfwd3	154	163	161	122	140	129	163	157
300197	Zfp641	157.08	149.55	184.22	134.63	144.9	131.7	172	165.43
363520	Irak1	1583	1546	1631	1463	1510	1596	1542	1461
301535	Stk11ip	487	508	529	497	535	459	490	500
309642	Def6	180	204	187	194	211	176	179	185
25469	Kcna4	537	574	582	603.02	562	499.1	635	558.01
316737	Lpin2	597	536	578	588	600	536	573	548
299612	RGD1359127	267	271	272	233	258	259	264	243
362316	Cdk14	4524	4791	3974	4888	4497	4393	4666	4290
366265	Rab22a	917.62	917.51	896.46	941.06	904	924	885.2	892.78
295543	Pigk	968	1021	1022	957	956	960	1010	970
140661	Rplp1	5138.8	4888.68	5382	3746	4536	4468	4226	5578.1
303369	Lig3	832.33	771.08	854.29	899.96	769.9	898.3	831.6	797.06
292768	Yif1b	618.45	871.79	683.52	653.66	643.2	658	823.6	651.32
292765	Ggn	27.05	28	25.02	22.04	27.1	25.09	23.03	25.04
686103	Frg1	336.94	327	369	310	306	336.6	351	325
25135	Ncl	4013	3807	3982	4037.7	3960	3678	4104	3811
89827	Ddx39a	219	208	226	178	178	189	232	217
305552	Wdpcp	146	135	128	90	112	140	120	118
100360752	Ccdc122	48	40	34	46.14	28	53	35.11	49
58854	Psmb4	2908	2881	2622	2355	2608	2489	2621	2854
108348189	LOC108348189	60.74	71.07	50.21	52.73	44.64	56.97	62.76	66.15
361418	Hsd1l	1835	1897	1852	1688	1888	1695	1787	1771
338474	Tmem132a	921.65	965.21	1086.6	860.72	919.6	964.9	1023	858.09
296360	Pigt	1963	2148	2242	2207	2022	2173	2095	2116
362427	Mical3	637	702	727	781	690	702	715	689
171357	Ptprg	517	531	540	646	634	539	514	507
83577	Itgae	118	106	84	83	75	86	105	118
289924	Psmd6	3427	3361	3147	2968	3055	2950	3297	3370
81920	Ube2d3	5920.1	5822.81	5669.7	5866.9	5603	5504	6027	5729.81
295342	Rhoc	1443	1341	1498	1313	1264	1325	1448	1458
116465	Ifngr1	1160	1146	1226	1112	1068	1153	1181	1159
100909392	LOC100909392	169.65	148.06	180.78	179.23	144.1	193	149	179.58

100125374	Adat3	45.79	42.15	47.66	29.64	47.39	32.49	39.31	43.1
308473	Samd4b	852	919	1033	1062	957	1045	924	871
499529	Ndufs4	1747	1720	1609	1544	1537	1543	1668	1754
29709	Gabrg2	3565	3263	3025	3484	3279	3182	3427	3212
313048	Rbbp4	1123.4	1085.67	1077.9	1042	973.6	1016	1165	1097.71
117557	Tpm3	2319	2336	2426	2227	2306	2316	2356	2165
303024	Fbxw11	2996.9	2933.11	2842.5	3129.5	3141	2865	2932	2753.43
25024	Gipr	32	30	23	28	26	32	27	26
292750	Plekhg2	1505	1823	2089	1937	1558	1913	1933	1820
365865	Pip5k1a	562	599	563	539	586	576	572	489
103690996	LOC103690996	1676.8	1500.43	1243.3	1242.2	1125	1427	1332	1678.86
103693323	LOC103693323	1649	1688	1466	1559.9	1338	1713	1518	1682
287150	Fam173a	253	289	282	252	234	263	286	274
303774	Tnrc6c	830	905	1004	949	981	933	861	848
29194	Chka	1101.3	1065.96	990.8	1023.6	1005	1035	1059	1009.42
192154	Hip1	1588	1576	1516	1681	1627	1559	1584	1479
116631	Nat1	72.05	59.72	94.44	59.35	49.78	68.4	83.01	79.35
64634	Sh3bp4	578	544	560	594	566	540	537	593
690853	Aatk	6858.9	7157.4	7683.8	6299.7	6463	7688	7383	5973.88
298675	Rer1	931	1007	1043	892	888	972	979	966
100912391	LOC100912391	0.69	4.45	1.14	0	2.61	1.09	2.47	0
289312	Acbd3	1323	1431	1371	1371	1315	1346	1424	1315
305854	Sall2	477	493	473	561	536	526	440	467
305501	Ikzf1	80.99	58.37	81.25	70.36	93.77	80.1	54.66	57.36
66018	Pdgfd	161	136	108	168	147	116	143	157
311114	Klhl23	368.12	351.35	346.66	328.22	330.8	322.9	341.4	374.91
294287	Phf1	804	757	737	692	709	687	746	796
307540	Celf4	1196.5	1182.1	1299.8	1252.8	1334	1136	1178	1197.82
312559	Chchd4	144.5	156.45	137.14	141.98	148.6	149.4	127.6	144.48
363875	Rac1	7407	7769	7785	7345	7070	7582	7640	7488
79248	Abca2	5443	6052	5843	6001	5707	6039	5734	5454
362697	Ppp1r21	803	765	690	739	765	752	731	697
116500	Snap29	1240	1127	1197	1223	1156	1165	1174	1209
315689	Hmg20a	948	1017	1022	1058	1038	929	1029	979
81732	Actr3	4864	4847	4663	4310	4512	4380	4862	4607
103694537	LOC103694537	176.16	178.24	190.04	193.72	174	175.9	186.9	188.56
360777	RGD1563400	38.59	35.05	34.83	18.61	30	21.87	52.21	20.81
100188936	Ormdl1	177.85	191.88	174.01	154.91	165	161.8	193.8	166.01
303604	Map3k3	643	651	711	610	651	640	653	626
308739	Rgma	302	290	322	307	286	265	293	356
313049	Zbtb8a	82	94	94	79	81	92	79	91
361634	Ccp110	862	837	833	910	833	746	975	829
361485	Ermard	489	520	471	504	536	452	470	492
364975	Gcdh	754	831	686	706	679	726	710	811
299824	Tbc1d30	424	411	400	462	417	417	411	423
499766	Ttf1	182	200	192	188	175	182	192	200
25596	Rpn1	3940	3903	4042	3707	3830	3685	3981	3830
292404	Phf10	296.26	282.93	332.96	325.15	296.5	292.9	318	308.8
289993	Cdkn3	47	44	61	24	48	48	43	34
296618	Wdr34	196	174	187	147	179	172	152	189
498453	LOC498453	182.89	222.98	173.16	147.99	185.7	176.6	171.5	180.86
362485	Ccne2	119	128	140	84	114	113	123	113
360682	Wdr45b	1002	956	950	921	987	909	961	907
311478	Kif16b	960	1044	1049	1131	1099	949	1085	980
100912964	LOC100912964	21	8	18	12	15	11	15	17
304203	Lrrc8e	21	35	38	24	22	27	32	35

679837	Adam12	150.54	144.89	240.74	151.91	135.4	149.9	219.2	171.97
688540	Mast3	1114	1053	1255	1188	1129	1230	1141	1032
312667	Ankrd26	168	191	188	222	206	149	199	202
687008	Pcca	344	352	317	289	295	314	317	354
124440	Rpl41	5560	4292	5414	3380	4445	4021	4245	5620
305610	Em16	475.38	471.08	430.85	453.46	460.7	423.6	420.6	495
303201	Usp22	1469	1595	1354	1687	1533	1499	1480	1490
308896	Usp47	1766	1700	1694	1776	1691	1677	1808	1643
291996	Nob1	558.03	474.11	542.01	473.02	522.9	473	498.7	518.02
689779	Tctn2	183	149.1	178	151	141	173	163	173
499015	Serac1	438	455	408	486	464	409	454	430
29480	Rgs4	24372	24803	23271	22034	22937	21238	22595	26128
360619	Gsdma	130.33	104.22	121.42	106.21	113	110.2	119.1	112.14
100366030	LOC100366030	21.6	23.82	40.05	25.91	23.82	24.76	29.68	31.26
366790	Pym1	244	314	335	245	288	253	291	287
307249	RGD1308601	543.08	504.32	519.75	556.2	516.7	526.6	513	531.73
316663	Fbx117	400	456	394	431	418	413	412	410
314273	Dcaf5	1111	1120	1131	1215	1130	1139	1159	1073
361365	Polr2c	548	515	499	426	460	505	486	504
498517	Khyn	278	269	269	269	257	266	281	263
84026	Dnaja2	2415	2360	2243	2206	2309	2165	2316	2281
316602	Hjurp	148	124	145	126	130	141	130	133
25379	Anp32a	562.39	526.61	584.6	508.98	526.1	496.4	509	614.99
25574	Ubtf	1379.5	1380.25	1513	1474.4	1414	1353	1472	1412.86
308345	Kmt5c	601	570.99	647.84	573.3	587.7	591	649	526
361184	Cars2	300	296	265	232	253	277	298	247
315579	Ubash3b	4746	4821	4836	4846	5028	4547	4836	4521
362900	Rnf19a	2244	2324	2003	2298	2224	2241	2061	2197
362671	RGD1304567	212	187	194	136	180	174	188	175
292721	Erf	572	541	587	550	601	595	541	476
287979	Par1	448	445	404	406	427	405	441	402
292306	Rnaset2	662	608	661	563	573	588	646	646
102553825	LOC102553825	251	274	254	316	315	244	269	249
685284	Hspb11	122.97	142.45	135.46	119.93	117.8	118	134.2	142.25
303673	Mrpl58	489	475	472	392	441	431	433	493
108348098	LOC108348098	332.4	332.4	215.08	312.85	215.1	332.4	410.6	215.08
84013	Hsd17b12	2224	2312	2081	1926	1902	2098	2167	2236
100322884	Nemf	1172	1135	1404	1111	1234	1083	1275	1151
300114	Rt16	1495	1543	1562	1639	1486	1529	1481	1641
108348727	LOC108348727	13	16	26	27	30	9.66	21	20
309565	Med23	515	483	521	562	499	522	526	500
290749	Irf2	502.97	544.35	507.59	467.17	491.1	513.9	485.7	498.37
171562	Erola	759.01	693.65	730.92	776.56	803	665.5	721.5	721.9
116699	Inpp4b	219	188	190.84	189	211	156	227	180
24874	Vhl	862	876.07	739	903	746	805	915	859
25696	Vldlr	745	695	673	712	713	684	679	703
306504	Trmt9b	172	193	191	243	238	177	187	184
83835	Chic2	115	99	111	106	106	112	110	96
102551846	Zfp174	85.04	86.03	83.21	78.08	77.88	83.31	92.5	73.28
369017	Krt5	9	20	8.27	9	7	15.28	10.24	13
171102	Cdc25a	266	271	268	306	273	259	308	253
140654	Rps3	3017	2924	3031	2265	2775	2684	2651	2945
116564	Npr2	2382	2354	2475	2547	2405	2482	2453	2260
363136	Tmem115	569.9	647	644	606	537	692	635	563
363243	Klf7	1616.5	1573.44	1474.6	1862.6	1873	1490	1593	1464.76
289623	Ube2k	2023.6	1975.41	1815.4	1942.2	1901	1905	1937	1888.36

140639	Nploc4	2226	2334	2134	2223	2164	2234	2481	1894
291439	Mbd1	651	672	674	666	628	667	649	676
100910528	LOC100910528	274	200.07	197.65	199.65	211.6	196.7	197.7	251.22
116568	Ggt1	15	10	21	16	12	15	15	19
361171	Golga7	2931	3093	2766	2633	2698	2747	3073	2721
287417	Rpl26	4320	4130	4417.7	3393.4	3799	3589	4020	4591.86
170567	Slc38a1	2258.4	2337.98	2069.7	2392.3	2105	2326	2338	2143.4
64196	Safb	875.77	972.48	926.34	950.89	915.4	945	875.4	929.86
365601	Atg5	652	650	573	616	601	623	647	580
103694158	LOC103694158	1.04	0	1.08	2.24	0	1.1	3.19	0
308965	Chp2	534	482	481	499	491	493	488	492
29258	Rps7	4597.1	4464.57	4515	3571.6	4283	4007	4183	4400.81
291031	Fam8a1	2318	2267	2127	2170	2130	2070	2247	2293
100361188	Etfrf1	224.84	186.45	161.94	135.33	145.9	151	205.7	194.78
24398	Gls	5909.1	5729.84	5504	5657.1	5961	5213	5789	5473.31
360572	Rpl23a	5858.1	5683.8	5440.8	4675.1	4989	5115	5429	5780.08
83712	Rbbp7	2924	2761	2668	2584	2617	2466	2917	2763
287709	Rab5c	2888	2781	2985	2608	2634	2757	2966	2726
103694867	LOC103694867	32	24.1	41.75	26.17	36.17	29.36	32.25	24.27
288700	Rab35	1147	1057	1120	1085	1139	1096	1042	1062
360998	LOC360998	411.38	528.66	437.65	484.98	485.8	449.6	411.1	486.69
114211	Mtnrla	15	17	16	15	18	12	14	18
298436	Tspan1	47	53	52	37	29	48	47	62
296462	Mtg2	314	339	318	291	300	339	310	293
26955	Afdn	779	764	868	998	863	781	885	826
171413	Spata6	430	409	404	403	369	402	417	432
680825	LOC680825	1.32	0	1.48	1	0	3.74	0	0
140925	As3mt	204	189	180	187	178	173	202	195
497994	Krt222	325.28	320.24	296.31	370.18	308.7	332.9	332.9	316.81
81022	Stxbp5	1431.4	1463.31	1433.6	1536.8	1468	1409	1530	1364.76
25578	Ywhaz	31366	31058	29414	28778	30474	28644	30307	29288
286897	Dpy30	596	596	547	543	517	491	567	671
315283	Pced1b	176.25	188.27	173.65	188.31	189.2	208	175	142.82
117043	RragB	468.23	605.55	354.9	522.13	576.9	379.4	585	378.73
25670	I115	85.87	70	72.31	72.48	48.64	87.22	87.49	72.57
117541	Smu1	807	788	795	719	788	698	754	820
64313	Oat	2595	2460	2394	2265	2203	2324	2549	2485
171060	I113ra2	64	20	23	20	41	29	27	28
25747	Ppara	186.89	208.14	185.74	202.27	204.8	213.7	151.1	201.15
360564	Tax1bp3	1594	1760	1808	1380	1360	1693	1649	1737
310849	Sgms2	169	161	183	186	192	162	199	135
304766	Ubxn4	2413	2594	2416	2554	2409	2489	2559	2363
25664	Pparg	49	80	50	76	54	75	75	47
296394	Dpml	804	723	667	676	643	684	749	749
304731	Tmem185b	397	388	362	389	342	397	390	383
25530	Rab12	169	180	191	164	168	185	172	168
287420	Pfas	762.2	773.79	789.33	772.77	801.9	749.5	762.5	735.87
25468	Kcna2	12531	12496.2	11548	15000	13352	11562	13700	12157.39
286971	Fut11	134	153	152	139	147	119	143	160
313873	Fam98a	1201	1212	1127	1156	1097	1189	1215	1122
83828	Gtf2a2	379.48	334.64	342.89	247.09	302.1	314.5	333.9	333.34
170905	Lfng	268	253	366	208	292	275	245	266
291320	Mindy3	4194	3943	3634	3766	3736	3716	3876	3968
493865	Gimap9	60.44	61.06	64.48	45.47	63.3	50.66	43.01	70.89
292537	Oscar	14.25	11.91	19.47	9.19	18.41	9.97	14.16	11.43
500989	Zpr1	695	704	699	611	741	619	667	640

292199	Kiaa0408L	3396	3356	3469	3716	3444	3492	3437	3348
25109	Cd1d1	54	34	61	45	52	42	42	55
367214	Oard1	203	199	197	177	181	199	194	190
303639	Abca6	1179.6	1182.25	1086.9	1261.9	1206	926.6	1215	1290.47
81519	Mgat1	604	608	624	561	600	568	595	597
29361	Sox10	2738	3143	3185	2790	2800	3059	2715	3099
286888	Wfdc2	77.97	64.66	56.75	62.89	62	76.14	59.09	61
307459	Arhgap26	470.9	490.46	508	535	479.7	488	502.3	503.48
300663	Ccdc153	14.8	11.28	13.02	12.89	14.34	7.47	12.05	17.33
499020	Wtap	1586	1504	1496	1459	1478	1371	1566	1537
50577	Galr1	109	90	125	131	149	78	136	85
63997	Slc29a1	278	296	266	266	280	302	258	249
361344	Mppel	417	443	426	406	420	418	427	401
304017	Tomm70	2249	2270	2061	2401	2377	1936	2390	2140
364823	Klhl14	86.87	92.01	123	106.36	88.9	113.9	116.7	82.51
85434	Cdc5l	956	987	981	994	952	947	970	989
170751	Xpnpep1	1399	1380	1363	1214	1179	1342	1336	1417
29398	Stk10	459.47	469.49	567.2	508.91	487.9	525.1	490.3	471.14
308069	Slc12a7	860	915	957	929	832	857	930	986
299246	Ttc8	219	207	220	204	192	207	228	210
360772	Zfand2a	1323.7	1271.68	1225.5	1181.2	1224	1185	1247	1269.53
311647	Prex1	1497	1538	1523	1789	1551	1566	1548	1585
29241	Adcy8	275	285	303	315	291	267	296	306
288647	Dhx37	295	341	308	366	326	314	324	326
311529	Ninl	131	126	127	140	133	124	149	110
84589	Rab9a	502.23	422.6	434.86	441.86	411.8	439.4	464.2	458.73
690253	Preli3a	425.97	416.36	383.23	457.1	388	469.7	419	380.35
24600	Nos3	140.06	150.86	160.32	118.41	156.2	137.7	151.7	115.43
58940	H2afz	674	681	660	542	627	583	612	696
100362980	LOC100362980	305.28	255.46	281.33	267.24	253.7	277.8	309.7	251.3
362164	Atg13	1371	1455	1293	1397	1418	1307	1298	1409
315126	RGD1359634	152.51	105.83	94.76	88.59	90.39	128	102.7	113.84
246136	Man2c1	663	644	633	632	597	675	656	605
286975	Skap1	13	18	15	20	20	18	15	12
59268	Ip6k2	975	906	871	878	880	930	896	869
292101	Sprtn	278	234	273	207	234	255	248	240
100911682	Actl10	145	119	153	113	124	136	134	128
24854	Clu	15896	15763	18955	17134	16425	17338	16910	16053
301622	Dtymk	614	527	502	413	502	448	557	518
50998	Coil	224	203	227	210	200	239	211	201
313583	Sf3a3	619	586	560	562	564	585	566	577
362228	Naa20	852	831	806	703	715	793	779	857
289352	Eprs	3733	3965	3925.3	3975.3	3779	3812	4094	3679
108348230	LOC108348230	98.9	123.27	119.64	131.21	131.2	105.5	121.6	107.69
300211	Fkbp11	56	61	91	59	72	75	53	63
286936	Pcytlb	2250.1	2135.77	1993.4	2258.1	2138	2087	2186	2097.06
84686	Ppp1r9b	2012	2093	2245	2292	2227	2124	1994	2168
24775	Shbg	109	111	107	75	115	103	94	84
155918	Lcp2	149.27	146.12	149.76	134.8	165.3	161.3	118	126.67
94167	Prdx6	1203	1261	1207	1090	1056	1235	1218	1181
500233	Exoc6b	2292	2471	2131	2648	2361	2345	2504	2190
362787	Mok	95	86	86	69	77	92	86	76
305452	Fam193a	922.4	967.92	983.33	1125	985.4	1062	989.8	901.82
288587	Alkbh4	115	101	101	87	100	110	93	95
289990	Psmc6	3020.4	3011.76	2782.4	2722	2696	2565	3029	3075.67
498902	Cmt4	196	220	207	253	240	181	221	221

498418	Wdr92	240	242	241	221	225	241	230	234
684122	Asap3	329	275	337	409	308	301	332	389
689765	B3glct	533	523	499	538	503	513	524	522
289362	Gpatch2	403.35	403.6	417.18	445.36	409.2	431.1	425.7	378.81
313219	Zfp189	205	158	160	156	180	143	186	160
497867	Nudt1611	426	385	441	378	397	410	406	393
287721	Vat1	6076	5896	6483	5389	6666	6007	5245	5575
685539	Gtf3c4	562.41	608.62	587.84	586.17	582.9	535	597.2	595.48
311468	Taspl	148.06	202.22	145	166.72	181.6	145	170.7	155
297481	Eif4e3	300.95	304.1	296.12	277.31	268.5	314.9	291.6	286.13
304294	Rnf216	496	538	504	575	504	522	525	531
314386	Gpr68	471.35	452.14	469.87	404.33	409	467.7	377.3	517.33
313582	Fhl3	165	188	239	158	147	243	193	156
502479	Afg11	99	92	85	65	73	78	94	91
685243	Ackr4	30.89	37.48	51.33	23.62	33.5	44.75	28.67	34.3
287986	Eif4g1	6172	6373.71	6615.9	7264	6510	6686	6467	6374.65
296121	Usp8	2254	2284	2216	2474	2331	2225	2365	2172
361957	Mfsd1	1159	1076	1108	1032	1094	1114	1029	1074
81520	Marcks11	1800.6	1923.07	1979.6	1766	1676	1911	1883	1889.68
305544	Aftph	1397	1494	1391	1398	1332	1396	1523	1346
103692087	Atp6v1fnb	19.12	19.94	19.92	16.36	20.38	12.85	12.85	28.16
311799	Ndor1	248	198	231	214	216	225	244	193
291406	Zfp516	717	666	685	743	724	663	732	651
296619	Pkn3	123.34	107.94	114.8	103.34	114.9	96.82	128.3	102.9
361401	Pla2g15	374	377	409	354	391	378	331	392
287109	Kctd5	1051	987	1013	876	1023	891	927	1029
304290	Kdelr2	820	830	915	880	781	894	860	860
304282	Baiap211	887	863	890	943	855	918	920	838
94201	Cdk4	912	952	974	819	803	923	899	979
311396	Atp8b4	19	13	29	8	12	11	31	14
295500	Metap1	872	809	778	784	809	764	807	816
287531	Rilp	92.37	88.12	70.78	64.16	63.53	72.7	84.71	89.92
361005	Chchd1	520	519	533	430	496	441	471	565
292543	LOC292543	3.93	0	2.06	4.37	2.5	2.41	4.27	1.03
313554	Foxj3	820.31	782.64	860.17	850.79	864	756.5	832.7	812.83
116696	St8sia4	68	75	65	69	67	49	80	77
500558	Gmeb1	185	197	217	232	214	202	198	205
500847	Dtx3	986	863	899	859	913	888	867	887
296091	Pla2g4e	93	75	55	124	68	93	96	85
308795	Tlnrd1	555	552	604	512	599	538	525	529
362599	Trappc3	1004	893	923	796	862	847	894	961
311361	Wdr76	129	151	130	148	141	136	145	128
83531	Vdac2	4373	4266	4058	3707	3816	4082	4096	4175
361274	Nudt5	198	224	177	199.41	184	191	214	198
312444	Immt	2817	2815	2617	2690	2582	2698	2884	2619
689130	LOC689130	7095.1	6199.58	6674.6	6247.1	5545	6187	6533	7577.21
311952	Galnt11	968	959	859	866	920	855	875	950
102550609	LOC102550609	32.29	9.53	16.99	33.99	21.35	36.87	10.12	23.14
81531	Pfn2	2412	2095.22	1924.7	2143.9	2607	1900	1827	2119.53
294499	Fam241b	334.05	328.73	308.08	287.53	304.8	291.3	302.6	341.81
500368	Far2	136.36	89.93	84.72	102.63	99.04	94.51	101.7	112.57
312108	Ophn1	904	886	866	868	898	830	816	930
360803	Snrnp35	319	272	292	246	286	280	278	269
116501	Slc9a3r2	2338.4	2423.77	2336.7	2265.9	2336	2419	2287	2190.16
25363	Acadv1	1476	1488	1468	1364	1336	1459	1498	1421
309197	Hnrnpul2	1578	1665	1708	1851	1774	1636	1730	1566

315741	Paqr5	564.63	521.35	576.01	595.1	536.5	544.1	541.9	602.77
313594	Ago1	501.17	523.53	563.61	544.52	555.8	519.1	485.3	542.49
83841	Sdcbp	10866	10714	9353	9418	9653	9392	10048	10689
58815	Glrx3	3504	3388	3019	2935	3040	2874	3285	3466
246323	Aard	29	36	33	44	40	29	39	32
289994	Cnih1	2530	2413	2397	2176	2255	2185	2479	2463
361811	Srpk1	1245	1268	1196	1265	1296	1167	1274	1167
690777	Rufy2	2082.3	2083.08	1883.3	2040.6	2039	2008	1961	1966.83
29726	Slc22a5	292.95	262.92	275.85	299.97	256.6	301	272.3	285.94
360464	Parn	400	397	389	381	386	375	397	387
365252	Zdhhc13	491	466	435	461	411	476	470	470
498434	Gpr75	124	135	114	126	124	119	127	122
363068	Comm4	684	601	586	484	601	584	579	558
314548	Osgepl1	526	419.78	394.68	364.04	411.5	398.6	442.9	427.64
294900	Tpd52	5667	5777	5494	5201	5506	5087	5599	5637
363584	RGD1560464	377.01	351.45	310.75	320.2	338.2	348.5	349.3	304.5
296751	Pus7	232.73	211.74	225.62	239.74	200.3	227.7	231	238.08
102238592	Ak6	171.52	150.58	175.64	163.18	147.3	138.7	186.3	179.43
25621	Cd81	13290	13625	14536	12184	13177	13654	13334	12725
306991	Vps41	6222	6040	5643	5775	5843	5281	6156	6072
362957	Ankrd54	222	185	180	209	201	188	204	192
498193	Fam222a	135.02	153	148	140	133	163	119	153.04
100196907	Tmem59	4111	3970	3798	3683	3597	3784	3998	3968
83765	Rtn4	24416	24432.9	22857	25804	24792	23077	25288	23005
362973	Parvb	2247	2391	2243	2469	2438	2159	2217	2407
117268	Khdrbs1	1662	1664	1760	1585	1563	1711	1629	1676
363004	Prr13	1991	2005	2001	1766	2091	1854	1812	1899
114481	Dnajc14	1251.5	1243	1260.6	1327	1256	1184	1283	1289.44
81754	Rabla	3980	3945	3815	3665	3700	3625	3915	3953
58974	Gabarap	3652	3470	3436	3186	3295	3271	3369	3621
362683	Heatr5b	919	959	1017	1054	984	951	1030	930
361719	Spindoc	206	208	209	182	190	226	182	196
362275	B4galt5	510	542	629	517	527	540	554	547
291733	Slc39a6	1040	1067	1196	1240	1182	1075	1115	1109
297995	Chmp5	1722	1727	1649	1575	1580	1568	1704	1730
680080	Tomm5	1238	1168	1098	1071	1181	1089	1085	1158
499083	Zscan18	224	210	237	215	230	194	241	209
363545	Naa60	1253	1286	1138	1292	1211	1247	1195	1248.73
287877	Pycr1	70	102	66	59	75	85	69	64
299827	Tbk1	929	882	786	820	829	844	859	839
361202	Gkap1	403	414	396	422	399	322	447	445
310635	Arhgef2	771	752	778	826	781	789	730	785
307893	Gan	441.67	473.44	483.48	597.89	587.6	403.5	483.7	494.81
291713	Rit2	1347	1296	1141	1132	1192	1190	1231	1237
100359967	Zfp560	332	274	230	282	252	277	271	303
363213	Ccdc115	377.39	352.57	386.98	318.82	343.3	353.8	353.2	366.22
690585	Alyref	656	634	699	551	616	595	674	621
24710	Rbp2	73	85	84	58	71	59	92	74
361799	Dxo	135	124	133	133	144	143	121	110
102547753	LOC102547753	29.29	31.86	31.93	31.46	35.2	13.11	36.32	38.25
363720	Chmp2b	848	876	876	854	797	743	976	892
498951	I134	597.02	627.7	808.36	651.71	721.1	700.9	570.3	656.74
360854	Arpc5	3081	3147	3072	2650	2767	2824	3053	3147
362566	Lrrc41	1025	1086	1028	995	1042	1007	1017	1013
114524	Ntn3	108	115	98	130	131	91	103	120
501069	Golga4	1624	1637	1492	1864	1671	1530	1727	1601

303122	RGD1310352	1945	1856	1798	1776	1759	1770	1874	1874
313166	Nfx1	931.77	875	899.01	926.17	908	896.8	887.2	891.73
300723	Hykk	101.5	63.04	72.94	96.86	103.1	71.79	82.72	72.34
297902	Gem	45	51	51	79	59	57	60	47
361625	Nrip3	3722	3687	3720	3792	4038	3581	3643	3461
497757	Gucylal	207	138	172	162	140	202	179	149
553106	Ncald	3572	3751	3529	3562	3787	3402	3378	3656
295661	Spc25	41	44	48	18	41	35	34	39
304332	Dnaaf5	266.81	243.44	258.14	286.21	254.4	280.4	227.4	278.46
27137	Eif2ak1	1193.4	1299.35	1126.6	1272.4	1227	1206	1157	1237.01
298992	Noval	162	184	200.99	209	163	175	215	193
84424	Tle3	687	746	813	782	706	809	794	679
25062	Gpd2	1062	1095.28	1063	1111.6	1154	1022	1029	1070.02
296753	Srp2	1841	1835	1766	1904	1826	1778	1882	1763
685888	Sdhaf4	317	289	263	267	283	259	283	296
102553881	LOC102553881	208.19	200.79	219.51	464.36	304.9	181.7	333.9	258
499956	Uck11	484	465	448	422	423	474	456	442
317646	Rpl13a	6787	6343	6549	5445	5999	5822	6144	6827.62
114766	Phb2	1273	1384	1194	1085	1158	1267	1257	1189
84488	Fgf13	9138	8647	8347	7927	8186	7857	8750	8819
291565	Afap111	290	286	265	308	297	267	267	303
114859	Eif2ak4	414	469	484	474	412	470	496	439
25317	Fgf1	12834	14142	12345	13779	12459	13436	13263	13250
361178	Tfdp1	579	509	581	480	528	519	554	520
362393	Antxr1	318	394	452	449	338	483	383	388
108350133	LOC108350133	1433	1367	1253	1710	1661	980	1478	1569
306695	Zfp367	340	358	292	318	337	297	343	314
690211	Dip2a	873	839	875	954	882	848	941	824
363159	Gpd11	345	330	346	365	354	309	343	362
302671	Ap1s2	5219	5082	4463	4756	4610	4785	4933	4939
304545	Oasl	116	90	83	97	81	136	99	65
58946	Robo1	495	496	534	637	562	518	539	515
315422	Mtmr2	2505	2503	2264	2382	2332	2603	2400	2194
362883	Slc35e3	1174	1169	1191	1180	1134	1162	1118	1239
25418	Dpysl3	3108	3024	3159	3858	3494	3021	3282	3182
100360638	Zfp780b-ps1	177.95	167.06	195.15	177.55	186.1	175.5	156.8	190.08
360462	Ntan1	2153.5	2023.91	1943.4	1755.1	1896	1815	2000	2062.81
117520	Oxr1	7007.9	6678.98	5995	7326.9	6598	6246	7072	6744.95
498174	Nipsnap2	1680	1589	1623	1542	1542	1621	1608	1580
140808	Manea	864	867	946	890	924	826	881	890
619374	Jam2	1115	1266	1035	1099	1231	1106	1093	1027
94165	Cabin1	912.3	924.67	990.26	997.22	991	972.1	876.5	935.83
288785	Bloc1s1	605	574	576	433	534	525	522	579
301246	Polr1c	298	279	259	261	269	275	255	284
308508	Uba2	1352	1259	1186	1140	1170	1191	1259	1254
114118	Gng4	760.09	900.8	796.84	785.59	879.5	731	820.7	770.85
499979	Fam185a	315.65	361.76	309.71	285.66	337.4	289.6	327.7	301.79
89803	Sfrp4	237	257	328	200	266	245	303	195
100365921	LOC100365921	158	173	157	141	165	137	168	151
680711	Nxpe5	7.59	2.94	3.42	4.93	4.09	4.59	7.78	2.18
108348225	LOC108348225	85	75	72	83	78	59	79	95
246327	Prim1	892.15	463.09	598.65	369.46	391.5	420	653.7	828.7
362746	Dnaaf2	269.58	270.46	244.87	265.11	244.9	241.7	267	283.15
25445	Fos11	27	44	56	31	35	39	33	49
287925	Pkp2	41	41	38	38	43	41	38	34
360718	Popdc2	46	71	60	60	64	60	53	57

297334	Mrpl35	547.4	553.49	517.94	484.76	507.2	496.7	496.9	576.25
687147	Ric3	1291.6	1317.18	1027	1254.4	1144	1246	1254	1184.54
316736	Emilin2	72	72	189	63	111	89	105	86
140693	Plcd4	1974.6	1932.97	1663.9	1950.7	1756	1722	1898	2051.17
316005	Arih2	914.59	961.32	853.5	884.62	898.6	932.5	893.8	843.6
287608	Supt4h1	754	679	660	528	665	589	666	668
291946	Tmem184c	2954	2818	2704	2645	2703	2685	2788	2805
29484	Slc3a1	5.35	8.25	6.77	2.68	7.85	2.65	10.92	1.34
500361	Lrmp	43	34	48	34	47	38	39	33
294680	Btf3	3772	3271	3446	3059	3298	3152	3372	3556
64525	Eloc	1799	1644	1616	1477	1607	1476	1634	1737
303740	Slc38a10	978	1009	1036	975	920	976	1009	1043
679713	Brpf1	379	363	383	319	368	358	341	359
192256	Pja2	10345	10190	9640	11005	10447	9728	10873	9619
291942	Slc10a7	222	214.87	213	223	228	194	221	219
362809	Ptges3	3689.6	3615.49	3661.1	3438	3412	3285	3667	3861.77
501105	Ankrd66	45	36	33	47	40	38	36	45
308796	Mesd	1228	1262	1367	1145	1283	1207	1195	1255
295692	Nup35	283	294	298	257	260	274	286	298
307923	Vps9d1	625	661	693	610	613	655	619	670
368120	Zkscan2	16	15	18	32	24	18	22	16
498225	Eif2d	527.84	566.79	526.21	472.53	494.1	567.2	479.2	527.01
361407	Cog4	1491	1537	1468	1345	1403	1445	1476	1445
293638	Cars	558	591	572	559	557	589	565	541
294708	Sgtb	2995	2843	2778	2866	2817	2567	3001	2956
306860	Gcnt2	1700.4	1728.35	1761.3	1696.3	1901	1587	1674	1639.74
287443	Acap1	53	32	49	29	52	39	42	28
311856	Usp20	2850	2995	2716	2931	3069	2769	2842	2671
299982	Ankrd46	3720	3567	3499	3379	3405	3400	3614	3573
116679	Cgrrf1	392	375	308	318	301	339	360	376
103694121	LOC103694121	24	15	19	24	23	22	18	18
301381	Tex30	125	105	103	77	87	110	99	109
302808	Zdhhc9	1099	1085	1165	1179	1061	1096	1173	1143
302950	Adcy9	500	514	555	658	564	584	601	451
83526	Atrn	3244	3333	3378	3491	3306	3272	3554	3151
282835	Wrnip1	464	501	507	509	498	455	498	506
315732	Uaca	857	974	1061	988	925	912	1040	956
309410	Mamdc2	432	475	425	405	493	488	392	343
288516	Eif3b	1828	1835	1913	1723	1801	1864	1770	1776
85265	Ajuba	331	327	280	227	251	321	279	300
58918	Casp9	520	555	500	510	534	512	519	495
367763	Tmem164	1353	1469	1518	1591	1538	1426	1503	1393
89786	Cox17	735	710	635	598	629	589	681	747
362403	Slc25a26	130	133.95	111	104.21	116.2	122.2	112	123
25368	Adk	2552	2338	2167	2158	2322	2184	2125	2474
84607	Socs2	377.54	460.28	543.33	472.27	458.5	480.9	425.9	466.01
361261	Ccny	752	825	856	755	807	794	776	773
108349349	LOC108349349	19.79	4.6	5.6	10.33	17.65	5.08	14.45	2.66
502633	Mettl8	85	88	85	78	80	96	81	75
314941	Lrp12	432	439	437	458	442	453	425	425
309419	Pip5k1b	286	284	260	265	266	251	280	285
59319	Ambra1	960	952	927	1040	1001	973	931	928
314683	Tcp1112	421.87	364.15	387.09	354	365.9	401.6	365.1	376.44
94197	Rab14	3602	3526	3564	3679	3466	3474	3657	3604
246060	Cdkn1c	108	95	104	116	81	127	97	113
100912459	LOC100912459	148.03	137.36	151.03	181.94	213.4	107.1	141.3	149.19

29448	Rab7a	7509.9	7497	7401	7305	7136	7369	7317	7540.94
307641	Csnk2a2	807	776	832	813	771	808	800	811
310174	Cdh18	507	465	425	472	476	411	488	472
360761	Lnx2	255	252	241	272	280	240	252	236
305458	Tmem129	366	355	344	383	328	357	346	400
315165	Naga	809.5	851.88	861.46	789.56	823.3	820.8	827.2	802.29
691572	Ubap11	21.17	21.45	28.26	26.27	23.03	28.71	21.96	22.31
312213	Plxna4	1447.4	1336.77	1592.3	1819	1681	1543	1572	1327.08
361020	Rpp14	645.51	648.19	684.62	520.15	597.5	565.7	624.2	681.96
288621	Mrps17	446	414	391	380	393	418	391	410
25498	Npm1	2643	2490	2766	2372.3	2482	2422	2620	2627.95
287456	Med11	241.36	235.96	220.47	186.24	227.6	186.8	227.7	231.6
304024	Cpox	281	306	314	303	308	307	309	266
619549	Plpp6	358	296	319	318	334	299	333	310
360928	Dcun1d4	1767	1666	1484	1803	1713	1641	1719	1569
293673	Eif1ad	530.96	491.97	461.22	413.04	511.7	426.3	459.8	477.35
313323	Psip1	1750	1494	1399	1576	1680	1542	1520	1405
60434	Bcl2l2	3202	3018	2711	2992	3018	2848	2913	3006
368178	Hoxc9	249	262	196	247	213	254	239	237
83576	Sort1	2342	2488	2284	2860	2456	2526	2428	2449
300891	Morf411	7495	8002	7152	6938	7288	7092	7434	7432
84402	Sfrp1	1106.7	1153.78	1137.8	1130.4	924.2	1120	1383	1050.28
303021	Sh3pxd2b	1019	1134	1278	1353	1193	1182	1231	1123
298687	Aurkaip1	797	781	754	631	713	684	710	822
64532	Adcy5	813.01	858	872.12	860.52	926.8	829	762.5	846.3
365924	Tmem56	2197	2484	2074	2414	2161	2190	2490	2223
360475	Alg1	238.33	217.01	232.61	202.46	213.3	227.3	224.1	215.49
287436	Eif4a1	4765	4546	4495	4021	4393	4121	4473	4636
363630	Kdm6b	733	711	865	839	814	804	796	698
315088	RGD1311188	105.75	81.15	83.47	62.98	73.78	98.07	77.26	80.43
307545	Elp2	1857	1909	1698	1713	1672	1706	1785	1932
307524	Wdr33	563	579	512	537	549	516	558	543
361740	RGD1359158	392	363.99	365.15	418.75	364	354	408.5	395.82
297601	Mrpl51	902.35	931.77	886.12	864.74	935.5	858.7	866.7	883.34
313445	Klhl13	1098	1002	934	1095	941	969	1110	1062
293663	Rbm4	420.6	412.74	392.44	381.02	398.5	435.3	387.3	367.42
83532	Vdac3	5734.3	5441.58	5274.5	4711.5	5007	4878	5356	5679.54
81822	Actb	17426	18847.6	21068	20289	19661	20570	18427	18090.28
690632	Gcn111	1199	1260	1402	1443	1314	1433	1270	1227
103692531	LOC103692531	171.18	147.66	137.87	133.79	126.4	153.8	130.3	173.42
293674	Drap1	1269	1257.81	1270.9	1141.6	1203	1237	1206	1237.59
295333	Dennd2c	56	68	61	81	68	67	63	65
363001	Bcdin3d	77	62	70	57	60	56	72	75
316012	Klhl18	466	406	448	454	422	437	471	424
317444	Hccs	477	437.01	367	408	426	410	396	438
494192	Mycbpap	234	246	242	256	248	226	237	256
103693494	LOC103693494	1.94	1.08	1.07	2.14	0	2.14	2.97	1.05
100188932	Ost4	2203.4	1904.45	1868.5	1758.9	1778	1840	1839	2191.47
102547431	LOC102547431	15.59	16.18	16.38	6.16	12.09	10.77	17.53	13.31
81808	Nr2f1	952.76	991.41	1087.8	1159.9	904.4	1009	1143	1087.79
502674	Dstn	5524.4	5546.99	5351.1	4893.3	4969	5094	5548	5467
252857	Rapgef4	2307	2186	1925	2180	2081	2201	2233	1987
360779	Lrch4	1033	945	1045	1100	1027	993	1016	1041
499934	Manbal	1036	959	856	827	878	859	904	996
108348154	LOC108348154	244.74	211.89	207.05	237.78	231.4	198.3	231.1	230.65
500306	B4galnt3	62	78	86	224	88	194	109	54

293418	Rpl27a	3891.6	3827.05	3856.3	3068	3465	3409	3546	4060.3
314843	Ptprb	885.49	791.42	775.41	755.79	844	816.3	828.1	684.28
50658	Mapk9	3402	3374	3274	3422	3481	3241	3456	3145
362036	Ank2	19181	20889	20859	24835	23544	19901	21483	19887.98
114764	Mapre1	2222	2152	2138	1999	2080	1968	2243	2126
295365	Amigo1	3171	3163	3179	3269	3351	3210	3075	3005
302920	Rbfox1	3550	3673	3475	3675.5	3818	3640	3415	3342
313689	Dhrs3	185	187	321	217	165	216	291	228
305198	Prdm8	526.01	574.02	606.93	646.78	647.7	578.6	566.3	535.33
84470	Gnpat	892	879	779	823	797	805	887	847
81814	Tmsb4x	32762	29285	30979	24965	28741	26119	29022	32815
294864	Cct5	4781	4759	4415	4118	4372	4191	4581	4731
259271	Aptx	207	202	221	192	215	184	204	210
364983	Rnf150	140	121	126	162	143	125	130	145
361844	H2afy2	236.03	212.11	221.17	224.59	220.5	205.3	222.7	235.67
362967	Rrp7a	1066.4	1125.81	1126.9	976.92	1015	1186	1109	939.69
287427	Trappc1	2435	2245	2228	2003	2211	2093	2199	2311
313647	Hp1bp3	2350	2436	2343	2337	2339	2340	2370	2314
296167	Pank2	201	175	168	192	175	159	192	202
305002	Sdccag8	168	201	194	173	198	190	154	186
367073	Trappc4	1098	1067	1000	890	953	960	995	1103
313658	Ubr4	5887.4	6340.23	6434.1	7442.6	6913	6658	6382	5868.22
299197	Are11	2633.3	2614.11	2578.2	2587	2765	2496	2575	2463.64
361262	Heatr1	182.74	211.25	169.8	144.02	157.1	201.4	195	146.72
307757	Neto2	221	187	202	224	190	191	219	225
294339	Mcm3ap	895	931	963	1014	954	946	943	919
81749	Prkch	182	156	163	150	165	150	159	170
25167	Ptpra	3058	3007	3071	2965	2955	2960	3104	2952
288921	Fbxw9	179	177	160	137	169	173	155	149
63865	Lgmn	4055	4569	4799	4053	3946	4656	4275	4412
500157	RGD1560028	165	224	206.19	169.82	184	150	194	228.84
84477	Gab2	994	922	973	1046	1052	955	968	918
291908	Tox3	242	240	247	302	267	258	243	252
83834	Nrn1	5988	5611	5363	5727	5927	5293	5628	5599
299147	Ppp2r5e	1463	1479.99	1495	1575	1490	1525	1500	1433.99
298914	Itgblbp1	1240.9	1089.44	1151	967.11	1028	1054	1126	1193.12
363020	Smco4	26	20.04	27.03	29.55	25.49	27.1	22.05	26.89
548104	Pcdhb17	107.84	95.32	124.08	118.72	92.21	106.6	129.8	112.6
691307	Lrrc39	27.51	23.98	19.94	28.57	22.79	39.28	16.29	20.58
364705	Serpina6b	21.34	23.3	23.33	17.11	21.32	20.32	28.38	14.16
293886	Cdc37l1	1625	1483	1406	1538	1500	1442	1555	1491
679819	Glpr2	101	120	144	108	110	119	124	115
29355	Pkn1	717	677	659	602	653	695	633	646
102555439	LOC102555439	170	160	153	184	200	163	141	156
298342	Nkap	192	190	204	179	200	169	190	198
60357	Prom1	412	434	337	347	362	332	425	395
100359512	Vtilb	774	739	691	666	729	638	711	762
296384	Znfx1	1435	1477	1596	1717	1610	1621	1482	1447
312154	Ing3	265	252	267	273	273	251	254	268
282834	Chmp3	3066	3039	2922	2697	2940	2723	2975	2964
317409	MGC109340	672.46	629.78	578.06	560.86	578.8	571.1	648.1	617.81
309168	Map3k11	988	944	983	842	898	982	943	895
363478	Snx12	538	537	585	558	537	540	537	581
361652	Srcap	1801	1886.1	1973	2197	2082	1969	1928	1797
309626	Ring1	501	471	464	508	464	494	494	472
298514	Rragc	2018	2085	2025	1942	1921	1936	2089	2041

79220	Grid2	218	223	206	229	272	196	218	181
362631	Rpl11	3461	3101	3525	2690	3214	2895	3012	3525
313598	Zmym4	839	881	897	997	971	839	938	829
25520	Prkag1	1220	1185	1041	956	1059	1002	1173	1123
287463	Rpain	155	122	100	113	112	116	121	136
310194	Kat8	513.89	480.77	461.91	479.91	450	488.9	498.9	478.96
296278	Pdrg1	1177	1226	1104	938	1032	1116	1052	1200
296306	Ergic3	1244	1320	1408	1267	1298	1213	1347	1328
294810	Tars	1257	1125	1268	1198	1308	1128	1151	1212
287454	Alox12	27	26	22	24	31	23	22	22
306376	Sh2d4a	96.83	88.59	99.43	86.54	103.5	76.28	104.2	83.61
289125	Acbd6	365.12	359.84	341.55	317.91	327.1	317.6	363.7	362.05
500536	Hyi	223	211	244	219	211	205	215	257
405103	Olr1206	0	0	0	1	0	0.99	0	0
362943	Adck5	223	192	208	177	191	197	199	205
689479	LOC689479	32.08	10.55	41.66	10.77	0	20.85	41.88	31.38
295243	Krtcap2	589.87	564.94	594.62	525.71	547.9	578.9	530.7	594.93
25347	Rpl39	784.03	637.46	902.68	565.27	813.3	652.9	601.1	793.34
291567	Ppargc1b	66.66	72	62	81.14	71	74	75	59
363005	Pcbp2	4033.9	4227.89	4426.8	4188.7	4002	4205	4297	4206.34
93662	Cdhr1	223	252	213	223	218	218	214	252
25692	Plat	2863.3	3149	3594.5	3075.7	2860	3156	3220	3321.9
29563	Crabp2	259.64	229.49	344.64	245.64	196.8	203.7	307.8	360.47
59265	Phlpp1	724.38	725.33	601.67	815.1	699.8	764.6	649.3	724.71
29643	Sv2c	19298	20226	18844	23225	20720	20358	20480	19236
171569	Spon2	170	255	343	134.42	109.6	288	220	276
25437	Emd	355	364	379	336	378	359	334	349
50566	Greml	49	71	29	56	48	58	55	42
306687	Mfsd14b	834	862	863	723	851	771	805	823
362737	Heatr5a	1222.2	1329.85	1204	1482.5	1241	1368	1344	1235.04
297453	Hdac11	1142	1096	1036	1039	1054	1097	1017	1103
50594	Nb11	5237	4618	5059	4805	4541	4834	4807	5345
289051	Dennd1b	1086	1133	974	1228	1191	983	1167	1037
100909840	LOC100909840	5881.1	6076.78	5404.3	5469.1	4895	5514	6469	5731.47
308669	Herc2	3337	3461	3463	4052	3775	3294	3692	3413
311051	Ccdc148	25	32	19	27	23	18	35	26
362154	Zc3h15	2564	2440	2357	2328	2340	2199	2620	2436
25499	Nrdc	2153	2283.33	2275.7	2328.7	2270	2208	2296	2178.92
685232	Atp6v1a	6159	6196	5651	5946	5889	5771	6360	5701
287212	Rnf145	1273	1384	1323	1316	1257	1345	1276	1367
60577	Slc15a2	353	336	303	358	321	314	352	350
289833	Fam161a	31	18	30	25	24	27	17	35
29285	Rps15	4479	4030	4328	3184	3942	3649	3831	4445
316842	Metrn1	310	362	357	329	265	317	353	410
688905	Mtx3	1357.2	1364.32	1228.9	1486.9	1413	1266	1408	1297.84
298676	Morn1	118	114	85	101	108	92	131	83
289522	Cox18	202	187	170	173	189	178	178	180
100361568	Hilpda	100	75	84	55	78	66	84	83
309176	Mrpl49	628	643	574	564	566	572	635	613
24551	Mdh1	8548	8245	6841	6967	7123	7113	8092	7981
503052	Vash1	1961.6	1966.95	1961.9	1912.9	1986	1809	1927	2008.05
287367	Cops3	1429	1409	1313	1332	1324	1303	1402	1402
58817	Sec23a	3424	3425	3202	3568	3445	3387	3347	3311
286917	Phax	572	540	570	536	559	496	586	556
81801	Stc1	111.01	113.07	43	70.81	80.6	72.08	111	71.03
25496	Notch1	1646	1421	1691	1831	1827	1639	1576	1485

29479	Odf2	603.1	599.03	581.39	559.81	601.9	552.9	583.1	583.4
302247	Rtraf	1959	1793	1833	1465	1632	1659	1846	1847
29367	Chkb	709	690	670	602	677	639	667	663
361790	Ppp1r18	871	861.01	1080	833	883	876	905	947
297406	Cct7	3251.9	3310.99	3036.7	2818	3004	2911	3275	3112
297561	Rad52	123	103	96	109	104	103	108	112
686310	Ephb4	255	220	291	206	257	261	222	223
287607	Mtmr4	2220	2304	2261	2428	2381	2392	2309	2046
307858	Ldhd	402.05	401.95	313	357.85	355.2	361	349	396
303701	Clqtnf1	560	551	580	483	495	616	508	535
116508	Nrxn3	1095	965	1173	1118	1144	1052	1151	964
302434	MGC114483	18.52	13.26	15.91	22.02	21.45	14.02	10	23.6
309458	Pdcd11	608.15	590.08	582.17	635.88	565.6	588.4	621	619.07
292067	Zc3h18	622	624	673	699	662	694	660	578
316628	Asb1	2446.9	2283.69	2244.8	2279.2	2509	2174	2280	2207.23
291339	Comm3	1426	1297	1190	1128	1211	1218	1224	1342
502749	Agk	353	370	356	348	352	352	351	359
298103	Atp6v1g1	3412	3136	3268	2960	3000	3023	3213	3424
295224	mrpl24	661.72	654.97	570.8	642.2	608.2	607.2	659.3	632.05
287457	Zmynd15	47.24	24.28	17.1	38.19	41.18	28.1	18.07	38.31
361169	Letm2	252	260	176	195	195	215	215	250
311236	Lrrc4c	1142	1044	996	1243	1202	955	1146	1082
292074	Trappc21	1133	1134.86	1039.7	959	1064	1032	948	1184
288233	Wrb	1837	1687	1587	1538	1696	1568	1658	1667
361907	Fbx17	141	123	152	140	133	127	146	145
291796	Usp14	5411	5120	4948	4989	5207	4812	5244	5021
102549747	LOC102549747	54.13	42.43	49.01	62.46	50.57	47.83	56.1	51.66
84550	Slc24a2	6279.7	7050.7	5896.7	8555.2	7635	6222	7308	6366.51
500537	Tmem269	44.63	56.62	57.65	35.07	52.03	41.35	43.94	54.91
291553	Nedd41	2430	2688	2609	2882	2900	2421	2580	2613
362271	Elmo2	1083.9	1081.26	1084.7	1048	1108	1118	995.5	1038.79
316085	Trak1	2608	2780.76	2743.2	2927.3	2710	3043	2679	2527.95
316376	Inpp1	333	300	321	277	265	302	295	358
686883	Larp7	724.63	690.58	720.75	675.86	689.7	664.7	720.7	711.66
499900	Zfp133	296	272	293	261	255	252	282	323
690300	Cox11	193.08	158.98	181.28	128.73	155.9	140.3	184.6	175.27
303798	Arvcf	1559	1515	1476	1412	1257	1541	1583	1528
313744	Nol9	570.06	570	598	603	591	606	561.3	562
114559	Arhgef7	1769	1825	1859	1867	1833	1858	1792	1772
64443	Gpr88	154.13	146.52	117.38	174.01	171	128	166	121.83
365243	Sergef	250	227	222	207	235	222	222	219
362279	Pard6b	89	97	84	70	82	71	94	90
498538	Trim35	2265	2128	2442	2354	2255	2361	2284	2208
494202	Oas3	24.94	27.9	33.79	30.36	32.81	21	36.46	25.69
362453	Crebl2	1513	1571	1368	1457	1474	1496	1446	1441
691123	Fam19a3	1303.8	1184.04	1138	1066.3	1172	1108	1130	1241.3
291556	Nars	5770	5974	5509	5728	5671	5899	5919	5292
317376	Tfe3	734	914	896	790	863	800	827	815
59117	Ago2	123	99	131	222	184	109	135	142
688993	Kctd7	202	176	142	171	192	161	140	192
29554	Pdha1	7754.4	7340.94	7314.9	7368.2	6867	7224	7898	7530.79
408243	Ece2	963.71	866	762	880	869	788	782.7	1002
361212	Rnf44	1676	1670	1760	1717	1776	1665	1631	1692
361459	Clvs2	74	87	84	102	93	60	88	103
361450	Ust	1164	1173	1034	1372	1242	1163	1211	1086
300982	Abhd14a	256	220	244	209	195	261	183	282

313339	Acer2	273.29	303.97	300.79	219.34	274.4	296.8	287.2	229.66
114711	Gne	396	423	418	389	420	416	405	371
302500	Mctsl	532	534	450	459	470	444	548	496
294282	Rps18	1619	1414.71	1465.2	1002.5	1423	1435	1491	1105.2
498015	Pitpnc1	6142	6292	5957	6691	6464	6158	6187	6058
501619	Armex1	2033.2	1827.95	1632.4	1858.7	1689	1861	1784	1954.78
293149	Mrpl48	983.49	801.69	849.57	736.37	729.4	828.7	886.7	897.48
691337	Stk381	894.79	883.6	888.16	918.22	864.8	941.6	882.6	865.16
24170	Add1	6428	6689	6574	6777	6551	6614	6691	6387
64468	Hyal2	363	355	372	322	338	375	352	335
280671	Txndc9	885	926	794	813	789	797	894	909
25307	Cst3	29675	28671	24698	23405	24216	25196	26431	29703
680747	Mrpl20	651	653	656	519	542	604	601	711
293823	Prune2	36939	37445.6	37313	44492	43487	36282	39076	36021.68
295231	Glmp	591	578	717	600	623	613	586	643
288371	Mcoln1	1144	1099	1063	1099	1131	1102	1093	1042
300754	Bbs4	783.17	703.89	699.01	655.34	639.1	715.8	690.3	772.36
300772	Pias1	427	372	405	466	422	380	436	418
362625	Man1c1	407.09	409.77	480.07	463.63	438.9	421.7	466.8	418.39
252920	Olfm3	132	120	92	134	115	121	128	110
103689925	LOC103689925	198.67	219.33	191.33	214	206	207	202.7	200.77
103692128	LOC103692128	198.67	219.33	191.33	214	206	207	202.7	200.77
24669	Ppplcc	3346	3212	3131	3127	2994	3296	3329	3090
310903	Adh6	7.05	2.11	1.99	2.03	5.88	3.73	2.33	1.13
299735	Amdhd1	115	85.95	70	100.96	96.9	92	88	91.92
691231	Gemin5	309	381	375	380	370	381	347	335
313949	Ldah	1097.7	950.09	1009	935.9	973.1	915.8	999.2	1071.5
363152	Stac	1821	1862	1855	1757	1971	1594	1814	1856
312255	Slc37a3	1290.3	1302.13	1251.9	1187.9	1258	1276	1196	1260.7
100360577	LOC100360577	27	24.5	38	32.5	25	29.5	36	30.5
100912525	Hoxa4	27	24.5	38	32.5	25	29.5	36	30.5
362424	Tmem72	393	328	311	432	378	351	357	366
291840	Slc38a7	632	642	626	551	605	595	635	596
500996	Layn	365.23	377.72	391.13	468.22	363.8	421.8	430.1	373.58
64701	Rpn2	3082	3292.96	3487	3267	3092	3470	3193	3266.93
683674	LOC683674	272	293	295	245	274	290	258	274
309918	E112	1024.7	968.92	973.37	1030.5	997.5	936.3	1096	935.04
313529	Tmem53	181.72	194.66	179.65	164.11	183.6	179	184	167.71
361724	Mta2	720	797	847	736	775	805	790	705
493574	Ispd	316	347	256	323	291	285	371	285
309639	Anks1a	1300	1325	1498	1219	1269	1485	1222	1323
103690162	Eid2b	133	177	174	142	145	139	175	162
25700	Ide	1129	1153	1186	1294	1196	1202	1218	1108
140671	Phkg2	1448	1415	1290	1236	1332	1372	1359	1283
117041	Nln	358.35	397.93	408.25	380.04	379.3	385.3	391.1	376.62
685152	Atp8b2	1614	1586	1426	1655	1641	1595	1533	1462
308000	Pdzd8	3600	3592	3134	4015	3575	3278	3817	3557
641386	Ap5z1	369.06	338.44	382.35	344.37	344.7	379.2	344.5	354.47
501095	Rftn1	71.16	57.85	83.43	70.87	66.84	77.57	61.95	74.7
102550344	Kmt2b	676	759	760	703	724	725	724	702
100361517	Psmg3	413	409	363	328	354	387	343	417
306055	Pcdh17	1248.9	1052.5	1143.3	1426.3	1354	1204	1277	996.88
310375	Zfp131	644.71	661.31	575.18	660	635	566.8	631.7	687.69
307412	RGD1305184	17.22	9	14	8	12	12.18	10.64	13.02
29581	Htr2b	18.36	8.97	18.75	13.59	12.1	19	17.31	10.79
364637	Fbxo25	636	577	560	641	609	597	621	568

29702	Eif2ak3	773	841	793	772	778	760	792	824
289342	Rps6kcl	1201.5	1226.16	1183.8	1229.7	1250	1192	1206	1156.17
361822	Ybey	186.93	182.93	179.19	151.03	154.5	166.1	184.9	189.04
361882	Arhgef28	829	918	929	892	913	844	938	845
362248	Procr	58	66	73	58	76	73	60	44
498576	I117rd	365	345	325	370	360	318	403	313
498358	Slc30a9	3958	3746	3507	3608	3631	3477	3866	3729
301253	Tmem151b	715.01	690.48	605.23	693.6	798.4	615	614	655.79
170501	Galnt10	504	489	461	472	507	463	483	458
114029	Megf8	2182.4	2184.3	2305.6	2333.4	2439	2269	2192	2036.05
102554867	LOC102554867	38	35	19	37	24	41	32	31
246756	Tradd	170	175	158	143	178	147	161	155
299196	Abcd4	141.67	122.4	144.92	110.7	114.2	124.5	140.6	136.28
360811	Naa25	773	831	748	882	812	819	803	774.99
303874	Senp5	2563.7	2526.71	2361.4	2372.7	2525	2280	2521	2421.9
360796	Rcc1l	175.01	144	179	153	142	173	170	161
170913	Abcb1a	612.26	594.38	536.78	588.29	666	515	581.9	551.02
50646	Ptk2b	818	727	738.96	779.47	872	702	719	747
303968	Ift57	356.19	331.28	304.81	380.37	321.3	306.6	389.1	345.19
362615	Gpatch3	68	62	63	68	68	69	73	49
57033	Adam22	5821	5476	5566	5863	5811	5709	6049	4983
309194	Taf6l	126.34	135.35	126.18	124.57	124.4	129.3	131.5	123.33
303792	Klh122	612	688	670	648	625	680	656	637
679462	Tspan15	843	915	838	814	872	868	766	878
304132	Rwdd2b	280	289	253	230	240	266	256	282
81643	Atic	1431.5	1498.59	1364.3	1488.2	1394	1421	1497	1427.51
64523	Tep1	796	873	938	957	912	856	864	905
287593	Ptrh2	348.28	324.27	313.97	284.81	291.2	297.6	331.9	341.07
298104	Tmem268	221	240	237	232	220	237	229	237
361668	Ebf3	900.09	912.94	816.57	890.12	949.2	845.6	824.7	873.77
313539	Kdm4a	1016	1078	1074	1086	1020	1091	1112	999
306400	Arhgap35	5612	5762	5702	6361	6218	6001	5827	5215
288444	Hsph1	6167	6365	5962	6832	6418	6104	6625	5989
690751	Wdr59	368	342.76	384	346	375	352	406	297
296049	Emc4	2221.4	2224.64	1811.9	1860.1	1950	1981	2125	2001.18
360942	Pcdh7	1483.1	1552.42	1518.3	1771.6	1679	1526	1711	1362.83
296966	Chchd3	1256	1293	1186	1110	1102	1217	1263	1227
100362311	Arhgap33	247.03	221	253	226	221	250	235	234
363028	Spc24	42	35	36	22	34	33	35	32
681740	Jarid2	283.91	281.26	310.88	331.44	330.1	307.1	309	252.37
362814	Rnf41	1519.1	1578.72	1417	1383.4	1497	1454	1475	1428.41
29748	Ppp3r1	4772	4789	4288	4391	4562	4292	4722	4529
303607	Ddx42	1375	1496	1467	1477	1498	1386	1476	1412
312946	Tmem68	404	391	376	320	308	372	416	384
24214	Atp1b2	2703	2770	3469	3536	3021	3221	2912	3232
361367	Amfr	3429	3620	3469	3589	3299	3667	3510	3527
680066	Lemd3	322	295	304	300	308	302	303	299
305470	Drg1	758.26	729.32	727.87	645.26	805.2	651.3	627.1	756.09
79423	Stmn4	401	314	323	322	347	326	323	354
83477	Bcl10	428	357	395	316	325	399	375	386
691853	Cox10	443	399	452	478	429	444	432	454
362735	Coch	103	37	67	66	57	42	58	114
296731	Nub1	2490	2477	2353	2399	2495	2414	2430	2309
246116	Ptpn4	395	399	413	437	412	313	408	499
298369	Osbpl9	2930	2697	2655	2843	2717	2710	2907	2710
24654	Plcb1	415	403	367	467	422	359	434	425

362778	Gskip	887.81	903.4	792.02	787.89	782.5	797	847.8	919.45
306879	Fars2	281	276	272	280	265	270	276	290
65170	Scamp4	730.21	741.85	730.34	716.36	695.6	718.5	738.7	744.9
304275	Zkscan5	251.53	253.58	232.51	234	262.6	236	223	243
313430	Fam151a	62.49	56.44	45.39	60.21	55.94	47.29	51.69	68
303398	Tbx2	842	757	723	750	808	723	805	714
192147	Polr2m	2164.8	2136.36	2052.7	2197.9	2076	2192	2065	2157.49
298384	RGD1559786	897	832	766	748	798	785	801	836
114506	Ankh	1805	2011	1947	1862	1748	2040	1917	1866
361877	Ssbp2	966	992	862	994	899	919	979	990
300208	Ddx23	1059	1092	1088	1003	1085	1062	1063	1002
288489	Rbak	88.01	74.02	91.77	64.61	71.47	69.92	72.73	102.04
365387	Odf3	41	36.37	51.66	33.79	40.11	44.21	35.01	42.34
500798	C2cd4c	18.47	26.76	26.84	22.87	27.45	24.52	18.82	23.48
304951	Nuf2	34	30	42	36	35	37	41	28
307067	Dip2c	1517	1526	1520	1695	1599	1523	1608	1484
362037	Aplar	1933.4	1832.99	1730.1	1753.9	1815	1820	1792	1773.5
313722	Spsb1	462	443	469	464	480	460	447	438.21
116659	Dync1i2	10708	10181	10000	10031	10038	9811	10706	10081
307050	Mtpap	282	278	316	277	285	288	298	274
499755	Tmem141	172	141	140	125	128	141	144	161
170921	Itga2	64.01	105.32	140.91	73.6	89.71	105	88.08	98.42
309650	Cpne5	201	219.82	214.95	204.97	214.8	225.9	184	210.26
170926	Cysltr2	798	571	573	545	686	555	607	622
85472	Polg	955.09	1016.64	987.74	1047	1016	1006	981.9	975.88
498350	Theg1	4.02	8.5	6.05	9.56	8.04	3.04	4.01	12.85
108348096	LOC108348096	344.57	196.99	384.1	279.48	165.1	367.6	209	455.38
498849	Pcdhga10	353.22	390.17	460.17	392.38	408.2	432.4	399.6	345.07
313498	Cd72	80.54	58.61	76.08	40.87	60.66	84.69	58.77	50.26
292100	RGD1562218	429	431	391	389	384	408	432	405
361569	Prr12	692	809	811	968	844	884	784	746
314251	Sptb	2520	3348	2526	3430	2377	3256	3037	3075
100363065	Zfp11	130.1	122	106.97	95	92	106	123	130
246280	Slc15a4	492	543	547	517	549	545	491	500
170739	Kcnh7	2352	2224	1795	3118	2493	1850	2511	2572
171137	Khsrp	700.52	716.29	835.75	922.45	773.5	867.4	741.1	771.99
500790	Cactin	266	276.29	303	241.65	268.4	281.6	265.4	264.38
25328	Lamp1	10034	10434.2	9981.2	9396	9381	10067	10248	9885.84
313929	Ncoal	1598	1607	1727	1882	1682	1652	1778	1657
288498	Wipi2	557	565	533	624	572	579	556	557
303564	Tmem101	418.93	372.8	348.51	324.19	416.2	363.5	345.3	329.78
25318	Fnta	2258	2356	2216	1999	1960	2114	2279	2418
312192	Ahcyl2	2093	2222	1959	2410	2069	2228	2230	2100
81763	Rpl5	4458	4288	4576	3640	4019	3920	4224	4688
362757	Rdh11	684	730	703	639	648	685	685	720
100910753	Dnttip2	746	687	708	634	692	652	663	750
103692368	Palm2	138.27	158.65	160.78	153.85	181.6	133.2	153.6	139.23
100911224	LOC100911224	41.25	37.06	40.02	38.24	34.52	29.46	46.59	44.99
245981	Rpl15	4014.6	3604.01	3825	3147.9	3494	3528	3576	3899.08
290224	Emc9	150	179	165	127	136	131	167	183
315957	Slc35g2	353	362	362	333	340	370	355	336
245966	Tmem150a	311	306	334.99	300	275	331	312	326
361111	Smim4	43	46	32	36	31	45	43	37
365410	Osbp	1317.9	1479.92	1432	1436.7	1420	1474	1379	1356.95
64670	Gabarapl2	1506.8	1387.22	1300.8	1298.6	1253	1242	1459	1504.59
292058	Gins2	188.03	169.07	194.05	129.19	139.5	179.9	158.1	198.58

79223	Gk	796	793	699	736	742	709	806	748
260416	Carhsp1	1516	1512.16	1460	1268	1522	1307	1340	1551
313819	Mast2	1607	1703	1767	1776	1735	1826	1656	1593
290206	Psmbl1	31.93	35.05	37.86	32.45	41.99	21.79	36.91	35.74
170844	Taf2	691	655	700	687	654	634	715	713
298836	Snx17	1070	1023	1040	891	951	950	976	1122
100909704	LOC100909704	2	4	2.05	0	4	0	2	2
310074	Depdc1b	48	28	43	42	44	39	41	36
364648	Shcbp1	45	33	55	28	45	31	45	39
315676	Dmxl2	3636	3630	3421	4163	3950	3238	3895	3675
64205	Rplp0	8491.9	8138	8808	6543.9	7749	8100	7653	8283
498703	Fam193b	747	662	821	709	754	748	727	692
302661	Ofd1	265.12	221	252.01	240	248.1	222	276	225.99
300994	Ifrd2	141	126	122	101	120	137	111	119
362819	Sarnp	985.96	919.74	1014.4	986	1008	907.2	945.8	1021.71
303183	Snap47	501	484	448	374	436	456	481	423
303684	Trim65	248.49	228	223	255.15	234	232	236.8	246
83626	Ugcg	1661.1	1653.73	1535.9	1595.5	1679	1667	1595	1465.94
84019	Nae1	653	632	605	582	585	607	614	651
84508	Rnf103	984	1061	962	952	983	955	999	998
679140	Exosc1	247	263	262	225	202	247	276	266
302559	Wdr45	454	451	405	353	383	454	420	396
66028	Arl6ip5	1160	1130	1032	1002	1014	1058	1158	1068
100145871	Adh5	1168	1177	1149	1015	1106	1065	1132	1179
171048	Tspan8	5438	4956	4735	4265	4724	4210	4992	5352
310159	Drosha	1468	1551	1610	1741	1585	1617	1598	1532
313101	Fbx14	512	548	466	487	475	503	517	506
83721	Dvl1	1043.2	985.54	1038	1034	992.6	1041	1020	1022.64
64625	Bid	1077.5	1135.68	1037.5	956.11	1105	1045	989.4	1042.52
290744	Ing2	213	234	197	197	195	218	206	217
362856	Pwp1	316	270	302	293	264	272	321	317
100362441	Gpr82	5.32	5.76	4.63	2.86	2.53	6.74	1.73	7.46
108350028	LOC108350028	48.92	53.03	45.46	43.47	42.29	48.48	54.85	44.13
362235	Syndig1	146	138	116	108	138	104	128	135
362657	Mthfr	662.17	746.37	718.16	691.53	684.9	712.4	703.3	701.12
314903	Srgap1	1194	1220	1462	1405	1370	1326	1314	1240
114124	Akap1	493	516	521	526	503	497	518	526
362320	Fam133b	499	486	477	425	496	437	476	467
362762	Dcaf4	278	271	249	236	268	259	250	251
362606	Sync	1509.5	1394.36	1530.9	1566.3	1608	1457	1505	1395.81
293694	Map4k2	885	877	811	883	863	888	869	816
287592	Tubd1	89.56	84.09	87.75	63.49	81.24	65.05	101.9	74.79
56011	Ywhab	17080	16788	15508	15858	15773	15762	17424	15898
362161	Rapsn	84	96	85	82	79	70	83	113
54252	Mid1	398	357	362	447	379	346	430	400
361985	LOC361985	1215.5	1237.49	1140.6	1095.4	1099	1130	1174	1259.35
100362572	Mpv171	517.5	435.42	421.93	436.28	446.9	405.9	429.2	518.74
297768	Lactb2	668	645	603	524	571	591	634	630
287441	Zbtb4	3037	2963	2935.1	3301	3153	2987	2930	3096
365841	Slc25a44	557.12	506.58	554.3	556.63	585.2	556.3	473.1	547.53
29210	Epha3	48	49	39	39	53	38	38	45
365797	Ufml	901	838	861	728	817	797	830	865
310526	Golim4	1857	1683.33	1680.1	1989	1926	1665	1882	1695.34
295674	Plekha3	554	615	552	585	513	569	627	584
311384	Sema6d	1536.9	1747.27	1688.5	1678.8	1667	1649	1791	1506.72
498704	Prr7	214.85	187.18	200.59	146.4	190.9	193.3	200.8	159.89

303676	Slc25a19	233	207.2	188	214	199.3	195.2	224	219
301544	Farsb	1273	1230	1102	1242	1210	1234	1276	1100
361988	Ints3	945	1006	1068	1116	954	1135	1081	942
364382	Prmt5	922	930	958	977	949	996	886	935
691947	Eif3j	1602	1643	1639	1612	1629	1549	1696	1586
288595	Nsun5	286	283	272	242	258	270	273	276
300659	Rnf26	599.64	652.27	633.84	624.46	678.3	642.8	567.7	607.54
315994	Mapkapk3	299	374	260	333	284	325	303	347
314300	Riox1	123	157	136.9	133	131	128	143	144.87
691318	Ppp2r5c	3527	3365	3339	3580	3423	3482	3575	3255
246042	Nifk	838	779	747	732	766	683	784	846
288305	Cct8	4649.7	4532.36	4411.1	4173.8	4169	4131	4767	4603.18
680616	Ppp1r16b	873.05	906.16	859.2	947.62	836.1	901.3	852.9	976.03
297523	Vgll4	772	793	706	827	772	728	794	787
100910486	LOC100910486	3.44	0.88	2.77	3.87	4.28	2.52	4.1	0
103694868	LOC103694868	3.44	0.88	2.77	3.87	4.28	2.52	4.1	0
287707	Nkiras2	431	362	428	424	380	396	436	424
83806	Psm1	5238	5236	4865	5170	5213	5030	5294	4860
360800	Sumf2	124	144	153	129	117	159	130	141
300472	Vps26b	1499	1640	1550	1569	1516	1569	1605	1534
360426	Pla2g6	1273	1309	1275	1304	1305	1322	1214	1292
294862	6-Mar	3794	3708	3596	4046	3946	3586	3978	3552
499587	Slc7a14	305	311	339	523	455	288	419	308
304580	Ssh1	607	567	593	640	610	550	640	594
24516	Jun	1364	1355	1798	1812	1362	1677	1675	1581
100363310	Cystm1	1628	1555	1551	1423	1525	1503	1477	1619
686393	Pradcl	112.06	104.01	103.26	80.02	102	92.07	107.1	96
309510	Cpeb3	1948.4	2066.61	1815.3	2046.8	2089	1995	2020	1730.79
58963	Htr3b	2774	2418	2457	2464	2564	2313	2599	2583
291925	RGD1308706	359	322	317	313	314	312	346	332
497983	Fam117a	347	316	333	316	363	317	317	308
312616	Trnt1	621.35	640.82	627.75	605.6	641.1	549.8	642.1	649.38
286898	Npc2	2390	2448	2435	2014	2146	2333	2250	2509
300463	Herpud2	632	605	633	600	607	652	609	589
305577	Ahsa2	731.27	585.8	640.78	617.31	609.4	736	595.5	620.76
161477	Rps13	1685	1580.03	1601	1302	1441	1395	1526	1773.29
282712	Slc6a15	3044.3	2963.43	2808	2954.8	3067	2738	3049	2854.82
304884	Tor3a	361.84	417.41	389.79	313.04	360.9	382.7	361.4	369.35
246255	Ppp2r2d	1041	954	940	903	943	970	967	938
498591	RGD1559804	1.01	2.83	0	0	0	0	2.75	1.07
313548	Zfp691	168	163	140	105	137	146	157	133
29669	Psm2	2397	2302	2056	1935	2013	1933	2217	2482
301543	Sgpp2	2394.1	2520.79	2309.4	2634	2500	2564	2532	2211.85
685879	Jazf1	342	338	343	333	331	329	358	331
683927	Cstf2	847.91	809.22	796.09	824.81	873.9	809.7	825.1	752.5
116647	Nlgn1	388.48	414.02	354.83	411.97	416.7	344	425.5	375.02
100909844	LOC100909844	8.95	0	0	6.6	0	0	7.67	7.8
296762	Phtf2	469	451	498	528	453	514	512	457
108348120	LOC108348120	292.22	227.88	270.78	260.06	286.8	244	278.8	235.93
29539	Aldh2	1679	1682	1675	1612	1429	1675	1610	1900
300849	Fbxo9	1239	1200	1085	977	1128	1143	1166	1041
291541	Cidea	45	65	41	46	41	47	69	39
64373	Rhob	3054	2755	3043	3017	2758	3093	3115	2843
60334	Ensa	2599	2520	2308	2279	2467	2388	2454	2348
363187	Mrps10	279	258	229	230	254	226	261	250
287054	Mettl22	387	432	427	348	369	413	367	437

100365259	LOC100365259	241	253	226	278	241	228	262	262
363235	Als2	715.88	709.93	709.97	861.42	747.5	791.1	695.3	748.23
294320	Glo1	2213	2198	2146	1858	2035	2019	2083	2236
291794	Snrpd1	613	555	515	523	529	525	560	581
63881	Rapgef1	1305	1366.9	1341.3	1464	1392	1395	1391	1271.8
362548	Itgb3bp	212	208.94	207	170	189	180	182	243
365590	Zbtb24	205.35	234.67	213.7	162.72	216.1	195.9	194.4	205.96
296599	Cacfd1	481.2	396.11	365.6	350.2	438.1	397.5	358.5	391.23
311569	Acss2	2211	2317	2230	2199	2081	2355	2227	2250
684055	Urad	1.02	0	1.02	0	0	0	2.03	0
289724	Nop14	492	524	470	574	496	498	520	536
29332	Stmn1	4980	4917	4967	4109	4243	4664	4669	5305
296969	Slc35b4	1137	1076	1035	1102	1086	1030	1168	1045
363273	Cops7b	431.91	454.96	422.71	423.12	418.2	430.5	439	436.72
84392	Kif3a	4342	4525	3972	4843	4472	4088	4687	4350
116698	Trim28	1587	1611	1716	1540	1564	1666	1624	1569
117543	Decr1	438	359	361	304	302	324	432	397
117180	Csdel	4030.3	4049.65	3927.6	3825.8	3983	3806	3914	4054.83
361030	Tmem260	765	754	741	676	734	725	778	685
287710	Cavin1	1425	1370	1622	1482	1523	1484	1313	1551
113922	Selenof	4216	3850	3816	3504	3616	3680	3866	4151
289318	Tmem63a	151	160	174	154	139	185	151	161
64053	Dlg2	1822	1752	1822	2087	1940	1841	1968	1699
689560	Ryr2	1453	1440	1527	1934	1764	1546	1623	1390.99
364678	Sfxn1	1654	1688	1675	1624	1760	1641	1604	1605
689820	Kmt5a	2484.6	2514.06	2427.4	2617.6	2422	2558	2545	2471.14
303514	Msl1	1883	1787	1923	1920	1913	1826	1910	1829
300158	Kif21a	10986	11391	10857	12734	12191	10874	11825	10864
64638	Rpl28	3161.6	2743.85	2907.7	2384.9	2748	2783	2532	3083.04
313861	Eml4	878.99	855	845	883	840	847	944	815
287532	Slc43a2	818	927	908	1037	1003	926	894	850
287927	Ube2v2	1953	1915	1752	1797	1791	1743	1929	1920
29671	Psma4	1991	1981	1969	1711	1856	1796	1916	2049
103691034	Peg3	7445	7494	6919	8541	8410	6923	7637	7290
315776	Tln2	3399	3621	3756	4174	3871	3741	3722	3548
619573	Fam104a	1116.9	1036.76	1058	981.9	1047	1091	1004	1032.66
360496	Ciao3	375	357	314	275	323	305	328	359
362902	Dcaf13	406	384	405	348	390	362	391	393
288526	Akap17a	875	796	806	833	906	831	789	769
497874	RGD1565784	395	408	420	324	369	359	392	420
361174	Alg11	1636.7	1601.9	1538.4	1565	1607	1527	1447	1731.72
313409	Dnajc6	3408	3392	3173	3812	3587	3440	3400	3296
310672	Tars2	822	784	721	786	810	750	759	780
316328	Kansl3	1377	1412	1416	1356	1342	1381	1376	1437
304714	Rrn3	1121.4	1105.63	1010.4	1043	1127	961	1098	1074.71
619345	Surf2	305.73	464.72	455.11	409.39	364.7	439	445.2	378.73
305408	Adgra3	252	282	270	318	269	267	337	244
102548503	LOC102548503	113.56	96.57	89.38	98.58	103.9	91.06	109	92.4
117088	Adarb2	65.01	74.07	72.72	78.7	74.25	49.88	94.1	70.98
362750	At11	5649	5393	5013	5226	5396	5123	5441	5227
360497	Wdr24	431	493	427	462	434	426	454	491
25136	Gfra2	1897.8	1945.14	1770.1	1981.8	1849	1960	1791	1961.06
108350443	Inafm2	322	272	287	258	295	300	284	255
25435	Eef2k	802	768	823	811	915	821	679	775
298867	Klh129	528	507	493	545	467	554	543	500
245956	Scn3b	1983.6	1751.85	1783.3	1768.8	2030	1642	1862	1721.92

305888	Zfhx2	865	859	914	1061	1016	963	890	814
288701	Srsf9	181	160	192	162	147	169	191	185
24849	Tpil	7107.6	6845.21	6810.6	6024.3	6222	6426	6875	7148.79
503018	Wdr35	456	456	491	457	444	459	519	430
315554	Pus3	253	209	270	199	228	217	261	221
362769	Dglucy	183	196.02	193.26	188	175.1	192.2	193.7	196.16
303068	Adam19	3493	3733	3894	4073.9	3860	3702	3979	3589
81672	Grm7	656.21	607.8	648.97	643.53	674.8	619.7	610.8	640.37
100909827	Kbtbd7	300	286	265	327	315	291	268	299
361375	Heatr3	391.44	385.81	353.87	315.12	366.4	378.3	375.7	319.72
313928	Efr3b	2041	2143	2090	2271	2133	2154	2107	2115
690043	Rnf168	431	393	405	436	440	371	392	455
363002	Smarcd1	1238	1300	1180	1287	1227	1295	1242	1220
116646	Tpt1	12294	11750	12299	10019	10581	11612	11245	12730
293960	Zfand5	3279	2986	2885	3095	3099	2936	3166	2993
679898	Zmat2	1202	1180	1250	1175	1216	1138	1200	1233
307070	Larp4b	2028	2020	2046	2097	2138	1973	2103	1943
102557190	LOC102557190	7.73	9.12	10.05	4.53	13.39	5	7.57	5.34
364137	Tmem165	660	690	693	618	617	687	716	630
108350349	LOC108350349	121	114	110	142	165	109	113	98
499071	Ccdc106	116	110	138	124	119	116	110	141
29307	Gpr182	68	62	50	64	50	63	54	76
361296	Rnf125	304	314	289	314	341	251	324	300
100909598	Pigbos1	95.32	76.65	70.22	70.99	76.08	58.55	74.37	102.9
29705	Gabra1	1558	1312	1300	1459	1392	1335	1446	1433
296320	Ctnnb11	575	536	566	527	544	576	581	494
312477	Dok1	59	61	64	61	53	62	55	74
498183	Mapkapk5	547	567	581	512	571	556	541	530
54283	Pfkfb4	303	317	338	272	289	315	322	299
300120	Fam118a	329	311	276	315	302	267	329	328
360831	Abhd11	270.34	283.46	241.19	251.62	225.2	270.4	318.8	228.01
100362324	Dhx29	644	676	691	702	673	680	721	628
100909597	LOC100909597	328.68	275.42	309.21	328.88	350.6	282.7	312.5	291.34
690085	Bcl7a	485	511	466	559	552	485	473	503
308568	Fv1	679.62	616	642	491.37	547.2	609.7	653	609.57
367242	Rab23	768.11	786.32	750.1	870.16	784.3	755.9	845.6	776.4
313867	Lrpprc	2539	2708	2374	2556	2581	2466	2687	2403.01
140929	Pde7b	320.82	249.21	232.1	273.44	244.6	279.5	264.4	283.04
301575	Itm2c	9484	9550	9865	8958	8956	9143	9806	9806
363077	Dis3l	493	544	509	535	510	540	506	517
287871	Rptor	1199	1207	1233	1312	1251	1227	1203	1251
500219	Lrrtm4	208	215	171	189	186	211	193	190
116643	Vcp	12203	12264	11130	11881	11284	11765	12580	11668
299121	Actr10	2435	2325.43	2138.7	2153.6	2193	2169	2284	2372.45
499314	Tut1	275	256	276	254	254	262	256	285
500367	Klhl42	384	405	383	422	466	338	386	398
362031	Alg14	471	511	484	398	442	483	452	480
299971	Atp6v1c1	3080	2867	2657	2667	2814	2611	2892	2912
360950	Wdr1	4032	4162	4623	4291	4142	4317	4507	4079
362237	Tbcd20	758	719	783	753	761	761	740	740
681059	Vps25	1694	1702	1569	1345	1593	1514	1597	1583
291691	Brd8	679	729	662	683	714	707	634	688
117095	Bhlhe41	968	922	831	885	939	964	823	867
363236	Fam117b	1527	1491	1546	1563	1623	1488	1515	1479
24400	Gnb1	16706	16950	16365	15904	16867	16522	16509	15791
100363225	LOC100363225	114.98	107.96	92.83	79.91	81.61	80.71	117.3	114.69

294318	Btbd9	692	766	665	724	684	755	709	689
24626	Pde4b	239	198	205	221	222	202	240	196
498154	LOC498154	171	137	146	134	138	154	157	137
688885	Nol11	517	556.99	477	519	509	507	540	507
294698	Slc30a5	674	624	588	500	584	641	598	555
259274	Nmt1	1602	1585	1549	1529	1659	1528	1539	1518
363836	Ube2l3	4697	4923	4444	4755	4486	4875	4656	4740
288236	Psmg1	698	643	555	544	591	568	645	628
361600	Tm6sf1	1962.9	1870.47	2023.9	1814.8	1895	1825	2075	1852.13
85238	Synj1	5035	5353	4917	6448	5605	5189	5563	5325
314325	Gpatch2l	325	334.29	360.35	319.8	337.1	334.4	318.6	345.03
295443	Papss1	2536	2783	2551	2258	2227	2571	2793	2504
140726	Cacng5	538	511	517	584	569	495	547	532
498559	CommD6	707.99	590.33	531.43	638.32	607.2	581.2	614.3	657.38
361695	Tmem134	459	485	478	432	433	454	477	484
298410	Cmpk1	2425	2516	2396	2246	2309	2274	2532	2437
102548541	LOC102548541	116.79	96.86	105.99	118.78	104.4	112.5	104.4	115.77
100911235	Med7	265	237	224	213	218	249	243	226
108348257	LOC108348257	20	13.76	15.72	16.41	21	20	11	13.68
29140	Snn	2315.5	2241.13	2024.7	2148.4	1908	2205	2226	2362.56
64631	Ube2g1	1175	1102	1023	1136	1058	1105	1157	1102
366017	Exosc2	175	137	174	149	146	164	168	155
304488	Pptc7	1710.6	1629.51	1365.3	1587.4	1598	1590	1594	1491.43
303823	Map3k13	322.22	331.05	339.09	433.22	373.4	369.9	339.7	338.22
299188	Zfyve1	804	817	796	823	854	777	812	787
50663	Calm2	10728	10441.8	9417	9318.3	9417	9085	10403	10877.07
266709	Pkig	999	971	1065	866	1054	912	921	1002
100912259	LOC100912259	106.95	123.36	93.98	54.29	65.87	97.45	94.25	119.85
309060	Fam53b	712	763	733	734	718	824	716	675
689116	Ncbp2	802.88	699.73	695.82	643.95	740.8	715.7	646.9	730.28
368002	Baz1b	986	1036	1112	1157	1089	1020	1120	1049
310158	RGD1306502	775.61	829.59	746.33	831.19	773.8	781.5	830.4	787.41
26954	Rheb	3152	2943	2617	2566	2565	2822	2901	2956
294948	Armc1	1095	1163	960	1099	1076	964	1101	1163
81513	Lig1	412.18	367	454	405	410	441	394	388.27
287119	Zfp598	634	657	745	648	685	696	671	624
373542	Stk25	2357.1	2300.62	2184.1	2078.5	2374	2177	2186	2156.16
29653	Gpam	3878	3838	3623	4272	4119	3565	3931	3950
102547219	Mosmo	242	253	234	292.99	265	232	272	250
290637	Colgalt1	1064	1129	1172	1087	1139	1083	1109	1108
366492	Epha2	89	89	98	71	82	82	100	82
64474	Hdlbp	10607	11060	10932	11944	11269	11231	11345	10570
117560	Klf9	1023	875	853	1103	1078	1007	943	815
25456	Glr3	3590	3590.91	3008.8	3668.3	3400	3406	3703	3310.32
690183	LOC690183	369.71	365.97	361.96	361.4	310.5	358.4	378.7	407.33
29532	Ighmbp2	643	621	609	602	558	689	625	596
500117	Ccdc126	779	779	569	750	726	614	787	742
24248	Cat	2656.3	2593.2	2480.3	2773.6	2863	2522	2598	2491.61
103690054	LOC103690054	163.34	153.84	152.17	132.17	149.2	153	131.3	166.34
25374	Alad	386	385	367	316	378	380	357	335
690349	RGD1597339	173	193	192	172	161	159	209	199
103689984	Tbc1d12	190.29	168.64	201.55	161.81	290.2	110.6	192.1	127.5
117582	Tmem158	789	776	822	599	909	698	688	683
298906	Pqlc3	1910	1790	1763	1629	1813	1753	1700	1807
360461	Fopn1	739	682	614	621	579	620	693	757
688590	Rundc3b	523	490	407	485	485	420	496	499

307527	Sap130	624	640	667	763	691	705	639	652
303281	Supt6h	3005	3220.81	3150.7	3766.4	3421	3404	3207	3076.58
360853	Uchl5	528	481	491	440	458	444	534	499
301513	Cnot9	493	496	511	444	453	501	456	529
307380	Piezo2	7720	8294	8725	9163	9250	8006	8728	7831
362021	Gpsm2	617	553	553	616	564	563	664	542
300029	Top1mt	207	191	204	179	199	203	191	186
297685	Ddx47	715	693	650	683	646	699	713	676
311462	Btbd3	2315.9	2104.78	2127.8	2396.9	2412	1972	2175	2363.75
102551660	Eml3	569	627	605	555	544	615	610	581
64473	Bpnt1	1819	2029	1694	1919	1680	1933	1828	2001
293448	Uqcrc2	3403.9	3073.51	2772.2	3036.3	2820	2886	3230	3318.81
288654	Mphosph9	96	96	99	105	103	89	95	108
303584	Plekhm1	373	376	429	416	383	408	406	393
362738	Snx6	1879	1865	1749	1792	1722	1718	2001	1826
361662	Bub3	541	505	540	471	495	468	551	538
24627	Pde4d	1045	977	1023	1075	1080	1038	1024	968
317235	Zdhhc15	1178	1070	1054	1235	1145	1081	1191	1109
299810	Yeats4	449	409	430	368	417	389	426	420
360584	Ggnbp2	1791	1675	1593	1617	1621	1565	1722	1752
79449	Rpl21	4789.6	4804.82	4448.4	3903.6	4191	4146	4608	4959.11
687750	Fam102a	1220	1298	1293	1302	1229	1324	1235	1313
24684	Prlr	20.06	19.41	23.44	31.54	34.97	6.07	27.48	25.71
25612	Asns	1628.8	1584.02	1487.2	1651.9	1650	1629	1617	1441.66
246760	Mafk	440.97	462	449	385	406	446	441	440
192247	Sez6	602	635	617	773	578	705	669	669
287446	Elp5	336	337	357	294	286	325	365	345
303831	Eif4a2	12196	11858	10658	10763	10757	10331	11931	12353
100366044	LOC100366044	2282.7	2030.56	1991	2146.6	2099	2041	2166	2125.25
291340	Spag61	11.35	11	2.72	6	5	9	11	6
287466	Wscd1	70.94	40.09	58.62	61.17	65.11	54.2	52.22	58.77
24703	Raf1	1514	1465	1412	1460	1458	1461	1509	1410
24822	Tmbim6	4003	4240	4151	3830	3836	4237	3937	4178
64124	Adgrl4	259	209	238	199	211	210	272	210
499883	Gabpb1	241.21	237.5	253.05	261.05	232.3	257.3	242.8	258.35
24420	Gspt1	1361.3	1412.59	1005.1	1533.3	1311	1419	1169	1401.28
366227	Apmap	589	571	570	596	552	571	649	549
299730	Nedd1	118	112	119	118	108	125	125	108
308126	Zbtb2	107	125	126	113	134	126	100	110
295284	Rbm8a	765	704	713	647	695	698	699	731
313648	Ddost	1628	1652	1729	1612	1601	1754	1647	1605
362293	Dnajb6	1210.4	1280.95	1223.7	1244.9	1299	1234	1202	1214.79
311355	Ppip5k1	721	707	715	818	726	811	709	709
116470	Stx1a	489	532	492	512	515	513	480	513
64516	Vps45	822	801	710	717	792	736	809	707
502228	Tmem181	977	1087	979	1038	1034	992	1038	1009
303193	Alkbh5	260	256	240	271	287	219	276	243
310665	Mindy1	531	534	489	538	492	519	552	525
292008	Txn14b	536	536	487	534	539	505	549	496
681370	Bricd5	9.07	3.64	8.23	10.59	7.96	0	14.72	8.79
305968	Hmbox1	6759.6	6586.41	6224.2	7748.7	7490	6695	6838	6243.33
360698	Tmem50b	2371	2304	2186	2206	2139	2229	2281	2401
502872	Jagn1	632	517	487	503	485	529	558	563
310071	Ercc8	414	410	420	378	403	382	408	426
296380	Arfgef2	2265	2284	2182	2503	2395	2288	2315	2219
116552	Plod1	1253	1265	1530	1464	1289	1519	1355	1339

360921	Rufy3	10024	9862	9552	9875	10218	9545	10004	9475
295230	Cct3	2701	2712	2545	2591	2513	2653	2758	2606
305152	Aff1	490.88	558.55	551.08	599.56	532.9	566.4	584.7	512.12
287042	Nubp1	431.09	392.54	361.01	392.09	417.8	396	390.7	369.46
85332	Cavin3	1738	1845	1882	1347	1519	1707	1752	1822
306274	Ercc6	368.77	337.63	360.9	335.1	337.4	349.3	392.6	320.68
171150	Cdk7	302	307	273	254	293	276	287	278
29676	Psbm3	2225	2201	1850	1754	1947	1920	2008	2141
361374	Brd7	954	809	885	809	812	872	916	851
313278	Ptprd	565	525	583	636	618	543	652	492
312083	Vps50	2066	2069	2079.2	1989	2113	1759	2028	2289
361607	Emsy	562.57	522.87	540.04	610.41	565.9	523	584.9	558.34
79428	Luzp1	1584	1684	1534	1835	1693	1703	1710	1520
24267	Comt	2192.3	2340.91	2242.9	1926.4	2052	2249	2048	2339.07
50662	Runx1	628.3	613	596.65	693	641.2	636.6	621	628
691889	Atp8a2	12504	12125	11029	14185	12833	13167	13282	10481
365699	Nadk2	343	333	301	278	306	292	290	365
307128	Frmd4a	449	417	456	571	509	450	448	483
367865	RGD1560821	321.28	287.81	308.88	299.96	269.4	286.9	319.8	339.85
303580	Hexim2	174.55	183.88	186.93	151.29	171.7	156.3	190.5	177.11
83467	Slit3	299	350	323	331	283	415	258	345
309326	Ranbp6	1766	1583	1529	1669	1721	1508	1703	1605
171115	Pde5a	366	209	376	391	307	280	425	328
25037	Mobp	14.26	18.35	10.21	18.29	21.91	18.72	10.54	9.85
500573	Tmco4	160	182	181	159	129	193	171	188
316233	Tjap1	540	479	597	483	520	559	536	481
295283	Ankrd34a	74.01	100.99	75.78	108.74	77.01	88	82	112
25349	Scn2b	1111.7	1112.92	1028.1	1124.7	1331	1073	812.3	1154.57
498394	Msantd1	47.41	34.82	32.9	35.51	42.31	34.17	43.96	29.99
60665	Cxcl6	30.16	23.91	18.29	14.12	28.85	16.36	23.75	17.4
29218	Rcn2	1297	1271	1248	1233	1192	1259	1351	1240
108351838	LOC108351838	6.54	0	2.48	5.42	3.63	2.65	5.72	2.42
303353	Psm11	2150	2058	1965	2002	2046	1980	2102	2036
102556298	LOC102556298	93.13	78.49	84.2	86.84	80.69	93.78	83.45	84.28
362595	Oscpl	388	380	362	366	405	399	321	369
65049	Megf6	128	89	104.82	137	125.3	125.9	113	94
362205	Shf	567	598	624	500	589	651	534	512
296159	Vps16	789	850	768	696	777	785	799	738
311039	Galnt13	729	818	704	868	886	596	828	805
54259	Inpp5d	539	607	615	597	588	597	542	628
305848	Zfp219	1173.1	1115.23	1229.2	1088.4	1159	1170	1142	1129.89
116693	Cyth3	1503	1597.77	1559.4	1463.9	1455	1528	1643	1490.76
140670	Ap2b1	7611.4	8262.41	7315.2	9127.1	8581	7729	8406	7560.79
288925	Wdr83os	646	641	637	605	575	653	644	654
108348241	LOC108348241	19.88	14.92	16.78	16.32	12.06	15.44	12.46	27.86
311730	Gpr155	816	870	818	909	824	827	888	870
24922	Gabrb3	600.64	537.1	505.09	682.72	610.3	515.3	654.9	542.34
362219	Gpcpd1	1559	1500	1448	1482	1453	1532	1592	1405
301509	Tns1	9503.2	8988.78	9945.6	10378	9498	10011	10202	9059.58
306011	Piwil2	236	216	192	226	223	204	227	215
362015	Ampd2	686	608	633	722	672	712	642	620
362844	Brd4	1783.9	1995.29	2141.1	2386	2258	2172	1966	1901
364032	Pigc	477	475	430	410	419	426	491	454
50560	Ip6k1	2673	2824	2669	2598	2696	2814	2651	2591
29562	Prps1	1509.1	1561.69	1471.3	1483	1543	1474	1504	1496.89
292328	RGD1562747	504	484	436	398	443	413	485	479

313604	Zmym1	268.54	275.25	277.66	263.66	267.8	257.3	308.6	250.27
170714	Dynlrbl	5498	5147	4967	4520	4928	4687	4965	5530
29582	Mgat3	2341	2720	2395	2638	2385	2559	2625	2514
295027	Pcdh18	204	222	288	218	229	263	242	197
296512	Fmn1	602.55	654.53	710.26	878.43	910	485.1	722.5	725.28
299159	Atp6v1d	2930	2882	2565	2624	2631	2468	2867	3024
297566	Atp6v1e1	4566	4720	4015	3830	4309	3999	4433	4373
300266	Cbx5	248	230	265	268	235	201	281	293
29364	Cd47	2727	3213	3367	2996	3174	3057	2984	3076
83615	Atp6ap1	4929	4952	4923	4809	4764	5081	4898	4851
293700	Trmt112	1055.9	920.85	937.88	802	890	946	921	956
290558	Nt5dc2	326.61	231.72	341.98	298.34	409.2	235.2	287.1	266.1
361191	Nsun2	1100	1151	1072	997	1066	1067	1129	1054
362274	Ddx27	545.15	607.12	544.83	640.95	639.3	631.2	546.1	519.29
362162	Arfgap2	827.67	861.35	795.13	739.49	783.4	837.9	847	752.39
301742	Copg2	2403	2227	2171	2152	2249	2093	2449	2154
292028	Kars	1795	1794	1707	1590	1577	1772	1754	1777
498678	Ccdc71	636.35	647.52	572.43	592.83	627	622.7	601.4	595.81
364136	Aasdh	291	278	272	315	303	277	289	286
691966	Sqor	299	338	299	234	244	273	311	341
298792	Ypel5	3493	3290	3073	3061	3164	3025	3370	3347
361244	RGD1307443	2928	3079	2765	3242	3138	2952	3038	2876
314675	Btbd11	638	522	627	637	553	598	660	611
690294	Tmem169	321	344	275	281	300	300	304	316
689688	Atg2a	1183	1213	1304	1292	1309	1367	1200	1112
309451	Gbf1	2620	2814	2595	3214	2850	2931	2741	2712
294307	Kctd20	688.97	627.2	660.62	748.65	693.9	691.5	708.6	629.32
361088	Rnf219	311	337	300	330	318	322	312	325
81574	Scn1a	3205.6	2989.36	2995.2	3675.3	3367	3079	3356	3053.41
312915	Arfgef1	2983	2831	2705	3344	3066	2691	3137	2960
100911383	LOC100911383	3.48	1.33	1.51	7.01	2.47	4.25	3.48	3.12
296466	Gid8	679	672	664	664	673	624	683	697
360722	Pdia5	131.98	149.84	174.56	126.69	142.8	174.5	149	116.35
311387	Slc24a5	12.07	19.78	9.86	13.33	11.76	12.61	15.9	14.73
300095	Srebf2	2612	2831	2846	2921	2913	2905	2585	2799
304286	Lmtk2	768.01	850.51	824.32	891.61	805.6	888.4	858.6	779.52
362665	Camta1	3416.7	3348.72	3349.9	3838.9	3826	3483	3447	3188.95
303351	Rhot1	1603	1580	1458	1528	1468	1529	1667	1501
364634	Csmd1	1156	1100	1084	1360	1321	1067	1203	1106
311429	Spef1	509	481.23	536	433	488	463	502	505
363254	Atg9a	2018	2075	2063	2186	2074	2221	2083	1959
304055	C2cd2	850.53	896.92	806.14	905.07	861	878.1	900.7	816.92
361413	Nudt7	483	460	421	412	466	440	425	444
305645	Dlg5	824	881	923	948	951	835	920	868
100362431	Ttc30a	59.03	57.05	44.8	58.3	56.72	52.85	61.25	48.24
100911196	LOC100911196	479	430	474	465	487	463	458	439
678769	Atg4a	509	453	487	414	441	466	455	500
307480	Dele1	1573.8	1506.08	1279	1444	1445	1468	1462	1424.86
315708	Edc3	523	531	478	511	499	514	515	514
316108	Snupn	213	203.35	198.01	159	192	196	206	179
59101	P3h4	230.8	228.9	270.2	219.91	246	235.2	231.5	236.62
500037	Foxp2	99.99	77.49	77.97	112.28	108	51.29	87.96	120.33
312728	Tspan9	976	1052	1196	1129	1136	1093	1124	998
25541	Scp2	3466	3480	3111	3037	2981	3228	3316	3563
25183	Gdi1	12491	12251	11832	12078	12314	12080	12275	11960.99
678893	Susd6	2556.7	2436.49	2446.7	2576.2	2619	2567	2506	2319.02

103694865	LOC103694865	274.81	304.03	311.69	296.62	317.7	297	326.8	245.14
311842	Zer1	1220	1324	1335	1284	1298	1292	1333	1238
29753	Ywhae	15743	15755.2	15706	15866	15714	15595	15722	16017.23
298524	Dnalil	25.03	20.02	25.08	16	22.05	22.02	17	25.03
306607	Tmco3	873.48	1015	876.98	937.42	871.1	976.9	919.4	934.43
690073	Nbas	833	845	799	931	844	839	873	851
362399	Zxdc	363.17	353.22	345.89	352.94	341.2	378.3	345.6	349.74
305502	Tmed4	952	904	868	847	845	935	817	973
360642	Kansl1	949	926	970	966	952	971	1007	880
298596	Sdhd	2423	2336	2220	2115	2129	2298	2284	2381
100366024	Prdm16	335.05	433.26	481.16	412.16	377.5	416.1	450.7	416.99
24917	Kpnb1	2453	2513	2534	2666	2665	2395	2671	2433
360654	Dnai2	25.78	24.57	34.39	27.82	28.1	26.66	26.84	30.94
686779	Caprin2	1519	1500	1278	1451	1462	1381	1496	1408
25701	Mxil	1614	1458	1296	1384	1429	1504	1406	1412
304962	Atf6	1821.4	1901.89	1923.7	2188.2	2028	1887	1995	1925.06
290986	Agtpbp1	7098	7249	6620	7108	6967	6893	7298	6915
501065	Cmtm7	153.94	196.76	229.88	179.86	170.8	208.1	197.4	184.1
361751	Rnls	68	73	65	68	70	62	63.99	78
305317	Guf1	581.29	591.07	595.12	625.81	587.7	588.1	646.1	571.34
64463	Surf1	313.25	249.86	244.34	229.33	286.7	243.3	225	281.8
100312665	Vomlr9	0	1	0	0	0	0	1	0
100322897	Prr30	1	0	0	0	0	0	0	1
100359438	Zfp683	0	0	1	0	0	0	0	1
100359479	LOC100359479	0	1	0	0	1	0	0	0
100359924	LOC100359924	1	6	3	0	3	1	4	2
100360209	LOC100360209	0	1	1	0	1	1	0	0
100360296	LOC100360296	1	0	0	0	0	0	1	0
100360426	LOC100360426	1	1	0	0	1	0	0	1
100360640	Pxt1	0	1	1	0	0	1	1	0
100360933	LOC100360933	5	2	4	5	2	7	5	2
100362588	Izumo3	0	1	0	1	0	0	2	0
100362817	Cdrt4	0	0	1	0	0	0	0	1
100363110	LOC100363110	1	0	0	0	0	0	1	0
100363193	LOC100363193	10	16	15	12	14	15	12	12
100363238	Lrcoll	1	0	1	1	1	1	0	1
100363341	Lrriq4	0	0	0	1	0	0	1	0
100363492	Ly6k	1	2	2	0.5	1	2	1	1.5
100909489	Trpc5os	0	0	0	1	0	0	1	0
100909913	LOC100909913	0	0	0	39.54	39.54	0	0	0
100909947	LOC100909947	0	1	0	1	0	1	0	1
100910057	LOC100910057	1	0	0	0	0	1	0	0
100910068	LOC100910068	1	2	2	0.5	1	2	1	1.5
100910205	Prss50	2	4	2	0	6	1	0	1
100910565	LOC100910565	0	0	1	0	0	0	1	0
100910679	LOC100910679	0	1	0	0	0	0	0	1
100910819	LOC100910819	0	1.38	1.86	0	0	1.31	0	1.93
100911002	LOC100911002	0	1	1	0	0	1	1	0
100911264	LOC100911264	0	1	3	3	2	2	2	1
100911842	LOC100911842	0	1	0	0	0	0	1	0
100912282	LOC100912282	46.48	92.95	46.48	0	46.48	92.95	0	46.48
100912302	Sox1	0	0	0	1	0	0	1	0
100912849	LOC100912849	1	0	1	1	0	0	1	2
102546454	LOC102546454	0	0	1.45	0	0	0	1.45	0
102546484	LOC102546484	0	0	1	0	0	0	0	1
102546724	Tex51	0	1	0	0	1	0	0	0

102546830	LOC102546830	2	1	0	0	0	1	1	1
102548013	Ccdc168	2	0	2	2	0	1	3	2
102548067	LOC102548067	1	1	0	1	0	1	1	1
102550872	LOC102550872	0	1	1	2	1	1	1	1
102551064	LOC102551064	5	0	1	1	3	2	0	2
102552663	LOC102552663	5	0	1	5	4	2	3	2
102553196	LOC102553196	1	0	1	1	1	1	1	0
102554121	LOC102554121	0	1	0	0	1	0	0	0
102554898	LOC102554898	1	1	0	2	0	1	2	1
102555994	LOC102555994	1	0	0	0	1	0	0	0
102556175	LOC102556175	0	0	0	1	0	0	1	0
102556486	LOC102556486	0	0	1	0	0	0	0	1
102557137	LOC102557137	25	25	36	25	33	13	37	28
103690606	LOC103690606	0.5	0	0	0	0	0	0.5	0
103690842	LOC103690842	1	0	5	2	2	2	2	2
103690877	LOC103690877	0	0	1	0	0	1	0	0
103691264	LOC103691264	0	0	1	0	0	0	1	0
103692077	LOC103692077	1	0	1	1	1	1	0	1
103692109	Smkr1	0	1	1	0	1	0	1	0
103692131	Hoxa11	0	4.38	3.55	8.75	13.13	0	3.55	0
103693021	LOC103693021	1	1	0	1	0	0	1	2
103693237	LOC103693237	1	0	0	0	1	0	0	0
103694381	LOC103694381	4.48	0	8.96	0	0	4.48	8.96	0
103694516	LOC103694516	0	0	1	0	0	0	1	0
103695246	LOC103695246	1	0	0	0	1	0	0	0
108348045	NEWGENE 1310680	170.7	170.7	170.7	170.7	170.7	170.7	170.7	170.7
108348079	LOC108348079	0	0	0	50.61	0	0	0	50.61
108348082	LOC108348082	0	0	0	33.95	33.95	0	0	0
108348104	NEWGENE 1308310	0	0.5	0	0	0.5	0	0	0
108348170	NEWGENE 1307313	0	1	0	0	1	0	0	0
108348288	LOC108348288	0	0	1	0	0	1	0	0
108348808	LOC108348808	0	0	1	0	0	1	0	0
108349632	LOC108349632	0	0	1	1	2	0	0	0
108351244	LOC108351244	1	0	1	0	0	0	0	2
108351992	LOC108351992	0	1	1	0	0	2	0	0
108353197	LOC108353197	2	1	0	1	2	1	1	0
108353379	LOC108353379	0	0	1	0	0	1	0	0
114027	Dao	1	3	1	6	2	5	2	2
114500	Gbx2	1	0	2	0	0	0	3	0
114628	Abcg5	14	11	10	6	14	12	6	9
114629	Slc26a3	4	2	8	14	4	7	9	8
114858	Shc3	34	35	40	49	40	40	44	34
116475	Ift172	770	692	642	763	734	747	700	686
117033	Mmp12	0	0	2	0	1	0	1	0
117034	Ptfla	6	5	5	3	7	4	5	3
170580	Fgf21	7	5	6	4	5	5	7	5
171075	Fcer2	1	3	3	1	4	3	1	0
171158	Gpha2	5	5	7	5	4	2	6	10
171304	Kif11	82	54	126	59	101	71	77	72
191570	Serpinal2	0	0	0	1	0	0	0	1
192273	Slc22a25	2	1	1	2	1	0	0	5
24221	Avp	2	0	3	0	1	2	2	0
24271	Cpb1	1	0	1	0	0	0	1	1
24297	Cypla2	1	1	0	0	1	0	1	0
24335	Epo	1	0	0	0	0	1	0	0
24384	Gc	4	1	1	1	1	1	2	3

24385	Gck	0	0	5	3	1	1	4	2
24495	Ii3	0	0	0	1	0	0	1	0
24572	Muc2	8	6	13	11	6	10	11	11
245917	Sycn	1	0	0	0	0	0	1	0
245926	Scaf8	868	883	833	935	926	877	869	847
24613	Oprd1	26	24	13	25	21	22	24	21
246149	Gbx1	9	4	7	3	6	7	7	3
246271	Fev	2	1	3	1	3	1	1	2
24641	Flg	1	2	2	5	4	2	2	2
24841	Klklc2	0	0	3	0	0	1	0	2
24883	Wt1	0	1	0	0	0	0	0	1
25128	Umod	0	0	0	1	0	0	1	0
25251	Cyp2g1	4	3	0	0	3	1	1	2
25471	Kcnel	1	0	0	0	0	0	0	1
25571	Ttpa	14	11	12	9	9	9	10	18
25642	Cyp3a23/3a1	2	0	0	0	0	0	0	2
25649	Apoa2	2	0	3	0	1	2	1	1
25653	Tshb	2	2	2	1	1	0	4	2
25727	Mep1b	1	1	0	0	1	1	0	0
25730	Ntf4	1	2	0	0	0	1	2	0
260320	F7	0	0	1	0	0	1	0	0
287278	Cdkn2aipn1	865	791	781	730	839	762	762	804
287610	Lpo	0	1	0	0	0	0	1	0
287700	Krt15	1	0	0	0	0	1	0	0
287974	Klhl6	33	46	50	27	44	49	30	33
288001	Kng1	0	0	4	0	3	0	0	1
288588	Polr2j	503	442	441	395	446	449	445	441
288597	Fkbp6	0	0	0	2	2	0	0	0
289035	LOC289035	1	0	1	1	3	0	0	0
289227	Ly9	3	1	4	2	4	4	1	1
290003	Olr1627	1	0	0	0	1	0	0	0
291755	Dsg1	1	1	0	3	2	1	1	1
291929	Olr1666	0	0	1	0	1	0	0	0
291944	Ttc29	13	9	12	8	11	11	6	14
292172	Eya4	17	24	45	18	17	34	24	29
29221	Arg1	55	43	57	43	23	44	80	51
292559	Olr3	1	0	0	0	0	0	1	0
292701	Ceacam20	0	0	0	1	0	0	1	0
292757	Fbxo17	0	5	4	3	4	1	3	4
29277	Cyp2c11	0	0	1	0	0	0	0	1
292809	Wdr88	0	2	0	0	0	1	1	0
293130	Ndufc2	1310	1225	1163	1033	1197	1158	1165	1211
293309	Olr163	0	1	0	0	0	0.5	0.5	0
293568	Nkx1-2	0	0	1	0	1	0	0	0
293623	Rassf7	40	43	41	42	31	46	36	53
293634	Tmem171	4	1	3	3	3	1	4	3
293703	Nudt22	210	216	171	128	175	191	164	195
293731	Scgbld4	0	0	0	1	0	1	0	0
293812	Olr379	1	0	0	0	0	0	1	0
293937	Pkd211	4	1	4	4	5	3	3	2
294075	Ffar4	0	2	2	1	2	0	0	3
294166	Olr1708	0	0	1	0	0	0	0	1
294187	Olr1730	1	1	2	1	0	2	1	2
294198	Olr1744	4	0	1	2	4	1	1	1
294640	Otp	2	0	0	0	1	1	0	0
294732	Actb12	0	2	0	0	1	1	0	0

294979	Adad1	3	4	5	2	2	5	4	3
295176	SI00vp	0	1	1	0	1	0	1	0
29518	Lgals7	0	0	1	0	0	0	0	1
295361	Eps813	0	0.5	0	0	0.5	0	0	0
29552	Lcn5	0	0	1	0	0	0	0	1
295728	Olr458	0	1	0	0	1	0	0	0
296201	Ovol2	1	0	0	0	0	0	1	0
296836	Lrrd1	0	1	2	1	0	2	1	1
296867	Pgr151	0	1	2	1	1	0	1	2
297444	Cfap100	369	374	355	391	309	388	414	378
297576	Dppa3	3	3	2	0	1	1	3	3
297960	Rragd	140	118	130	121	145	132	118	114
298077	RGD1305807	0	0	4	0	2	1	0	1
298392	Ccin	0	0	1	1	0	0	2	0
298396	Olr834	0	0	0	1	0	0	1	0
298981	Nkx1-1	0	0	1	0	0	1	0	0
299152	Tex21	4	5	7	4	6	5	4	5
299265	RGD1309028	0	0	1	0	0	0	0	1
299586	Olr1087	1	0	0	0	0	1	0	0
299756	Mgat4c	41	42	39	43	32	42	39	52
299928	Colec10	1	0	1	0	2	0	0	0
300016	Slurp1	5	2	0	3	1	4	4	1
300122	Ribc2	1	1	0	1	1	0	1	1
301042	Trim71	0	1	1	0	0	0	0	2
301133	Tnfsf14	6	3	3	0	2	2	4	4
301225	Unc5cl	3	1	3	0	4	1	2	0
301269	Adgrf2	0	0	0	1	0	1	0	0
301280	Cyp2ac1	0	0	0	1	0	0	0	1
302087	Olr1218	8	3	0	0	0	0	7	4
302432	RGD1561382	0	0	0	1	0	0	0	1
302591	Nxf3	2	8	3	4	4	4	3	6
302645	RGD1566060	0	0	0	1	0	0	1	0
302813	Gpr119	1	0	0	0	0	0	0	1
302954	Olr1356	0	1	0	0	0	0	1	0
303330	Tmem97	343	340	375	283	260	343	379	359
303523	Krt39	1	1	0	0	0	0	0	2
303887	Muc4	0	2	0	1	2	0	1	0
304050	Fam3b	7	7	7	6	3	3	11	10
304124	Cldn8	0	0	1	0	1	0	0	0
304484	Ccdc63	0	1	0	0	0	1	0	0
304692	Serpinb12	0	0	1	0	0	0	0	1
305073	Dtl	16.03	10.31	14.2	8	22.02	13.04	5	8.48
305103	Fcrl6	0	0	1	0	1	0	0	0
305265	Tmprss11e	1	0	0	0	0	1	0	0
305606	Mtif2	189	215	205	238	214	164	251	218
305841	Olr1637	1	0	1	2	0	1	1	2
305846	Slc39a2	0	1	0	0	0	0	1	0
306436	Fbxo8	396	420	428	372	412	409	405	390
307865	Cntnap4	330	275	219	307	312	266	310	243
307920	Pabpn11	1	0	0	0	0	0	0	1
308551	Vom2r38	0	0	0	1	0	0	0	1
308831	Tenm4	393	403	408	560	440	476	499	349
309201	Rom1	190	173	186	206	163	189	193	210
311325	Knstrn	23	22	26	15	20	23	27	16
311399	Usp50	6	3	4	5	6	2	6	4
311803	Lrrc26	1	2	0	2	2	2	0	1

311825	Stkld1	1	0	0	2	1	1	1	0
313225	Cavin4	16	10	6	9	11	16	7	7
313254	Kif12	1	0	0	0	0	0	0	1
313552	Zmynd12	22	28	19	22	20	28	29	14
314406	Serpinalf	0	1	1	0	0	0	0	2
315071	Col22a1	64	61	118	45	61	97	77	53
315196	Wnt7b	2	3	4	3	3	6	3	0
315320	Krt84	0	0	1	0	1	0	0	0
315748	Skor1	1	0	0	0	0	0	1	0
316014	Nbeal2	238	261	242	214	274	245	217	219
316318	Prss40	1	0	0	0	1	0	0	0
317161	Mospd4	0	0	1	1	1	0	1	0
317224	Fndc3c1	0	0	0	2	1	0	0	1
317270	Mageb18	0	2	1	0	0	1	1	1
317389	Ccnb3	0	0	0	1	0	0	0	1
360445	Crisp2	0	0	1	0	0	0	1	0
361257	RGD1564129	0	1	1	0	0	0	0	2
361275	Bend7	24	32	19	40	29	32	26	28
361332	Adamts19	2	2	2	3	3	3	2	1
361584	Siglech	3	1	1	0	1	1	2	1
361757	Opalin	1	0	1	4	1	1	3	1
362319	Tmbim7	2	2	3	1	3	1	3	1
362580	Ccdc30	37	34	29	18	40	26	29	23
362653	Ctrc	5	3	3	1	1	2	3	6
362858	Polr3b	560	523	527	581	581	502	541	567
363060	Plet1	0	1	2	0	1	1	1	0
363270	Spata3	1	0	1	1	0	1	0	2
363274	Prss56	0	0	1	0	0	0	0	1
363453	Ppplr3f	44	32	42	42	43	40	31	46
363483	Dmrtc1c1	0	1	0	0	0	0	0	1
363627	Rnf222	1	0	0	0	0	0	1	0
363991	Ascl5	1	1	0	0	1	1	0	0
364029	Slc9c2	1	2	0	1	1	1	0	2
364134	Tecr1	2	1	0	0	1	0	1	1
364152	Phox2b	1	1	0	0	2	0	0	0
364301	Rnase9	1	1	1	0	2	0	0	1
364303	Rnase111	0	0	2	0	0	2	0	0
364707	Foxf2	6	5	8	7	9	4	7	6
365217	Cnfn	1	1	0	1	1	2	0	0
365280	Pgpep11	2	2	2	3	0	2	2	5
365322	Olr43	1	0	0	0	1	0	0	0
365333	Olr154	1	1	0	0	0	0	0	2
365394	Cabp4	34	22	30	28	25	29	25	35
365408	Ms4a15	1	0	0	2	0	0	1	2
365460	Tl12	7	8	11	5	7	6	10	8
365900	Alx3	0	0	0	1	0	1	0	0
366089	RGD1564319	1	0	0	0	0	0	1	0
366116	Olr729	1	0	0	0	0	1	0	0
366836	Ephx3	2	1	2	4	3	4	2	0
366891	Caps2	2	0	0	1	0	1	1	1
367086	Sln	1	0	2	0	0	2	1	0
367196	Acad8	303	299	276	227	247	292	270	296
367753	Luzp4	0	2	1	0	1	0	1	1
404643	Mrgprb13	0	0	1	0	1	0	0	0
404943	Olr931	0	0	1	0	0	0	0	1
405152	Olr1192	0	0	0	1	0.5	0	0	0.5

405993	Olr1462	1	0	0	0	0	1	0	0
405997	Olr1530	0	0	0	0.5	0	0	0.5	0
405999	Olr1532	0	0	0	0.5	0	0	0.5	0
406227	Krt72	0	0	1	1	0	2	0	0
407757	Krt76	4	4	2	5	4	2	4	5
408206	Ggt6	0	0	2	0	0	1	0	1
408218	Capn11	1	0	0	1	0	2	0	0
408227	Wfdc12	0	1	0	0	1	0	0	0
408241	Prss57	2	0	2	0	1	1	0	2
445583	Reg4	1	0	0	0	0	0	0	1
450223	Clec4e	1	2	5	1	5	3	1	0
494208	Ly49i3	1	0	0	0	0	0	0	1
494211	Ly49i5	0	1	0	0	0	0	1	0
494244	Bin2a	4	1	2	0	2	2	2	1
494250	Vomlr85	1	0	0	0	1	0	0	0
494259	Vomlr7	0	1	0	0	0	0	0	1
497196	NMS	1	1	0	3	0	1	3	1
497862	RGD1564086	2	1	0	1	1	0	3	0
497913	Gjc2	16	17	26	23	17	24	21	20
497938	LOC497938	1	0	0	0	0	0	1	0
498006	Ccdc103	1	1	3	1	0	4	2	0
498129	Tex45	1	0	0	0	0	1	0	0
498230	Golt1a	1	4	4	1	3	3	1	3
498236	LOC498236	1	1	2	0	1	0	1	2
498251	Apobec4	1	0	0	0	1	0	0	0
498339	LOC498339	0	0	0	1	0	0	0	1
498423	Sertad2	781	779	771	795	722	780	794	830
498607	Mef2b	7	5	10	3	3	8	4	10
498699	RGD1562024	0	0	0	1	1	0	0	0
498705	LOC498705	1	0	0	0	0	0	1	0
498836	LOC498836	1	1	0	0	2	0	0	0
498950	Marveld3	1	3	0	0	1	2	0	1
499072	Tmem238	78	72	64	61	74	65	74	62
499152	Izumol	3	2	3	1	3	1	3	2
499303	Kcnk7	11	8	13	10	7	18	6	11
499657	S100a712	0	1	0	0	0	1	0	0
499865	Tmco5a	0	1	0	0	0	1	0	0
499925	Bpifb4	1	3	2	0	2	0	2	2
499990	Tmem243	199	201	178	174	197	211	164	180
500139	Itprid1	0	1	1	0	2	0	0	0
500156	Atoh1	1	0	0	0	0	0	1	0
500349	Gprc5d	1	2	2	1	1	1	0	4
500366	Rep15	0	1	3	1	0	3	1	1
500434	RGD1563056	12	15	15	12	16	13	10	15
500449	Sit1	5	7	7	0	3	3	9	4
500554	Fam229a	6	8	10	4	8	10	4	6
500724	Lbhd2	0	0	0	1	0	0	0	1
500938	RGD1563200	0	1	0	0	0	0	1	0
500961	Glb113	1	1	0	1	0	1	2	0
501049	Gpr62	4	3	7	11	5	8	4	8
501050	Iqcf3	0	1	0	0	0	1	0	0
501070	Dlec1	11	11	17	18	20	13	16	8
502113	Spata31d1b	0	1	0	0	0	0	1	0
502689	Tldc2	4	4	4	5	6	4	5	2
502852	Cd207	0	0	0	1	1	0	0	0
502946	Arid3c	2	2	2	1	3	2	1	1

502970	Angpt13	0	0	1	0	0	0	0	1
503435	Cldn34a	0	1	0	0	0	0	0	1
541457	Dbx2	0	0	2	0	0	1	1	0
55939	Apom	13	16	13	8	11	13	13	13
56806	Adam2	0	0	0	1	0	1	0	0
57395	Cltrn	0	1	0	0	0	0	0	1
58975	Klrg1	1	0	1	0	0	1	0	1
60432	Glp2r	0	0	1	0	0	0	1	0
60566	Syt8	3	2	3	1	0	8	1	0
60574	Prap1	0	0	3	0	0	0	2	1
64027	Bspry	56	77	59	41	66	49	55	63
64055	Guca2b	0	0	1	0	0	0	1	0
641644	Defb25	1	1	1	0	0	1	1	1
64186	Ascl1	1	0	0	0	0	0	1	0
64349	Crybb3	1	0	1	1	1	1	0	1
64549	Inhbc	1	1	0	0	1	0	1	0
64680	Crhr2	42	22	28	22	26	36	22	30
65241	Trnaulap	213	186	233	208	213	211	215	201
679247	Eef1akmt3	2	1	0	0	0	1	1	1
679701	Barx2	0	1	2	2	1	1	2	1
679932	Nxph2	1	1	0	0	1	0	1	0
680697	Fcrl5	0	2	0	0	0	2	0	0
680923	Pvrig	0	0	1	0	1	0	0	0
681006	LOC681006	0	0	1	0	0	1	0	0
681377	Rp1	0	1	0	0	0	1	0	0
681398	Fam174b	53	50	51	69	77	41	49	56
684972	Fam25a	1	0	0	0	1	0	0	0
685080	Nipsnap3a	0	0	0	1	1	0	0	0
685463	LOC685463	0	1	0	0	0	0	0	1
685524	Frg2	0	0	0	1	1	0	0	0
685767	LOC685767	0	0	1	0	0	1	0	0
685940	Samd3	0	1	1	1	0	2	1	0
687472	Wdr87	0	0	1	0	0	1	0	0
689048	Fam187b	1	0	0	2	1	2	0	0
689090	Khdc1	0	3	1	0	1	1	2	0
689151	Ccdc87	3	3	3	1	1	4	5	0
689717	Cpo	1	1	0	0	1	0	1	0
689792	Skint8	1	0	0	0	0	0	0	1
689869	Tas2r140	1	0	0	0	0	1	0	0
689917	Gpr21	4	0	2	1	1	2	2	2
689927	LOC689927	0	1	0	0	0	0	0	1
690235	LOC690235	1	0	0	0	1	0	0	0
690252	Cnih3	10	11	5	10	11	7	7	11
690356	Vom2r37	2	0	0	0	0	2	0	0
690415	LOC690415	1	0	0	0	0	0	1	0
690504	Kpna7	0	0	1	0	0	0	1	0
690544	Cby3	8	8	9	6	7	5	13	6
690906	Lilrc2	5	3	4	3	5	6	0	4
690953	Rdh8	0	0	1	0	0	0	0	1
691044	LOC691044	1	0	0	0	0	0	0	1
691438	Vom2r54	0	0	0	1	0	0	0	1
691722	LOC691722	7	3	5	4	5	5	6	3
691750	Tmem107	69	78	72	73	64	74	85	69
691905	Pla2g4d	1	0	0	0	0	0	1	0
691909	Ccdc189	20	22	30	25	20	20	33	24
691970	LOC691970	0	1	0	1	0	0	2	0

78951	Hspb3	12	9	3	10	6	20	5	3
78969	Trib1	183	183	168	178	141	186	210	175
81635	Adar	1481	1592	1571	1706	1639	1656	1536	1519
81673	Gtf2b	680	574	569	524	546	544	639	618
83784	Agxt2	0	1	0	0	0	0	0	1
84349	Cd40lg	1	1	0	0	1	0	0	1
84592	Cetn1	0	0	1	0	0	0	1	0
84597	Fut9	1	1	1	2	1	1	1	2
89833	Ftcd	3	2	6	2	2	4	2	5
94199	Dpep1	4	2	1	2	1	5	1	2
29228	Nfic	3721	3586	3606	4379	4130	3772	3933	3457
303194	Top3a	120.6	115.97	151.07	135.54	136.4	128.1	132.3	126.39
361828	Specc11	1588	1669	1635	1749	1703	1623	1753	1563
363544	Cluap1	543	566	503.64	493	508	513	546	539
295234	Lamtor2	1053	953	919	827	928	938	845	1042
100911865	LOC100911865	23.04	0	17.16	34.4	20.67	8.61	16.33	29.01
108348166	NEWGENE_1309446	32.32	37.31	35.15	32.14	39.53	32.89	29	35.54
25125	Stat3	4622	5048	5283	5068	5039	5189	5047	4752
84598	Jak1	6561.5	7344.07	6506.7	7382	6983	6694	7073	7053.49
24924	Ptn	7307	6790	6949	6980	7372	6449	6861	7354
117855	Sf1	1883	2043	2180	2292	1979	2249	2042	2131
361577	Kdelr1	1153	1116	1262	1104	1116	1176	1176	1169
302489	Hs6st2	1043	1252	1152	1112	1284	1081	1014	1182
299135	Dhrs7	854.57	792.67	683.66	648.97	716.8	708.7	740.7	815.02
678766	Rhou	562.93	512.09	643.21	542.75	539.1	553.7	570.9	598.34
291703	Ercc3	1028	1035	976	1014	1003	1056	1002	994
308023	Ssx2ip	1442.2	1578.12	1580	1444.6	1526	1545	1498	1479.04
114100	Sc5d	4589.6	4670.44	4205	5147.2	4405	4398	4887	4932.93
85267	Slc24a3	843	795	880	910	882	828	844	876
298681	Ssu72	2713	2712	2456	2261	2518	2418	2445	2767
314621	Stk11	1095	1091.9	1136.2	968.25	1048	1089	1109	1047.35
294079	5-Mar	1650	1635	1490	1492	1565	1481	1645	1580
58924	Fut2	15	5	18.86	7.59	17.63	7.4	14	7.45
289561	Polr2b	1353.5	1260.21	1185.5	1205.9	1274	1235	1315	1184.1
296488	Ola1	3058	3044	2890	2795	2774	2883	3188	2950
291295	Rbm17	770	734	707	679	756	706	729	701
79255	Atf4	4241	3907	3728	3731	3747	3869	3953	4049
170933	Syf2	677	721	686	555	674	631	661	675
307657	Ogfod1	351	292	323	341	340	342	327	299
116741	Pcdha4	5341.7	5387.15	5259.6	5568.1	5622	5494	5456	5001.26
301005	Impdh2	972	946	1070	864	926	955	1004	970
300947	Tfdp2	988	951	974	924	996	1000	921	923
301440	Cdk15	239.09	207.24	225.71	217.27	220.5	220.9	218.7	229.93
680737	Snrpf	341	295	342.99	269	312	307	308	322
287552	Blmh	631	666	600	598	611	627	661	598
365345	Cyb5r2	618	643	438	492.21	394	563	566	670
305066	Prox1	8	11	11	6	8.03	9	12	7
362188	Slc5a12	2	3	4	3	2	3	4.01	3
303488	Hoxb3	299.71	288.54	326.28	320.35	311.1	333.7	286.8	304.3
116674	Jdp2	297	273	359	265	318	350	281	246
305977	Pnma2	1710.9	1769.07	1620.3	1796	1946	1568	1722	1666.64
362460	Golt1b	306	278	317	281	311	255	329	288
117044	Rraga	2043	2029	2002	1835	1950	1979	1960	2027
29625	Crhbp	9.56	9.39	4.39	9.79	7.01	9.03	5.09	12.03
361956	Rsrc1	893	824	761	807	803	806	872	807
294007	Pprc1	503	554	560	564	537	582	535	529

366984	Cers5	1112	1110	1085	1025	1052	1075	1084	1125
500921	Tmem117	1115	1209	903	1101	972	1140	1072	1148
362774	Serpina11	206	263	324	249	179	341	210	313
293888	Plgrkt	279	258	234	220	233	233	245	281
313477	Zfyve9	1453	1485	1249	1481	1421	1411	1510	1332
294972	Mccc1	233	247	243	221	224	212	269	240
294276	Brd2	1858.8	1624.68	1796.6	1795.1	1994	1676	1604	1808.35
365872	Aph1a	676	706	752	640	676	699	677	725
362894	R3hdm2	1987	1994	2102	2238	2134	2141	2084	1971
25639	Fkbpla	8175	8525	8581	8732	8604	8234	8046	9166
690586	Ankrd40	3674	3716	3524	3622	3527	3766	3633	3626
100360821	LOC100360821	2.01	1	3.01	3.01	3	1.01	3.02	2.01
300075	Tomm22	1454	1390	1279	1169	1223	1281	1414	1380
306765	Zfp346	397	434	449	453	349	451	488	447
266803	Sostdcl	809	1188	1317	979	647	800	1501	1350
288269	Cfap298	503	436	404	372	403	384	455	475
288762	Mtm1	607.13	595.77	571.07	651.35	601.4	588.6	612.4	625.83
361399	Edc4	735	911	810	880	886	827	843	784
300320	L3mbt12	992.66	981.34	994.82	947.45	949.9	990.4	991	989.67
313121	Map3k7	1101.6	1011.93	915.98	954.11	1030	955.9	1080	921.85
680423	Aup1	1464	1372	1327	1275	1321	1404	1367	1353
691631	Pacs2	5641.7	5990.65	5793	6122.5	5400	6280	5902	5996.72
294311	RGD735065	1189	1203	1116	1146	1164	1149	1152	1195
100362333	LOC100362333	236.57	208.71	203.21	204.83	258.4	168.4	230.5	197.25
288978	LOC288978	75.7	99.51	95.41	87.24	107.8	70.78	94.02	85.72
360668	Sec1411	2696	2620	2457	2775	2751	2580	2503	2728
310785	Wdr47	2302	2170	2145	2133	2201	2134	2259	2168
64310	Arf1	6497	6532	6479	5850	6177	6321	6381	6514
305256	Grsf1	2339	2409	2266	2375	2302	2311	2440	2349
117140	Hivep1	991.12	979.8	918.46	1064.1	1008	978.3	1067	906.62
304740	Clasp1	3836.1	4276.09	4054	4712	4394	4360	4348	3800
295051	Alg5	385	357	375	309	343	355	337	393
288770	Naca	2765	2770	2792	2237	2465	2594	2737	2783
362835	Reep6	327.33	364.99	350	343.99	320	370	339	359.28
364081	Irf6	565	541	470	524	516	497	573	517
288667	Fam216a	725	763	648	648	688	633	723	744
289034	Tmem183a	1751	1689	1671	1662	1740	1647	1655	1741
294400	Nus1	1947.6	1973.26	1818.6	1922.6	1882	1871	1992	1927.95
680860	Eppk1	14.05	18.2	25.07	23.09	13.74	22.07	26.68	18.04
114558	Becn1	1971	1864.22	1815.3	1735.5	1833	1785	1909	1870.47
362849	2-Mar	2116	2070	1999	1745	1987	1890	1966	2099
25709	Hmbs	547	472	518	430	506	514	491	459
286927	Stk16	710	690	653	540	576	611	682	728
361439	Abcb10	312	317	330	324	319	363	297	306
314061	Uvssa	114.33	118.44	107.23	111.53	122.9	94.9	108.4	126.03
315150	Adsl	681.82	643.31	691.59	645.07	627.6	740.6	658.7	639.21
301250	Mrpl14	334	296	310	250	283	306	294	309
287177	Ergic1	883.68	885.45	850.71	945.45	938.9	954.3	855.9	822.27
306962	Hist1h2ac	0	9.17	2.99	5.44	0	2.69	3.87	11.07
100366237	Pfdn4	785	714	698	685	716	655	711	805
361227	Tbcd17	542.1	535.15	507.23	522.06	536.1	524	530.6	519.59
362061	Cryz	146	134	146	138	126	147	158	134
367930	RbmX2	169	145	128	121	160	144	139	121
282585	Mrfap1	6559	5903	6123	5576	6253	5716	6079	6156
155423	Anxa7	2506	2603	2551	2448	2453	2508	2575	2590
108348180	LOC108348180	1095.8	984.5	951.14	1063.4	1053	1104	1058	887.66

306628	Col4a2	3307	3847	4596	3882	3227	4458	4005	3970
54304	Ssbp1	274	263	275	285	270	259	295	275
362824	Mfsd12	1527	1503	1611	1391	1628	1421	1551	1443
100360533	Fam57a	458.01	438.37	430.47	345.97	345.4	461.1	410.5	458.88
301337	Plekhb2	7470	7578	6877	7160	7490	7226	7350	7073
79463	Timm22	753	669	612	596	663	627	631	714
296076	Srp14	1927.2	1682	1681	1462.7	1647	1597	1720	1801.74
315756	Dennd4a	1388.9	1388	1421	1615	1546	1280	1489	1509
306198	Clybl	192.06	193.59	177.67	156.08	177.9	170.9	189	183.03
314553	Ptdss1	1561	1587	1567	1529	1556	1529	1591	1580
292915	Sult2b1	72.33	65.82	69.75	67.1	72	80.53	64	59
362990	Zcrb1	717.47	685.85	716.17	668.05	650.3	641	717.2	784.42
311786	Traf2	246	246	279	263	228	269	286	253
361866	Hace1	647	656	621.82	604.25	628	596	648	661.97
100910106	LOC100910106	86.41	57.56	79.86	83.14	80.79	63.72	76.17	86.89
113947	Maged2	1688	1683	1698	1553	1492	1576	1802	1765
311359	Hypk	979	862	924	798	922	816	868	964
364902	Epg5	590	600	683	661	608	628	655	648
361923	Rpl2211	452	381	388	294	347	361	361	449
289144	Cacybp	2959	2804	2604	2741	2739	2682	2895	2814
64198	Pmpcb	1144	1185	1156	1059	1125	1146	1159	1123
108352515	LOC108352515	30.51	45.56	53.01	36.69	43.58	44.71	42.42	35.39
689712	Tmed11	0	0.99	3	1	1	2	0	2
304081	Clic6	91	127	119	149	114	133	130	110
287642	Slc35b1	998	949	972	919	881	973	992	1000
171358	Camklg	172	105	89	112	127	98	152	102
310664	Prune1	1297	1367	1295	1274	1325	1351	1325	1243
362513	Shb	105	118	148	104	99	139	118	120
300105	Tt1112	348	321	396	354	366	351	370	335
29495	Dlg4	2001	2072	2103.1	2361.8	2287	2276	2134	1859
24781	Slc4a3	716	648	752	653	718	688	692	677
300149	Ncaph2	1476.9	1413.32	1508.7	1388.6	1416	1407	1450	1526.86
301126	Safb2	730.23	777.52	845.66	831.11	825.7	809	798.6	758.14
307235	Rbfa	345	344	349	332	314	364	358	337
288333	Gbe1	1054	1112	939	997	1040	1003	1048	1020
299809	Cct2	4052	3890	3503	3558	3536	3591	3971	3938
29290	Adora1	973	830	948	885	930	861	866	987
25149	Esr2	12.92	14.38	9.93	8.08	25	5	7.54	7.87
108348201	LOC108348201	32.95	37.31	42.4	45.71	38.5	38.18	42.86	39.18
500695	Snw1	712.71	702.73	741.64	661.34	715.8	671.8	737.8	699.27
363091	Myzap	39	22	23.76	28	27	38	31.01	17
117535	Chd4	4107	4519	4571	4817	4675	4627	4448	4304
500956	LOC500956	458.42	488.04	452.28	472.17	493.2	534.2	426.2	421.46
293856	Pdzd4	557	538	573	571	609	539	521	575
308408	Gpr4	65.1	65.22	63.3	123.79	73.81	76.92	84.29	83.1
29672	Psma5	1284	1312	1206	1067	1170	1195	1206	1309
259273	Kcnq5	944	1063	1147	1261	1148	993	1164	1120
290363	Rcbtb2	353	325	314	308	335	309	344	315
81659	Gak	1958	2131	1949	2121	2131	2076	2038	1933
25490	Nedd8	1895	1696	1693	1526	1693	1532	1700	1901
289095	Nmnat2	754	863	788	993	873	805	871	857
114862	Cacnalh	1173	1187.71	1247.1	1412.8	1355	1269	1236	1173.57
679203	Nelfcd	896	837	833	781	815	835	884	821
171010	Ppplr14c	208	190	211	213	207	174	215	228
290555	Spcs1	1352	1236	1173	1066	1133	1231	1218	1257
192218	Kat5	1075	1023	979	922	907	1040	1055	1007

498122	LOC498122	129.5	152.04	147.12	130.91	125.6	132.1	138.1	165.12
679651	Tmem178b	1799.3	1732.03	1788.1	2060.6	1984	1714	1940	1761.49
289353	Slc30a10	211	188	177	214	215	193	198	186
309262	Nsdh1	2146	2225	1921	2002	1805	2078	2138	2294
117053	Rps15a	2682	2504	2348	1941	2351	2209	2374	2565
338475	Nrep	1058	1050.06	1145	1098.7	1001	1161	1203	997.99
311857	Gpr107	1371	1379	1326	1409	1327	1367	1452	1353
311061	Itgb6	220	181	194	186	226	211	199	147
363286	Traf3ipl	176	199	186	209	209	175	204	184
302327	Zfp711	108	95	81	100	108	81	104	92
24967	Psemb9	106	88	92	94	85	93	97	106
360762	Polr1d	289	273	329	247	263	269	304	305
363494	Gla	1162	1213	1098	1072	1073	1126	1239	1119
192356	Unc50	471	513	469	425	434	492	490	467
300257	Pfdn5	995	1002	977	764	955	847	941	1005
313511	Mob3c	46.51	48.23	37.46	50.29	43.96	35.72	47.26	56.04
100359982	Mpc2	1003	1019	889	801	851	917	930	1024
100910418	LOC100910418	13.67	0	18.53	12.31	13.86	8.42	19.25	3.1
300803	Lactb	186	179	196	178	202	181	165	193
290939	Med10	613	561	537	477	529	490	561	614
366448	Uqcrh	2343	2182	1907	1939	2119	1853	1976	2446
116721	Abcc5	3913	4133	3784	4458	4264	4229	3987	3853
54290	Rgs10	2549	2490	2253	1918	2277	2086	2322	2551
316687	Gin1	161	188	173	185	149	193	194	173
298609	Efhd2	655.01	628	775	654	692	678	677.7	672.01
108348192	LOC108348192	78.48	73.62	72.64	81.21	71.99	63.31	93.6	77.92
25671	Smad1	509.07	481.08	504.96	515.57	514.8	507.1	530.4	464
499417	Sumo3	2019	1949	1910	1824	1849	1904	1978	1993
313022	Map3k6	106	80	87	76	87	118	93	52
298451	Atp6v0b	1030	876	875	704	911	826	831	927
682937	Wasf3	557	648	548	681	708	541	600	592
619574	Cybc1	944.02	903.22	885.36	826.07	828.7	893.8	916.4	930.04
291849	Zfp319	153	163	174	201	175	160	183	175
679921	Vasn	261	274	271	228	265	297	240	235
25458	Gss	727	768	673	586	709	654	669	730
116723	Pip4k2a	2453.8	2604.08	2484.5	2674.1	2385	2641	2645	2575
103690508	LOC103690508	14	9.05	12.36	5.74	15.34	3.83	6.91	15.19
364386	Rnf31	435	420	469	387	448	424	414	430
85262	Slc25a27	733	715	613	670	651	668	699	721
288256	Cryz11	741	713	603	669	647	658	713	716
406864	Clic1	1301	1238	1357	1187	1229	1280	1323	1266
299507	Asnsd1	1872	1668	1611	1611	1693	1683	1674	1732
498297	Cnst	2540	2350	2316	2207	2332	2404	2454	2251
81733	Nell1	1773	1578	1679	1631	1832	1806	1372	1671
361006	Cfap70	104	68	77	84	88	116	64	66
502525	Dnajc19	379.87	324.38	340.39	314.48	313.1	336.3	325.3	388.52
24919	Yy1	506	486	494	506	542	493	475	488
500941	Msantd4	1147	1104	1024	1015	1044	1016	1138	1105
498675	LOC498675	19	26	20	14.04	20.02	23.18	19.08	17
304469	Rilpl1	417	399	382	439	364	473	385	420
64159	Sptan1	28292	29880	29042	31300	30282	29692	31064	27840
117263	Psmc1	4415	4381	4114	4019	4152	4246	4385	4198
298012	Rad23b	5210	5109	4594	5182	5013	5005	5169	4970
81654	Dlat	1612	1682	1469	1679	1666	1551	1629	1616
81770	Rpl37	1937	1731.71	1799.1	1255.3	1666	1578	1595	1905.39
192209	Spdya	46.15	43.12	31.1	46.18	63.65	31.11	39.1	33.21

314751	Tmcc3	709	727	688	758	723	728	703	737
102554639	LOC102554639	132.12	102.61	86.05	82.6	80.34	115.3	98.08	110.97
24675	Ppp3cb	3345	3137	2732	3183	3121	3023	3236	3057
500226	Wdr54	1058.1	981.27	955.35	810.58	868.8	1031	1014	903.99
287537	Abr	3719	3985	3676	4070	4165	3913	3642	3780
296648	Mapkap1	831	892	808	836	819	854	873	832
100362819	LOC100362819	468	532	515	620	588	536	504	514
499818	Ppp1rlc	8547	7793.11	7773	7876.8	8204	7517	8165	8209.66
100360781	LOC100360781	0	11.63	11.49	46.13	22.97	46.51	0	0
25407	Cd59	13607	12644.3	12020	12823	12795	12637	13015	12819.86
315338	Hoxc10	315	304	275	290	303	337	267	281
83799	Dpp7	1357	1329	1354	1278	1236	1414	1323	1363
303293	Cyb5d2	257.32	243.32	217.71	230.06	240.8	237.5	237.9	235.47
691455	Calml4	383	399	354	322	426	304	376	357
25682	Ppard	660	594.95	596.23	566.9	632.3	642.6	576	575.46
79130	Dnajc5	4537.1	4512	4253	4449	4469	4448	4486	4409
24565	Abcc1	551.1	588.04	545.29	709.36	638.9	559.9	620	583.14
360481	Dnaj3	1388	1339	1196	1311	1329	1337	1362	1224
83465	Celsr2	2465	2754	2926	2903	2853	2876	2855	2502
171350	Pabpc1	4027	4138	4742	4180	4426	4447	4095	4178
24672	Ppp2ca	5641.4	5343.57	4962.6	4862.4	5141	5012	5403	5326.66
291963	Tmem208	462	353	331	290	335	325	360	421
103693257	LOC103693257	50.71	59.62	25.89	84.41	62.11	79.29	44.91	35.09
103692170	LOC103692170	71.5	71.5	77.5	66	71.5	78.5	69	68.5
297380	Ccdc142	71.5	71.5	77.5	66	71.5	78.5	69	68.5
360514	Ublcp1	2332	2117	2058	2059	2156	2026	2178	2236
365823	Fstl5	300	253	263	326	327	276	317	226
140945	Rtn3	33957	34368	30890	33400	32564	33130	35025	32361
103693419	LOC103693419	98.06	93.72	88.84	77.01	83.44	77.33	97.2	100.92
292892	Irf3	968	914	945	839	870	916	1001	892
57302	Cnr2	136.8	94.61	136.2	126.69	135.2	90.74	130.8	139.31
56768	Pclo	1039.2	1211.87	1170.4	1770.1	1536	924.6	1325	1424.73
303901	Sema5b	64	73	61	80	66	72	77	64
286905	Cyp4f5	55.32	54.01	74.98	104.86	68.96	67.56	73.39	80.31
304284	Bri3	627	659	639	553	578	643	622	644
362051	Lmo4	1417	1410	1478	1457	1513	1449	1410	1411
362412	Rad18	155	110	144	139	138	117	147	148
688786	Pet100	849.87	809.87	757	657	755	685	777	868
360916	Tmem150c	1875	2031	1993	1961	1975	1955	1985	1974
59073	Lxn	7192	5981	5292	5344	5578	5588	5666	7065
289740	Pes1	966	1038	994	952	990	974	1012	989
315345	Copz1	2215	2341	2401	2174	2265	2340	2263	2298
289443	Lrrc8c	1765	1746	1788	1956	1918	1940	1789	1636
100911832	Rtl5	613	619	551	609.01	585	631	597	588.2
140922	Txn11	3129	3058	2804	2922	2850	2820	3157	3132
361618	Stim1	1342	1371	1322	1387	1407	1444	1332	1260
140666	Rcan2	4833.5	4926.91	4449.9	4935.7	5050	4834	4572	4764.46
314456	Tecpr2	1095.1	1128.52	1087.8	1163.1	1115	1158	1136	1082.76
316313	Dst	20929	22853	23452	28065	26269	22975	23965	22466
317377	Ccdc120	62	60	55	74	74	66	50	62
361436	Afg3l1	430	479	463	376	452	447	439	417
293098	Tmem135	623	643	585	642	580	598	675	650
289276	Adss	2024	2041	1959	1933	1906	2037	2033	2013
305105	Fbxo28	523	477	448	537	528	488	481	496
303470	Kat7	1972	2118	2085	2256	2123	2121	1998	2223
688314	Cenpx	213	185	173	171	199	177	169	200

171081	Csf2rb	46	69	82	50	47	74	79	48
81774	Rps11	3244	3102	3222	2487	2906	3058	2903	3237
360867	Ccdc181	403	374	319	377	393	341	422	323
102551311	LOC102551311	44.79	44.36	35.07	49.79	50.55	43.63	42.69	37.85
296624	Dolpp1	626	646	615	554	639	584	620	608
499783	Garnl3	1685	1671	1617	1608	1693	1681	1558	1676
287476	Zzef1	1719	1946	1856	2033	2010	1930	1974	1671
25647	I17	67	75	50	51	58	72	61	53
102557071	LOC102557071	10.42	9.02	15.89	13.11	4.37	8.74	18.91	16.62
65183	Aldh3a2	2122	2412	2192	2204	2202	2307	2256	2202
65274	Nup62	534.15	551.81	594.65	550.59	549.9	585	585.9	519.71
25716	Syt1	4473	4380	4065	4388	4594	4086	4305	4393
155205	Slc36a1	1322	1316.98	1279	1531	1514	1331	1290	1337
89812	Pip4k2b	2608	2559	2646	2695	2739	2673	2691	2449
306817	Dek	599	583	664	541	595	603	635	564
498406	Mrps24	323	312	303	255	302	332	279	285
688681	Tgfbr31	63	61	76	37	52	73	55	58
287830	Nup85	252	221	256	217	230	226	241	253
303419	Cuedc1	403	428	390	426	401	434	391	428
171087	Mpc1	2822	2715	2427	2379	2448	2438	2661	2840
363024	Slc44a2	3643	4309	4593	3631	4182	4432	3734	3897
108350451	LOC108350451	3.12	3.11	2.09	1.04	2.12	2.16	1.04	4.08
304012	Trmt10c	359	350	371	323	310	341	379	379
619581	Nicn1	1706	1742	1520	1806	1762	1612	1780	1649
362845	Zfp870	158.73	150.43	157.65	156.8	171.8	148.6	151.2	154.72
315037	Atmin	1082.4	1104.84	1032.9	1168.9	1145	1135	1139	988.28
306647	Champ1	655.18	628.66	679.36	651.27	697.9	657.5	609.8	660.46
313482	Zygl1a	36.99	37.3	36.23	44.96	65.01	32.29	29.31	29.54
361635	Vps351	1047	1100	1137	1097	1027	1145	1096	1132
171400	Elov15	6160	6695	5735	6575	5951	6375	6724	6225
296612	Med27	495.97	550.7	513.05	505.41	501.7	527.1	548.3	497.21
289521	Ankrd17	2936.4	2980.28	3074.1	3642.8	3351	3147	3294	2897.55
299738	Vezt	2530	2516	2332	2356	2513	2372	2465	2427
304663	Lyl1	53	44	98	31	61	57	56	53
311855	RGD1305178	1293.1	1321.47	1299.6	1271.4	1332	1253	1313	1310.31
311847	Dolk	545	525	495	461	534	555	502	444
56814	Slc24a1	40.74	34.03	39.03	36.94	40.88	36.93	33	40.6
25249	Coq7	172	183	164	148	159	153	193	165
362600	Adprh12	280	272	317	238	249	279	274	310
25420	Cryab	3559	3755	3317	3052	2288	3844	3339	4274
108348065	LOC108348065	364	384	384	410	378	402.5	400.5	368
84581	Hdac6	364	384	384	410	378	402.5	400.5	368
307992	Atrn11	5134	4764	4577	5050	4960	4669	5103	4882
309678	Trappc10	1877	1776	1948	2018	1951	1957	1915	1831
65137	Ruvbl1	500	495.12	484	449	477	455	522	483
60379	Col5a3	7380	7976	9165	7802	7860	8458	8325	7829
362770	Ccdc88c	113	89	120	111	137	132	79	87
305889	Thtpa	1282	1275	1220	1157	1252	1249	1212	1244
308588	Car11	590	601	573	590	568	613	606	578
84389	Ccnh	331	303	327	313	312	284	317	367
300732	Pstpip1	106	130	122	64	111	85	116	112
85243	Pik3cb	685	712	710	766	744.6	736	761	645
65042	Sfxn3	2540	2639.01	2541	2598	2442	2701	2551	2673
691155	Ccdc6	1246	1405	1457	1535	1469	1577	1372	1252
301617	Pask	52	49	56	51	51	43	60	55
288455	Pomp	1311.8	1191.06	1244.1	979.36	1061	1138	1229	1321.66

499651	Etv31	0	0	1.03	1.04	0	1.04	0	1.04
499308	Flrt1	248.26	256.66	283.07	286.51	277.7	283.6	263.2	255.16
314598	Wiz	1176	1324	1311	1331	1287	1348	1249	1283
362260	Dhx35	321	303	284	326	314	307	305	314
64226	Mlst8	961.93	976.36	873.77	883.41	974	904	931.3	904.21
140595	Gpr83	59.63	57.93	57.3	57.99	60.99	50	55	68
64470	Ddb1	3741.9	3930.81	3996	4040.9	4014	4011	4078	3683.93
500287	Srgap3	1945.8	1989	1883	2643.9	2400	2038	2042	2023.38
25045	Dbi	5285.4	5519.05	4924.8	4310.1	4477	4794	5552	5314.45
116455	Atp6v0a2	476	503	517	527	519	488	493	533
297699	Strap	1842.9	1814.28	1763.5	1702.7	1709	1725	1863	1860.97
294520	Mical1	1429	1602	1664	1523	1533	1648	1544	1523.78
81744	Pde7a	257.34	235.67	243.98	232.81	273.1	207.2	256.8	237.59
114589	Cntn5	114	110	88	91	122	85	120	78
64307	Rpl24	2167.7	2105.19	2094.1	1642	1929	1894	2021	2205.15
690354	Lymr2	417	352	357	274	344	320	347	396
308755	Blm	201	211	221	164	205	189	216	191
299900	Utp23	111	108	100	78	79	93	115	112
361050	Rcbtb1	1090.6	1012.38	1072.8	1149	1160	1055	1099	1032.09
299346	Nudt14	336	319	334	200	273	265	346	311
367949	RGD1560171	49	49	50	50	60	56	52	31
501454	Oaz2	3160	3130	2824	2742	3074	2966	2875	3001
361251	Elmo1	3276.1	3549	3620	3722	3292	3676	3733	3537.89
300079	Rpl3	5922	5765	5455	4709	5120	5404	5719	5719
681012	Smg5	1887	1826	1780	1763	1836	1846	1828	1783
100361269	Snrpa1	198	211	194	179	194	175	214	203
29716	Cacna1d	476.77	414.48	403.53	465.66	505.8	423.2	455.9	384.6
361783	Zfp57	101.08	109.57	91.07	118.78	110	104.9	101.6	106.14
293148	C2cd3	287	328	354	393	383	317	329	340
313777	Noc21	782.78	794.05	838.93	859.28	833.4	852.9	827.4	778.22
363869	Ubl3	4231	4295	4011	4226	4377	4183	4231	4059
500655	Timm17a11	74.42	70.56	66.28	54.68	71.18	47.18	83.02	65.95
683381	Sin3b	619	690	737	616	671	662	632	711
362813	Nabp2	960	1015	969	1042	965	1008	1005	1029
307091	Akrle2	309	297	287	241	259	294	306	281
293160	RGD1311703	1671	1590	1468	1445	1510	1567	1646	1484
363799	Xxylt1	610	605	623	591	586	643	612	601
690188	Fam168b	3050.2	3104.26	3140.1	3561.8	3397	3107	3294	3127.34
84551	Slc7a8	729.13	802.25	690.53	948.85	791.7	770.2	779.9	846
688685	Pheta2	46	43	54	43	42	38	55	52
299131	Dhrs711	98.09	90.01	100.63	79.15	83.32	109.5	91.15	85.87
100911576	LOC100911576	2381	2135.42	2193.9	2307.7	2217	2067	2533	2250.07
691031	Cdc42se2	1152	1100.14	1161.7	977.94	1141	1022	1159	1093
100912936	Hoxd8	408	374	353	347	320	392	404	374
298653	Nmnat1	231	241.37	254.07	226.56	251.2	231.1	244.7	231.23
287383	B9d1	179.4	160.84	161.66	148.27	161.6	164.6	156.7	170.76
298705	Raver1	756	823	883	824	833	885	832	754
293502	Kif22	81	87	140	55	109	85	101	70
303321	Ccnq	209	197	147	172	199	190	193	147
361615	Relt	140	151	103	149	123	166	139	118
64472	Naa35	769	737	679	704	754	700	743	708
500864	Tmem74	581	502	485	596	528	478	592	578
171092	G3bp1	1861	1832.05	2008	1855.6	2017	1873	1895	1814
360741	Ess2	476	446	417	437	449	468	460	409
499669	Celf3	140.01	131.64	118.17	144.21	146	134	115	142
290408	Sugt1	1199.8	1091.66	1026.8	1000.9	994.7	1046	1125	1178.56

311622	Stk4	391.6	396.21	434.96	406.19	525.8	455	341.3	316.13
294515	Foxo3	468	497	532	611	612	498	508	502
114216	S100a3	128	134	138	126	106	111	125	187
311826	Rexo4	383.53	387.8	400.98	409.02	390.2	427.3	395.6	377.26
103694538	LOC103694538	127.27	94.11	91.35	103.27	101	88.19	112.5	116.64
312538	Mcm2	155	151	230	162	189	156	196	161
301343	Lman21	96	87	76	89	85	111	79	75
360672	Cep131	337	409	456	364	396	383	435	361
362012	Strip1	1116	1120	1185	1088	1160	1088	1141	1146
304181	Tssk2	2.19	0	1	2	1.09	2	1.13	1
315484	Bbs9	289	291	320	309	284	330	312	290
498192	RGD1560398	2000	1745	1631	1502	1665	1663	1736	1854
171439	Bzw2	252	280	277	220	230	276	287	242
309692	Pcnt	489	501	514	550	536	560	497	473
353256	Gtf2i	3848.5	3803.61	3815.5	4102.9	3914	3999	4128	3619.92
298399	Gba2	883.71	760.86	780.36	771.96	791.7	840.7	867	716.44
310612	Ilf2	1183	1125	1133	1107	1102	1101	1240	1132
295357	Lamtor5	577	514	483	433	483	453	512	571
192225	Spata7	266	249	246	242	221	242	296	250
103694491	LOC103694491	81	97	87	69	75	78	88	95
315673	Tnfaip813	38	39	45	43	32	34.99	53	46
314004	Cmpk2	681.24	567.23	505.99	548.44	588.4	598.2	578.8	551.39
685144	Sec24c	1581	1781	1810	1800	1720	1874	1710	1710
316640	Atg4b	1607	1592	1587	1516	1611	1569	1537	1623
362265	Ift52	822	832	769	721	764	773	780	846
290679	Ints10	571.38	533.17	529.21	521.52	551.7	538	555.9	522.78
313786	Fdx2	548	531	479	423	529	479	469	516
314904	Arhgef25	1286	1278	1355	1353	1324	1271	1418	1291
108351053	LOC108351053	215	257	254	256	272	232	257	227
305861	Ap5m1	224	237	239	282	266	192	257	273
305837	Ttc5	652	592	618	586	608	606	619	630
25433	Hbegf	411	472	514	397	327	540	512	426
362423	Rassf4	2145	2098	2006	1721	1782	2355	2130	1752
681389	Cops9	1249	1107	1133	902	1100	1056	1052	1210
680308	Mthfd2	276	264	209	220	228	231	276	240
362291	Myt1	624.9	663.7	536.53	687.71	700	578.7	657.3	592.52
299851	Mars	1475.5	1503.62	1383.5	1500.7	1451	1537	1488	1425.06
305710	Nek10	42	55	24	40	49	39	27	47
308998	Zfp629	245.33	270.46	237.56	267.42	270.6	244.9	262.8	248.89
289392	Plxna2	2878	2301.01	2717	3026	3187	2756	2804	2243
360659	Mif4gd	206	156	171	109	125	174	157	190
298317	Ube2a	993	977	987	890	890	945	1029	1007
679747	Tma7	1592.6	1310.97	1322.4	1256.1	1319	1258	1384	1555.74
362461	C2cd5	1116.6	1121.36	984.09	1114.9	1154	1040	1046	1124.58
360161	Nek6	1148	1114	1153	1061	1052	1162	1173	1117
315697	Imp3	466	430	371	330	382	397	410	418
287424	Aloxe3	9.47	4.51	7.54	16.67	13.55	11.51	2.99	10.38
363253	Zfand2b	531	554	516	465	565	513	505	496
361765	Btrc	1743	1801	1668	1939	1882	1755	1929	1630
287524	Rpal	1248	1164	1093	1094	1128	1107	1295	1098
114300	Gtpbp4	231.79	253.8	210.02	275.9	205.8	221.8	270.3	279.67
81735	Neol	1080	1134	1061	1155	1083	1136	1091	1148
681415	Erh	640	595	633	505	561	578	597	652
83632	Deaf1	902.65	940.26	921.07	779.51	909.2	891.4	901	864.32
361883	Mrps27	570	544	487	453	500	502	556	509
688939	Ccdc149	453	509	465	467	473	470	486	477

298147	Dmac1	245	253	241	202	243	227	232	245
100911757	Tshz2	5578.1	5654.7	5603.5	5627.1	6254	5535	5482	5335.69
297890	Bsdcl	1243.4	1166.58	1153.8	1183.9	1284	1238	1137	1119.8
290798	Dctn6	2007	1819	1713	1612	1715	1779	1792	1911
246299	Gtf3a	364.65	314.67	333.02	294.02	314.7	304.7	384.9	310.51
303226	Zfp18	201	200	181	193	193	189	196	202
288041	Pigx	475	411	459	356	454	374	424	460
500392	Mcmdc2	145.07	111.05	124.89	124.17	101.6	103.5	143.5	159.85
301458	Ndufs1	3573	3547	3042	3409	3324	3370	3621	3344
363031	Anln	33.43	56	87.05	40.55	44.87	61.02	62.55	50
289469	Mrps18c	414	348	319	301	351	311	316	413
300675	Ift46	714	685	693	666	659	648	715	754
289231	Ncstn	1605	1704	1708	1718	1643	1831	1632	1673
363058	Cadml	4104	3850.63	3665.3	4334.6	4427	3781	4004	3846.12
290842	Gins4	120	126	106	106	114	99	132	116
100912924	Tigd2	244	245	216	209	224	210	251	235
287470	Sdf2	1306	1211.19	1137.3	1057.6	1191	1083	1128	1341.42
252827	Cdk5rap1	350	354	325	336	341	347	369	317
84023	Ptger4	237.97	227.89	235.81	249.08	237.5	237.1	235.3	247.02
315644	Bco2	19.83	19.02	36.31	19.94	20.19	26.61	26.77	22.16
114499	Hdgf	1547	1419	1487	1418	1580	1356	1396	1578
304573	Pole	103	123	117	108	133	108	107	106
298452	Dph2	142	148	167	144	146	153	164	142
60465	Ctnn	2287	2236	2562	2365	2282	2473	2479	2279
292925	Tsg101	2072	2127	1954	1913	1953	1984	2043	2140
291999	Wwp2	519	531	517	522	571	512	517	503
102547146	LOC102547146	19.78	20.76	17.76	14.58	28.16	10.48	17.17	17.56
282844	Rffl	438.67	397.92	402.71	373.04	384.1	405.8	429.4	403.94
499652	Rit1	1075	1118	964	997	1100	961	1081	1040
310780	Gpr61	122	127	104	92	109	114	105	120
595134	Akirin1	2223	1999	1987	1936	2115	1946	2071	2068
60398	Fhit	116	115	108	105	95	109	122	121
294362	Cisd1	1193	1172	1031	1041	1052	1069	1170	1176
298071	Nans	1449	1352	1310	1347	1385	1388	1353	1369
304591	Dtx2	201	230	258	195	213	247	216	214
266604	Alox15b	16.32	11.16	7.37	15.16	9.16	20.14	9	12.05
298517	Mrps15	1007.9	944	896	860	943	922	968	900.13
24377	G6pd	2156	2256	2272	2114	2116	2268	2269	2205
84407	Cdh11	1843	1657	1956	2021	1926	1657	1847	2098
29744	Sema6c	882.04	1013.01	860.1	722.39	763	990	793	955.26
363115	Slc9a9	3992	4420	3327	3910	4070	3906	3499	4281
317381	Ccdc22	348.23	298.59	311.96	326.97	312	337.3	299.4	345.92
288029	Lsg1	306	314	325	364	330	328	325	335
497915	Drg2	1063	1005	898	954	970	1029	980	968
295251	Pygo2	808	761	853	768	812	809	757	834
287953	Trmt2a	304	292	285	276	286	281	289	309
24803	Vamp2	7887.4	7960.91	7914.1	8587.2	9298	7899	7654	7722.4
362344	Ndufb2	1013	897	802	745	807	834	895	945
313558	Foxo6	39	37	39	29	47	36	34	28
100310845	Uty	47.26	40.4	69.59	71.7	63.77	35.95	59.82	71
363222	Rnf149	751	737	683	563	632	708	727	686
684192	Rcor3	182.17	197.89	184.98	191.11	227.1	178.2	190.1	166.01
24609	Odc1	1392	1464	1451	1296	1376	1409	1424	1433
192210	Dnajc21	455	403	428	435	414	435	428	456
690441	Atp5mf	3919	3620	3317	2996	3622	3246	3247	3833.85
297109	Mturn	6452.2	6092.56	6008	6174.4	6531	5641	6269	6459.12

317628	Apex2	73	73	77	61	59	78	72	77
290214	Cmtm5	1108	1163	1112	998	949	1132	1163	1168
287659	Socs7	966	1007	944	1039	1044	944	1038	958
25102	Chrna5	218.89	185.51	178.04	252.17	216.1	184.9	220.4	219.22
691835	Kctd4	77	68	62	74	74	76	72	61
309638	Taf11	371.91	346.35	303.06	289.63	330	320.5	327.8	341.98
688746	Hdhd3	68	78	63	71	77	62	86	57
102550189	Samd1	307	281	337	333	289	350	304	324
685425	Odf21	181.81	148.16	151.55	187.82	185.1	134.6	197.7	156.72
293044	Zfp710	605.87	560.9	612.49	672.44	650.1	609.9	631.5	577.94
102554620	LOC102554620	4.47	0	3.41	0.4	2	1.42	1.81	3.11
25538	Rps5	2299	2228	2256	1613	2058	2002	2171	2226
316228	Cul9	872	941	887	991	1017	941	881	879
313167	Nol6	966.59	1183.43	1167.1	1215.5	1136	1228	1112	1089.38
301113	Slc25a23	847	747	647	764	754	780	742	751
116685	Lmb1	53	57	93	64	76.98	76	67	49
363156	Fbx12	1344.3	1325.55	1152.9	1207	1300	1227	1192	1348.04
502894	Tigar	886	898	761	811	843	846	876	816
360592	Trim37	4925	4553.96	4129.8	4730.8	4725	4563	4703	4484.9
287768	Smndc1	524	499	513	475	464	484	563	515
100909688	LOC100909688	71.96	92.99	75.51	94.99	78	92.81	85.1	82.05
103690850	CXHXorf65	2	1	1	0	0	2.01	1	1.02
309153	Rce1	234	191	206	167	199	201	191	213
362281	Rae1	574	580	618	486	555	631	541	548
300328	Aasdhppt	698.03	690	621	636.05	666	565	696	738
498143	RGD1565131	174.59	283.79	152.18	215.32	217.7	214.7	274.2	125.53
81778	S100a10	10774	9313	10405	8730	9170	9045	10024	11279
365396	Ssh3	472	441	489	452	475	527	450	416
312503	Smyd5	500	526	483	472	503	517	504	472
59103	Ptges	34	30	25	43	36	30	23	44
360613	Cwc25	350.66	357.14	356.72	400.24	351.6	375	399.9	349.28
363027	Yipf2	515.67	487.14	522.89	417.61	434.3	502	490.4	531.41
108348122	LOC108348122	8251.8	8863.89	8323.8	7679	9165	9120	7214	7873.18
291180	Epdr1	5034	5426	4996	4823	4974	5147	5126	5188
360855	Smg7	1140	1204.85	1186.8	1288.9	1212	1177	1274	1194.91
498475	Ptgdr	105.56	109.45	74.22	122.43	110.1	94.21	115.6	94.94
311405	Tmem127	2665.1	2767.99	2635.4	2811.1	2652	2823	2739	2749
363193	Ppp2r5d	1379.2	1321.97	1334	1307.3	1239	1343	1382	1419.52
28298	Rpl32	3350	3058	3213	2421	3068	2949	2981	3137
291100	Irf4	145.27	113.9	125.17	131.51	167.4	148.6	115	88.85
499288	Mob2	632	574	491	500	514	573	570	557
314647	Celf5	337.42	289.19	303.38	326.23	353.4	325.1	291.5	295.98
360664	Ten1	208	209	183	173	181	209	215	174
102555189	LOC102555189	4.58	1.14	5.52	5.47	6.7	4.5	4.55	1.09
81922	Sh3gl1	816	698	824	737	778	804	746	771
29454	Gdf11	645	577	646	693	641	584	655	701
363118	Nmnat3	41	24	33	30	35	27	45	22
368044	Atp6v1g2	4242	4171	3872.8	4270	4207	4133	4324	4020.87
307124	Camk1d	503	579	571	642.98	648	589	579	498
362897	Uqcrb	1744	1555	1564	1380	1433	1461	1644	1754
58945	Dynl11	5962.9	5651.8	5821.9	5206.9	5469	5552	5414	6386.87
686179	Ttc39c	816	781	732	724	736	736	856	749
80849	Inpp4a	2302	2263	2131	2311	2415	2223	2290	2150
29543	Timp2	9507	8813	9295	9309	9628	9223	9426	8939
114637	Hmgn2	1347.1	1296.09	1324.2	1110	1326	1314	1277	1201
309656	Cmtr1	1464	1597	1388	1609	1589	1651	1480	1386

116743	Sh3gl2	1669.4	1624.73	1593.8	1637.2	1749	1758	1524	1546.87
294088	Pank1	411.84	437.76	357.74	500.25	434.3	415.1	444.5	427.49
286990	Tox4	1303	1338	1342	1462	1353	1400	1381	1355
304802	Optc	19.87	19.03	30.98	22.86	29.81	25.78	15.21	22.69
24520	Kcna1	2056	2035	1762	2536	2421	2007	2120	1909
24887	Bax	401.94	379	399	304	339	384	378	395
501841	Coro1c	1661	1714	1826	1684	1769	1739	1747	1686
360768	Ccz1b	690	652	630	606	644	663	659	633
300757	Hexa	1510	1690	1728	1577	1584	1677	1712	1585
680172	Mbd2	1824	1677	1760	1717	1747	1885	1768	1635
361089	Ndfip2	3822	3729	3407	3487	3543	3571	3698	3751
78959	Akrla1	8335	8240	7770	6949	7638	7637	7910	8365
287836	Fbf1	425	416	445	418	431	443	429	415
25522	Prkcz	1897	1923	1795	1803	1868	1890	1842	1879
294431	Calhm5	146	111	116	113	110	124	141	115
360570	Myo18a	2836	2950	2810	3529	3210	3268	3106	2641
245924	Scaf4	543.55	532.51	575.43	639.34	616.5	577	542.8	573.57
298549	Mtfr11	1501	1449	1271	1311	1440	1417	1366	1355
24533	Ldha	7549	7714	7459	6175	6807	7687	7465	7180
81771	Rps6ka1	403	451	516	421	469	468	401	468
314634	Plekhj1	276.66	279.7	265.74	237.83	255.1	270.5	246	297.23
301119	Mllt1	544	541	607	571	531	604	599	548
501162	Mreg	190	183	176	165	178	188	189	165
287598	Ska2	170	157	148	119	157	127	147	168
305230	Shroom3	223.79	256.13	350.29	288.03	274.2	340.1	297.4	215.92
690214	Pdf	208	168	189	147	158	193	184	183
60328	Mark2	1012	1062	1135	1171	1160	1172	1028	1057
29286	Rps17	1953	1868.25	1979.2	1451.2	1763	1675	1788	2087.33
686323	Trip6	165	182	204	158	168	179	172	196
81664	Gnai2	8787	9139	9617	8603	8854	9149	9115	9334
66026	Trpv4	36	22	31	29	28	45	21	25
688621	Tslp	28	24	29	37	25	16	44	34
308335	U2af2	1561	1630	1678	1591	1550	1687	1713	1565
65271	Mgat5	267.53	280.15	266.68	357.56	317.8	277.5	302	284.6
362045	Lamtor3	539	544	506	517	511	535	571	507
295252	Ube2q1	1731	1647	1627	1652	1676	1652	1745	1641
311651	Slc9a8	649	625	608	686	701	686	612	591
360406	Ptprf	4678	4725.99	5054	5266	5055	5140	4895	4803
54260	Itpkb	2100.3	2392.66	2148.1	2380.4	2112	2431	2139	2416.4
499731	Tyw3	94	89	86	79	86	68	90	107
295952	RGD1309730	431	408	323	346	364	365	368	424
114590	Ubqln1	5439	5976	5579	5866	5644	5862	5989	5563
313588	Snip1	226.9	253	235.79	219.9	240.9	272	210.9	219.9
291129	Nrsn1	1694	1557	1304	1320	1571	1425	1453	1477
362360	Osbpl3	2803	2733	3150	3045	3004	2922	3112	2795
363644	Glod4	1474	1378	1512	1153	1319	1314	1376	1556
315548	Srpra	3242	3251	3066	3312	3217	3341	3298	3127
311404	Ap4e1	218	219	219	262	236	195	241	254
79245	Hsf1	699	642	673	736	683	756	706	629
296346	Oser1	451	417	444	401	383	430	432	483
100125367	LOC100125367	139.3	138.83	131.95	113.79	130.7	118.9	148.8	130.1
360906	Fam69a	572.99	503.97	519.99	558.99	565	516.9	575	517.97
689088	Ldlrad1	40.33	60.73	55.91	34.94	42.81	53.42	48.23	49.14
360968	Tbc1d10a	320	319	383	340	371	283	349	371
290641	Rpl18a	6008	5462	5592	4386	5512	4929	5246	5950
287734	Atxn713	2963.1	3010.08	2954.5	2945.8	3082	3069	2901	2927.44

314397	Rin3	339	306	376	337	428	362	301	279
116596	Map3k8	20	22	34	37	22	26	30	36
103694878	LOC103694878	18.69	27.93	18.14	23.33	22.51	18.37	29.77	18.22
293144	Pold3	116	104	116	115	121	104	121	109
366624	Cf12	3404	3449	2986	3213	3130	3199	3473	3366
314999	Trmt12	115	119	123	93	108	108	128	110
58971	Fxyd1	2203	2004	1918	1749	1688	2244	1787	2225
304342	Zscan21	318	311	336	271	310	277	319	341
24552	Me1	3487	3254	3117	3395	3255	3382	3414	3320
25738	Plcg1	1790	1749	1799	1841	1896	1812	1794	1741
266686	Dhrs4	211	193	199	181	184	214	208	185
498107	RGD1562339	1949	1840	2053	1884	2122	1876	1922	1875
363000	Prpf40b	741	757	763	746	771	767	754	742
301065	Ttc21a	55	60	48	59	56	73	48	47
315617	Sidt2	1778	1841	1921	1889	1902	1977	1877	1740
287703	Eif1	6320	6243	5913	5564	5465	5945	6037	6810
367090	Neill	90.07	91	88.01	84.05	100.3	89	80	87.04
310034	Rad17	309	324	292	290	300	278	311	337
313264	Trim32	740	747	657	727	722	767	702	706
295235	Ssr2	1097	1044	1102	946	938	1090	1063	1136
309773	Dcbld1	229	253	280	222	265	255	244	229
306417	Sh3rf1	225	223	268	267	263	247	262	220
291802	Zfp136	105	72	80	79.06	88	69	99.14	83
100910872	Naa80	573.76	458.03	510.46	472.6	531.2	499.3	439.5	563.32
309136	Ltol	565	565	549	501	558	559	558	525
100912578	LOC100912578	807.43	775.72	755.35	772.2	634.3	720.2	891.3	893.53
353304	Pigu	548	480	453	475	483	476	495	520
311903	Mrrf	1087	1101	1031	1121	1070	1073	1147	1090
365813	Trim59	132	116	119	67	123	107	96	112
64372	Timm8b	1153	1180	1174	941	1065	971	1088	1365
65136	Rps8	3866	3798.41	3786	3024.5	3597	3466	3720	3826
25366	Acvr2b	326.5	283.95	290.78	293.56	305.5	331	288.1	281.26
58920	Gpcl	3061.6	2935.46	3645.7	2986.5	3239	3435	3094	2978.05
291571	Tcof1	530	545	588	596	554	626	546	554
307500	Psd2	11.28	11.81	8.03	10.78	10.05	10	9.23	13.01
303214	Trim16	344	354	307	499	329	429	439	321
29456	Map1b	109498	118480	110721	147585	1E+05	1E+05	1E+05	111864
303669	Nat9	392	409	435	372	358	421	452	392
79032	Mrs2	297	264	248	261	252	266	278	284
294718	Dimt1	277	265	259	256.12	280	258	272	257
498266	Blzfl	352	301	321	308	299	321	334	340
252923	Tsga10	116	108	96	107	116	77	121	117
287478	Ctns	919	1045	867	797	842	1114	925	781
298541	Dhdds	1447	1500	1384	1420	1471	1459	1471	1404
171458	Ipmk	444.33	478.01	440.81	441.3	463.3	475.9	444.5	437.67
498869	RGD1560341	587.76	551.83	549.95	562.14	609.5	583.3	543.8	536.31
100911734	LOC100911734	640.97	668.04	673.42	763.54	696.8	696.6	730.9	647.63
60376	Plrg1	664	641	642	600	583	646	660	682
296655	Stom	411.71	415	451.98	382.38	448	405.5	434.3	388.96
100363531	LOC100363531	0	0	2.12	0	0	0	1.07	1.07
360494	Tsr3	261	257	234	201	214	256	254	238
312787	Gpr19	118	98	106	100	103	107	107	109
83501	Cdh2	3128.5	3004.53	2980.6	3276.5	3245	3180	3191	2891.16
25737	Pcna	534	498	544	421	461	504	518	533
171440	Abtb2	966	981.66	898	1013.5	1008	998.8	890.7	998
363059	Zw10	266	251	278	250	275	253	270	257

113886	Kif1c	1316	1265.5	1620	1398	1257	1595	1449	1352.01
306722	Dapk1	1236	1176	1210	1264	1268	1174	1246	1245
100303643	Fcgbp	100.2	113.89	115.06	98.92	85.81	116.9	119	110.48
313725	Gpr157	168.78	193.33	125.99	163.33	123	216.6	185.2	133
313478	Cc2d1b	1597	1867	1667	1591	1602	1756	1742	1687
29236	Rpsa	6942	6465	7030	5222	6401	6130	6514	6863
300980	Dusp7	469.86	483.91	528.68	462.79	500	463.1	486.2	514.8
294331	Ube2g2	515	483	497	461	558	504	453	460
291388	Cbln2	1113	950	1088	1068	1017	1044	1146	1053
102554977	LOC102554977	0	0	0	1.02	0	0	1.03	0
362575	Med8	164	156	158	134	125	142	184	167
363241	Eef1b2	1888	1818	1771	1549	1697	1672	1792	1934
307302	Cep120	1032	1009	931	999	985	949	1114	962
362335	Nup205	413	395	408	411	423	423	435	362
367153	Cep70	134	122	107	145	132	134	127	120
29380	Phlda1	372	361	416	372	367	396	391	382
259270	Zfp335	916.02	890.29	894.51	904.05	904.8	984.4	913.9	837.36
25405	Ccng1	4474	4241	4379.7	4022.9	4343	4243	4313	4388.07
287419	Rangrf	126	96	93	88	82	108	100	117
308757	Man2a2	1540.7	1677.89	1675	1793	1690	1755	1665	1643
362832	Izumo4	90.04	64.18	68.27	57.15	68.1	73.07	63.11	78.14
501103	Slc35b2	543	536	619	511	545	617	539	530
292747	Fbl	360	380	409	355	369	367	401	382
100910318	Trappc2b	468	458	419	360	429	407	458	428
108351723	LOC108351723	51.37	35.55	45.16	45.99	30.5	49	52.56	47.79
252939	Gpr3711	2194.7	2453.52	2275.5	2524.7	2101	2465	2375	2601.54
307997	Hspa12a	13565	13774	13425	15207	14242	14639	14510	13139.99
678759	Ndufa10	3814	3404.47	3202.5	2921.2	3429	3448	3141	3458.43
500843	RGD1565498	397	387	422	382.06	404	395	391	414
85263	Slc25a14	329	335	315	313	321	311	347	326
288692	Wsb2	4923	4762	4661	4705	4859	4901	4733	4750
24240	Cad	535	626	580	639	596	631	591	586
100361133	Mycbp	491	498.09	462.53	480.02	460.9	448.8	515.7	525.8
361778	Sfxn4	359	318	294	315	329	291	342	337
361789	Atat1	502	502	555	515	472	526	564	533
362855	Rtcb	1550	1528	1479	1458	1520	1512	1530	1514
363009	Uhrflbp11	2570.4	2719.72	2659.9	2784.6	2842	2597	2836	2568.54
59074	Stx8	453.92	431.49	417.53	387.22	451.4	392.7	423.1	440.12
306589	Klhdc8b	643.15	524.34	512.88	574.47	574.8	597.8	523.8	581.35
687127	Zfp526	231.88	184.57	244.21	221.91	222.4	251.2	212.3	205.56
84556	Rims1	1221	1159	1255	1442	1349	1210	1305	1265
290850	Mrps31	396	389	324	356	382	336	389	373
25573	Ube2i	2312	2327	2228	2197	2264	2249	2286	2358
298982	Maea	2162	2177	2207	2127	2140	2242	2237	2143
140941	Siah1	539	564	513	523	529	538	558	536
297961	Ube2j1	3463	3517	3240	3488	3535	3454	3538	3322
361666	Bccip	292.19	317.31	279.79	239.38	305.7	241	290.6	302.99
362185	Mpped2	634.06	693	594	690	691	664	613	670
304813	Ppp1r12b	1696.5	1612.72	1638.1	1904.4	1823	1806	1674	1619.78
311545	Hml3	1694	1642	1680	1568	1629	1679	1733	1611
361293	Riok3	1673	1718	1707	1577	1625	1656	1796	1667
361798	Ehmt2	1409.7	1357.67	1484.4	1510.6	1512	1494	1475	1341.46
83709	Git1	3460	3781	3819	3603	3574	3931	3585	3725
25745	Myh9l1	3893.7	4053.96	4337.9	3993.8	4220	4717	3951	3560.56
303073	Cyfip2	6178	6973	6491	7513	7348	6871	6702	6516
100360914	Fbxw7	1583.7	1433.02	1372.4	1450.7	1580	1427	1483	1410.15

305887	Ngdn	457	443	424	400	469	421	421	431
680835	LOC680835	1501.1	1487.48	1633.6	1855.9	1833	1533	1692	1487.48
361649	Atxn21	2830	2564	2878	3103	2847	3082	2879	2686
309256	Fan1	169	167	152	181	187	159	167	163
361795	Ltb	12.52	38	16.04	29	25	9.52	11.04	51
290864	Usp4	1511.3	1551.31	1536.6	1622.7	1582	1538	1659	1507.57
363056	Rnf214	1520	1424	1467	1607	1640	1525	1465	1451
287442	Tmem256	260	246	243	206	227	226	229	283
296562	Npdcl	5011	4883	5138	3964	4769	4944	4798	4684
498140	Cdk8	582	542	545	526	538	536	632	512
497941	Gps2	494.78	461.17	464.59	427.62	454.3	451	473.6	488.77
192275	Dad1	2029	1682	1701	1535	1623	1719	1691	1987
313253	Zfp618	220	213.02	223	231	250	221.2	220	205.2
83516	Ppargcla	513.14	497.18	404.77	574.51	563.5	477.9	532.9	436.16
84383	Timm8a1	480	466	391	369	417	414	432	461
308067	Brd9	1043.6	975.68	904.88	916.28	1018	963.2	916.2	983.34
60421	Prmt1	1142	1117	1074	905	1011	1028	1105	1138.79
685332	Rpp30	557	505	437	487	472	546	492	497
290803	Tex15	85	93	93	107	120	94	89	79
311350	Tmem62	614	686	609	642	596	634	703	645
305258	Utp3	616	579	558	512	625	532	576	556
300974	Mrpl3	593	569	501	502	514	545	556	573
500324	Cracr2a	25	20	24	25	26	26	21	22
192277	Stipl	5024	4947	4609	5011	4925	4982	4960	4933
303456	Utp18	327	358	323	303	353	285	340	347
499768	Tbcd13	1340	1380	1372	1325	1419	1376	1349	1331
299207	Erg28	569.98	583.05	467.91	438.16	497.1	505	578	501.11
311151	Dusp19	97	95	97	83	107	87	97	85
24224	Bcl2	74.93	113.53	70.24	119.54	110	89.4	86.63	96.32
287429	Naa38	1362.6	1251.81	1214.8	978.43	1238	1106	1130	1385.79
291609	Ndfip1	11197	10682	10038	9634	10773	9946	10627	10654
124323	Rps23	2344	2225	2452	1737	2217	2115	2143	2378
361833	Ank3	4345	4877	5166	5793	5402	4992	4930	5076
311844	Kyat1	354	287	284	271	298	326	284	301
24171	Add2	6906	7362	7138	8175	8220	7203	7300	7180
29717	Cacnalg	72	52.08	66.76	69.03	56.08	71.03	76.45	59.14
315645	Pih1d2	465	469.65	453	413	454	461.2	475	430.03
103689921	NEWGENE_1306267	23.08	89.62	29.61	119.86	86.63	0	69.66	108.74
314401	Unc79	443.72	469.68	421.38	510.75	515.1	438.7	478.2	433.57
293671	Sf3b2	2218	2361	2488	2450	2476	2435	2485	2225
81755	Rab3b	155	108	156	129	140	135	141	138
303407	Gdpd1	566	519	499	516	540	501	565	517
64514	Eif2b1	556	550	519	475	509	557	544	513
367767	Mageh1	372	360	325	312	336	331	374	343
362002	Rnf115	1356	1353	1263	1310	1277	1317	1444	1302
89806	Tiel	458	441	434	306	458	482	367	350
25547	St8sia3	671	641	650	768	779	574	756	651
361309	Paip2	3348	3173	2925	2831	3005	2966	3292	3149
316023	Dclk3	169	221	172	165	118	183	228	206
313743	Klhl21	705	695	673	653	664	755	642	695
292554	Aurkc	104	95	90	74	67	100	119	81
315160	Desi1	909	944	850	927	845	885	982	958
362688	Gemin6	186.02	183.01	199.3	189.67	201.6	168.5	232	164.34
288482	Usp42	315	358.25	347.61	329.15	351.1	340.2	338.9	334.81
364070	Iars2	1909	1689.11	1703	1871	1799	1773	1872	1807.44
306768	Nop16	611	662.61	613	591	621	609	591	684

288065	Ccdc58	111	122	138	81	129	95	114	119
100361633	Cd300ld	3.33	1.99	7.99	2.04	4	3.23	3.26	5.03
365024	Chmpla	1826	1840	1721	1731	1867	1725	1780	1825
24334	Eno2	10438	12318.5	8860.7	11369	10625	12032	10571	10235.91
301123	Ndufa11	1710	1607	1478	1311	1472	1496	1548	1658
94268	Efna1	372	386	342	336	366	357	317	412
364656	Mrpl36	274	288.93	258.35	261.35	261.4	250.3	285.3	297.78
108349732	LOC108349732	18.08	23.9	20.48	32.54	24.39	20.89	20.92	29.86
316051	Azi2	1023	970	997	952	1038	974	1011	963
293666	mrpl11	390	391	368	373	390	382	381	386
362818	Pmel	87	97	79	95	90	91	92	89
292244	Mrpl18	463	430	440	361	377	433	427	476
361655	Tial1	630	592.99	586.99	594	562	602	674	593
688966	Borcs8	292	283	195	207	248	258	218	264
367085	Arhgap20	247.49	212.98	223.7	238.48	220.3	226.2	245.6	241.03
25686	Gnail	1602	1745	1422	1623	1571	1541	1686	1666
685045	Abrac1	338	308	349	336	327	308	347	364
308518	Nudt19	398.15	358.17	380.75	319.87	385.5	304.2	385.4	398.27
361677	Tollip	2271	2351	2218	2168	2269	2323	2285	2233
117026	Apbb3	1375	1260	1253	1227	1286	1327	1262	1298
116675	Pgap2	331.02	322.1	359.04	304.09	338.3	342.1	303.8	347.04
140592	Ppfia4	865	785	802	807	878	827	778	813
298141	Frmd3	809.15	864.98	598.96	849.98	809.9	760.8	856.9	730.95
310848	Cyp2u1	413	412	439	406	415	417	448	409
309399	Abhd17b	932	874	919	877	925	901	874	943
361809	Zfp523	595.68	564.16	541.01	524.98	615.1	558.6	517.5	560.04
246773	Lrrc3	282	308	272	279	300	296	275	283
365842	Clk2	436	435	458	426	434	465	458	418
373065	Ddx24	1750.7	1802.15	1678.5	1871.2	1841	1867	1857	1618.89
307798	Acd	396	342	408	339	364	391	392	355
303244	Mpdu1	1106.3	1111.99	1023.1	987.39	1108	1092	1041	1036.69
361273	Sec61a2	1514	1486	1511	1407	1491	1559	1482	1454
54238	Cdkn2c	117	94	144	80	121	91	107	121
116687	Dnase113	12.71	10	23.3	0	19.07	9	8.47	10
498599	Slc35e1	759	732	704	669	749	686	758	704
24666	Ppmla	2090	2091	1836	2130	2159	1902	2212	1968
100911440	LOC100911440	780.45	889.66	768.35	811.71	777.6	874.8	822.7	812.72
316231	Abcc10	174	179	188	162.87	207	175	186	144
24784	Slc9a3	308.21	306.45	312.56	282.44	300.5	369.5	286	267.62
360645	Taco1	88	116	116	111	129	95	95	117
309140	Mrpl21	234	232	203	191	199	232	213	226
362614	Gpn2	177	148	193	170	150	158	179	209
313520	Mmachc	231	262	248	286	246	265	270	258
29675	Psmb2	1465	1451	1371	1273	1332	1333	1500	1460
360302	Ptprk	412.64	441.07	419.8	495.09	426.9	435.7	465.6	461.17
360623	Krt28	216.39	197.31	188.87	178.37	194	196.7	202.4	196.96
303188	Rail	815.02	878.61	897.91	984.89	972	910.9	879.3	856.23
311486	Dzank1	682.82	749.62	582.59	830.27	824.7	573.4	744.2	736.32
682390	Eif3i	884	847	801	707	774	784	878	841
361732	Tmem109	545	556	586	525	530	614	534	560
114209	Phyh	1150.6	1068.21	1121.4	1182.5	1093	1120	1176	1186.49
366618	Ap4s1	214	184	186	181	185	172	205	212
680987	Ciao2b	672	638	575	579	612	631	588	662
25587	Id2	386	401	353	304	384	367	375	335
362214	Nop56	1670	1513	1461	1384	1464	1529	1601	1505
680451	Nrbp2	7065	7376	6978	6422	6461	7706	7237	6765

307816	Tango6	223	235	218	257	222	255	237	230
29737	Kcnab1	2528.5	2486.73	2421.3	2507.7	2554	2472	2676	2360.45
296637	Prrc2b	4262.5	4457.02	4537.5	5061.5	4718	4806	4523	4486.81
288585	Ift22	327	373	353	301	329	304	331	406
294560	Mcu	1037	1164	1051	1058	1114	1110	1043	1094
140933	Trpc5	75	67	83.95	110	87.99	74	90.93	87.01
25455	Ggh	258.59	253	268	222	224	246.8	264.6	278
295053	Spart	1030	1119	1056	1094	1036	1091	1156	1067
304670	Tnpo2	3159	3275	3234	3521	3519	3184	3429	3214
502225	Lrrc14b	68	56	63	65	47	87	63	58
300069	Eif3l	1582	1731	1597	1474	1633	1695	1662	1470
682902	Taf12	487	486	481	476	513	463	504	473
296300	Zfp341	203	207	205	224	211	239	207	192
310856	Ppa2	610	683	569	487	532	572	627	646
113960	Cdc42bpb	2200	2530	2492	2675	2577	2551	2448	2439
306352	Armc6	224.36	194.96	193.35	217.68	218.9	201.4	224.2	195.79
245983	I111ral	685	548	605	589	645	611	563	637
291580	RGD1312005	1056	1049.54	953.61	944.75	1047	1024	988.1	993.07
291317	Rpp38	119	106	93	100	115	105	100	103
116686	Gsr	1251	1216	1202	1175	1190	1240	1250	1222
79558	Acvr1	408	435	490	502	442	472	461	482
313845	Sos1	1528	1590	1626	1905	1782	1654	1663	1630
303275	Dhrs13	202	176	201	169	188	216	157	196
287961	Cdc45	24	18	26	15	16	19	24	25
311743	Map3k20	264	230	295	290	273	248	318	253
295586	Clcn6	2854.7	3061	2941	3254.8	3065	3162	2979	3051.19
293615	Sirt3	366	356	372	316	329	373	342	383
362437	Iffo1	1802.7	1693.97	1696.3	1535.5	1764	1797	1577	1672.61
361378	Man2b1	801	825	939	826	847	922	840	823
296565	Paxx	691	720	699	614	702	669	638	748
683713	Gal3st1	288	297	284	286	267	263	288	351
290963	Npepo	768	782	746	754	726	851	784	726
288321	Rbm11	1423	1430	1257	1243	1467	1315	1369	1267
311215	Ext2	693	822	884	895	766	949	863	756
291874	Nup93	647.95	619.98	633.86	664.97	657	666	636.1	638.93
361387	Zfp330	583	554	520	483	512	545	541	568
24673	Ppp2cb	3453	3317	3221	3053	3206	3363	3385	3249
297428	Copg1	5983	6248	6180	6522	6165	6538	6363	6171
100912608	LOC100912608	292.82	314.02	274.71	307.63	298.7	313.2	314.6	277.24
361606	Aamdc	40	29	45	50	43	41	44	38
102548917	LOC102548917	127	117	126	121	123	121	112	141
64526	Ech1	2040	1965	1799	1621	1780	1816	1922	1998
85425	Tdrd7	1217	1280	1301	1338	1325	1302	1337	1235
81521	Msn	2667	2716	2968	2893	2929	2655	3006	2792
494346	Preli3b	781	803	714	714	713	758	792	786
81761	Rnpep	475	492	546	521	521	530	488	520
64353	Pdlim5	901.37	880.54	1034.7	983.04	971.8	1003	949.8	921.74
312607	Pdzrn3	412.31	435.97	499.53	484.9	431.9	452.6	487.1	483.66
84575	Fads1	4825	4934	4638	5083	4672	5188	4927	4933
291671	Hspa9	4348.6	4526.28	4189.7	4659.8	4091	4074	5104	4674.47
363781	Plcx2	2706.4	2653.53	2646.6	2861.6	2764	2634	2821	2783.55
59102	Rpa2	183	150	167	146	189	152	137	176
290596	Ghitm	5223.2	5101.65	4180.7	4703.6	4736	4708	5027	4976.28
299905	Med30	286	302	271.93	250.83	263.7	258.8	311	291
680752	Ccdc74a	194.53	206.49	196.62	229.96	197.4	209.3	222.9	208.35
307742	Snx20	35	48	39	38	41	33	41	47

681352	Letmd1	1046	1040	996	992	1063	1031	1006	1025
316335	Tmem131	1259	1352	1424	1544	1430	1448	1451	1320
300235	Dazap2	2950	3226	3173	2986	3035	3159	3166	3130
25579	Map3k12	1207.1	1143.11	1110.2	1126.3	1208	1192	1113	1131.65
361532	Sirt2	2891	2873	2717	2716	2569	3063	2827	2879
100360977	LOC100360977	40.63	230.32	119.24	177.19	132.5	173.7	193.5	74.83
116665	Rere	1862	1779	1920	2132	2122	2015	1890	1763
366138	Ldlrad3	171.62	190.38	220.11	191.42	161.3	199.8	152.5	269.76
301124	LOC301124	1759.1	1626.89	1637.5	1419.7	1529	1539	1638	1818.6
361640	Polr3e	373	432	408	371	375	372	476	381
64152	Chp1	7931	7936	7580	7644	8014	7831	7719	7922
289278	Cox20	254.64	299.26	283.51	205.66	224.2	276.4	272	283.75
116697	Pabpn1	1493	1276	1413	1240	1482	1381	1348	1280
60664	Pik3r3	605.3	645.52	631.97	657.84	678.9	591.2	676.3	626.57
24468	Hspa8	45131	45731	41136	43864	43507	44320	46555	43724.25
117049	Rab28	821	828	802	755	717	765	884	881
29384	H2afy	987	926	981	929	986	1004	965	917
300455	Bmper	103	65	86	58	86	60	99	71
100910342	Bbip1	147	145	119	135	138	120	120	175
300052	Vps28	1427	1400	1303	1154	1319	1267	1365	1401
84595	Nucb1	4906	5489	5530	5313	5170	5660	5313	5369
24686	Prnp	13640	13463	12695	12359	12574	12813	13658	13786
103690203	Znf48	267	234	251	253	281	241	236	260
293489	Slx1b	572	529	545	440	482	601	513	517
296349	Ttpal	1010.5	930.25	914.24	925.07	1039	955.9	915.3	918.7
25743	Kcnj6	440.19	390.79	338.9	455.11	441.1	406.4	380.7	417.88
25019	Xrcc6	502	520	500	485	463	499	572	499
54263	Kcnn3	403.35	396.42	419.17	579.54	574.4	368.8	442.3	436.38
304567	Pus1	243	252	228	201	244	233	224	235
312647	Atg7	276	278	273	251	271	256	289	276
691075	Mrpl10	836.01	872	741.98	818.6	836	849.3	815.7	810
100364162	Rnf1111	944.53	992.19	922.75	962.38	946.9	944.8	989.1	990.78
687711	Snrpd3	691	596	638	530	596	573	635	683
287173	Bod1	288	289	250	247	248	268	265	307
360882	Cadm3	13726	13898	13319	13745	13446	14533	14362	13061
171445	Akr7a2	528	492	495	474	537	504	460	514
100911417	LOC100911417	2945	2921	2718	2497.9	2778	2781	2809	2858.9
309029	RGD1305014	272	270	224	228	267	274	222	244
24424	Gstm2	955.58	896.88	823.7	965.59	892.6	809	866.2	1121.71
361242	Dusp22	716	713	641	676	742	714	669	657
94170	Atp6v0e1	812	757	778	624	704	721	746	839
287822	Hid1	2436	2539	2508	2420	2455	2454	2441	2683
360495	Lmf1	346	359	360	378	339	388	368	367
681193	LOC681193	119.96	127.86	116.13	108.1	128.1	118.5	111	120.67
24162	Acp2	1266	1254	1258	1222	1250	1299	1286	1231
315203	Gramd4	559	525	568	542	546	558	569	550
498886	RGD1562987	1687	1672	1601	1470	1579	1539	1620	1777
364148	Kctd8	926	1026	923	906	1008	964	899	960
689248	Ecsr	331.65	368.55	284.94	300.59	326.9	358.5	288.9	328.47
641521	Lrrc4	281	308	282	336	284	326	322	291
296596	Rpl7a	3869	3806.42	3992	3293	3786	3743	3786	3844
295382	Ntng1	818	768	779	871	812	854	861	752
102547413	LOC102547413	225.23	209.24	217.44	189.95	258	185.5	187.4	222.17
499941	Dbnidd2	1480	1471	1558	1350	1450	1386	1562	1539
266608	Fzd9	40	40	29	41	39	49	30	34
501907	RGD1559459	6.53	4.69	5	4.01	4	2	7.5	7

361709	Ap5b1	341.4	359.78	373.99	373.54	346	397.9	374.3	349.89
60418	Gde1	2334	2316	2240	2015	2251	2167	2347	2259
362240	No141	1905	2065	2029	2004	2096	2004	1962	2048
100910434	Chad1	659.95	761.3	877.2	690.79	772.5	874.3	744.4	637.99
294239	Ddah2	1448	1466	1520	1309	1261	1419	1577	1563
24158	Acadm	1281	1187	1156	1138	1116	1209	1289	1212
293691	Snx15	325	280	316	268	321	295	299	290
360230	Stk40	879	880	926	946	875	958	898	949
315352	Nxt2	97	88.93	99	90	88	89	100	103
498002	RGD1561590	505.48	456.74	529.48	379.75	425.6	476.5	494.1	500.67
291848	Mmp15	4081	4858	5186	4874	4242	5278	4801	4936
287151	Metrn	810	895	1180	723	791	937	926	1003
100360100	Taf3	321	329	285	315	336	332	313	286
54294	Rgs5	314	306	340	216	273	316	361	242
64185	Cap1	7676	7872	7814	7702	7884	7967	8067	7569
297332	Thns12	246	245	195	195	212	218	238	225
290666	Sugp1	690	726	777	743	778	782	705	711
305076	Utp25	420	392	352	377	393	382	391	396
303918	Gtf2e1	350	314	291	365	312	321	361	344
367100	Smad6	55	58	62	45	45	63	46	69
681234	Dbr1	172	185	154	149	169	162	154	184
311944	Paxip1	425.42	489.99	452.62	441.59	460.4	486.6	460.3	427.1
499380	Emx2	2.11	0.98	5.67	2.21	2.49	3.12	3.84	1.67
500694	Isca2	775	759	603	642	611	752	728	726
307234	Kcng2	254	321	251	268	302	233	282	292
362278	Tmem189	4026	4079	3882	3982	3853	4451	3736	4148
290564	Mettl6	181.51	171.47	193.34	163.24	177.4	166.8	179.5	195.57
304271	Rnf6	990	1027	984	1075	980	1096	1086	970
171155	Hadhb	3829	3973	3364	3474	3382	3669	3868	3924
171565	Stampb	915.3	910.81	828.33	868.65	803	922.7	884.4	961.88
686590	Iqsec1	2972	3223	3007	3610	3041	3575	3188	3186
363327	Vmac	386	321	355	304	308	335	373	369
84409	Robo2	3906	3906	3712	4147	4067	3754	4275	3793
103690141	LOC103690141	106.07	105.19	96.18	111.91	108.6	95.42	109.7	111.42
171581	Rhov	452	416	405	377	446	419	363	445
500569	Kdmla	688	668	716	654	691	712	728	633
25012	Snap25	31080	31684	26565	32980	31612	30409	31058	30935.93
502632	Mettl5	291.25	310.21	291.47	226.42	262.9	281.3	289.4	301.35
54296	Rgs7	979	920	943	1022	994	908	1063	953
308339	Zfp579	232	220	241	237	271	259	220	193
311718	Zbtb46	170	147	177	149	160	173	141	178
307821	Psmd7	2439	2323	2334	2112	2325	2364	2342	2306
245918	Cgref1	696	577	567	505	581	575	572	650
684800	Smap1	2693	2592	2567	2520	2697	2710	2654	2457
360650	Amz2	1428	1360	1354	1328	1473	1308	1458	1308
367746	LOC367746	10	8	2	2.68	5	4	4	10
300644	Gramd1b	5266.8	4833.57	4771.1	5227.7	5325	5189	5319	4550.41
363522	Dnase111	299	265	273	225	272	254	282	269
309169	Ehbp111	569	570	696	572	609	623	650	559
361898	Ankrd55	234	241.03	202.8	252	250	223	234	236
108352362	Cxx1a	106.21	128.97	123.19	98.56	108.4	147.3	102.7	105.1
108348250	LOC108348250	480.88	426.52	518.42	300.06	314	508	418.8	509.52
315461	Tmed1	292.28	284.52	306.86	235.97	286.6	289.5	283.7	275.77
290692	Klh12	517	574	598	561	523	533	634	592
260430	Gpr156	55.62	58.86	44.12	68.83	65.75	55.02	51.58	58.32
314681	Ric8b	1094.1	1022.69	1041	1050	1079	1064	1070	1054.6

300759	Parp6	2950	2746	2687.4	2754	2793	2898	2773	2832
25385	Faslg	16	18	15	21	20	14	20	17
114115	P2rx2	169	150	111	127	156	119	146	144
365191	Chmp2a	1074.5	953.21	921.24	808.33	973.2	886.1	954.4	997.48
297994	Bag1	1423	1324	1349	1255	1383	1292	1309	1444
287962	Mrpl40	424	452	395	396	425	409	439	418
300713	Slc35f2	140	108	123	115	122	137	107	127
308404	Irf2bp1	570	529	576	546	599	596	511	547
309596	Vars2	307	305	294.13	341	296.5	328.3	308	332.42
103690164	LOC103690164	89.47	75.65	88.44	75.59	71.85	92.88	74.2	94.97
308576	Pnkp	255	257	238	220	230	284	223	247
100910143	LOC100910143	397.5	381.5	389	390.5	395	366	433.5	386.5
305626	Pigg	397.5	381.5	389	390.5	395	366	433.5	386.5
364240	Dnajc9	390	350	356	287	362	331	352	358
312694	Necap1	2331	2513	2218	2402	2320	2480	2388	2413
287178	Ubtd2	629	583	647	624	638	630	667	584
300035	Pycr3	453.47	416.27	377.06	386.01	425.9	429.7	390.7	410.2
366468	Lsm10	121	135.96	127.01	100	127	125	131	108
314586	Zfp763	194.06	175.98	174.62	192.23	180.5	168.9	190.3	208
502727	RGD1563349	1585.1	1628.32	1478.8	1699	1737	1490	1699	1557.99
361038	RGD1308430	267.4	243.44	278.83	222.04	220.9	272.3	257	276.36
361110	Tmem110	363	341	379	289	361	358	335	338
315033	Spagl	129	125	103	123	130	119	114	124
288615	Sbds	1393	1297	1236	1213	1187	1212	1407	1408
688981	LOC688981	2	2	2.26	3.33	2	3.25	1.34	3.14
360962	Tacc3	96.96	87.56	115	69.66	107.3	82.13	95.49	89.63
113898	Prdx5	2817	2618	2297	2109	2516	2209	2538	2722
497936	Tmem88	173.39	191.19	187.25	138.57	144.9	187.1	198.3	170.21
60450	Matk	295	322	243	226	298	286	252	266
289372	Smyd2	1678	1780	1470	1448	1499	1687	1578	1706
299075	Trappc6b	871	820	750	747	771	782	831	851
100192314	Inafm1	208	209	213	183	207	203	199	216
360505	Nprl3	446	406	416	423	392	466	422	436
81741	Cdk16	4716	4738	4471	4481	4537	4967	4673	4502
366734	Bag5	803.5	734.17	614.75	648.17	732.1	632.6	748.4	729.01
100362495	Haus5	183	145	137	141	150	167	123	175
171415	Atg3	1178	1053	1029	977	1069	1055	1096	1080
140593	Siah2	182	165	144	181	156	186	179	161
65139	Rps12	2559	2385	2484	1845	2394	2205	2288	2524
100359662	Ankdd1b	71.13	58.65	44.69	52.87	51.15	56.46	60.31	62.81
116484	Txn1	2169	2091	2023	1696	1961	1902	1986	2249
103690149	LOC103690149	411.57	380.21	405.11	427.28	373.3	399.9	454	421.21
307492	Hars	2693	2572	2479	2419	2564	2666	2683	2402.01
308051	Rnf146	780	736	719	635	704	667	793	749
296279	Tm9sf4	845	806	818	868	832	938	844	773
294518	Sesn1	635	715	553	560	592	601	684	623
83730	Vamp8	121	119	124	101	118	106	115	133
29752	Fau	3395.2	3238.4	3139.5	2391.6	3180	2825	2811	3531.67
406866	Ly6g6e	100.93	92.69	174.35	50	87.21	151.5	111.6	74
84591	Pick1	388	402	394	337	361	388	401	394
308390	Fkrp	663	667	621	627	703	665	649	600
365388	Psmd13	1849	1794	1788	1570	1752	1773	1851	1731
360946	Zcchc4	131.73	116.36	124.06	116.98	124.7	129.8	124.1	117.97
302817	Enox2	145	135	186	128	151	152	160	140
683983	Nup43	191	203	201	196	171	174	217	241
296480	Tpd5212	1806	1839	1563	1581	1636	1613	1835	1808

363519	Hcfc1	997.57	1040.3	1163.1	1343.9	1212	1044	1242	1116.2
81747	Pi4kb	1048	1091	1092	1102	1056	1133	1125	1085
364952	Nkd1	383.5	436.39	425.68	430	401.6	402	453.5	444
304530	Taok3	513	499	496	524	528	493	569	473
291000	Faf2	1364	1511	1391	1435	1452	1494	1418	1424
299261	Moap1	1218.6	1048.31	967.72	986.14	1011	1081	1179	1014.34
312451	Tcf7l1	401	390	367	412	412	403	398	381
360622	Igfbp4	1413.1	1290.92	1795.7	1358.6	1807	1467	1397	1276.38
116504	Mprip	5936	7127	6697	7181	6538	6862	6727	7226
366854	Fbxo7	1018	1063	1012	1022	997	1043	1003	1135
100910275	LOC100910275	1792	1908	1856.7	1964	1885	1916	1853	1982.09
313666	Zbtb17	329	305	349	321	356	336	320	312
117017	Polr2g	772	760	640	631	687	664	737	758
494520	Ggnbp1	18	13	17	17	15	23	22	6
310615	Crtc2	718	737	679	660	715	733	707	682
171145	Eif2b3	418	454	370	317	374	428	390	391
304285	Tecpr1	1742	1779	1733	1753	1821	1850	1713	1731
301020	Smarcc1	846	952	918	1021.8	969.9	903.5	994.1	928
192351	Fbxo6	505	559	534	474	490	576	507	531
305845	Mettl17	133	134	127	124	127	127	151	121
60661	Max	1152	1199	1153	1153	1190	1123	1187	1229
246117	Mcfd2	408	420	418	370	393	420	402	426
299201	Dlst	3149.5	2821.3	2747	2946	2928	2869	3028	3018.92
373545	Prkag2	1794	1839.68	1801.3	1853.7	1956	1830	1830	1785.41
245709	Exoc8	453	483	457.35	580.05	523	468	492	521.01
79433	Myh10	3893.8	3912.2	3901.9	5017.4	4337	4237	4484	3927.3
29381	Acvrlb	484.59	496.3	454.93	568.55	576	481.9	508	469.66
500280	Lrrn1	6274.9	4994.34	5269.4	6347.3	5861	5531	5925	5925.99
363259	Obsl1	442	402	380	445	400	440	410	445
83688	Taldo1	2345	2353	2329	2069	2209	2341	2406	2282
81715	Camlg	982	948	891	810	889	853	1031	915
299691	Cry1	132	119	117	141	114	130	158	115
296973	Bpgm	1046	1129	1282	869	1100	1176	1050	1068
301552	Mrpl44	401	375	344	342	378	342	384	381
362358	Krbal	410	418	411	413	422	439	408	409
362666	Dnajc11	1137	1260	1128	1167	1236	1224	1162	1144
307642	Cfap20	799	798	868	700	708	804	890	813
287840	Ubald2	571.82	570.84	585.76	547.87	592.9	605.8	532.8	580.85
292814	Pdcd5	1004	929.27	885.27	674.54	870.5	883	875.3	919.54
171131	Chrn3	981	1090	817	1152	1184	884	982	1054
499814	Ttc30b	308.71	313.62	254.22	261.02	252.5	292.3	310.9	299.86
102553032	LOC102553032	1.26	0	0	0	0	1.28	0	0
306766	LOC306766	2350.9	2346.92	2205.9	2290	2167	2492	2353	2327.92
501201	Tmem200c	243	160.99	227	188	193	226	246	167
287835	Galk1	453	406	407	370	393	419	416	434
500555	Zcchc17	1281.9	1211.78	1167.6	1131	1240	1186	1232	1210.95
308703	Lrrk1	333.9	320.6	402.88	364.67	348.5	362.1	395.7	338.35
361728	Tmem138	85	95	72	62	69	85	80	85
103690884	LOC103690884	110.64	155.49	225.51	207.94	157.4	198.9	203.4	151.1
315189	Prr5	550	541	491	553	539	610	494	526
685448	Pcp4l1	628.26	447.98	581.03	583.02	591.7	568.1	540.2	576
54234	Cacnale	308.9	322.77	324.28	330.96	356.8	298.6	354.1	297.98
308709	Synm	7860	8576	8515	8447	8815	8168	8851	8097
100158225	Tedc2	166.76	183.51	189.64	152.11	192.2	149	172.9	189.01
317247	Nap112	2055	1973	1737	1938	2062	1835	2017	1912
365155	Prdm9	36	34	20	35	33	26	34	34

114700	Cyp27b1	14.44	5.75	10.75	5.27	8.75	10.43	8.52	9.09
294691	Naip5	259.47	226.67	236.51	267.66	301.3	254.5	258.2	192.27
314623	Midn	1082	1170	1348	1315	1277	1282	1170	1265
366012	Trub2	370	350	374	337	412	367	355	320
102551518	LOC102551518	110	106	142	139	120	121	137	127
29154	Capn2	6791	6806	6689	6919	6847	7047	7033	6716
83499	Psm4	2271	2219	1968	1864	2236	2072	2087	2061
362246	Tp53inp2	1903	1902	1986	1966	1862	2069	1881	2070
686980	Srrt	812	824	928	786	848	904	851	801
161476	Hspb2	195	224	194	193	153	210	223	233
25480	Mip	187.02	139.72	159.78	130.29	206.2	136.6	128.7	155.24
29513	Mapk13	26.18	19.35	44.51	24.5	35.48	14.92	39.69	26.3
307859	Chst5	138	156	122	139	161	125	127	151
362194	Bahd1	969	1072	1058	1159	1158	1165	987	1017
360630	Naglu	286	336	354	257	305	305	315	328
289508	Rchyl	548.19	554.22	515.43	484.41	497.2	519.9	538.9	580.37
297393	Nagk	1068.6	951.12	997.58	846.1	984.2	937.4	989.4	1015.19
117096	Nlgn2	1276	1291	1361	1481	1433	1371	1432	1261
24787	Sod2	3522	3467	3249	3829	3402	3139	3984	3771
59106	Ltbp2	114	107	133	137	138	151	83	127
288718	Tfip11	732.65	793.31	733.67	753.6	766.4	782.3	737.6	776.05
304522	Fbxw8	1276	1272	1252	1225	1289	1368	1203	1247
65142	Arl2	817	820	727	700	754	765	783	812
89817	Sh2b1	926	834	902	892	958	923	823	908
360967	Rnf185	542	492	532	516	496	552	537	531
60586	Clcn4	2685.4	2505.95	2440.3	2624	2619	2626	2735	2443.1
29715	Slc8a1	461	466	468	479.99	500	534.7	443	427.95
307199	Cd226	43	42	45	53	50	44	49	43
362865	Gnptab	1401.1	1442.18	1422	1495.3	1563	1381	1441	1470.68
287656	Mrpl45	994.42	912.48	833.64	776.31	952.1	873	893.6	855.96
294456	Nt5dc1	127	108	123	129	123	98	114	160
24629	Pdgfrb	1156	1190	1460	1122	1099	1431	1267	1212
295395	Rtca	1626	1549	1402	1263	1551	1432	1446	1507
65040	Dlgap1	575.99	634.99	509	651	611	595	594	609.99
360515	Clint1	1517	1616	1613	1692	1658	1594	1707	1585
288985	Insig2	346.68	361.36	328.26	271.93	337.2	309.4	373.5	309.68
311456	Mkks	769	657	601	640	646	652	673	740
314961	Asap1	2116	2395	2309	2749	2475	2331	2419	2502
414784	RT1-T24-4	677.11	610.13	661.69	545.27	725	842.1	453.1	515.09
171500	Stau2	3206	3282	2983	3275	3374	3138	3397	3048
308961	Dctn5	2158	2185	1994	1877	2081	2017	2183	2069
294881	Slc7a12	2.83	2.07	0	2.95	1.95	2	2.03	2
366909	Slc26a10	73.05	60.35	78.14	73.62	71.66	86.41	60.29	71.53
684028	Cryga	62	70	43	66	77	68	51	49
25055	Lipa	3212.5	3391.36	2549.7	3179.1	3036	3008	3287	3205.67
64476	Mfn2	3089.5	3357.34	3355.5	3587	3444	3419	3393	3355.14
304293	Zfp316	213	215	221	193	210	222	217	207
286988	Pnrc1	842	841	803	881	876	838	858	851
690343	Zfp141	185	127	142	133	150	169	139.8	138
291659	Ik	2144	2077	2000	2070	2112	2059	2236	2022
362891	Os9	3472	3664	3742	3599	3745	3778	3646	3549
100362022	Zfp27	102.54	47.42	156.02	116.78	90.59	73.96	144	121.24
102554066	LOC102554066	12	19	12	17	18	13	16	14
24172	Adh1	31	9	8	12	19	19	8	15
93646	Sec31a	1373	1529	1626	1769	1519	1769	1575	1539
94269	Fez2	1310	1352	1271	1342	1291	1317	1340	1415

301062	Exog	365.53	349.13	362.41	324.78	374.8	327.2	360	363.26
25652	Ptgfr	310	249	280	358	330	245	301	341
245958	Atp5fle	1845	1629	1712	1326	1632	1582	1632	1775
294512	Ascc1	502.14	507.18	466.23	450.06	457.6	449.6	553.5	497.2
500990	LOC500990	3.11	2.55	2.31	0.98	2.06	4.18	2.86	0
317598	Mcf2	87	88	75	108	75	90	101	98
689397	Sssca1	766	810	757	649	779	842	716	695
313843	Galm	338.18	311.86	335	333.46	332.3	326.5	329.6	352.36
298096	Wdr31	57	81	51	49	66	61	43	72
314214	L3hypdh	35	22	23	39	22	29	36	34
317580	Rab33a	249.47	269.58	245.23	206.51	267.1	216.1	224.6	279.31
292762	Eif3k	1176.9	1171	1132	1039	1198	1137	1115	1145
117039	Gps1	2042	2013	1851	1935	2014	1973	1967	2019
246144	I13ra	179	164	164	146	171	176	162	155
24957	Glul	5566	4710	4364	5483	4836	5545	4969	5112
100911519	LOC100911519	100.5	115.48	138.68	109.97	123.1	127.5	124.1	97.7
312652	Plxnd1	2733	2776.98	2883.9	3038	2912	2921	2923	2868.94
140937	Higd1a	865	797	677	676	778	711	739	838
308061	Pdcd6	1003	965	919	835	861	950	955	1019
191573	Grin3a	59	79	71	86	85	63	85	67
500545	Cdca8	53	62	65	56	69	66	63	42
288240	Hlcs	961.55	895.61	867.17	1034.8	1013	979.4	896.5	934.1
171384	Trpm8	2248.2	2116.56	2058	2209.4	2138	2080	2349	2211.99
60381	Tsn	303	292	250	274	291	258	315	274
306255	Nisch	8528	8935	9446	9698	9705	9438	9181	8905
304579	Usp30	462	514	493	473	456	522	484	513
311414	Zc3h8	151	160	147	130	133	141	151	173
300259	Aaas	324	315	347	304	310	355	322	325
502531	Eif2a	729.37	679	699.02	722.43	684.1	705	748	741
108351076	LOC108351076	60.03	42.1	99.35	58.63	70.44	74.27	76.39	43.46
299295	Setd3	3507.9	3510.01	3426.7	3481.2	3535	3562	3584	3482.72
64559	Slc22a23	1880	1827.63	1935.4	2048.8	1947	2125	1933	1819.96
293180	Micalcl	15	14	15	14	12	18	15	14
311113	Ccdc173	15	13	12	18	17	15	16	11
361102	Polr3a	608	657	591	694	592	701	657	644
100361574	Polr2k	505	447	415	370	409	456	440	462
100362005	Grcc10	1676	1539	1481	1223.6	1479	1441	1499	1603
500126	Hoxa7	167.27	177.03	172.19	226.38	215.3	187.1	155.1	198.23
302395	Abcb7	146	145	137	149	159	108	168	152
364838	Reep5	29742	30337.1	27362	29740	30693	30408	28636	29475.26
29642	Slc38a2	5394	4972	4734	5433	5001	5396	5351	5141
287146	Chtf18	38	55	35	51	47.57	48	32	54.54
100360621	I14i1	102.45	89.54	80.73	78.74	111	86.97	76.33	83.32
117035	Slc25a20	902	939	840	764	842	817	956	890
303653	Cdc42ep4	975	920	1006	831	940	986	988	883
294288	Cuta	874	803	888	762	857	852	817	859
301514	Bcs11	204	214	190	194	196	193	237	190
117536	Nsmf	1866	1682	1654	1612	1690	1846	1753	1644
691534	Nop10	2335	2125	2135	1822	2074	2091	2059	2340
102556781	LOC102556781	5	3	1.03	7	2	2.31	4	8
100361774	Ralgps1	186.17	176.25	157.38	206.56	216.9	169	164.2	189.04
54348	Stk39	4454	4592	4202	4714	4602	4570	4736	4368
316102	Lztf11	383	340	368	339	340	311	378	426
292228	Tmem242	591.61	578.53	568.27	501.55	599.8	525.4	583.3	570.64
171566	Nme7	359.91	345.43	334.87	313.6	323	329.1	390.4	335.04
308857	Dnajb13	57.5	58.78	45.09	37.71	45.14	45	55.63	56.8

114004	Ppplr14a	63	64	49	52	50	64	57	61
361565	Vrk3	579	590	502	551	599	547	546	569
501584	Amer1	307	306	304	392	395	277	341	319
362238	Duspl5	2944	3127.95	2938	3052.9	2869	3560	2853	2993
289021	Pik3c2b	221	199	195	238	246	219	198	205
362149	Cir1	616.05	577.27	599.45	593.26	658.2	603.8	608.5	557.53
25176	Slc25a5	4082	4116	3737	3702	3664	3886	4103	4259
294380	Lrrtm3	86.65	78.15	73.36	94.44	81.7	73.12	99.51	84.12
297459	Mrps25	388	364	283	329	364	309	378	337
314224	Tmem30b	234	240	232	259	255	245	217	265
309911	Qrs11	143	126	111	130	119	121	131	148
445371	Kcnk18	181	209	188	215	249	182	162	214
316033	Glb1	615.23	740.51	860.04	750.24	771.7	796.2	780.3	670.16
303478	Ube2z	2604	2666	2664	2746	2629	2716	2721	2803
170917	Cry2	1706.6	1774.81	1618.5	1661	1820	1795	1664	1602.42
301242	Ptk7	623	750	721	785	773	741	695	721
314897	Ppmlh	1065	988	963	1161	1222	1068	1010	951
299628	Mrpl54	648	589	551	526	555	539	573	688
24780	Slc4a2	1699.4	1685.02	1757.9	1901.6	1846	1923	1780	1620.06
24260	Chrm3	74	84	82	98	95	74	102	73
50599	Kcnj3	318	278	271	372	345	326	315	275
689197	Kin	124	95	91	84	78	106	99	118
25566	Tmod1	3675	3483.35	3379.5	3499.8	3635	3497	3598	3557.81
683420	LOC683420	363.71	375.2	370.06	269.13	344	403	319	336.71
294258	Nelfe	420	433	397	374	407	403	437	406
500475	LOC500475	84	98	72	82	83	89	94	76
308201	Riok2	319	333	291	288	328	280	346	299
361434	Cdk10	895	837	845	832	869	849	854	898
681021	Paqr6	1305	1401	1312	1174	1105	1461	1295	1424
306030	Med4	333	333	302	260	334	308	323	285
313524	Zswim5	702	686	646	700	676	693	691	723
316333	Actr1b	4656	4596	4840	4264	4811	4569	4669	4636
64639	Bad	528	445	434	434	427	484	455	508
685079	Sys1	331.96	363.25	318	290.39	331	339	339	318
192117	Syngap1	340	379	402	438	436	416	369	366
300519	Esam	185	196	242	212	186	249	246	169
60564	Syt9	687	850	733	791	873	720	747	776
312826	Cmas	2432	2373	2301	2178	2395	2269	2394	2393
54281	Furin	824	786	907	761	827	857	859	794
292535	Leng1	226.24	241.67	222.2	218.13	218.9	222.7	245.2	237.81
292944	Reps1	797.35	818.94	733.22	757.77	778.9	829.1	798	757.42
304503	Hectd4	3007	3323	3351	3872	3639	3691	3229	3239
316242	Tctel1	532.76	572.31	481.34	482.49	605.1	521.2	468.9	511.15
296583	Nacc2	5553.1	5644.98	5677.5	6248.3	6300	5871	5889	5482.69
171297	Nlgn3	812	910	907	1071	1010	936	930	891
315851	Elovl4	1470	1578.95	1343.3	1416.9	1503	1459	1513	1440.6
314304	Acot3	178.68	234.92	181.94	175.3	228.3	203.4	173.4	179.81
29667	Srsf5	2490	2619	2551	2276	2457	2339	2735	2585
308837	Ints4	907	887	847	947	887	916	947	903
308875	Rhog	1000	1092	1138	909	1054	1088	989	1083
680933	LOC680933	104.84	87.22	77.31	85.48	86.99	89.15	95.06	90.08
498805	Thns11	160	170	149	183	163	185	159	167
303356	Tmem98	138	112	142	104	122	153	121	109
309444	Fbxw4	549.48	510.81	528.03	460.38	506.4	560.4	513.7	505.43
79210	Fst11	34572	33494	35645	34864	35763	35274	35531	34522
84578	Hdac3	802	827	783	728	730	839	833	795

288025	Hrasls	30	53.05	39	53	41	51	55.98	30.25
293852	Bcap31	3141.3	3020.25	2788	2749	2845	2854	3033	3179.38
113965	Hadh	1383	1413	1315	1225	1249	1390	1389	1405
108351584	LOC108351584	256	208	193	168	170	205	226	239
64619	Zbtb18	1152	1103	1088	1208	1109	1213	1195	1117
257648	Cacnalb	2643	2701	2750	2926	3060	2754	2724	2683
297832	Cntnap5a	13.61	13.11	9.03	15.23	16.52	9.49	9.05	16.85
361987	Dennd4b	812	844	935	914	970	841	950	808
360871	Mpz11	966	991	1001	983	988	1012	1043	970
140868	Fabp5	3614	3419	3576	3093	3684	3168	3384	3717
503165	Arfgap3	1125	1081	1062	1043	1129	1116	1146	999
24426	Gstpl	1940.9	1983.59	1935.7	1651.1	1861	1909	1910	1969.31
298784	Nlrc4	16.38	19.48	21.09	28.08	6.1	10	38.39	32.1
81636	Adcy2	421	406	394	414	440	417	417	391
297082	Malsul	310	263	253	209	281	263	258	252
171378	Ppp3cc	746.97	666.78	705.22	730.97	782	675.7	696.9	747.67
100911374	LOC100911374	177.65	210.42	159.13	192.57	217.1	152.1	200.7	183.52
360834	Vps4b	1985	2121	1955	1934	1939	2006	2171	2026
500270	Ier3ipl	35	47	46	35	37	45	36	48
619436	Med24	1042	1067	1135	1089	1011	1181	1154	1067
362648	Arhgef19	196	203	202	211	203	203	224	197
116479	F11r	265.76	217.07	267.66	253.65	288.2	250.6	257.4	226.57
689314	Mapk11	1374	1372	1432	1232	1478	1371	1369	1292
301579	Armc9	621.12	581.07	615.5	594.1	562	631.5	645.5	617.34
296211	Ralgapa2	620	700	561	818	707	619	759	664
309025	Tacc2	1059	1270	1185	1342	1238	1295	1282	1131
64520	Mtal	1052	1048	1090	1071	1052	1206	1073	1009
246047	Calcocol	846.52	834.05	940.52	992	898.5	926.1	937	918.52
100909955	LOC100909955	1	2	1.01	3	0	3	4.14	0
103693219	NEWGENE_1308196	474.21	464.18	425.66	414.13	473.8	405.7	446.2	485.49
85482	Nbn	1000	904	982	828	1054	850	976	903
50558	Npepps	3705	3774	3674	4052	3953	3900	3829	3806
305471	Patz1	533	538	509	515	527	586	479	542
89823	Trpc6	96	86	81	113	85	106	68	124
308218	Fam120b	1354.9	1381.7	1310.4	1562.9	1398	1416	1456	1444.56
363045	Siae	359	347	355	333	327	373	373	347
312200	Tmem209	271	333	303	326	296	324	301	335
361384	Dnajb1	1189	1055	1085	1170	1098	1151	1196	1138
293408	Hbs11	2728	2781	2438	2601	2658	2579	2811	2697
81674	Gtf2f2	195	182	169	150	179	175	175	180
305464	Depdc5	1656.2	1584.84	1548.9	1797.1	1761	1700	1658	1591.18
64511	Fntb	1203	961	1326	1158	1265	1236	1024	1210
367302	Kcne4	204	157	149	184	175	165	218	149
313346	Focad	733.56	746.72	769.82	807.26	794.6	801.9	775.6	742.63
65038	Inpp11	1002.8	883.93	958.75	987.85	913.9	1018	975.7	997.58
81024	Ical	840	868	744	794	860	802	881	764
282826	Elac2	617	602	624	711	652	664	700	586
29233	Clcn7	800	850	852	842	857	889	831	830
294252	Msh5	21	8	13	11	13	17	13	11
64896	Nolc1	1853	2075	2131	2209	2053	2190	2090	2091
80977	Syt13	19	5	13	16	10	9	15	20
500420	Tstd3	895.3	728.66	850.93	904.77	899	722.4	886.9	935.14
366434	Btf3l4	449	455	470	372	438	446	441	454
690195	Primal	411	476.01	421.92	474.55	440.5	504	400.8	471.93
300988	Tex264	1136	1222	1147	1044	1144	1159	1131	1201
114557	Wif1	116	110	105	92	108	118	111	94

362384	Reep1	13805	13437	12745	13045	14037	13118	13659	13221
79462	Txn2	1016	932	939	858	896	1000	961	959
363481	Hdac8	151.86	138.02	137.41	155.46	145.5	142.9	156.5	148.87
360874	Tada1	248	261	235	205	230	230	248	259
498945	Zfp90	214.36	226.25	240.75	193.44	245.6	218.2	221.8	205.76
290843	Gpat4	1183	1101	1100	1145	1099	1167	1164	1185
310803	Ext12	1266.3	1235.22	964.43	1342.3	1242	1176	1276	1206.07
304645	Tbc1d9	2308	2480	2360	2586	2541	2474	2525	2379
366004	Rnf224	2.02	3.99	0.83	0	3.03	1.42	2.52	0
100909954	LOC100909954	327	294	271	302	392.9	249.3	302.6	271.92
29340	Prkce	1679	1731	1669	1962	1989	1749	1742	1695
295686	Ube2e3	1147.3	1150.64	1109.4	1084.9	1046	1138	1169	1224.67
293129	Alg8	153	144	143	137	147	155	152	134
266689	Cyp4f6	320.33	231.61	299.35	255.61	302.1	294	240.4	291.64
365389	Lrrc56	28	45.94	46	37	39	48.94	34	38
289264	Grem2	992	938	876	953	1010	879	979	963
300146	Ppp6r2	1806	1792	1647	1694	1771	1831	1773	1697
309828	Tspyl4	2714	2563	2273	2780	2866	2520	2732	2410
78966	Arhgef11	3034.9	3087.92	2884.3	3296.9	3224	3314	3278	2723.61
29677	Psmc3	3478	3360	3322	3081	3422	3437	3324	3312
501702	Cenpv	133	120	110	106	111	116	135	116
58970	Degs1	3179.5	3101.22	3060	3242.2	3096	3378	3161	3189.46
303163	Igtp	204.82	186.91	223.64	197.49	161.9	201.4	200.1	265.08
100360427	E2f4	389	411.61	389	355.03	370.6	390	413	400.75
298300	Ttc22	14	14	13	11	9	11	20	13
287299	Mfap3	135	120	118	147	133	121	130	146
299607	Med16	961	1003	976	894	1023	932	926	1027
689030	Tbpl1	574	528	485	485	521	497	569	525
361126	Sugp2	1505.7	1423.41	1469.5	1562.8	1585	1534	1469	1488.33
290303	Spryd7	1132	1138	1001	1022	1116	1016	1066	1178
315611	Scn4b	8054	7597	7482	8877	8464	7725	8894	7546
361888	Sreklipl	23.72	19.54	27.67	26.77	13.33	25.21	28.35	32.7
292584	Fiz1	407	379	361	352	380	395	368	385
362419	Tamm41	280	189	238	171	238	219	196	242
290527	Anxa11	2285	2538	2393	2644	2428	2836	2455	2332
102548778	Parp10	179.42	174.89	161.53	189.24	161.6	214.4	168.1	174.63
116673	Sdc3	6896	7438	6555	7193	7251	7610	7003	6763
116565	Lrpap1	1474	1468	1383	1487	1502	1381	1553	1489
297388	Bola3	429	338	279	291	333	373	305	352
681024	Ndufa4	4125	3859	3465	3308	3542	3380	3724	4398
64028	Tsnax	2104.7	2028	1990	1833	1964	2063	2115	1969
314046	Ankmy2	1006	990	966	1043	1015	953	1081	1034
252879	Cdk11b	1210	1184	1294	1243	1229	1348	1266	1184
63836	Actn4	5302.6	5372.94	5768.4	5902.2	5637	5972	5720	5452.13
102548559	Vcpkmt	204	189	199	178	207	191	189	198
289159	Mettl13	375	451	405	411	452	412	406	404
246211	Hsd3b7	207.63	230.5	282.2	160.63	267.7	205.3	181.7	243.51
298594	Rcc2	1733	1845	1846	1859	1914	1985	1785	1741
26962	Rp18	3839.2	3869.28	3814.8	3188	3635	3759	3600	4005.09
64363	Araf	1728	1735	1705	1591	1606	1675	1835	1775
25416	Dpysl2	9246	11421	9047	10083	9244	11455	9690	10187
64302	Rpl4	6698	6757	6951	6016	6463	6826	6571	7080
296119	Dtwd1	137	122	125	126	145	123	134	118
685269	Itga2b	50	33	41	29	44	40	39	33
294204	Olr1750	22.62	3.47	11.79	15.5	14.77	18.42	12.82	8.42
307938	Trim67	116.16	127	114.01	159.21	141.1	121	143.5	121

309643	Fance	307	282	262	211	286	285	237	275
29606	Pcsk7	519	498	590	515	544	541	571	508
681989	Vipas39	875	915	912	783	908	888	928	830
307913	Gsel	405.69	495.19	412.65	517.3	514.9	459.3	462.4	430.49
171113	Blcap	745.51	741.08	730.87	727.25	764.1	726.6	747.7	764.8
309207	Dagla	1842	1964	2144	2195	2283	2174	2012	1838
300677	Atp5mg	2827	2710	2564	2095	2349	2474	2494	3082
288669	Arpc3	2472	2441	2352	1924	2144	2233	2570	2425
361094	Ubac2	528	563	603	512	545	580	552	573
362703	Wdr43	419	410	407	366	380	369	468	417
365684	Paip1	1130	1158.99	1146	1020	1102	1086	1142	1214
291939	Mmaa	104.99	146.4	127.71	134.17	135.2	126.7	122.5	139.2
29701	Scn11a	6324.1	6673.01	6435	6771	7121	6468	6320	6819.21
684830	Ttc32	71	56	68	54	38	79	74	63
500351	RGD1562378	168.6	262.89	243.73	180.64	196.5	223	231.4	222.09
114850	Wnt7a	93	111	119	125	113	127	104	113
691678	Tmem121	207	219	201	169	221	201	186	204
245957	Ddx46	1097	973	1042	1114	1153	1024	1117	1017
29287	Rps19	1883.2	1803.68	1984.6	1272.9	1721	1678	1683	2002.37
300186	Amigo2	389.23	404.15	389.68	377.16	353.7	445.5	423.3	369.09
502176	LOC502176	6.67	4.52	9.98	7.57	6.79	2.29	12.32	7.92
113975	Pom121	810	818	832	907	895	947	794	799
102550196	Gcnt7	25	30.02	27.27	31.02	25.37	22.15	24.1	43.98
501869	Sh2d1b	40.54	37.26	38.62	36.96	51.96	31.36	48.96	24.2
300733	Tspan3	4158	3998	3684	3483	3812	3829	4059	3933
363237	Wdr12	693	620	542	513	613	582	587	634
29648	Nudc	2311	2214.05	2093	2016.6	2389	2148	2100	2172.82
315731	Larp6	309	277	225	272	293	298	267	247
78967	Mcam	4615.7	5374.96	5989.9	5566.6	5579	5719	5744	4942.41
78973	Senp2	1035	1121	1056	1017	1103	1065	1086	1061
24716	Ret	11075	11141	10748	12303	12490	11612	10947	11139
289934	Oxsm	231.44	243.02	227.05	232.6	252.9	255.1	238.3	206.77
307410	Rbm22	538	545	565	514	514	585	581	526
316764	Mtcl1	809	812	828	989	905	834	932	837
315047	Laptm4b	2212	2119	1957	1913	2063	2429	2064	1812
305131	Lrrc8d	1369	1342	1454	1382	1381	1390	1464	1425
288088	Ndufb4	1978	1879	1710	1696	1772	1778	1862	1999
287447	Ctdnep1	1043	997	1083	1045	1010	1111	1056	1076
362524	Ptpn3	977.2	944.05	949.66	905.81	966.3	973.4	946.9	967.25
171365	Snrpb	537	491	540	491	526	512	542	521
289878	Pde6b	9	19	8	13	7	20	11	12
314330	Cipc	1077	1065	996	1076	1082	1094	1078	1046
363855	Map2k7	357	395	350	366	376	371	395	356
287398	Map2k4	1072	1035	902	1100	1101	982	1088	1022
252934	Cox5a	4270	3975	3491	3396	3591	3642	3929	4280
499507	Fam151b	233	235	245	214	217	249	252	228
306012	Polr3d	1161	1048	1025	1005	1059	1083	1120	1064
94198	Psmbl	3418	3214	2957	2689	3051	3029	3192	3258
29219	Snca	1504	1143	1081	1337	842	1043	1035	2249
85242	Pola2	140	99	110	89	120	114	108	105
680549	Pknnox2	784	804	735	882	831	854	805	781
155430	Hey2	832	804	748	866	890	855	813	759
294973	Acad9	774	745	697	740	684	748	834	751
308336	Zfp580	346	348	395	363	386	342	373	381
306549	Pomk	1013.5	1071	1032	1091.3	1118	1115	1045	1017.57
502957	Ccdc171	184.08	198.86	170.01	220.1	218.1	206	179	186

362125	Nr6a1	241	257	253	261	288	247	267	231
171503	Camk1	526.9	470.36	544	450.81	508.7	548.9	482.9	493
363662	Bcas3	1022	1095	1073	1236	1159	1191	1111	1057
25179	Idh3g	2520	2373	2120	2173	2345	2349	2412	2271
100361134	Shisa9	126	142	129	180	154	118	118	199
290615	RGD1311847	176.09	165.19	205.77	176.56	163.1	203.3	175.9	196.39
311676	Pmepal	1134	1176	1221	1179	1276	1346	1139	1047
25518	Ppia	29703	28169.5	26391	22664	26072	25482	27174	30428.63
362134	Mmadhc	514	524	500	426	448	472	556	529
498910	Arl2bp	2224	2238	2195	2010	2075	2249	2266	2258
100363455	Zfp69	52.86	60.08	53.22	44.36	45	59.09	58.68	52.15
100359937	LOC100359937	4257.1	4242.78	3696.2	3498.4	3903	3892	4020	4208.41
83471	Prep	1367	1483	1426	1542	1471	1507	1513	1449
308430	Zfp575	27	40	25	51	31	40	39	36
290783	Tusc3	1404	1340	1348	1103	1296	1259	1306	1443
59312	Shank3	457	412	413	386	479	472	406	346
303670	Tmem104	757.33	844.08	785.61	853.01	921	854.7	806	726.27
362322	Slc25a13	270	304	210	312	279	322	269	249
252902	Dync11i1	2345.6	2271.3	2034.7	2234.7	2339	2273	2290	2170.18
306387	Naf1	111	119	145	149	136	138	106	155
81775	Rps21	1842	1600	1639	1204	1556	1490	1505	1866
362199	Vps39	1627	1700	1559	1666	1718	1675	1681	1616
291844	Setd6	88	72	95	77	74	88	94	83
192270	Plpp3	1913	1707	1790	2222	1776	1939	2064	2014
316096	Zfp105	157	131	141	139	133	150	157	140
299799	Rab21	1135	1170	1120	1111	1095	1144	1195	1198
311130	Prkra	553	451	510	466	488	539	483	512
295961	Apip	289	251	238	210	233	231	268	277
313436	Zcchc12	437.43	479.76	461	430.66	454	446	435.9	511.38
140669	Abcb6	656	694	664	619	685	699	709	596
305149	Nudt9	767	730	703	715	638	763	785	791
498987	Tmem200a	253	291	276	261	295	281	247	281
684322	Kcmf1	1404	1278	1282	1203	1357	1375	1327	1218
287474	Txndc17	773.85	769.01	826.02	699	731	743.2	818	841.04
64462	Csnk1d	3795.7	3886.33	3557	3943.7	3992	3887	3930	3697.22
286899	Hsbp1	4732	4515	4576	4125	4299	4398	4771	4863
414793	RT1-CE3	449.09	337.26	427.31	414.95	432.7	512.4	397.2	321.17
80278	Cdk5rap3	545	578	585	539	578	561	577	579
300726	Etfa	1979	1670	1617	1516	1738	1543	1827	1819
289717	Tada2b	820	721	740	756	767	807	787	741
314030	Cog5	587	552	527	529	585	519	559	579
363599	Tnip1	1084	1094	1178	1026	1109	1169	1096	1102
24765	Scg2	6498	5874	5764	5836	6190	5719	6818	5759
360709	Tfg	2987	3015	2813	3023	2914	3058	3130	2990
680178	Cldn20	61.17	55.45	92.66	87.75	101.4	45.32	81.51	75.16
83533	Aifm1	668	669.32	566.25	599	652	619.7	647.7	637
313236	Trim14	17	21	28	27	28	23	20	24
171456	Nsa2	2320	2127	2022	1945	2103	2171	2130	2190.99
140725	Cacng4	167	179	166	185	160	185	204	163
309456	Wbp11	1166.2	1222.55	1267.9	1180.3	1216	1281	1310	1134.06
309628	Wdr46	447.87	414.82	508.88	437.17	522.9	466.9	431.6	426.4
60326	Kcnv1	314	296	323	316	365	323	309	279
315298	Racgap1	361	399	431.07	390	439.4	452	427	296.91
297516	Cpne9	196	138	124	189	159	161	191	150
362217	Cenpb	1889.8	1880.86	1861.2	1621.5	1939	1795	1887	1789.95
361542	U2af114	677	690	581	586	599	616	713	661

308776	Pde8a	210	257	244	210	238	213	287	203
108348322	LOC108348322	19	11	7	9	15	8	12	12
360559	Pimreg	32	15	23	22	22	22	18	32
84497	Dgat1	395	396	343	337	343	398	374	388
294025	Stn1	373	385	339	328	359	363	363	371
289568	RGD1311575	1787	2153	1799	2347	2104	2121	2047	1990
309377	Sfrp5	7418.2	7460.06	6126.8	6141.5	6565	7760	6345	7068.17
691426	Tmem201	258	236	285	276	271	273	270	264
25581	Psmc2	3830	3614	3403	3229	3609	3399	3538	3837
289590	Ociad1	3970	4010	3496	3557	3608	3757	4090	3906
317498	Ppef1	2853	2710	2674	2532	2839	2550	2817	2798
306582	Agpat5	597	572	554	521	589	564	539	601
100359821	Zik1	169.75	149.94	168.98	152.76	157.5	141.5	188.4	168.01
362455	Fam234b	1291	1345	1244	1425.1	1422	1429	1259	1311
299053	Brms11	855	851	751	837	857	793	842	874
680021	Grhpr	120	133	109	141	124	136	127	127
296272	Tcf15	29	34	27.14	25.02	33.02	29.62	24.04	31
25529	Ptprs	4340	4973	4541	5111	5084	5140	4775	4382
290669	Gatad2a	990	1024	1075	1013	1096	1049	999	1047.99
304104	Urb1	394	449	438	451	444	447	458	421
313775	RGD1311517	141	176	155	166	142	161	165	184
117020	Mcf21	1819	1742	1829	1716	1920	1867	1778	1697
654495	Zdhhc16	264	271	269	243	265	263	249	293
291006	Diras2	1110.5	1150.99	1048.3	1145.3	1181	1108	1101	1163.02
691712	LOC691712	60.79	48.97	67.29	49.57	75.55	30.11	64.02	61.92
295229	Naxe	423	419	438	357	425	379	424	445
314612	Shc2	2051.3	2070.64	2068.5	2108.3	2225	2096	2106	2053.63
296710	Arpc51	1315	1299	1127	1075	1323	1155	1245	1199
297029	Gstk1	521	587	602	423	525	529	510	616
108348051	LOC108348051	1709	1704	1620	1635	1701	1696	1723	1695
259242	Wipf3	2843.6	2997.24	2799	3120	3121	3189	2736	2973.56
100216475	Hexdc	228.98	213.78	218.64	188.93	228.3	217.2	206.6	216.96
362432	Clec4d	20.36	17.08	44.63	5.89	35.41	24.57	18.08	11.84
317260	Zmym3	1170	1226	1270	1222	1319	1222	1296	1159
303393	Cox7b	2069	1995	1772.9	1810	1830	1892	1873	2220.93
81518	Mef2d	1464.4	1498.29	1429.5	1627.4	1618	1676	1487	1371.72
367112	Hmgcl11	261.03	274.01	245.13	252.61	257.1	260.8	256.6	281.21
291824	Tk2	373	383	347	341	350	364	363	399
300045	Exosc4	159	143	170	114	152	146	137	164
303260	Spag7	728.8	672.41	647.69	616.28	735.9	639.5	680.2	668.78
315139	Tab1	418	438	436	418	442	463	409	434
691153	Epop	10	15	11	9	12	13	6	15
361654	RGD1310127	658.09	685.11	617.83	643.31	608.8	692.7	679.2	681.59
266631	Rbm45	305	329	288	336	329	305	300	352
100360682	Snrpe	581	524	583	468	503	476	585	640
303056	Atp10b	67	98	105	89	81	82	96	108
304490	Anapc7	466	503	377	448	444	469	471	450
360983	Lgals1	1733	1518	1442	1443	1615	1560	1618	1480
363110	Rwdd2a	39.95	43.73	34.89	20.68	44.27	32.36	32.29	33.44
29230	Sqle	3041	3094	2813	2825	2902	3047	3030	3057
361520	Dmac2	642	622	584	524	592	599	641	593
289084	RGD1309104	872.95	887.06	763.28	860.54	919.1	838.9	868.6	832.89
361736	Pat11	536	557	557	586	537	597	560	592
100534597	Cenps	122	119	136	114	141	105	125	131
686132	Hmcn2	106	87	89	75	104	114	114	33
316424	Aox4	157	149	137	137	136	144	165	148

289664	Ldb2	2437	2193	2248	2268	2498	2245	2277	2331
360483	RGD1561796	40	48	35.36	39	52	28	45	41
64529	Ctsb	34247	34432	35943	34501	35574	36535	34170	35966
307779	Rbmxt1	466.16	402.75	404.25	344.77	398.7	454.6	382.8	418.11
171347	Mat2a	1042	923	902	826	966	952	936	922
54322	Cox6c	2805	2724	2510	2458	2510	2353	2652	3218
366276	Prpf6	966	1016	1088	1065	993	1062	1125	1048
292724	Ccdc97	845	864	855	859	880	933	856	831
304570	Ddx51	224.32	198	206.26	179.21	187	230	225	184
24416	Grm3	243.53	230.65	240.95	237.17	248.3	234.8	247.3	243.27
114488	Rbm3	1005	1054	990	715	995	929	1032	893
24513	Ivd	850	889	790	880	859	972	780	875
292160	Znhit6	316	302	291	330	330	326	302	309
296467	Ythdf1	1135	1114	1193	1154	1197	1204	1221	1078
171396	Sulf1	295	306	298	294	250	336	340	294
25524	Psap	30949	33928	33530	32949	33837	35333	32706	32453
117596	Atp6v1b2	8642	8217	7601	7998	8649	8157	8313	8075
501007	RGD1562618	1100	1043	948	1142	1131	1019	1131	1048
683519	Mrps22	517	498	439	442	525	391	531	492
83785	Vegfa	1564	1195	1160	1413	1374	1415	1380	1284
298584	Capzb	4259	4310	4350	4001	4263	4338	4397	4306
288533	Taf6	683.27	667.29	688	651.78	641.3	730	706	674.15
246295	Cep104	1238	1289	1213	1324	1276	1254	1354	1295
313535	Eri3	1822	1869	1780	1703	1843	1848	1840	1806
102546990	LOC102546990	10	9	10	15	11	10	15	9
688717	Slirp	419.29	368.27	342.36	254.66	313.2	338.2	352.9	411.73
291019	Fam120a	3234.3	3164.8	3211.9	3283.9	3276	3317	3297	3298.29
306439	Gpm6a	848	899	761	961	863	943	960	782
360547	Sat2	248	241	230	203	201	240	216	286
681177	LOC681177	94.39	94.3	99.55	98.63	89.14	86.13	115.4	104.99
296558	Anapc2	2342	2275	2317	2313	2333	2495	2283	2347
84495	Xrcc1	551	522	560	514	572	539	555	530
282581	Fzd6	91.61	106.86	109.44	69.3	104.5	87.45	107.9	85.95
360477	Glyr1	912	969	897	1077	1019	962	983	979
117103	Rab8a	795	763	784.99	675	781	749	766	791
500111	Lrrc61	686.25	692.03	585.28	691.9	694.5	642.1	735.2	644.44
499010	Syne1	3410	3537	3316	3893	3792	3606	3729	3353
303811	Dvl3	1299	1450	1513	1679	1542	1612	1470	1453
29434	Rasgrp1	535.55	448.73	524.92	462.46	518.4	472.6	440.5	585.3
58812	Apln	24	43	35	29	29	34	33	38
287134	Gnptg	733	690	613	584	668	634	709	669
288611	Galnt17	965	1029	1061	1093	1141	1034	1050	1018
307210	Timm21	368	351	323	311	340	314	359	371
292041	Wwox	317.7	340.92	357.18	289.53	328.3	314.8	354.2	337.9
29283	Rpl29	3885.3	3374.41	3748.6	3013.4	3607	3423	3434	3878.77
363915	Tmem132c	742	647	704	743	796	771	683	651
363109	Pgm3	376	398	323	341	318	361	420	372
310720	Wdr3	235	258	257	252	250	274	249	252
406167	Prrt1	903	853	832	1023	860	966	887	981
306576	Nek3	100	116	122	97	101	128	97	119
499431	Col13a1	58	34	30	52	41	63	36	38
298586	Mrto4	416.77	423.84	362.52	354.03	416	406.8	391.6	378.68
24185	Akt1	3369.2	3395.99	3504	3104.9	3370	3490	3345	3477.19
360616	Ppp1r1b	321	324	320	292	286	343	338	319
683402	Ap3s2	1306	1226	1166	1064	1223	1246	1147	1256
312754	Ppp2r5a	485	375	489	425	437	437	466	475

365381	Stk32c	503	453	489	502	527	481	516	468
309607	RT1-CE5	1115.2	1190.82	1264.1	832.76	1154	1274	970.2	1106.12
81005	Nptxr	3813	4312	4501	4412	4583	4409	4079	4361
307248	Pstpip2	137	143	123	159	144	152	152	127
266711	Lzts1	517.31	526.09	484	586.35	571.6	523.8	538.1	529.16
303652	Cog1	781.58	804.43	785.83	825.78	862.7	833.5	825.9	749.53
60373	Nop58	662	637	725	655	753	632	677	679
100294508	LOC100294508	1653	1723	1743	1960	1855	1795	1857	1736
313241	Mcart1	1332.1	1405.88	1391	1239.3	1678	1079	1474	1261.64
103690139	LOC103690139	65.73	47.09	51.83	57.06	65.42	43.8	59.89	57.74
684327	LOC684327	2880	3385	3245	3677	3274	3376	3687	3156
300981	Acy1	570	634	663	586	506	684	589	731
445268	Ufc1	1376	1209	1210	980	1169	1135	1251	1331
311332	Dl14	91	110	97	132	137	103	106	94
305246	Ppef2	72.23	63.77	53.3	58.77	60.18	70.13	64.85	58.68
290562	Sema3g	1132	1326	1302	1441	1358	1319	1419	1226
303501	Arhgap23	1536	1586	1682	1557	1712	1749	1564	1484
100359642	Chmp4b	983.33	885.24	958.6	863.41	980.2	961.8	970	864.61
64315	Cd151	5174	5458.75	5263.5	4047.5	5021	4656	5404	5328.18
25427	Cyp51	8335	8205	7548	8029	7581	7910	8660	8717
363083	Fbxl22	36.12	43.32	47.69	40.45	45.41	48.49	42.98	34.62
691898	Prr14	370	365	409	352	349	385	388	409
294797	I17r	1012	879	1003	696	909	802	987	976
296883	Rpa3	135	119	108	108	104	117	139	121
295214	S100a1	233	187	165	184	202	196	196	193
306599	Tubgcp3	650	714	685	599	622	683	753	652
59315	Nxph3	178	122	114	98	163	120	131	110
362517	Mrpl50	331	351	273	282	298	251	342	375
302612	Tspyl2	1202	1123	1188	1178	1242	1154	1283	1122
313056	Snrnp40	321	302	317	296	300	323	305	337
64039	Fbxl20	1551.1	1581.1	1522.9	1508.2	1577	1629	1667	1434.69
300206	Kans12	1217.4	1227.22	1273.4	1102.8	1299	1272	1149	1214.38
100911668	LOC100911668	376.09	393.49	354.65	396.18	390.7	412.4	401.7	351.38
103692129	Hoxa10	376.09	393.49	354.65	396.18	390.7	412.4	401.7	351.38
313525	Hectd3	1386.1	1496.19	1513.6	1490.4	1477	1566	1461	1520.63
366061	Galnt3	66	47	88	96	77	77	81	69
497778	Dut	523	506	411	384	455	475	508	429
64845	Gphn	725	754	687	718	704	722	775	751
361614	Fam168a	3071	3146	3063	3438	3289	3195	3257	3277
680252	Dmwd	956	1038	916	947	993	1050	940	965
680858	Tmem40	20.76	19.84	17.4	31.8	33.9	21.31	18.54	18.17
103694877	LOC103694877	150.25	171.23	72.77	72.6	99.32	109	171.2	98.33
29282	Rpl23	2521	2279	2496	1977.9	2274	2220	2364	2635
29723	Slc19a1	187	160	163	167	163	178	170	182
305751	Nkiras1	1393	1415	1222	1301	1431	1243	1396	1387
360822	Sppl3	1107	1101	1195	1166	1163	1245	1151	1118
501083	Pdcd6ip	3825	3937	4011	4472	4127	4269	4285	3948
688429	Arhgap10	622.69	602.58	619.23	601.53	657.4	687.5	566.4	592.55
296315	Rab5if	975.03	995.68	936.74	802.29	969.4	957.3	915.1	955.64
360550	Phf23	705	694	751	639	735	701	711	708
116839	Rims2	836.85	904.27	863.4	910.81	954.4	888.2	887.6	868.46
305428	Zbtb49	54	66	71	62	67	56	73	63
311078	Psm14	1434	1305	1302	1272	1325	1327	1387	1400
287984	Psm2	4604	4568	4616	4544	4924	4664	4646	4533
108348046	LOC108348046	843.34	815.52	840.43	940.76	967	876.1	866.6	812.19
303743	Notum	8	7	19	8	10	13	16	4

691979	Esco2	87	86	100	63	93	82	90	79
171442	Svop	905	985.43	877	908	921	955	1000	887
288606	Gtf2ird2	205.44	240.93	238.85	246.24	258.7	205.2	248.2	241.66
304410	Castor2	592.06	617.48	589.71	698.56	644.3	684.7	636.4	591.99
310815	Snx7	1779	1685	1635	1678	1675	1615	1814	1835
100911959	LOC100911959	0	178.37	135.01	82.78	68.7	229.1	70.93	36.94
64510	Rbm10	673	649	650	620	657	735	670	592
117524	Ccnf	46	47	56	60	45	62	59	48
58958	Nup210	129	119	125	128	152	135	117	109
297784	Rrs1	205	206	266	199	231	223	228	215
368001	Bcl7b	614	644	601	602	601	690	618	611
690163	Oxct1	2740	2619	2526	2785	2564	2544	2855	2963
292462	Lrp11	5396	5592	4738	5237	5462	5213	5500	5291
497672	Brcal	89	99	87	100	116	83	94	91
170923	Rap2b	37.91	22	39	29	24.99	29	38.99	38
294672	Gfm2	310.9	270.94	335.84	320.34	362.3	348.6	261	295.89
100360017	Mrps6	398	366	327	325	340	344	342	424
286896	Sgpl1	1274	1341	1326	1334	1313	1364	1434	1291
363065	Ube2q2	1023	1051	1030	1049	1138	965	1073	1077
293653	Acy3	213	243	234	182	204	206	241	242
499391	Gemin7	160.31	135.3	89.89	120.66	133.7	125.7	106.6	152.32
170538	Prkcd	2383.1	2590.28	2310.7	2421.7	2717	2560	2327	2336.07
362201	Ccndbp1	808	724	701	671	748	683	769	774
313610	Extl1	54	53.02	29	44	47.36	61	45	31
304919	Dars2	172	221	199	196	195	217	207	188
367033	Zfp26	196.88	231.65	243.37	250.97	270.6	170.9	255.6	248.05
304709	Bfar	657.14	644.45	570.63	598.64	622.4	622.7	660.8	624.52
290706	Hpf1	443	417	429	409	415	418	452	454
315949	Armc8	907.04	895.03	817.98	898.48	955.7	907.9	859.3	880.65
81008	Itga7	3879	3951	4056	4244	4009	4370	4170	3971
294010	Actrla	8620	8566	8295	7708	8681	8117	8656	8538
59317	Epb4111	6850	7482.08	6975.3	8124	7944	7801	7473	6928
309415	Fam189a2	406	460	460	446	407	499	446	463
363447	Tspan7	5939	5803	5587	5904	5938	5916	5845	6098
29568	Map2k5	516	582	515	567	590	615	531	497
58961	Azin1	4112	4018	3535	3759	4009	3945	4116	3729
691931	Fam241a	109	86	84	91	91	97	105	86
308592	Grwd1	211	215	223	214	218	214	221	231
290322	Ints9	503.6	512.4	524.72	536.22	574.5	547.8	534.2	470.94
313211	Nipsnap3b	651	664	569	538	606	587	668	620
83588	Kcns3	1578	1430	1428	1434	1647	1452	1557	1357
302557	Pqbp1	537	482	481	469	486	510	510	511
305000	Exo1	14	8	13	6	16	12	8	6
362110	Cdk9	1129	1128	1166	962	1171	1132	1092	1097
298689	Ube2j2	1011	1093	1040	912	971	1052	1034	1098
500532	Rnf220	1433	1374	1314	1324	1397	1408	1328	1445
252918	Spag5	187	160	159	148	152	194	170	153.98
94172	Slc27a1	1891	2143.86	1969	1975	1998	2068	1955	2153
313235	Coro2a	1940.7	2048.8	1984.7	2050.9	2168	2044	1931	2078.28
307811	Slc7a6	479	453	438	428	454	466	465	457
361679	Dusp8	387	388	404	455	434	458	383	399
25429	Cyp7b1	54	45	55	50	47	58	61	43
301618	Ppp1r7	1411.1	1332	1259	1307.8	1441	1265	1338	1396
100125362	LOC100125362	2964	3052	2067	3583	2882	3099	3123	2848
300839	Lysmd2	1091	1049	869	905	987	1009	1021	993
289810	C1d	495	499	527	517	526	510	493	559

100362331	Ndufa4l2	41	48	41	33	38	53	37	39
289796	Pkd1l1	45	34	42	42	45	32	48	42
314555	Tspyl5	669	672	633	755	670	687	721	718
679934	Brk1	2137	2098	1811	1730	1849	1990	1916	2212
24399	Glud1	5174	5185	4852	4952	5241	5220	5127	5071
313510	Atpaf1	744.24	828.39	601.61	807.75	767.4	767.1	766.6	754.3
293652	Ndufs8	1123	1085	1010	927	1030	1112	1002	1103
680532	Sem1	561	496	517	417	472	462	560	546
689988	Sox12	283	222	239	230	279	236	242	241
29580	Fdft1	4159	4226.01	3738	3853	3813	4094	4051	4412.02
25715	Slc11a2	553	580	591.33	580	584	643	562	572.23
102552182	LOC102552182	327	240	194	211	232	193	351	220
83809	Nsf11c	2547	2485	2426	2220	2468	2529	2467	2453
29559	Grik1	2593	2825	2835	2517	2891	2751	2733	2661
100361457	LOC100361457	15597	15337.3	15401	17248	17002	16911	15379	15861.25
315478	Snx19	2360	2648	2240	2543	2716	2344	2571	2402
499724	RGD1560065	402	424	402	430	386	410	446	457
360610	Nfe2l1	8327	8299	7905	8702	8812	8564	8534	8145
308846	Uvrag	706.61	717.65	729.39	703.53	745.9	720.9	737.1	724.02
290673	Atp13a1	786	860	880	908	879	929	847	864
25257	Gamt	557	587	624	493	520	578	590	629
102555033	LOC102555033	29.93	32.42	39.72	30.7	33.28	34.18	31.34	37.26
114096	Idh3a	4707	4761	4468	4489	4454	4797	4904	4727
315952	Dzip11	89.68	79.1	92.57	76.4	84.64	88.5	88.98	84.01
246768	Cby1	460	420	445	448	480	433	430	474
29234	Galr2	163.46	141.44	158.87	127.2	109.9	175.7	122.5	197.66
500991	Nxpe4	47	43	46	25	38	45	42	40
362720	Rrm2	127	116	195	84	154	131	140	110
369016	Myadm	1882.8	2170.39	2321.3	2189.8	2188	2144	2213	2232.25
304547	Tchp	280	283	298	303	291	319	290	293
500102	Fam131b	3070.8	3175.2	3162.1	2954.2	3304	2838	3407	3122.28
685867	Myl6	7755.9	7497.75	7567	6532.8	7179	7355	7588	7965.52
300129	Cerk	2005	2015	1860	2082	1970	2131	2182	1878
299938	Mrpl13	656.17	598.62	556.94	521.56	538.8	587.5	597.3	668.03
364844	Pcdhgb7	201.63	266.38	240.59	262.04	169.5	288.1	266.8	270.56
312638	Creld1	2211.4	1968.39	1963.7	1959.8	2088	2134	2001	2083.36
83513	Mmp24	1238	1140	1132	1120	1195	1214	1145	1192
294043	Sorcs3	461	452	491	511	523	465	526	449
361453	Adat2	73	86	83	77	72	84	85	86
24404	Gpx1	1164	1091	1316	968	1204	1229	1163	1057
289657	Tbcd1d19	1016	1026	902	878	972	996	1092	858
246772	Vps4a	1845.5	1814.67	1666.5	1689.7	1859	1764	1831	1738.33
290381	Vwa8	1072	1116	1156	1150	1200	1163	1181	1063
361472	Mthfd11	406	448	448	447	443	461	452	437
316039	Osbpl10	1656	1593	1639	1670	1724	1732	1655	1612
360537	Tom1l2	8347	8566	7999	8658	8831	8574	8612	8399
361853	Fam184a	284	305	293	348	309	333	330	289
679693	Med12	941.54	932.73	1026.9	1111.3	1038	1030	1038	1007.74
113990	Hmgn3	494	461	437	430	453	416	507	492
314280	Smoc1	312	582	416	629	362	787	407	432
360491	Traf7	759	701	818	650	683	791	759	769
293150	Stard10	1177	1142	1173	975	1213	1174	1149	1044
365567	Micul	3392	3545	3262	3235	3587	3487	3441	3259
314627	Plk5	19	19	22	19	19	22	23	17
361794	Nfkbil1	311	304	292.2	281	310.6	310	300.6	297.13
301511	Arpc2	5551	5390	5405	4896	5119	5543	5729	5389

499191	Ngrn	1629	1608	1278	1407	1536	1400	1552	1584
501282	Mydgf	536	499	536	439	509	503	493	556
295401	Plppr4	454	416	312	393	487	342	388	398
29392	Bace1	1062	1063	950	1213	1109	1115	1081	1092
307948	Map10	27	22	35	34	27	33	34	27
362588	Ndufs5	2448.8	2312.1	2197	1946	2150	2110	2207	2663.02
81657	Gabbr1	9910.7	11022	10486	10689	10603	11363	10993	10218.58
298557	Pittd1	1750	1894	1743	1691	1781	1754	1850	1873
100360936	Anapc16	400.86	316.82	355.77	291.94	312.4	353.4	351.5	382.8
108348052	LOC108348052	132.68	142.3	98.65	111.39	125.8	157.1	109.4	105.15
295695	Zfp804a	578	541	513	608	565	586	597	549
25266	Pdgfa	759	816	840	728	850	807	784	782
362103	Ntmt1	225	205	227	207	209	255	208	214
494521	Kctd10	2171.6	2242.7	2199.7	2077.2	2234	2215	2216	2246.4
100911848	LOC100911848	118.09	85.68	91.26	92.86	74.64	89.21	106	127.96
498001	Cntd1	102.98	61.29	83.01	81.31	91.07	54.22	94.44	97.23
501003	RGD1563578	46.96	45.75	48.83	38.61	57.62	44.99	41.44	40.69
363291	Thap4	271	301	301	304	312	324	271	300
301245	Yipf3	1433	1482	1381	1352	1390	1454	1460	1488
310306	Usp13	1873.7	1756.03	1727.2	1928.7	1911	2004	1859	1697.73
680248	Nudt11	641.22	576.84	523.56	581.03	581.4	568.4	608.8	623.39
679221	Mapre2	6511	6940	6333	7541	7075	7037	6902	7009
298652	Ube4b	2596	2807	2879	3264	3118	3167	2822	2734
287722	Tmem106a	364	374	363	424	321	407	420	416
50672	Ednrb	1998.4	1975.79	1553.1	1989	1801	1726	2427	1754.63
116717	Trip10	629	624	605	643	585	664	672	644
50685	My112b	3810.1	4041.78	3946.2	3779.4	3931	4101	4050	3893.66
286937	Pex5l	836	790	707	907	949	693	875	806
307585	Cables1	323	290	257	301	291	382	272	256
303332	Tmem199	843	842	774	701	757	776	826	882
100910121	LOC100910121	94.49	54.82	55.85	0	0	92.02	65.12	53.29
296372	Ncoa5	520	535	545	539	556	526	579	533
300053	Kifc2	866	768.57	893.84	730.55	850	884	839	770
171046	Tcf3	445	467	509	399	475	484	460	448
364388	Cideb	17.93	51.69	53.84	65.32	14.03	56.92	35.71	87
501231	Vwc2	46	21	23	26	33	26	36	24
680133	Tbcd8	347	361	359	402	377	366	357	407
289181	Dcaf6	1649	1802	1806	1500	1782	1768	1654	1728
680594	Dph3	526.39	529.28	531.48	501.16	529	507	550.4	556.03
29489	Dync1h1	17841	19857.2	19553	23328	22295	20402	20778	19192.26
289502	Ccdc158	117	80.01	121	106	115	84.01	116	119.99
81765	Rpl13	3713	3604	3843	2957	3535	3575	3558	3815
58845	Igbp1	749	711	643	751	704	668	790	766
50545	Dpf1	76	99	85	87	107	93	83	73
679091	Mettl1	138.43	203.77	190.92	172.3	190.7	166.7	177.4	189
292534	Tsen34	848.46	872.67	853.72	771.15	851.2	814.3	832.6	934.7
25238	Grk2	1652	1622	1762	1706	1870	1698	1662	1687
681282	LOC681282	224	166	217	163	200	189	199	202
85489	Twist1	70	51	79	69	53	62	82	79
290426	Klh11	129	127	102	103	118	104	119	132
287125	Nubp2	543	542	580	486	560	541	556	550
266712	Rnf40	650.72	682.69	751.44	714.6	733.7	746.9	728.5	663.36
103692165	LOC103692165	1401.9	1402.3	1268.4	1357.8	1381	1476	1334	1380.61
292894	Nosip	567	567	486	487	543	570	540	509
140910	Msmo1	3552	3563	3316	3283	3144	3676	3600	3652
689593	Dna.jb2	3334	3300	3007	3253	3462	3406	3105	3258

171443	Slc12a9	193	250	238	236	214	249	207	271
298757	Atl2	838	662	752	765	810	760	761	765
140946	Paics	1649	1604.81	1585	1486.8	1555	1423	1650	1863.54
288778	Pa2g4	972	1047	1048	904	897	1041	1081	1056
360662	Sap30bp	806	745	711	754	826	751	816	702
307989	Ablim1	4934	5075	4779	5363	5389	5356	5092	4842
286922	Fads3	1061	1020	1027	974	1023	1086	978	1102
291670	Cxxc5	1027.4	1123.24	1092.1	967.14	1064	1091	1104	1061.11
100362764	Ddx55	191	212	212	185	224	190	209	198
140940	Arf3	6415	6803	6606	6610	7371	6600	6660	6497
367113	Lrrc1	100	107	133	155	106	133	153	116
60571	Mybbpla	1187.3	1242.21	1225.8	1201.4	1255	1286	1265	1178.93
291772	Kctd1	415	470.26	441.25	519.99	499.3	557	433	405.87
114521	Tdg	565	560	619	498	551	578	648	524
292699	Cblc	15	9	7	7	9	14	9	7
25388	Arrb2	1193	1034	1059	1004	1174	1105	1073	1051
312706	Emg1	325.83	340.81	286.4	322.88	352.9	320.7	333.7	302.23
117243	Acs16	2603	2560	2051	2727	2624	2582	2728	2269
500915	Fam19a5	972	915	943	964	930	1004	1000	960
293016	Map7	1545	1533	1467	1638	1768	1591	1483	1504
407764	St6galnac4	247	293	245	238	232	303	271	244
259170	Casc3	1037	1005	946	1138	1084	1078	1075	998
29745	Sema4f	1176.1	1234.67	1139.8	1127.3	1324	1127	1242	1108.15
316122	Abhd5	873	785	810	787	716	868	901	856
679383	Sepsecs	307	289	290	287	264	288	313	339
84509	Ran	4116.9	4013	3847	3618.8	3979	3942	4123	3964
171366	Ppp4c	637	601	676	545	672	643	623	586
246254	Gpsml	744	665	701	651	653	768	708	705
50689	Mapk3	15847	16587	15667	14752	16387	16128	16039	15961
287661	Cisd3	701	633	600	637	626	647	628	738
300721	Dnaj4	1911	1885	1771	1975	1935	1805	2018	1984
687696	Stambpl1	597	623	598	591	628	626	600	619
363123	Rab6b	22332	22822	21334	23879	24472	23549	22618	22131
297900	Pef1	1282	1413	1300	1194	1403	1322	1309	1293
360826	Hscb	244	224	212	184	213	218	231	225
114613	Slc5a5	65.65	63.39	51.9	84.07	68.7	76.42	52.53	74.42
292485	Fuca2	562	531	495	476	515	531	533	540
309434	Hiflan	320	341	301	351	360	312	336	340
308836	Kctd14	84	49	50	42	65	46	51	69
360972	Thoc5	711	729	727	683	718	742	716	750
498888	Siglec15	23	19	18	15	21	22	18	16
292624	Nop53	1360	1194	1188	1167	1313	1210	1251	1266
246246	Pnpla7	305	323.34	314.68	367	373	342	286	344
367314	Lrrfip1	1059	1219	1069	1143	1158	1254	1169	1029
299310	Ndufb11	1296	1143	1053	914	1072	1113	1143	1196
60356	Csad	586.6	653.35	619.83	567.23	572.3	662	606.4	651.29
103694866	LOC103694866	733.65	580.59	757.85	248.94	361.4	1099	534.8	388.21
498957	Klhl36	113	96	81	83	90	95	97	101
309674	Rrp1	672	779	691	617	694	704	762	673
292413	Fpr3	0.98	0	1	1	1	0	1	1.06
681062	Slbp	484	505	525	421	485	483	531	488
303693	Mgat5b	223	254	260	229	248	261	243	240
685699	LOC685699	11	10.82	11	11	8	11	17	9
361402	Prmt7	349	377	375	310	353	348	344	404
315136	Cbx6	4806	5057	4733	4971	5326	4907	4891	4970
316435	Cyp20a1	409	390	400	397	405	421	379	434.01

29421	Urod	1021	998	871	855	899	1010	938	999
293620	Ptdss2	1193	1217	1093	1206	1168	1233	1137	1298
498278	Cfap126	68	68	59	64	64	73	61	68
691069	Pkd112	12	14	4	7	5	6	16	11
79107	Duox2	52.13	83.69	58.25	83.01	68.01	70.72	71.27	74.57
362441	Itfg2	221	213	212	204	207	227	224	215
363219	Mitd1	182	201	217	176	185	200	216	196
24611	Gnal	4439	4312	3965	4084	4490	4116	4219	4430
498606	Kxd1	826	868	893	732	760	840	906	903
295928	Slc39a13	879	828	815	792	784	937	837	846
117107	Zbtb7a	1978.3	2035.41	2020.6	2207	2283	2169	2002	2011.62
688634	Kat6b	524	461	481.99	558	522	495.1	497	566
360746	Ppil2	704	713	664	675	682	726	692	731
58827	Mest	912	942	836	1021	939	984	932	957
25392	Atp5if1	3456	2996	2964	2525	3136	2860	2882	3388
313231	Alg2	3021	3141	3013	2984	3199	3187	3135	2969
361613	Ppme1	2874	2799	2743	2856	2891	2945	2903	2840
683955	Flvcr1	80	74	103	110	108	89	92	88
361879	Wdr41	583	593	556	580	602	568	588	617
309681	Cfap410	1005	1078	901	979	922	1019	1002	1128
84478	Ufd1	1410	1373	1337	1306	1288	1409	1514	1363
65096	Adgrl1	2010	2059	1913	2258	2314	2202	2134	1815
306091	Pcdh9	1429	1313	1235	1549	1376	1440	1523	1338
367903	Armex2	2542	2351	2397	2443	2574	2506	2463	2456
25075	Htr1b	160	159	171	168	190	163	182	141
102556031	Coa6	308.97	277.52	265.14	193.44	329.7	230.9	235.1	277.91
114591	Dpp3	2142	2137	2167	2137	2260	2298	2090	2170
682058	Nom1	479.03	414.56	458.72	486.43	457	461.2	474.9	496.04
294504	Ppa1	2610	2523	2198	2256	2388	2363	2511	2588
296350	Serinc3	7350	7234	6748	7172	7545	6841	7685	7215
363103	Slc17a5	466	460	482	523.02	553	493	483	455
252881	Exoc3	1093.8	1082.55	1058.4	1029.6	1127	1052	1143	1058.38
497921	Slc47a2	86	51	61	57	68	66	54	74
502782	Pigy	881	1005	795	669	768	782	973	919
314655	Adamts10	746	529	594	607	631	580	656	677
306182	Ipo5	2663	2759	2593	2762	2723	2787	2877	2686
362533	Tle1	930.56	988.01	976.07	966.25	1021	1021	972.1	953.04
294783	Wdr70	290.09	335.17	292.87	338.45	330.5	331.1	338.4	291.22
304900	Astn1	1490	1514	1527	1594	1676	1584	1548	1486
303076	Surf6	320	276	312	288	295	322	308	304
293500	Pagr1	645.57	519.02	550.1	563.69	582.3	579	563.6	616.35
298646	Agtrap	370.54	360.01	401.15	323.85	378.2	366.4	369	382.16
102557368	LOC102557368	14.08	4.04	9.03	0	7.73	3.1	4.31	12.76
100233213	Insyn2	147.99	194.04	132.01	130.27	187	153	144	137.02
171454	Nacc1	2351	2481	2375	2407	2460	2533	2457	2430
310746	Ap4b1	558	518	556	499	519	557	605	509
313742	Phf13	171	157	163	195	167	182	173	183
306261	Eaf1	1125.8	1160.57	1125	1190.8	1307	1137	1188	1097.43
300445	Prkcsb	1985.6	1943.01	2053.6	1917	1920	2163	1992	2043.7
308913	Egln1	890.4	893.39	914.65	880.9	852.2	1056	868.6	902.22
361531	Paf1	763	748	825	761	759	839	761	824
498024	Kctd2	614	603	595	563	604	613	592	632
266713	Mnat1	491	470	476	505	485	502	522	487
314329	Irf2bpl	648.12	595.52	754.18	737	688.5	756.8	677	688.59
362952	Eif3d	921	982	940	870	970	908	1007	931.31
103689948	LOC103689948	7.78	12.36	7.06	6.89	9.13	8.95	5.64	11.32

24465	Hprt1	787.01	844.41	908.54	631.01	822.2	714.7	894.9	827.61
83782	Nme2	3226	2958	2906	2468	2891	2766	2915	3309
361774	Fam160b1	706	732	746	785	743	765	749	795
361801	Rxbp1	797.29	775.36	771.32	701.45	825	801.2	752.1	752.34
304023	St3gal6	459	427	377	453	428	446	466	424
294014	Cnrm2	345	316	281	380	341	376	351	291
79240	Nr4a1	951	1038	1069	1978	1251	1586	1397	943
108348229	LOC108348229	260.29	229.83	284.86	327.33	265.6	271.3	289.5	306.82
363272	Pde6d	956	935	982	835	915	934	971	992
360821	Gatc	1311.6	1322.62	1344.3	1308.8	1296	1328	1396	1414.74
501167	Gmppa	441	393	406	399	407	438	391	449
305438	Sorcs2	1376	1652	1959	1671	1621	1879	1727	1618
360801	Ncor2	4030	4635.97	4921.9	5385.8	4846	5240	4672	4749.01
689955	LOC689955	31549	29827	27501	28527	30104	30048	30150	30406.75
362791	Sival	148	132	143	110	121	133	134	160
502643	Ypel4	399	420	406	408	412	428	450	389
306969	Hist1h2bf	3.22	1.01	0	2.14	2.56	1.56	1.01	1.42
100360757	Ctcf1	49	54	38	71	55	59	60	44
304761	Zranb3	220.1	181.27	185.99	176.09	211.6	175.9	162.3	235.36
301512	Aamp	1785.8	1754.39	1792.4	1666.1	1726	1773	1907	1791.71
301252	Hsp90ab1	35722	37319.3	34887	39994	39078	38778	38170	36090.06
684035	Rnpepl1	717	753	839	687	638	849	747	847
362590	Inpp5b	672.4	620.02	609.19	707.62	661.1	589.7	788	644.44
691799	I117d	314	277	246	255	282	253	278	310
297383	Rtkn	1289.3	1292.1	1113.3	1151.6	1198	1308	1223	1254.88
303499	Sp2	372	414	419	449	441	449	415	396
64371	Prdx3	1625	1592	1406	1314	1427	1482	1646	1551
292007	Dhx38	375	437	466	443	439	437	439	455
362438	Ncapd2	193.4	213	216.39	192	225	235	196	182
25061	Crabp1	123	90	84	89	123	90	88	96
60323	Arhgef1	1062	1105	1180	1072	1117	1168	1215	1045
689054	Lin28b	83.71	84.84	62.85	73.89	93.07	61.69	90.03	69.21
170929	Bcl2a1	19	21	18	12	18	15	19	20
246331	Nrpl	984	887	1043	1004	960	987	1044	1039
171432	Tmem14c	1614	1429	1388	1199	1410	1476	1457	1448
308765	Arpin	211	225	199	204	211	188	228	236
319113	Yrdc	246	249	223	225	241	255	243	231
306945	Hist1h2bh	1483.8	1390.18	1295.1	1380.3	1412	1492	1393	1411.9
100910596	LOC100910596	56	42	46	65	64	47	38	66
498402	Ascc2	260	221	259	270	245	247	288	259
306257	Bap1	2788	2642	2656	2603	2831	2701	2747	2717
100362346	Mta3	1256	1268	1239	1315.8	1358	1304	1301	1261.88
363989	Phlda3	1697	1530.14	1720.8	1512.6	1456	1824	1645	1721.51
170897	Sphk1	449	389	364	326	415	409	359	389
313030	Ppp1r8	495	473	484	423	500	479	493	457
290657	Klhl26	541.85	442.39	600.27	504.43	583	564.1	471.3	530.69
301460	Adam23	12677	12645	10960	12523	13174	13297	13857	9884
81730	Fez1	5815	5638	5209	4801	5491	5497	5445	5649
305386	Tapt1	591	551	545	565	565	574	597	581
114495	Map2k6	214	230	200	221	218	222	239	211
293455	Gga2	787	905.9	880.25	816.83	900.8	883.6	873.8	829.73
362622	Cep85	388	457	415.97	411.66	440	460	452	369
687183	Kril	450.62	457.73	489.97	438.54	466.6	467.3	494.2	461.93
311187	Pacsin3	339	446	413	358	366	461	411	363
293152	Art2b	2.9	5.56	11.65	6.16	7.7	5.95	2.11	11.27
24206	Apeh	1280	1216	1168	1104	1227	1288	1184	1207

83474	Tfam	254	293	306	252	254	283	282	318
363061	Sdhd	1437	1388	1290	1235	1283	1422	1395	1405
100302465	LOC100302465	19	16	17	17	25	15	14	17
65272	Kcnk10	182	162	209.26	214	210.5	195	193	191
296649	Rabepk	407	384	339	385	384	382	393	400
303190	Atpaf2	259	271	224	210	231	247	257	257
102546809	Smim35	85	81	62	116	81	97	106	70
290995	Preli1	2223	2110	2117	1735	2084	2196	2095	2048
500400	Fam110b	585.07	582.18	591	559.01	568.6	612.1	592.1	611.87
289753	Rhbdd3	345	373	380	344	374	383	365	362
314917	Pkhd111	42	18	26	17	20	36	26	24
303660	Btdb17	9	9	8	9	6.4	6.73	12.43	10.46
316241	Nfkbie	342	348	326	322	357	317	357	346
363595	Tcf7	70	65	70	69	84	76	54.99	67
29757	Atp6v0a1	6131	6379	6067	6491	6490	6763	6409	6137
362776	Glrx5	989	927	871	740	961	864	886	919
293692	Ehd1	1609	1818	1924	1858	1983	1912	1901	1624
287444	Eif5a	7717.2	7499.83	7355.4	6104.4	7159	7324	7491	7542.23
103691033	LOC103691033	187	201	140	155	144	182	197	180
314788	RGD1307947	309.77	295.31	286.29	290.63	298	279.9	319.3	319.43
100360334	Fhod3	1110	1225	1184	1293	1225	1245	1204	1279
303659	Kif19	1250	1517	1631	1299	1262	1525	1563	1514.54
304558	Ttc28	539	458	546	536	553	539	540	508
100362470	Mrtfb	26	27.95	39	45	35	32	44	31
306564	Htra4	802.72	781.63	770.42	827.57	843.1	843.2	866.9	722.63
361190	Usp19	2016	2005	2013	1991	2099	2167	2127	1868
292640	Vtal	1091	1001	989	931	991	1072	1016	1051
29602	Ptgfrn	943	1081	1256	1242	1110	1191	1324	1030
291906	Aktip	2134	2170	2090	2022	2155	2208	2179	2122
83583	Rabac1	3047	3045	2835	2441	3060	2898	2740	3005
100911699	LOC100911699	3.27	0	12	0	0	0	6.37	9.35
58851	Nr1h2	1578	1572	1561	1427	1539	1619	1524	1637
102555038	LOC102555038	21.14	26.62	21.01	13.29	21.85	22.07	23.56	17
94271	Atp5pf	2295.3	2156.68	2088.8	1805.7	2041	2022	2171	2358.94
313644	Raplgap	3030	2701	2908	2336	2831	2835	3206	2427
367172	Dhx30	1409	1492	1399	1326	1480	1548	1419	1345.16
306594	McpH1	116	121	102	134	122	110	133	122
170914	Nap113	1202	1152.3	1044.8	1225	1243	1140	1186	1192
307366	Malt1	168.06	137.66	146.31	156.61	156.5	148.6	168.1	153.42
296162	DdrGk1	1087	1029	1043	993	1111	1051	1040	1073
641434	Atp5pd	2696	2691	2425	2141	2404	2361	2622	2861
302593	Tceal1	390	363	336	361	359	322	402	410
296639	Ciz1	794	785	807	846	820	870	786	852
100360501	Rnh1	1519	1433	1438	1229	1335	1495	1432	1524
294508	PalD1	474	465.99	456.06	418	508	490	427	443
293128	Nars2	193	204	171	205	205	187	213	191
100912582	LOC100912582	100.27	114.57	85.35	114.2	92.24	72.43	158.8	103.28
84489	Fgfr3	49	35	40	44	35	66	27	45
140662	Rplp2	2165.4	2004.74	2211.4	1768.7	1986	2090	1897	2419.06
310348	Larplb	1034	1037	930	959	995	999	1041	1043
300089	Pmm1	2127	2094	1847	1818	2032	2113	2012	1964
140720	BaalC	439.52	466.28	526.75	415.05	485.1	495.2	447.1	475.28
363332	Ubxn6	1096	1099	1026	934	1105	1039	1090	1045
246311	Pdp2	159	148	136	160	156	153	157	155
361836	Slc25a16	925.07	960.74	871.44	946.04	990.6	981.6	984.7	857.01
498159	Spry3	386	443	412	464	452	438	430	435.95

29640	Dpm2	388	371	343	303	373	333	332	409
25488	Ndufa5	1257	1249	993	1045	1113	1071	1189	1307
311427	Hspa12b	630	586	536	552	604	627	604	538
307861	Terf2ip	972	1011	940	879	946	974	990	1006
361107	Actr8	772	739	731	659	776	758	747	707
289397	Kif21b	743	904	725	1162	911	970	998	761
296564	Fut7	46	39	69	46	50	56	49	51
25591	Parp1	1753	1934	1860	1917	1982	2020	1929	1757
108348076	NEWGENE_1308105	529.75	576.45	611.59	654.32	612.4	598.4	642.6	590.02
619558	Fam134b	896.89	1199.64	1457.9	1283.7	1005	1269	1456	1253.07
315992	Dock3	1426	1524	1254	1680	1602	1502	1602	1355
498972	Cpne2	963	884	835	908	1001	854	872	971
362385	Pole4	579	533	556	425	508	516	545	587
100910792	LOC100910792	2075	2113.39	1873.3	2055.2	2007	2200	2124	2030.21
58822	Csnkle	1001.1	981.23	1034	1063	1121	1038	1034	1009.17
24697	Ptpn1	209	238	292	221	229	274	245	241
691135	LOC691135	89.93	98.34	86.22	92.27	77.68	88.66	115.9	95.64
29565	Eef2	18606	19722	19556	18802	19697	20643	19527	19136
298933	Rnaseh1	145	131	118	102	122	129	136	124
64060	Vps33b	333	380	316	293	321	350	387	304
259275	Ostf1	3518	3322	3069	2846	3122	3076	3392	3551
360971	Nipsnap1	1536	1531	1500	1545	1544	1625	1619	1509
293456	Cog7	558.35	540.85	572.92	550.09	554.8	605.2	592	537.49
309280	Plxna3	1292.5	1319.4	1325.7	1395	1444	1330	1422	1297.22
303298	Raplgap2	2883.7	2742.04	2648.6	2977.7	3086	2829	2995	2683.09
302325	Sat11	8	8	10	7	9	9	12	4
313050	Lck	31	26	26	16	26	19	29	28
303259	Mink1	4927	4746.18	4482.1	4884.4	5069	4871	4786	4890
245925	Phrf1	866	876	925	957	955	905	935	939
297720	Casc1	176.02	177.46	170.08	185.04	179	169	195.1	187.08
298203	Stoml2	859	869	786	813	817	885	902	824
303350	Rnf135	110.49	82.42	123.86	108.41	91.95	110.7	93.83	141.65
295161	Fhdcl	540	548	509	642	583	586	558	580
290614	Cherp	708.91	671.8	763.23	727.41	719.9	804.5	696.1	738.1
306804	Iars	2372.9	2379.14	2268.2	2740.3	2480	2680	2495	2402.78
311802	Ssna1	586	508	523	422	531	514	511	545
114087	Banf1	789	736	811	721	748	771	749	882
360531	Sap301	1405	1305	1324	1322	1617	1403	1306	1193
293722	B3gat3	3090	2869	2839	2795	3283	2932	2897	2834
303248	Neurl4	1110	1140	1138	1235	1208	1237	1168	1151
100361928	Tmem198	224	203	188	204	215	195	234	200
64120	Kcnk13	31	31	35	34	30	32	41	32
100362255	Adgrv1	215	206	216	247	279	181	223	228
81528	Ogg1	191.1	228.64	230	188.19	197.3	206.2	234.1	226
313977	Lpin1	2119	2251	2079	2282	2336	2290	2236	2136
498814	Mtcp1	36	34.48	21.16	25.7	27	39.56	29.44	24.93
65025	Rims3	563	531	583	578	673	564	523	564
313450	Rnf113a1	96.98	78	86	33.39	82	90	90	41.38
680476	Bloc1s3	211	204	183	186	209	189	215	195
102546764	LOC102546764	308.75	280.03	284.22	249.37	304.7	263.3	276.6	312.14
292658	Prkd2	107	101	124	92	119	115	121	82
305441	Sh3tc1	38	40	53	32	37	51	43	37
63864	Hsd17b10	850	886	782	773	774	801	872	945
29163	Cdh9	184	185	196	217	186	202	207	211
117262	Psmc4	1926	1858	1956	1743	1886	1952	1907	1968
301563	Mff	2711.2	2402.72	2410.8	2251.1	2460	2431	2776	2409.51

301221	Mocs1	269	261	259	282	285	277	258	284
302562	Plp2	1064.7	992.83	1080.7	850.09	955.4	1039	1019	1098.52
683077	Pja1	3583	3547	3437	3643	3624	3605	3764	3655
299569	Akap81	1005	933	949	907	985	1003	1007	916
245961	Dmgdh	102	100	91	96	105	82	108	106
314704	Hcfc2	242	225	216	257	244	220	249	256
679811	LOC679811	1035	1091	1037	1082	1155	1087	1094	1040
293056	Cpeb1	2390	2516	2291	2446	2515	2667	2400	2359
303372	Nle1	134	98	125	96	131	140	98	98
24215	Atp2b2	1999	2115	1856	2695	2219	2549	2140	2025
78958	Bcam	7126	6754	6950	6456	7566	7055	6839	6670
81649	Mapk14	1001	1015	1051	1004	1040	1086	1091	980
298712	Gpalpp1	216	244	216	195	232	208	218	240
65031	Doc2a	359.32	303.36	280.55	346	327	346.5	340.3	315.42
307579	Zfp521	572	492	413	521	499	540	546	475
680309	Snrpd2	790	670	654	595	692	647	730	724.07
290396	Diaph3	129	100	160	94	130	105	139	124
291709	Slc25a46	2080.2	1928.5	1775.1	1867.5	2000	1911	2007	1970.93
315599	Nlr1	221	399	537	388	530	400	407	256
58853	Nr4a3	22	25.02	33	102.31	33	43	82	30
103694872	LOC103694872	1145.8	1081.54	888.79	1360	1242	1124	1178	1070.83
303306	Srr	305.46	325.17	291.73	288.89	313	285.8	306.7	343.59
100363361	LOC100363361	429	444	463	430	478	450	447	446
294930	Nceh1	876	881	753	924	857	889	940	855
311245	Traf6	82	73	88	110	98	87	98	81
300968	Uba5	1004	978	870	900	891	957	1003	1018
313699	RGD1305350	973	1036	1095	968	1087	1074	996	1042
257647	Slc35a4	1191	1201	1180	1108	1160	1236	1213	1217
29134	Axin2	150	147	145	167	140	153	150	185
117251	Dnah9	39	48	30	43	52	32	44	37
170668	Rasgrp4	18	20	39	19	25	33	20	21
310727	Cd101	13	18	20	13	17	20	16	13
362502	Ubap1	898	885	929	870	947	918	906	923
252962	Phtf1	1574.5	1585.01	1509.4	1462.8	1608	1537	1669	1509.57
689432	Mrps21	695	617	652	482	580	577.6	625	740
102555298	Wdr90	119	123	131	105	134	127	116	115.99
54292	Rgs12	334	314	335	300.74	325	344	370	285
309447	Ldb1	1054	1112	1037	974	1096	1097	1102	1013
360658	Gga3	1132	1093.52	1144.5	1211.3	1252	1248	1108	1116.84
54398	Ppt2	569	521	552	491	542	601	516	541
291352	Gpr158	4143	3818	4079	4532	4499	4295	4464	3835
25284	Amacr	248	261	245	232	227	236	301	253
29153	Capn1	2725	2991.65	3036.4	2978.1	3210	3112	2992	2785.65
362641	Minos1	1102	994	1040	947	1090	970.3	1019	1132
29666	Psmb6	2655	2661	2374	2136.5	2475	2339	2519	2803
296131	Fahd2a	407	338	337	347	340	369	368	397
499689	Gstm4	491.29	515.23	552.36	459.04	521.6	520.9	539.3	499.72
406230	Rpp21	285	258	238	203	258	237	237	283
56611	Anxa2	19901	19116	19579	17435	19264	19479	19403	20281
100190936	Rnf123	1684.3	1736.99	1653.9	1677.8	1761	1839	1743	1623.7
311791	Zmynd19	202.73	207.12	181.13	195.52	233.3	183.5	178.3	216.29
292597	Ttyh1	5094	4980	4765	5221	5079	5208	5448	4958
24522	Zfp354a	95.9	96.93	84.56	80.69	90.44	86.58	99.39	92.97
685131	Meal	1608.6	1532.64	1513.3	1354.9	1514	1536	1542	1607.62
365176	Zfp787	205	177	179	167	180	207	175	189
500331	LOC500331	496.67	428.49	408.19	539.46	581	432	516	403

24596	Ngfr	12809	12909.2	15951	13940	15282	14428	14353	13306.96
29477	Mapt	8347.1	8768.83	8434.9	10059	9895	9414	8997	8429.79
294207	Ppplr11	1935.9	1896.99	1800.9	1774.9	1812	1967	1930	1934.91
103693432	Ptges31	59.79	53.11	59.13	39.96	75.62	58.42	38.43	46.25
60568	Syt11	20620	20889	19598	21291	22093	21109	21458	20354
684352	Twf2	378	328	322	293	346	356	327	334
296864	Zc3h12b	47	32	31	47	42	36	45	39
499209	Kctd21	206	203	168	208	186	214	177	233
300521	Tbrg1	774	779	719	676	723	793	779	747
689574	LOC689574	941	1006	928	880	951	950	955	1019
293181	Galnt18	1181	1129	1039	1031	1154	1112	1064	1190
679126	Zcchc18	3169.6	3099.24	2966	2825.3	2971	3012	3284	3178.62
291966	Tppp3	16098	15633	16204	14712	16364	15401	16016	16869
246185	Dus11	307	325	332	316	317	367	305	332
292788	Psenen	1102	1137	1164	905	1070	1036	1124	1216
303000	Capn15	571	564	576	599	613	592	612	567
140657	Faf1	921	959	913	854	932	937	979	916
360631	Mlx	1089	1043	885	971	1007	982	1042	1085
687633	Ube3b	3148	3225	3054	3243	3477	3350	3151	3099
171435	Aagab	1026.5	941.28	884.97	856.19	963.5	897.3	953.9	1013.62
78975	Prkaa2	955.99	1008.96	951.15	1002	1025	950.2	1017	1051.99
498967	RGD1559896	1614	2084	1715	1857	2025	2069	1622	1788
362528	Fkbp15	859.32	969.31	916.8	1009.9	966.2	1037	956	917
29202	Epha6	128	149	141	172	184	134	108	183
295324	Ttf2	201	240	251	239	236	227	262	236
361207	Tmed9	1138	1140	1175	1046	1084	1194	1199	1167
312301	Zfp956	140.93	140.92	125.7	144.4	146.8	132	162.9	128
289036	Adipor1	3986	4044	4080	3893	4073	4117	4139	4190
302540	Lancl3	65	85	46	83	85	48	59	96
311496	Cfap61	27	24	18	24	26	25	25	20
291171	Trim27	623	552	595	551	581	607	621	587
287535	Vps53	1669	1614	1567	1549	1643	1645	1678	1640
361800	Stk19	180	159	157	122	156	163	154	165
685620	Tomm7	1152	986	999	847	1007	941	991	1174
81859	Sharpin	998	1029	949	946	947	1107	965	1030
294762	Parp8	727	688	661	734	750	713	797	641
316212	Prickle4	111	112	105	135	120	114	116	128
297357	Ctnna2	2113	2113.98	1980	2137	2090	2139	2265	2120.97
295629	Cd302	368	321	307	298	284	347	338	367
299208	Tt115	956	913	876	980	1023	956	975	892
291394	Cndp2	1670	1767	1773	1651	1743	1783	1737	1821
65201	Clip1	1281	1400	1311	1448	1406	1425	1435	1351
688912	Mrps16	353	368	310	320	337	333	342	383
314465	Ppplr13b	838	801	840	959	917	935	860	838
362172	Trim44	468	465	393	577	564	464	465	472
287069	Trap1	1582	1509	1447	1507	1504	1617	1616	1505
362946	MGC94207	726	721	581	610	666	671	700	687
60341	Camkk1	988	974	918	949	1061	962	1014	917
64351	Ykt6	1599	1623	1646	1557	1602	1601	1710	1722
501281	Ranbp3	1008	883	977	895	945	1013	966	962
300025	Ly6h	54	53	60	47	46	49	63	63
292751	Med29	520	500	499	376	535	489	460	473
360891	Enah	2209.2	2415.87	2052	2804.3	2585	2307	2494	2405.8
305792	Kctd6	456.11	424	413.01	442	448.1	428	473	442.93
305984	Cdca2	25	27	44	26	35	38	26	27
684233	Rbm15	74	95	66	70	66	80	77	92

361840	Spock2	22545	22799.6	21246	25923	26525	23494	23830	21696.67
289859	Cfap36	2032	1932	1772	1947	1879	1910	2019	2127
29599	Atp2b3	2198.3	2367.38	1935.2	2609.8	2524	2358	2374	2153.53
294674	Enc1	168	180	174	209	189	193	209	164
497978	Dgke	1026.9	918.34	934.62	967	1082	974.5	994.5	921.82
192241	Atp5po	2945	2951	2659	2277	2697	2597	2825	3069
500394	Sntg1	28.01	27.04	17	18	24	19	21	29.01
288772	Spryd4	166	168	192	143	169	157	180	185
25084	Il4r	213	229	292	208	233	272	278	190
100911970	Mipol1	155.55	172.99	157	154.19	151.7	185.2	151.4	172.48
312246	RGD1306271	229.22	221.28	242.76	357.33	305.3	239.9	292.4	247.6
361370	Tom1	1266	1282	1241	1253	1284	1345	1219	1360
289950	Pdhh	2744	2798	2399	2475	2572	2587	2837	2763
500711	Ppp4r4	453	426	361	490	488	428	478	393
304555	Hps4	495.66	483.23	519.17	499.26	479.7	537	555.8	490.58
361025	Txndc16	515	496	476	484	446	517	520	553
314380	Tdp1	126	125	108	126	112	140	113	136
362812	Slc39a5	516	473	565	474	513	561	528	493
299202	Rps6k11	483.61	385	434	431.63	491.6	411	456.7	432.25
361825	Smarcb1	838.72	967.33	907.81	905.34	879.4	980.5	940.6	938.32
25620	Crem	256.11	280.12	270.61	265.4	247.1	268	306.6	286
64204	Plec	8374.5	9844.91	11167	11033	10753	12065	9632	9307.32
363289	Mterf4	287	242	225	183	268	225	233	242
171093	Shank2	683.69	746.9	700.75	900.86	802.2	749.1	788.9	792.24
108351182	LOC108351182	88	97	115	123	140	94	98	105
307973	Def8	617.09	562	578.16	504.73	608.3	616	559.6	553
363015	Endod1	10348	10323	9706	11123	10468	11248	10992	10167
360618	Ormdl3	942	802	911	876	911	938	894	905
364050	Dcaf8	1450	1467	1412	1525	1484	1519	1542	1503
296478	Zgpat	308	233	260	285	293	255	301	273
315904	Paqr9	387	403	363	476	494	374	465	350
407784	Rnf5	1205	1222	1162	1112	1271	1132	1175	1279
303734	Tbcd1d16	316	333	294	322	384	324	309	290
303002	Rab11fip3	1838	1790	1699	1810	1911	1914	1783	1766
500900	Lrrc14	294	307	317	256	316	305	312	280
103692002	LOC103692002	360	310	296	358	405	326	331	306
192126	Dab2ip	1989	1985	2042	2108	2217	2124	2018	2035
315287	Asb8	1175	1217	1161	1170	1230	1223	1237	1190
157074	Sdha	3814	3827	3437	3714	3764	3833	3854	3833
303902	Dirc2	967	968	914	969	960	1045	942	998
500546	RGD1560436	98.2	83.23	91.66	76.17	74.55	92.97	98.14	95.22
85493	Abcf1	1661	1600	1646	1584	1721	1755	1612	1619
170670	Hadha	3552	3704	3409	3542	3657	3649	3621	3753
679127	Rrp12	437	516	520	538	567	585	499	427
25557	Star	10	5	4	11	8	6	9	8
312641	Fancd2	83	90	97	60	75	83	92	91
85494	Tpral	439	458	441	402	408	453	483	454
295923	Ndufs3	1422.9	1281.99	1147	1156	1310	1268	1315	1281.9
246771	Slc25a25	1523	1529	1267	1557	1584	1494	1617	1377
689161	Gabarapl1	13675	13468	11657	12428	13402	12891	13414	13230
499474	Ostml	771	771	791	752	855	780	765	788
294385	Supv311	480	482	420	445	428	503	485	472
102547612	LOC102547612	13.38	6.29	3.4	2.34	7.19	8.67	5.17	5.23
499913	Abhd12	4939	4796	4072	3919	4335	4663	4733	4588
65041	Clpb	548	569	507	588	610	560	577	539
691026	Aspscr1	994	941	976	825	955	963	959	984

308134	Tmem35a	2263	2140	2004	2046	2134	2111	2212	2279
360034	Myrip	282.66	283.81	257.94	260.83	298.9	310.9	269.9	241.94
361984	Ubp21	2397	2604	2672	2920	2731	2904	2687	2626
259229	Ppmlg	924	920	949	936	943	998	954	959
288671	Anapc5	3874	4084	4205	3498	4132	4042	3888	4124
192349	Caly	365	507	395	462	537	425	428	397
65052	Pik3c3	1088	1125	951	1158	1143	1088	1133	1103
303567	Tmub2	1251	1286.92	1203.5	1185.2	1273	1315	1220	1283.56
298771	Prepl	5545.2	5598.75	5464.3	6310.7	6195	6188	5893	5412.6
313705	Disp3	204	246	231	212	277	255	203	188
116808	Pcdh12	54	45	65	74	54	62	58	72
498963	Spata2L	185	208	195	185	220	189	184	206
304334	Fam20c	944	1004	903	984	968	1049	976	971
311692	Fam217b	365	397	367	387	435	398	353	381
305203	Paqr3	554.71	511.43	529.7	501.68	529.8	565	557.2	516.13
688047	Lyc2	57.23	38.7	54.17	72.41	41.81	46.81	57.99	83.39
192362	Lamc2	73	64	61	69	57	87	68	64
103694903	LOC103694903	601.64	619.43	577.37	565.58	560.4	567.1	647.9	668.34
170566	Slc16a10	68.59	42.06	50.98	37.49	70.39	55.39	47.17	32.9
309111	Slc25a22	922.21	1002.05	916.04	1043.9	1026	1052	947.5	990.42
29525	Pitpna	4622	4736	4387	4596	4748	4675	4805	4733
361423	Fam92b	31.53	43.99	31.09	43.37	48.06	40.93	37.94	28.12
687346	Brap	1736	1856	1819	1746	1880	1924	1849	1746
364064	Pycr2	279	267	265	224	270	264	262	274
293485	Cln3	340	335	291	335	317	352	304	372
290635	Mvb12a	903	856	848	819	820	891	891	940
300286	Lhfp11	489	477	406	576	547	452	530	485
112400	Nrg1	3260.6	3261.34	3076.3	3591.2	3329	3536	3418	3353.2
682445	Ccdc28b	71	58	58	49	59	65	50	70
29382	Ctbp1	3474	3451	3469	3173	3596	3679	3427	3325
308869	Lamtor1	1983	1848	1683	1707	1886	1865	1815	1900
25031	Plcb4	626.28	619.99	579.83	628.13	635.2	636.7	684.4	581.34
58983	Rabggta	479	449	414	480	456	492	441	495
288051	Umps	481	511	489	429	532	454	523	466
117038	Mt3	2852	2617	2248	2244	2439	2461	2387	3013
498356	Shisa3	310	218	197	362	262	199	287	376
25757	Cpt1a	2484	2642	2569	2637	2720	2731	2684	2549
474147	Mib2	690	777	752	686	733	802	734	735
102549397	LOC102549397	26.14	22.87	38.44	26.96	24.66	20.71	41.96	30.98
313749	Nphp4	237.59	249.83	237.33	245.19	229.2	267.5	246.4	260
361063	Entpd4	4157	4266	3564	3986	4234	4047	4345	3892
308337	Zfp865	143.76	121.36	133.6	113.69	117.4	142.6	129.6	140.21
362084	Rabl6	2417	2464	2324	2375	2622	2466	2440	2379
103689992	Rps911	1378	1233	1173.5	930	1104	1119	1310	1343
81772	Rps9	1378	1233	1173.5	930	1104	1119	1310	1343
289218	Ndufs2	3814.5	3992	3523.1	3533.7	3656	3866	3917	3932.9
83838	Ltbp3	1947.7	2175.17	2344.2	2449.4	2248	2427	2327	2219.82
25739	Pygb	11806	12614.9	11366	11818	11872	12271	13031	12058.9
315600	Vps11	2151	2184	1984	2096	2129	2304	2180	2090
294250	Prrc2a	5200	5921	5932	6315	6186	6412	5814	5756
686809	Exoc312	38	31	31	46	34	39	43	35
691849	Ccpghos	28	44	34	40	35	31	46	39
287727	Dhx8	717.71	752	762	752	782	784	774.9	745
312492	Dysf	2252	2338	2230	2573	2495	2632	2346	2242
366602	Tspan13	3115.6	2780.34	2794.1	2875.1	2888	3038	2917	3118.88
684961	Zmat4	60	56	54	63	62	56	59	64

304278	Ptcd1	268.68	303.25	278.52	271.62	274.2	268	326.7	291.71
83462	Dynlt1	402	415	426	329	361	399	432	434
501266	LOC501266	473.23	410.15	426.44	502.13	496.8	491.8	458.6	427.15
300191	Slc48a1	1724	1647	1658	1544	1562	1735	1705	1797
680883	Lrtm2	148.43	188.34	182.87	145.57	198.4	156.2	160	173.4
29622	Ralgs	1767.6	1587.41	1660	1454	1868	1742	1620	1462
288740	Iscu	3818	3951	3578	3234	3699	3856	3774	3754
361643	Lcmt1	664	663	597	543	611	601	674	666
25673	Anxa5	17823	17425	16502	16411	17098	17297	17484	18632
292082	Tcf25	7774.5	7577.6	7475.7	7619.2	8125	7914	7681	7777.62
100361092	Malrd1	19	10	12	17	11	9	22	18
100912347	LOC100912347	4	8	10	7	5	12	8	5
287533	Inpp5k	1024	999	984	995	1022	991	1066	1061
309145	RGD1311946	227	219	250	203	220	237	234	239
59116	Dbil5	4	12	8	5	9	8	8	5
691531	Rps28	1090	868	1065.8	731	970	915.6	849	1150
305235	Art3	2354	2307	2196	2193	2011	2473	2524	2355
360833	Kdsr	400	411	397	382	409	410	410	416
307180	Txndc15	1405	1410	1358	1368	1414	1390	1455	1474
108348178	NEWGENE_1309258	427.5	376.49	446.5	475.5	383.3	458.6	487.5	456.53
301067	Slc25a38	600	532	529	530	599	573	539	556
690164	Harbi1	287.08	273.49	293.57	286.87	329.2	247.6	293.7	310.06
311959	Abcf2	1707	1697	1609	1673	1706	1754	1751	1707
103690981	LOC103690981	0	1.44	0	0	1.49	0	0	0
304719	Ercc4	629.4	659.41	534.6	599.91	628.4	612	656.9	610.2
83519	Pex3	964	873	819	797	785	896	969	923
684828	LOC684828	34	14.88	24.94	34	28.22	24.67	21.9	36.78
687739	Naif1	94	90	89	72	89	91	88	89
500668	Ccdc175	161	141	127	146	146	133	160	156
25150	Fyn	1959	2227	2223	2187	2195	2385	2159	2156
288153	Hoxd4	239	189	216	208	221	227	220.6	213
64134	Xylt2	1016	1020	991	995	1037	1115	988	1022
292588	Ube2s	1664	1639	1565	1307	1551	1593	1590	1656
29336	Sigmar1	2345	2241	2170	2000	2336	2426	1979	2320
261738	Clrn1	405	342	264	337	361	325	349	360
25734	Hck	157	144	161	140	198	157	139	129
289217	Sdhc	1547	1600	1498	1337	1428	1591	1529	1643
64192	Qdpr	2413	2472	2607	2170	2477	2463	2488	2572
83586	Usf1	901	784	873	757	893	861	796	881
54312	Timm23	1438	1345	1322	1189	1297	1451	1370	1361
307868	Mon1b	926.72	925	856.95	854.94	941.8	924.6	941	880.93
293702	Fkbp2	995	910	924	882	969	906	905	1061
29693	Atp2a2	5462	5664.19	5487.1	6458.1	6026	6239	6166	5449
606294	Kif1bp	1740	1771	1618	1604	1692	1735	1817	1725
298573	Eif4g3	3147	3272	3252	3819	3573	3513	3620	3257
81727	Mvk	893	921	894	770	892	915	881	912
29416	Aadat	72	61	51	44	52	67	57	60
690848	Uqcr11	1598	1412	1470	1248	1389	1461	1403	1676
65206	Kcnn4	201	153.84	239.92	166.24	205	205	184.7	193
288557	Mospd3	379	348	366	330	337	428	385	323
300763	Lrrc49	3788	3793	2958	3633	3666	3615	3914	3475
311721	Zfp512b	661	730	710	655	703	711	736	703
679357	Irf2bp2	448	396	465	537	413	515	508	475
207126	Muc13	0	0	2.84	0	0	0	1.85	1.09
65043	Rpl14	3007.5	2799.89	2964.4	2382.8	2618	2968	2913	3048.84
296410	Rtfdc1	1472	1447	1427	1361	1491	1444	1493	1480

100362059	Ttc16	60	43.13	65	38.83	48.8	47.37	51.77	66.31
29271	Cf11	17821	17968	17362	16605	18040	17831	18819	17524
315135	Sun2	2754	2871	2807	2772	2898	3193	2737	2771
305291	Srd5a3	1258	1242	1286	1149	1209	1342	1306	1252
116656	Cdc123	1357	1193	1098	1145	1165	1192	1280	1325
24916	Rnf112	1081	953	1083	1023	1073	1069	1084	1060
313913	Zfp513	368	336	373	312	379	370	377	312
364298	Pip4p1	1247	1379	1284	1216	1344	1383	1285	1295
315166	Smdt1	1718	1655	1402	1306	1532	1542	1460	1762
295325	Igsf3	1689.8	1784.72	1858	2054.9	2043	1958	1891	1757.18
24434	Gusb	185	191	283	188	203	230	220	224
60660	Ppp2r2b	2664	2532	2327	2507	2585	2499	2817	2485
293476	Xpo6	1496.1	1531.63	1499	1593.6	1631	1684	1536	1487
171335	Cox8a	4012	3748	3625	3442	3909	3708	3660	4077
192229	Cep19	1028	968	896	934	1058	972	1026	906
652929	Cd99	1106	983	1067	947	1018	1102	988	1141
81817	Usf2	1236.6	1199.85	1334.7	1182.6	1315	1299	1225	1291.8
100361529	Rad9a	233.87	259.26	277.71	213.09	260.5	264.9	221.2	272.43
362704	Babam2	866.43	971.22	928.93	940.89	904.6	975.7	961.9	997.42
299618	Mknk2	1258	1135	1247	1130	1231	1410	1175	1124
298555	Grhl3	201	200	191	193	195	210	189	219
287731	Lsm12	969	1120	1034	1136	1133	1051	1099	1128
360652	Sdk2	368.73	402	477	569.41	430	529	446	477.06
306102	Bora	54	56	64	50	48	61	68	55
500567	LOC500567	4	7	10	7	3	9	8	9
291137	Gmn	128	126	116	106	121	114	130	128
685187	LOC685187	19.78	12.54	13.51	14.31	8.77	12.75	15.77	25
24460	Hoxc8	94.34	105.48	97.91	105.37	106.1	118.4	96.13	96.93
309629	Pfdn6	801	883	769	704	755	762	794	959
308999	Fbxl19	678	638	682	684	754	697	699	628
502776	Scrn1	5325	5717	5552	5528	5276	5670	6215	5753
287633	Lrrc59	2159.9	2446.86	2331.8	2308.9	2367	2446	2414	2352
297968	Akirin2	1043	1046	1108	1020	1064	1117	1129	1058
59267	Syt7	4646.6	4460.01	4200	4489	4927	4629	4418	4459
297797	Atp6v1h	2630	2544	2293	2194	2432	2302	2670	2603
24567	Mt1	176	187	147	160	201	184	155	154
361454	Ccdc28a	1137.1	1090.9	881.03	921.88	1037	989.8	1033	1115.93
29593	Ckmt1	5369	5440	4528	5354	5318	5585	5340	5190
500255	Eefsec	414	434	386	411	416	426	435	427
687118	Dedd2	482	464.99	449.99	442	485	485	488	446.98
81729	Rpl10a	2846	2582.03	2734.1	2203.4	2611	2525	2688	2913.91
690769	Znrf1	671	683	674	648	723	695	706	648
406165	Agpat1	2714.6	2913.81	2921.9	2685.2	2836	3128	2700	2975.47
309630	Zbtb22	585	621	672	602	683	644	641	601
302982	Eme2	481.1	475.74	415.35	466.12	472.4	506.5	464.7	460.72
298590	Klhdc7a	67.52	65.8	67.58	60.67	62.52	77.26	54.16	77.04
25217	Tapbp	391	389	485	514	485	490	470	398
297952	Gpr63	118.06	100.2	104.09	106.32	133.3	114.1	95.18	101.51
291974	Ripor1	1577	1618	1756	1910	1759	1896	1717	1736
25721	Got2	6792	6875	6107	6167	6533	7100	6763	6479
364686	Ranbp9	949	957	915	925	950	972	1034	925
293725	Eef1g	7445.5	7466.22	7285.5	6805.9	7419	7599	7514	7516.85
25035	Cyb5r3	6417.7	6012.72	5972.9	7363.7	7089	6375	6770	6462.55
316477	Smarc11	222	309.17	270	259.95	264	267	286	282.39
498131	N4bp211	117.11	100.67	118.98	94.31	106.7	97.09	113.9	128.9
25589	Kdr	388	338	310	433	346	381	373	422

360594	Mrps23	626	651	653	564	641	573	658	712
303922	Timmdc1	404.57	404.53	362.82	351.3	390.8	390.9	407.4	389.17
84583	Rgs2	150	161	148	150	163	156	163	149
501688	Lsm11	562.31	515.89	551.15	556.68	651.8	520.5	565.8	526.93
500679	Rad51b	29	18	19	17	23	17	24	22
690437	Catip	18.01	21.02	18	17	21.07	22.03	17.01	16.6
362840	R3hdm4	1274.2	1281.31	1421	1251.1	1386	1404	1272	1355.25
689639	Tdrd12	36	47	17	38	41	46	34	22
316425	Sgo2	5.92	7.2	16.89	5.31	13.36	8.69	8.61	5.94
362643	Emc1	1459	1521.63	1641.8	1783.7	1657	1820	1599	1562.56
362710	Agbl5	174.95	157.97	151.81	170.29	157.8	157.7	204	159.25
541462	Sprn	813	838	743	859	960	780	829	802
294260	Skiv21	934	973	1025	1092	1062	1088	1037	983
679068	Tsfm	311	297	279	243	316	274	302	279
288622	Zbed5	532.05	479.12	504.55	418.81	471.1	479.9	498.7	555.07
293733	Incenp	894.41	757.17	879.06	911.55	1024	867.9	883.2	791.82
299954	Ndufb9	2069	1992	1887	1762	1974	1885	1864	2267
361195	Cdc14b	205.66	168.71	216.61	230.1	225.3	173.7	212.8	239.18
364420	Tnfrsf10b	18	9	16	12	11	14	14	18
298576	Mull1	357.37	406.31	398.03	384.05	398.9	406.2	374.2	422.68
363441	Ndufa1	653.12	603.72	636.19	505.91	587.3	557.3	646.7	694.84
192648	Prokr1	204	227	191	284	263	246	226	204
290868	Qars	1339	1269	1372	1234	1289	1362	1447	1306
108348128	LOC108348128	47.79	58.32	48.42	39.72	43.94	67.27	45.18	44.94
688393	Gpn1	486	497	530	461	513	478	542	513
362652	Dnajc16	367	351	307	428	373	373	416	344
308983	Nfatc2ip	68	74	70	62	91	59	62	72
171140	Camk2g	5821.2	5312.46	5375.3	5879.2	6185	5818	6018	5184.99
366995	Tbca	1418	1383	1330	1176	1431	1289	1342	1439
311637	Slc35c2	684.31	603.48	504.32	470.53	621.2	641.8	494.1	588.29
56646	Lgals1	15363	14467	14102	12073	12775	14376	14204	16698
140547	Echs1	1048.1	956	870	867.07	945.2	1040	928	965.07
306009	Slc39a14	376.98	372.49	415.33	370	436.9	437.6	351.3	365.28
282546	Arid1b	857	818	927	1132	1055	973	995	848
81827	Psmc5	3418	3306	3145	2939	3206	3318	3434	3320
29338	Prdx2	8117	7729	7252	6729	7465	7516	7876	8065
499758	Tmem250	1221	1299	1203	1150	1259	1292	1232	1269
50665	Tmsb10	15017	13174	14618	12215	14893	13198	14046	14908
54395	Cr1f3	483	524	444	454	488	468	512	507
64312	Aplp2	10342	10767	9858	10728	11024	11210	10774	10220
308434	Zfp574	368	392	404	359	379	414	366	420
306575	Ckap2	31	33	72	27	46	45	53	25
100366017	Ube2e1	1107	1065	1036	1002	985	1144	1119	1117
497798	Lmo3	47	41	48	54	54	58	37	48
314969	Nop2	472	446	432	441	482	474	449	452
309686	Pofut2	678	666	677	663	698	716	726	643
81728	Ndufv2	2763	2665	2433	2278	2572	2498	2483	2960
499017	Syt13	325	316	392	348	366	388	362	316
292847	Ctuf1	111	114	124	111	111	118	116	132
296623	Miga2	1146	1248	1114	1118	1122	1290	1161	1224
64664	Arl3	1355.2	1253.72	1161.1	1124.1	1226	1220	1292	1336.78
362029	Ag1	2559.2	2499.69	2411.6	2657.4	2630	2733	2728	2412.5
316164	Satb1	791.95	782.38	767.22	800.95	832.2	896	801.6	728.97
317576	Ocrl	746	746	706	692	823	678	717	779
60347	Cep78	173	165	166	144	160	181	171	160
680844	Trem12	9	4	10	4	8	11	5	4

362287	Slc17a9	32	11	29	9	21.02	28	17.07	17.91
64829	Unc13a	1014	1117	1163	1241	1296	1168	1136	1103
288591	Tmem120a	616	661	615	564	644	664	624	615
297597	Ing4	607	552	528	499	558	529	576	604
291022	Ptpdc1	884	971	876	938	825	1032	1077	871
362111	Sh2d3c	572.26	530.95	545.63	494.6	548.6	571.4	561	542
245980	Nr2f6	518	538	559	459	537	507	555	552
313453	Tmem255a	5551	6079	5440	5822	5741	5724	5991	6286
103693266	Rsl1d1l11	537.69	542.09	473.78	459.94	502.1	463.1	605	518.17
302898	Rsl1d1	537.69	542.09	473.78	459.94	502.1	463.1	605	518.17
312670	Adipor2	1239.2	1229.35	1263.9	1170.8	1283	1276	1304	1222.25
684755	Zfp11	485.72	490.51	483	488.91	491	527	496.9	505.76
89818	Vamp5	56	43	54	35	52	63	43	37
246757	Klhl17	526	488	472	527	516	586	502	484
296301	Raly	2023	1968	2057	1895	2049	2158	2099	1933
29713	Kcnj5	129.01	79.45	92.03	104.02	109	94.95	92.61	123.02
100362172	LOC100362172	29.41	20.34	29.98	35.04	37.9	20.7	30.5	29.96
361771	Zdhhc6	436	425	430	394	402	460	461	425
499671	Lysmd1	283	263	220	223	236	255	287	248
302473	Slitrk4	509	425	387	523	573	379	478	483
362504	Dctn3	1865	1568	1457	1470	1719	1625	1544	1710
79239	Hmox2	1812	1714	1655	1605	1759	1806	1791	1684
63995	Dusp10	125	102	114	113	107	142	125	97
362454	Hebpl	159	159	167	129	140	181	150	166
291355	Prtfcd1	527	507	518	423	492	484	534	539
497900	Rmnd5b	376.33	343.47	377.64	312.64	375.8	370.2	358.6	358.33
297458	Ccdc174	201	174	197	175	197	185	196	197
29322	Plcb3	4159	4280	4271	4521	4845	4401	4138	4493
292072	Aprt	589	634	609	514	597	605	590	642
252961	Tank	423	363	443	397	416	385	413	473
64300	Mthfd1	535	594	514	586	574.2	581.5	627	530
680656	Fndc10	935	901	909	796	935	871	945	923
362216	Mrps26	428	408	416	372	352	430	460	443
288259	Gart	854	864	790.07	897	827	875	944	887
299186	Dpf3	44	29	27	33	38	32	35	33
684097	Snx3	3789	3756	3745	3552	3802	4040	3786	3772
289736	Morc2	483	497	538	555	525	543	593	490
500633	Greb1	102	104	77	142	109	129	120	83
691484	Eri2	97.9	115.71	124.67	86.03	101.9	108.5	104.6	125.33
689959	LOC689959	139	148	123	121	134	118	136	163
296761	Tmem60	430.87	446.75	393.73	338.5	375.8	383.9	429.9	480.9
313496	Ccdc107	1324.7	1256.08	1258	1205.8	1307	1284	1312	1331.32
288656	Arl6ip4	751	735	653	620	735	684	719	725
300177	Irak4	181.24	210.7	193.09	108.98	181.8	195.1	203.3	140.06
362414	Tada3	659	622	704	639	683	721	654	665
289752	Ewsr1	1011.5	1090.02	1026.9	793.05	1190	1140	1052	687.68
103690130	Hoxa3	59.65	44.16	49.66	49.01	48.51	57.58	52.49	51.54
108348320	LOC108348320	59.65	44.16	49.66	49.01	48.51	57.58	52.49	51.54
688394	Mab2111	79	60	94	85	75	80	106	69
361711	Dpf2	1789	1923	1788	1858	1881	1951	1893	1911
287208	Ttc1	2453	2376	2092	2050	2363	2219	2376	2352
360743	Med15	1025.4	1096.51	1173.4	1116	1222	1241	1040	1075.62
29425	Psmb5	2340	2200	1997	1820	2160	2110	2045	2358
117276	Pfkfb3	1975	2021	1795	2089	2197	2081	1963	1937
361443	Ntpcr	323	338	339	269	318	348	323	328
680266	Gnb11	104	98	88	80	93	93	107	91

687090	Tprg11	5227	5339	5074	4734	5249	5301	5134	5461
309252	Otud7a	653	619	528	630	732	573	612	605
689938	Ndufc1	544.85	566.18	513.22	466.06	515.2	518	588.2	548.12
287521	Mnt	930	941	900	899	998	970	907	934
299743	Mrpl42	789.81	775	692	655	739.7	710	739	833.42
300084	Rbx1	1499	1465	1398	1310	1481	1418	1464	1524
309586	Trim26	766	828.31	838.52	903.7	855.4	870.9	887.6	849.33
307404	Arsi	21	12	25	21	21	14	24	23
363278	Atg16l1	1043	990	951	910	1036	970	1036	1000
364900	Ctif	691	785	724	798	893	731	762	726
170587	Cs	2775	2912.28	2633	2872	2906	2952	2980	2780
502663	Serf2	3638.7	3447.15	3464.8	3121	3370	3387	3600	3835.05
303836	Bcl6	561	482	513	468	529	586	515	471
29376	Irs2	1230	1284	1337	1561	1392	1561	1362	1303
360638	Adam11	4191.4	3796.2	4151.3	4923.2	4400	4602	4468	4241.88
207117	Dnah8	33	28	27	17	26	22	30	31
29668	Psmal	2130	2007	1965	1769	2002	1923	2125	2121
94173	Idh3B	3471	3386	2948	2938	3180	3243	3327	3479
288529	Gjc3	144	159	140	160	145	164	157	160
302826	Frmd7	50.31	67.07	44.26	69.32	50.8	67.33	69.49	52.15
171063	Gtf3c1	2147	2300	2236	2516.9	2401	2434	2374	2341.97
308409	Opa3	501	530	477	536	530	523	555	514
116458	Ipo13	888	829	831	832	874	990	889	756
313490	Tmem8b	1258.2	1215.14	1148.3	1251.7	1281	1251	1332	1195.89
364843	Pcdhga8	164.16	145.78	164.59	168.38	185.9	145.9	153.4	182.32
100363129	LOC100363129	18.53	14.31	17.78	20.88	18.11	15.4	19.33	21.39
293491	Ypel3	3771	3737	3350	3075	3830	3526	3540	3569
691938	Fam124a	174	192	173	168	192	198	158	186
300741	Mpi	1195	1202	1062	1071	1102	1252	1228	1121
367166	Hyal1	562.05	452.93	497.46	600.56	557.2	551.1	551.5	534
108348123	LOC108348123	45.15	42.86	59.89	57.12	47.2	41.38	62.16	62.12
117281	Ppp2r1a	7701	8108	7568	7740	8299	8194	8121	7693
291206	Mrpl32	379	389	332	312	347	341	369	409
25532	Rab4a	1651	1614	1502	1557	1651	1610	1669	1636
303240	Cntrob	76	73	64	62.94	85.27	70	70.23	61
303515	Rapgef11	236	215	178	233	220	270	218	187
691024	Fam219a	3646.5	3585.99	3417.8	3750.5	3975	3790	3650	3536.65
259248	Slc16a2	152	141	147	213	187	170	166	155
29474	Coro1b	2029.9	1897.76	1869.7	1652.5	1925	1902	1939	1968.54
25014	Acat1	1585	1646	1403	1314	1527	1533	1598	1518
24184	Ak2	322	296	287	268	307	297	297	317
288657	Ogfod2	213	209	199	161	210	194	218	190
113961	Gorasp2	1676.3	1837.11	1691.4	1770.9	1831	1810	1762	1840.16
25356	Cntn2	7250.3	7428.48	7580.5	8824	9131	8262	7747	7137.37
301463	Fastkd2	447.36	409.66	362.91	412.19	446.8	384.4	419	444.75
65278	Csnk1g2	2619.4	2552.82	2583.5	2337.4	2624	2680	2533	2645.7
24769	Sct	8	7	7	4	7	4	4	12
499468	RGD1561147	9	9	4	4	9	2	8	8
81919	Fut1	3	9	7	7	8	5	6	8
292764	Fam98c	238	218	250	203	254	221	250	219
309000	Orai3	204	212.71	198.42	211	228.5	188.7	193.8	247
116658	Cntn4	456	462	462	489	460	440	582	459
295341	Ppmlj	1679	1540	1640	1317	1657	1533	1557	1667
680647	Fam19a2	1070	1184.09	905.94	1145	1096	1208	1043	1124.07
362247	Trpc4ap	2601.4	2772.19	2566.3	2741	2714	2875	2742	2761.57
298544	Sh3bgr13	9483	9048	9340	7930	9199	8942	9127	9914

679038	Rtl8a	1761.5	1701.67	1784.6	1589.7	1854	1832	1718	1696.86
304655	Zswim4	254	220	255	256	279	267	232	245
297113	Gars	3290	3427	3102	3293	3356	3503	3445	3314
297376	Htra2	701	674	688	580	645	700	707	693
100364984	Rab37	995.54	829	798.99	757	942	795	849	925
305055	Kctd3	905.82	911.83	960.73	910.75	1033	948.7	921.7	928.47
29292	Ft11	12560	11977.5	12523	11031	11710	12497	11945	13796.23
25243	Arnt2	809.02	786.03	723.17	865	864	810.1	781	851.07
29435	Ssr4	704	659	704	573	669	677	708	688
306505	Lonrf1	572	506	523	547	624	509	578	520
140675	Gabra4	60	39	37	71	44	52	60	59
94342	Bag6	2657	2949	2932	3155	3006	3324	2910	2905
170837	Snrk	1097	1130	1096	1228	1274	1181	1147	1125
362102	Ptpa	3660	3685	3610	3394	3780	3764	3728	3632
298447	Dmap1	386	404	334	321	384	407	344	366
81751	Psen2	1625	1713	1585	1527	1690	1717	1692	1601
301131	Tnfaip8l1	68.12	86.43	78.21	57.68	55.18	91.57	73.74	81.21
684536	Gba	2157	2382	2249	2290	2391	2353	2406	2280
117256	Ppp2r2c	1467.8	1532.81	1449.8	1558.3	1689	1477	1577	1497.87
114588	Cdh4	353	298	334	355	410	362	320	299.98
287805	Gprc5c	604	626	603	667	620	791	633	553
100233176	Gon7	540.38	684.69	591.28	565.86	660.7	612.9	481.4	719.66
316530	Cnppd1	840	861	901	823	902	941	826	889
290632	Mrpl34	269	219	238	201	240	227	242	254
289582	Fip111	669	713	699	800	773	693	807	720
365361	Lyrml	371.62	443.79	422.31	340.92	433.7	431.5	432.5	342.37
311055	Tanc1	1838	2116	2055	2444	2229	2207	2163	2183
680558	Tmem241	83	80	82	89	71	90	93	93
302986	Telo2	377	372	371	370	399	375	352	422
360459	RGD1305733	3164	3037	2806	2809	2977	2954	3049	3296
83764	Flot2	5296.1	5663.85	5432.6	4973.2	6327	5516	5312	5043.09
364476	Hs6st3	124	113	104	146	157	104	113	131.99
252929	Ctsz	971	1006	969	849	968	977	968	1030
317341	Ube2q2l	173	175	157	136	172	160	168	166
60590	Grm8	170	146	162	163	164	185	156	161
501099	Srf	522	454	463	612	521	526	579	505
499390	Clasrp	680	648	662	569	707	719	656	577
288515	Micall2	192	229	245	204	214	236	244	210
292935	Htatip2	741	753	665	629	732	710	776	679
313668	Ddi2	1477.1	1444.46	1432.9	1568.8	1765	1400	1715	1275.19
24586	Ncam1	4357.3	4873.83	4679.2	5647.1	5213	5233	5110	4766.1
687539	Mthfsd	154	147	127	134	149	153	151	131
501555	Rai2	131.14	137.37	134.05	139.33	135.5	129.2	138.5	159.86
310417	Proser1	403	393	447	441	446	491	433	380
287371	Drc3	200	190	174	201	189	202	190	214
498153	Gpr146	620.45	548.52	533.98	558.52	601.1	633.8	532.8	582.45
363221	Cnot11	427	458	454	419	448	497	446	436
192234	Eif2b5	1191	1025	1002	1008	1042	1001	1151	1198
170906	Zdhhc7	1019	1033	983	936	1023	1067	987	1050
29691	Pdelb	102.7	86.6	83.84	91.6	87.04	105.2	99.28	87.53
361698	Pold4	135	153	157	140	130	134	179	165
81525	Nfkbib	354	288	276	302	312	326	298	332
303337	Rab11fip4	1903	2015	1858	1797	2043	1908	1970	1950
362645	Atp13a2	4237	4371	4265	4585	5124	4683	4315	4023
293648	Mrgprd	1099.1	1173.61	996.32	1039.3	1047	1137	1024	1269.96
287596	Smg8	251	257	245	263	248	274	251	283

361438	Gas8	90	78	83	79	77	82	94	90
691703	C2cd4a	47.87	30.08	45	34.54	45.71	48.95	34.2	34.84
295645	Slc4a10	40	36	39	37	37	31	39	51
317296	Mtmr1	442	433	384	437	434	447	455	427
294297	Scube3	235	215	229	131	213	259	157	213
60395	Trpc3	413	420	414	398	451	407	405	447
684527	Crtc1	1255	1318	1433	1460	1537	1418	1390	1337
288710	Rnf10	5268	5571	5491	5351	5684	5732	5536	5586
302973	Abca3	3647	3983.89	4030	4513.8	4393	4276	4241	3904.96
305234	Stbd1	657	700	726	748	767	751	763	662
83620	Cit	340	338	336	452	417	424	359	324
360576	Trarg1	11390	11305	11613	10544	12397	11545	11194	11492
289587	Lrrc66	21	29	22	29	28	26	25	26
100158233	Slc35a2	503	498	543	526	530	583	500	539
313021	Tmem222	488	508	482	413	485	462	493	526
294513	Dnajb12	939	1042	1057	1040	1044	1123	1068	1005
29181	Cdh10	173	156	127	173	172	168	190	124
100910864	LOC100910864	54.82	42.32	45.08	52.43	50.89	44.92	64.36	42.22
266609	Bles03	825	814	825	702	809	801	833	849
26989	Cadps	3769	3854	3475	4327	4147	3936	4169	3787
192152	Tgoln2	3106	2958	2945.9	3299	3210	3048	3348	3192.86
282824	Elavl3	1159.6	1167.37	1118.3	1277	1413	1159	1141	1196.84
295635	Arhgap15	43	68.15	47	36.45	52.03	45	60.74	44.58
312373	Nt5c3a	606	626	581	497	596	626	567	613
361555	Ankrd27	927	1018	925	921	1018	1035	957	932
64533	Pnpo	918.61	945.78	805.37	881.84	931.7	854.3	919.2	987.89
29544	Tspyl1	1733	1736	1744	1614	1829	1670	1750	1850
303497	Osbpl7	389.4	363	388	365	419	406	340	400.4
500446	Phf24	23992	25867	24159	25699	26921	24612	25847	26311.85
100911575	LOC100911575	274.59	269.26	202.61	189.28	258.6	250.6	247.9	215.94
100362124	Ift140	630	525	511	562	557	664	454	642
311129	Osbpl6	1118	1133.84	1032	1363	1232	1178	1246	1176.99
102553506	LOC102553506	7	7	4	7	7	8	6	5
302822	Igsf1	12	7	14	17	12	18	7	15
499368	Calhm3	11	15	12	12	10	15	14	13
294281	Slc39a7	1352.7	1364.64	1440.7	1281.6	1419	1381	1488	1369.66
312800	Atf7ip	960.01	1111	990	1157	1118	1117	1105	1047.01
308589	Sphk2	1540	1512	1484	1476	1659	1533	1508	1553
291940	Zfp827	613.09	646.79	629.24	749	743	694.8	647.5	658.63
360549	Plscr3	836	828	857	743	828	876	846	845
687808	Slc16a9	211	179	171	236	207	201	194	227
290985	Isca1	2347	2443	2241	2184	2397	2299	2407	2482
64464	Timm10	357	362	316	260	316	310	350	371
689523	Lin9	71.89	65	71	68	67	77.97	64	78
64524	Tkt	5201	5645	5367	5363	5328	5876	5407	5832
89804	Tek	403.15	351.93	380.32	303.67	369.2	344.8	414.6	368.44
362811	Ankrd52	1577	1490	1587	1907	1938	1638	1717	1532
359959	Rheb11	95.14	91.1	84.51	86.24	92.46	77.9	105.8	95.23
687575	U2af1	507	504	537	463	480	499	587	526
100360679	LOC100360679	0.02	144.29	187.76	244.5	0	0	0	599.8
116692	Cyth2	1141	1075.98	1231	1088	1100	1175	1195	1248.43
295701	Tmx2	4047	4092	3887	3978	4134	4135	4301	4079
171355	Pou4f2	344.62	237.59	279.6	290.48	330.2	297.5	281.6	289.41
498431	RGD1562229	27	28	33	36	40	34	30	25
310909	Rap1gds1	8339	8761	8772	9018	9419	9372	8908	8598
303787	Slc7a4	206	219	202	190	219	193	226	212

24175	Adra2c	269	281	259	280	322	298	260	253
246187	Slc7a6os	282	308	302	271	268	318	300	324
363195	Gtpbp2	806.98	735.59	765.76	699.74	817.1	797.6	733.2	781.81
361160	Leprot11	804	790	757	692	791	828	778	769
292696	Clptm1	3459	3529	3522	3516	3552	3908	3597	3536
293614	Ric8a	2426	2129	2045	2105	2017	2161	2434	2445
316087	Zbtb47	1518	1446	1510	1483	1516	1689	1519	1474
54251	Flt1	589.01	568.14	585.01	699	630.1	608	675.9	626.05
362899	Nipal2	448	431	407	389	435	430	444	434
292766	Psm8	3223	2960	2788	2618	3019	2906	3074	3060.96
314633	Ap3d1	5461	6075.82	6025.7	6113.9	6669	6362	5871	5736.86
680047	Pcdhb9	78.17	101.18	83.08	86.98	98.68	97.2	96.94	70.79
313053	Ythdf2	763	716	741	799	760	800	725	857
303343	Abhd15	19.17	28.46	24.07	28.34	20.7	28.09	27.02	28.31
499094	Zfp61	594.67	443.87	550.23	423.03	496.5	501	568.2	528.27
682033	Ppp2r3b	228	232	220	177	254	217	211	210
113956	Pecr	224	272	249	234	233	266	244	276
29309	Coq3	408	405	368	385	407	349	411	463
25095	Ampd3	623	576	625	645	689	673	628	580
301388	Mfsd6	5076	5194	4572	4861	5443	5308	5085	4673
100910054	Nkrf	54.54	49.74	68.91	64.59	70.69	56.49	62.19	58.14
65262	Atp5fla	9810	9669	8251	8930	9246	9812	9911	9192
360838	Lypd1	336	254	209.51	287	255	281	338	257
170916	Lonpl	1398	1329	1295	1396	1412	1433	1400	1395
305714	Thoc7	798.09	754.4	757.67	724.36	798.8	768.4	762.1	829.62
497040	Prss36	43	19	22	38	39	24	32	32
362364	Tril	1721	1706	1495	1690	1684	1740	1864	1595
307649	Ciapin1	1031.8	1008.8	944.74	908.78	1025	1039	1006	984.57
297879	Zfp362	427	423	426	504	458	507	468	420
362833	Mob3a	1009	899	957	959	1017	1009	990	965
100911661	LOC100911661	169	119	142	130	143	134	147	159
300057	Recq14	52	52	60	55	54	66	46	62
315329	Mfsd5	697	741	686	674	713	762	701	737
293710	Lgals12	5.96	6.04	12.53	8.27	8.71	12.56	9.99	2.89
361066	RGD1308117	138.89	121.91	152.41	129.5	147.4	130.1	135	152.48
308415	Ercc2	316.89	269.82	296.99	287.17	312.7	312.8	318.5	275.16
299129	Lrrc9	81	78	66	66	72	74	76	81
688298	Ccdc137	288.8	264.35	251.06	263.28	276.1	298.5	259.6	277.3
296580	Camsap1	1476	1576	1559	1735	1742	1687	1617	1562
364419	Chmp7	1145	1125	1095	1112	1139	1220	1161	1142
501047	Col6a5	405.96	427.1	522	423.69	424.6	503	477.5	447.13
29542	Pebp1	8634	8428	7644	7204	8143	8575	7955	8556
360677	Mcrip1	919	831	934	725	843	897	871	939
25367	Adarb1	1543	1620	1240	1713	1583	1675	1551	1560
314694	Chst11	891	938	857	1009	1069	1085	874	820
192183	Nectin1	1002.5	951	1006	1065.4	1126	997.2	1057	1011.92
305156	Arhgap24	352	383	377	336	301	467	372	368
303539	Kat2a	1182	1236	1167	1145	1223	1260	1247	1196
102553763	Znf768	227.27	222.79	225.42	231.49	240.6	241.5	230.6	231.89
304512	Rbm19	182	202	194	218	198	196	229	206
116777	Cdh3	354	334	337	373	393	382	361	320
294961	Kcnmb2	67	68	53	53	58	62	67	64
310704	Bcl9	546.92	538.57	604.77	619.92	635.9	605.7	602.7	561.83
361351	Hdhd2	643	760	704	732	690	703	777	787
300822	Tex9	408	438	402	388	478	359	466	401
29603	Bckdk	843	763	766	779	802	835	818	827

690229	Wdr74	286	259	295	218	249	280	254	319
362098	Gle1	491.9	471.08	508.97	503.24	538.5	467.3	527.6	524.03
315093	Maf1	1308	1270	1230	1190	1252	1314	1297	1343
100362155	Cyhr1	286	315	265	263	310	266	299	301
288447	Uspl1	546	573	600	539	562	608	607	575
681458	LOC681458	345.79	479.41	495.46	372.8	383.4	440.2	504	436.43
25232	Tyro3	1009	946	922	964	973	1054	1004	970
282832	Ccr9	5.01	6.11	4.34	7.82	9.39	5.04	6.81	3.01
365834	Fam160a1	6	2	6	10	7	12	2	4
687105	Arhgef16	34	38	41	55	31	38	62	44
192260	Cdipt	4625	4366	4164	4386	4673	4657	4226	4716
140673	Napa	4364	4504	4196	3908	4564	4363	4489	4263
308632	Hebp2	2689	2589	2329	2220	2650	2400	2638	2549
297570	Pex26	163	172	187	197	191	185	182	191
108353239	LOC108353239	206.88	155.18	181.05	187.32	199.5	187.8	196.6	176.95
314441	Slc25a29	210	226	176	154	186	214	170	228
303518	Smarcel	1064	1202	1173	1084	1120	1215	1166	1211
686911	Exoc11	1289.6	1020.26	1090.8	1094	1163	1061	1077	1381.55
498545	Tsc22d1	9100	8985.99	8354	8610	9276	8956	9196	9087
292874	RGD1309036	57.42	58.21	48.96	47.84	41.6	58.04	68.21	53.46
83505	St3gal5	961	953	836	934	904	988	961	985
116550	Atp5flc	3166	3032	2581	2625	2885	2999	2974	3023
311671	Npepl1	545	531	587	536	559	602	572	558
29272	Dpp6	7278	7962	6866	8260	8316	8200	7678	7443
246307	Asrgl1	902	836	779	777	817	788	968	859
363228	Tmeff2	836	886	753	866	825	925	889	842
302032	Amn1	300	293	313	263	247	310	308	353
308320	Zfp772	369.08	347.43	304.37	289.09	341.8	322.5	348.4	352.28
171293	Ctsd	11543	11617	11253	10766	11577	12174	11601	11722
311902	Rbm18	1234	1154	1116	999	1151	1112	1209	1220
94202	Ptprr	1027	961	1018	1044	1024	1035	1071	1090
316249	Enpp5	2249	2221	1919	2066	2185	2208	2308	2109
314442	Wars	3480	3507.22	3367.2	3546.9	3649	3728	3699	3409.17
305373	Hmgb3	533.15	602.55	562.45	476.09	547.4	536.3	580.3	601.59
312054	Gtpbp10	112	115	150	123	112	118	154	137
102551714	LOC102551714	69.23	61.06	58.55	93.22	35.08	63.63	99.93	95.27
684304	Mrpl39	327	245	245	254	278	240	299	299
293050	Abhd2	1932	2010	2009	2283	2577	1915	2159	1929
116493	Gripap1	1659	1705	1648	1674	1842	1691	1790	1644
291414	Ctdpl	410	453	470	403	467	473	453	416
361504	Rdh13	303.5	272	277.55	310	322	281	337	272
102552101	LOC102552101	20.17	10	13.59	9	11	14.01	11.02	18.95
287746	Fmn11	1257	1314	1274	1239	1427	1341	1215	1315
317374	Timm17b	214	99.89	158.63	136	162.6	164.3	140.6	166.63
362388	Mrpl53	460.32	425.51	380.51	363.34	440.2	433.3	353.8	471.03
102556446	LOC102556446	10.48	4.15	4.15	5.18	2.1	9.39	8.33	5.15
290541	Arhgef3	541	540	523	554	557	597	551	544
25751	Dnm2	1211.7	1425.48	1489.2	1353	1399	1492	1421	1398.23
315112	Foxred2	49	64	66	58	62	68	61	56
315218	Lmf2	1074	1063	1146	1172	1171	1257	1059	1156
365224	Zfp74	319.65	302.18	205.87	133.36	293.7	288.6	314.1	105.21
266600	Csdc2	1734	1630	1685.8	1684	1718	1809	1664	1827
108352882	LOC108352882	0	1.42	0	0	0	0	0	1.48
497935	RGD1563441	25	18	17	11	21	19	14	20
245959	Slc25a3	6601	6510	5859	5707	6083	6467	6587	6582.99
684258	Chchd7	236	226	206	159	209	223	225	205

311840	Urm1	655	626	640	630	639	637	671	712
292687	Qpctl	436.72	435.24	384.61	411.11	477.3	411.9	415.3	433.92
304344	Ap4ml	189.73	203.71	179	203.22	222.7	180	212	193.85
315996	Sema3f	575	535	540	589	563	632	596	543
499779	Swi5	1156	1184	1115	928	1109	1177	1158	1125
84469	Maged1	5175	5521	5529	5641	5689	5756	5869	5480
24804	Syp	11627	11922	11152	11551	12539	11911	12136	11629
64023	Masp1	270	322	309	322	327	342	302	304
307852	Pdpr	339	365	406	371	431	361	374	378
64156	Uba52	4237	3879.99	3956	3302.8	4038	3856	3898	4238
315212	Alg12	167	161	161	122	153	170	162	152
124461	Pacsin2	2698.4	2589.04	2378.8	2714.4	2755	2744	2730	2593.79
58857	Vapa	3687	3560	3459	3411	3657	3811	3655	3595.09
312680	Hdhd5	222	226	226	217	235	232	239	223
114554	Pi4k2a	1048	1050	951	1124	1097	1075	1104	1075
289046	Tmem9	729	698	677	615	748	653	672	762
25244	Bckdha	797	771	675	640	755	752	715	784
290277	Cryl1	106	90	109	70	93	91	94	113
50567	Slc3a2	2300	2544	2556	2549	2543	2641	2647	2543
64369	Plpp1	1943.1	1946.55	1786.6	1759.6	1953	1960	1996	1844.03
299050	RGD1305089	236	238	227	188	240	208	230	249
300046	Gpaal	727	772	746	702	784	792	751	746
60431	Vapb	3448	3491	3169	3375	3580	3444	3592	3443.91
500251	Hmces	393	340	309	289	341	357	347	343
299739	Ndufa12	1066.8	901	889	772.74	937	931	923	994
63837	Tagln3	2665.7	2429.85	2214.1	2117.3	2378	2383	2505	2565.06
303311	Rtn4r11	1887	1788	1734	1826	1995	1933	1778	1839
303583	Arhgap27	616	606	511	554	676	579	581	549
303196	Tmem11	464	428	382	429	442	453	425	456
29158	Fbln5	3029	3031	2786	2884	2954	3256	3093	2930
363006	Tarbp2	467	438	441	426	464	442	478	464
80846	Hnrnp1	2563	2665	2687	2596	2577	2828	2822	2735
288719	Tpst2	456	417	502	466	472	489	509	450
301024	Scap	1798	1674	1770	1749	1867	1932	1759	1733
100125378	Nudcd3	200	202	182	208	244	202	208	172
170818	Icmt	608	639	584	638	694	603	607	671
25669	Cpe	6172	6260	6682	6280	6529	6888	6554	6514
291987	Utp4	449	426	427	420	422	448	473	453
287845	Dnah17	137.93	140.75	140.93	118.83	134	113.7	178.9	134.93
684980	Tsc22d4	1268.5	1190	1344	1118	1262	1413	1178	1279
290775	Vps37a	299	310	310	314	316	285	350	335
25484	Myole	1615	1676	1534	1710	1723	1797	1714	1582
54293	Rgs3	6488.9	6081.84	6306.6	6422.6	7306	6343	6170	6569.5
94188	Zfp423	344	340	370	387	343	432	414	314
361858	Gtf3c6	187	174	188	171	191	183	183	194
688163	Prr151	48	58	54	49	51	66	55	46
64187	Ar11	1073	1075	972	990	1027	1022	1120	1118
688495	Smim7	1210.5	1045.37	1051.1	913.45	1153	1053	1057	1139.32
108348293	LOC108348293	86.31	45.01	41.93	40.4	36.29	25.86	101.8	58.91
685068	Gemin711	121.69	127.63	141	118.34	138.3	104.3	152.4	135.62
301515	Rnf25	474	445	461	429	496	502	401	488
311876	Pbx3	471	482	498	453	486	522	506	472.1
691001	Ndufa3	889	826	763.54	739	775	837	773.3	971
312682	Bcl2l13	686	666	688	696	746	736	721	651
100912034	LOC100912034	60.6	60.6	101.01	80.8	53.46	101	60.6	101.01
688841	Fam155b	506	530	480	524	545	588	497	498

303596	10-Mar	33	33	31	42	43	41	24	37
81769	Rpl36a1	952.6	873.1	884.09	743.7	872.9	876.7	897.1	956.04
56718	Mtor	1436	1461	1490	1633	1586	1585	1603	1506
288599	Eif4h	4630	4971	4372	4470	4816	4845	4929	4650
360678	Arhgdia	13658	13441	13610	12584	14011	13913	13473	14200
362781	Hhip11	309.21	323.27	303.04	298.5	370.2	336.7	318.1	262.43
290519	Thoc3	556	468	504	413	497	524	492	512
619579	Nrbp1	2118	2084	1940	1920	2186	2053	2129	2043
140610	Brinp1	517.43	465.78	463.85	487.12	542.6	499.6	558.6	417.13
102549059	LOC102549059	128	129	103	125	127	129	124	126
108348137	LOC108348137	227.77	392.05	379.62	362.34	396.1	151.9	476.6	396.22
85248	Kif3c	3704	4172	3772	4511	4412	4251	4141	4055
291440	Cxxc1	460	488	532	482	512	516	505	514
361991	S100a16	315	323	325	260	285	303	360	328
25218	Vps52	1301	1253	1277	1309	1319	1362	1360	1322
295241	Mtx1	619	678	650	587	636	648	708	652
170848	Kcnq2	3593.2	3514.44	3243.3	3899.3	4057	3725	3709	3376.71
29231	Ciao1	813	829	763	773	833	802	834	847
108350166	LOC108350166	12.95	10.45	8.87	7.57	9.05	17.7	5.61	9.21
691589	Chd5	846	886.41	898.04	935.95	932.6	1010	814	964.29
313978	E2f6	936	879	697	871	870	902	866	892
25624	Vamp1	21797	20949	18475	21070	21993	20494	22100	21281
304323	Mrm2	65.81	83.18	72.83	79.75	89.06	68.06	84.87	72.69
114493	Cacnalf	9	6	5	3	2	7	9	6
499361	Tlx1	6	7	4	6	6	2	8	8
292536	Prpf31	594	628	530	548	642	543	606	609
361185	Naxd	323	379	299	286	354	345	333	311
192276	Coro7	1159.8	1235.89	1158.8	1238.7	1212	1386	1219	1185.37
502750	Wee2	6	8	17	13.08	4	15	17	10
303923	B4galt4	252	283	299	245	275	286	272	293
81739	P2rx3	9793	9506.91	8201.2	9228.1	9984	9045	9356	9945.57
100361946	Lrrc74b	54	66	45	65	69	57	55	59.03
308654	Zmat1	307.81	295.78	320.03	309.04	323.6	294.9	345.7	322.34
83522	Acox3	1163	1130.06	1280	1022	1277	1232	1237	1050.04
79116	Apex1	878	874	847	745	793	883	879	935
313038	Phc2	2069	2154	2277	2180	2238	2208	2373	2240
81734	Nell2	597	530	554	563	603	557	508	674
64360	Mrpl23	305	249	276	223	289	252	271	287
300673	Bcl91	743	715.95	740	820.9	810.9	808	732.9	799.95
50551	Txnrd2	292.7	275.09	248.08	244.59	303.4	287	238.5	277.93
362592	RGD1559909	369	354	385	286	343	353	346	413
302656	Frmpd4	998	990	822	1186	1138	956	1099	978
288518	Get4	888	871	927	828	867	971	879	951
291784	Rmc1	1373.4	1323.8	1172.7	1276.1	1302	1388	1422	1259.8
361162	Purg	720.61	654.96	610.49	729.17	718.1	748.1	712.1	655.95
100359816	Setd1b	542	636	610.95	676	675	684	546	667.99
689226	Ube2r2	1763	1700	1789.6	1736.6	1840	1862	1764	1830.25
293427	Eif3f	1971	1997	1884	1707	1981	1961	1977	1972
290659	Cope	1991	1881	1882	1530	1899	1935	1827	1943
79250	Aco2	8957	9236.2	8607	9117.9	9247	9689	9276	9284.33
619393	Dnajc12	309	278	227	232	262	254	291	285
100910729	Islr2	84	87	72	98	93	72	88	103
363145	Gmppb	249.71	232.01	258.13	239.17	277.1	261.3	233.4	250.3
290834	Adam9	1431	1485	1666	1623	1602	1589	1787	1500
316356	Mfsd9	393	385	415	352	391	386	406	430
298400	Creb3	2043.1	2004.14	1958.6	1786.9	2037	2079	2026	1993.49

691056	Lmtk3	224.67	191.18	205.25	229.9	251	233.5	217	187
498596	Nrg3	658.7	737.9	595.77	706.51	747.9	690.3	745.5	634.04
116563	Ap2m1	10924	11261	10839	10233	11519	11636	11415	10592
83581	Polr1a	383	412	392	470	460	428	455	387
313615	Paqr7	817.07	898.57	863.44	841.05	920	996.3	796.9	857.69
308100	Acat2	1694.8	1704.33	1613.3	1464.6	1585	1702	1661	1814.26
294292	Nudt3	3222	3254	3209	3193	3560	3424	3101	3361
683684	Fam156b	14	15	17	22	17	13	23	18
292792	Tmem147	340	319	331	279	297	355	326	347
680891	Sf3b5	758	748	695	579	740	776	693	694
298506	Mycl	56	54	60	56	64	59	47	66
293042	Sema4b	641	602	597	645	698	650	635	612
117519	Keap1	1094	1075	1106	1061	1143	1162	1080	1143
497770	Scn3a	332.49	321.52	331.45	398.7	412.2	293.8	384.9	354.57
296733	Chpf2	954	990	967	994	1015	1122	1030	911
309071	Fank1	25.46	39.11	18.26	22.09	23.65	19.07	37.82	29.03
363288	Kif1a	15439	17701.9	16628	20993	19438	18252	18388	17821.99
304315	Ttyh3	1252	1082	1310	1136	1283	1234	1303	1172
298694	Plekhn1	87	62	101	88	73	76	106	98
81681	Lss	864	924	840	908	871	897	909	1016
56082	Gorasp1	607	698	656	674	672	743	647	690
25338	Ninj1	546	492	619	413	542	507	620	493
100910623	LOC100910623	9	19	11	6	13	11	11	12
300948	Rnf7	942.92	978.44	980.23	778.58	1071	923.5	839	1010.77
314478	Ahnak2	13822	16799.8	17314	17720	16975	19280	16823	15497.24
140908	Cdk5	1922	1737	1620	1489	1765	1757	1753	1794
299707	Washc3	437	405	387	366	375	414	399	478
499331	LOC499331	318	322	286	287	271	328	330	338
25719	Scg5	3717	3233	2684	3053	3156	3107	3440	3549
690898	Sh3bp5l	1911	1715	1579	1732	1883	1734	1734	1895
114634	Six1	1417	1489	1399	1442	1648	1445	1444	1466
24668	Ppplca	3057.1	2998.74	3258.3	2557.9	3014	3180	3143	3063.57
500317	Lpar5	167	168	187	196	197	144	173	236
364430	Nufip1	320	327	360	339	368	326	359	353
100362555	Sptssb	110	146	71	144	112	121	138	121
312711	Pianp	641	733	607	710	695	698	706	712
681123	Tomm6	1238	1089	1083	940	1106	1128	1105	1205
63938	Hibadh	967	1004	854	895	934	957	1000	995
24877	Vsnl1	4498.7	4723.72	3580.8	4687.8	4329	4524	4605	4814.2
25361	Vcam1	183.49	163.74	170.65	166.02	192.6	152	204	165.84
305461	Fam53a	64	72	75	80	88	86	66	64
25550	Slc1a1	41	45	45	48	48	49	50	40
296634	Nup214	832	1019	1032	1119	1110	1107	1031	933
306527	Dusp26	2575	2408	2292	1913	2623	2373	2153	2450
313040	Csmd2	445	460	466	506	529	519	476	437
362836	Dazap1	797	778	824	796	850	898	837	753
65138	Adrml	1865	1807	1644	1649	1824	1922	1750	1781
365839	LOC365839	29.65	31.72	18.76	30.8	24.54	24.6	32.41	34.35
501539	Ammecr1	38.01	34	44.06	36.11	41	42	33	43
25287	Acad1	2078	2016	1803	1845	1966	2080	2093	1950
298095	Prpf4	328	337	322	307	355	365	326	306
25717	Tgfb3	517	485	466	473	525	521	516	466
361208	Rab24	677	635	632	577	631	679	710	614
364901	St8sia5	222.33	304.27	208.57	276.05	206.2	284.6	262.9	302.81
681381	Zcwpw2	1910.4	1805.19	1662.8	1731.5	1988	1834	1814	1791.92
259221	Osbpl1a	1516	1710	1461	1668	1551	1695	1742	1652

25112	Gadd45a	469	471	473	393	457	487	483	460
103694635	LOC103694635	59.3	74.77	49.04	42.48	46.4	61.34	69.83	58.14
170724	Anp32b	1094	1122	1179	996	1208	1193	1061	1126
303796	Zdhhc8	1678	1831	1808	1793	1847	1992	1766	1824
307759	Gpt2	925	910	811	987	909	1016	1040	831
102556957	LOC102556957	20.86	8.54	5.83	14.89	14.94	8	10.67	18.76
497010	Eng	665	637	638	666	659	748	673	643
306270	Oxnad1	331	352	309	299	334	337	357	321
170667	Atp6v0c	9695	9886	9403	9145	10065	10137	9609	10031
296651	Psm5	678	705	637	651	671	658	733	729
309014	Plpp4	182	181	159	168	196	159	169	197
25446	Fosl2	33	34	51	60	50	48	56	32
305623	Tmem175	709.27	740.82	689.6	718.6	752.8	776.7	736.6	720.7
294964	Ndufb5	1624	1611	1372	1327	1471	1477	1600	1653
292735	Shkbp1	242	242	254	195	248	253	222	252
291952	Ces2g	10.3	4.76	6.11	6.15	7.98	11.88	6.01	2.68
290660	Ddx49	531.15	499.97	506.75	452.36	498.2	548.6	518.7	514.37
290923	Aga	502	480	545	494	464	533	566	549
300092	Nhp211	696.59	658.68	609.33	669.91	636.7	691	651.6	773.94
301285	Tfap2b	5.38	8	6.89	7.68	15.48	6.28	3.44	4.01
25740	Gnaz	1502	1581	1511	1528	1705	1630	1582	1481
79218	Gng5	131.83	141.46	152.8	136.91	170	113.6	166.4	138.44
295264	Mllt11	6511	6670	6398	6447	7165	6905	6641	6489
686104	Eif4e1b	8.94	13.4	17.06	18	15.02	15.05	15.96	13.96
406169	Atf6b	1261	1369	1368	1296	1428	1389	1325	1391
690945	Dera	493	578	596	525	556	549	627	559
114017	Gfml	653	709	653	663	691	660	769	679
308958	Cdr2	1206	1242	1083	1111	1251	1292	1126	1183
317385	Fus	1816	1959	2029	1843	1876	2090	2096	1931
681091	Ccdc157	127	136	111	156	140	151	143	120
292486	Aig1	1293.3	1209.36	1194.9	1165.1	1246	1225	1280	1332
367315	Gpr35	431	425	390	496	457	415	455	494
81824	Arpcla	2539	2521	2390	2159	2454	2516	2430	2645
311165	Med19	481.7	496.28	513.15	511.49	489.6	553.1	487.5	563.31
499335	Fxn	355	325	291	284	303	323	328	358
294767	Mrps30	834	757	713	668	762	771	754	820
300517	Hepacam	1115	1171	1184	1064	1150	1321	1144	1125
292409	Fpr1	13	22	14	17	27	15	15	12
310781	Atxn712	185	166	181	150	172	196	163	182
500549	Zscan20	133	125	113	135	108	140	132	149
503194	Glb112	159.02	152.39	188.15	171.11	162.6	188.8	180.4	169.47
299211	Zdhhc22	267	250	302	324	337	280	311	267
296271	Srxn1	1567.3	1549.35	1377.1	1293.6	1499	1530	1526	1495.51
294154	LOC294154	3858	3887.98	3737.9	3666	3976	4082	3952	3829.94
25636	Prkaca	2916	3113	2972	3375	3183	3659	2964	3134
140734	Dynl12	12931	12269	10944	12153	13642	12102	12580	12174
363474	Apoo	502	497	454	411	482	451	470	546
29718	Kcnj10	1219.7	1117.24	880.84	1450.5	1306	1163	1266	1145.58
102556178	LOC102556178	6	4.28	1.07	2.45	3.22	3.56	6.48	1.17
407765	St6galnac6	1036	1021	1035	959	1093	1064	1009	1070
79563	Grpell	585	590	549	465	569	579	556	585
287523	Dph1	255.3	269.64	254.08	225.83	293.8	258.5	264.5	233.98
361648	Spns1	687	583	587	616	633	649	604	700
25521	Prkar1b	7417	7349	6936	6835	7705	7458	7547	7131
85423	Tfpt	362	338	325	288	319	318	362	374
498729	C17h6orf52	57.43	67.29	57.76	56.92	56.19	56.89	96.79	40.47

50687	L1cam	7961	8839.23	8343	9315	9568	9235	8774	8456
306157	Gpc5	350	352	357	363	382	342	385	378
309036	Rexo5	45	43	48	39	44	41	57	41
685634	Smim12	792	765	745	673	757	775	724	855
260321	Fkbp4	7808	7354	6948	7482	7826	7532	7779	7808
287544	Poldip2	1405.6	1434.94	1369.5	1376.6	1396	1444	1528	1474.3
64635	Snd1	1377	1455	1500	1549	1559	1504	1561	1526
288527	Asmt1	525	445	505	339	503	441	466	487
85333	Slc25a4	14598	13416	12146	11715	13085	13606	13477	14082
291905	Fto	495	603	566	563	586	556	633	554
688174	Pgap3	107	102	93	91	101	111	104	95
50561	Resp18	2336	2202	2275	2002	2291	2037	2254	2637
100361939	Rnaseh2c	88	93	98	70	85	88	95	97
304756	RGD1563709	3.11	2.11	7.39	6.34	9.3	4.21	5.26	1.05
364624	Lsml	297.62	288.29	282.37	284.65	278.7	312.5	329.8	285
301111	Ano10	2082	2074	2001	2005	2126	2277	2095	2039
303300	Cluh	2984	3249	2997	3284	3427	3375	3214	3073
85309	Folh1	595	583	448	659	558	569	643	620
304805	Cyb5r1	4757.9	4829.22	4565.1	4644.2	5203	4912	4820	4726.04
58935	Gas6	3910	4028	3882	4116	4214	4408	4376	3671
361301	Tpgs2	3561	3263	3103	2934	3355	3220	3457	3421
85245	Kpna2	615	572	649	513	589	648	632	588.14
315549	Fam118b	148	164	137	159	148	154	170	164
25371	Adprh	589	591	604	581	594	624	627	629
301295	Efhc1	224	212	235	239	238	236	243	235
171352	Cyp3a9	63	77.05	60.01	59	63.01	77	53	78.01
301130	Dpp9	1699	1645	1664	1763	1820	1764	1800	1700
155437	Hey1	143	160	160	164	187	159	156	154
288454	Slc46a3	86	83	74	59	79	101	72	64
684050	PCOLCE2	193	199	185	220	169	232	228	205
300221	Spats2	777	820	739	873	843	850	851	814
170944	Dkc1	767	742	772	648	823	759	768	715
192255	Ubb	31579	29593.4	28632	28624	30981	31519	30285	31143.27
690660	Hint1	3028	2986	2621	2454	2950	2751	2905	2998
366360	Myorg	1289	1433	1225	1375	1481	1456	1311	1322
102549491	LOC102549491	12	7	10	14	10	14	11	10
81821	Dgkz	8526	7758	7685	7252.2	9035	8548	7441	7651
261730	Aurka	371	337	362	347	380	411	342	350
689404	Amtn	8.58	14.08	8.15	10.19	11.27	16.93	7.46	7.25
24923	Stx1b	4775.3	4825.52	4279.1	5548.4	5375	5234	5008	4716.63
301309	Adgrb3	568	546	563	619	613	593	660	537
100360358	Tmem251	146.21	119.65	145.49	128.04	157	129.6	128.2	149.68
311185	Kbtbd4	266.49	248.34	231.73	213.48	238.3	276.8	255.4	234.23
312710	Cops7a	2303	2296	2244	2246	2360	2473	2307	2373
306000	Slc25a37	440	356	403	344	489	378	380	368
685174	Cnpy3	994	930	920	884	975	926	960	1041
498171	Prkrip1	248.48	275.31	298.14	228.05	286.4	257.4	272	283.17
288665	Cux2	252	279	206	334	286	298	304	233
116690	Nfasc	6152.7	6582.76	6127.4	7512.2	6880	7469	6971	6287.3
287375	Flii	2660.6	2865.37	2849	3081	2958	3158	3003	2872
84347	Cacng2	620	594	570	721	761	669	612	580
362859	Ckap4	1086	1010	1186	999	1120	1149	1161	1051
310511	RGD1563620	15.98	20.13	32.78	15.43	21.53	22.21	30.09	14.43
498667	Fam155a	961.31	831.16	759.9	801.48	971.5	883.2	855.3	800.59
81736	Nfkb1	652	730	885	728	762	806	817	750
306004	Rhobtb2	1245	1249	1210	1236	1429	1284	1226	1232

297096	Snx10	4786.1	4936.77	4143.2	4533.9	4879	4905	4469	5007.25
81812	Thra	2715.9	2805.54	2715.3	2688.2	2919	2707	2859	2950.36
308468	Dyrklb	481	495	459	510	544	516	516	460
313560	Ctpsi	1242	1260.97	1205	1120	1146	1232	1429	1247
100361138	Dgkq	766	850	791	797	835	889	819	811
499425	Zfp365	584	583	438	595	626	556	563	558
171133	Gcsh	821	782	776	759	826	759	823	877
282827	Aip	1015	954.43	906.29	821.12	1011	961.8	931.1	966.54
305479	Sf3a1	1078	1244	1298	1395	1356	1349	1260	1285
60335	Tgm1	12	16	17	19	19	16	18	14
291922	Lonp2	1484	1564	1470	1496	1660	1583	1558	1495
293938	Bloc1s2	836	786	803	623	708	799	753	931
171548	Dkk3	1686	1801	1825	2061	1846	1798	2235	1840
297372	Mrpl19	335	354	320	312	326	302	395	360
313950	Hslbp3	421	410	434	439	438	478	448	420
102552331	LOC102552331	36	36	45	32	31	51	40	34
361502	Ppp6r1	3538.1	3569.72	3607.1	3653.2	3975	3680	3747	3641.95
50664	Gnao1	7867	8019	7449	8523	9011	8347	8004	7993
170824	Steap3	1164	1175	1316	1238	1338	1249	1311	1225
309157	Peli3	337.61	395.18	344.62	377.06	406.6	375.3	389.3	351.73
498179	RGD1563482	140.1	103.15	123.34	103.41	128.1	93.31	125.8	144.89
103689982	Mboat711	417	472	475.5	431.5	444	482	462	492.5
308309	Mboat7	417	472	475.5	431.5	444	482	462	492.5
361807	Lemd2	375.78	399.12	351.22	366.94	379.2	383	363.2	438.07
362227	Dtd1	952	867	903	798	920	908	929	929
301068	Eif1b	2368	2308	1950	1924	2140	2259	2215	2340
85260	Entpd6	742	765	661	689	725	727	758	782
303185	Flcn	735	713	634	626	728	704	736	668
316643	Chchd2	2147.9	2101.04	1816.1	1877.2	1927	2003	2166	2222.61
294048	Pik3ap1	99	95	136	93	107	113	119	104
364510	Phf7	195	187	205	174	189	189	195	224
266735	Adgrg2	1449	1374	1055	1470	1388	1393	1454	1366
314243	Wdr89	104.63	78.43	72.39	69.86	108.5	76.41	72.2	83.57
361808	Snrpc	568	605	551	516	581	573	598	594
502367	Bola2	1041	912	903	694	925	848	916	1029
361940	Pgrmc2	1237	1238	1179	1219	1273	1259	1273	1299
308593	Tmem143	455	439	456	443	461	470	488	459
266807	Duox1	9.87	14.31	16.75	11.99	14.99	7.28	26.73	6.43
361704	Ctsf	2424	2538	2364	2341	2445	2663	2482	2536
24244	Calm3	6897	6690	6133	6401	7296	6550	6841	6675
83800	Clta	4338	3883	3649	3401	4014	4024	4037	3922
309860	Sobp	629	630	685	663	791	655	629	656
499129	Kctd15	451	456	432	427	458	508	463	421
300837	Leo1	743	741	742	759	770	775	785	797
116546	Ralb	634	572	574	511	617	630	612	541
64390	Prpsap1	773	766	657	683	695	760	791	770
306147	Slitrk1	942	908.99	775	988	1026	965	956	839
100363280	Tmem74bos	6	5	5	5	7	5	3	7
24179	Agt	182.92	107.61	74.42	114.43	127.2	116.7	114	144.32
500690	Map3k9	1088	1147	1029	1331	1287	1205	1164	1158
291159	Hist1h2a11	10.91	16.77	14.69	12.52	14.91	8.6	18.21	15.79
299203	Acyp1	356	303	274	303	271	334	321	369
25353	Spp1	14421	14418	13600	13183	12429	14899	14074	16876
113938	Snurf	8760.8	8075.12	7800.5	7941.2	8496	8371	8458	8808.58
680415	Pappa2	194.23	142.3	154.7	232.57	218.3	188	226.6	125.57
312225	Wdr91	363	410	363	391	426	388	411	375

292673	Ercc1	566.25	562.35	527.76	525.82	565.4	572.1	580.3	568.87
108349973	LOC108349973	3.84	0	4	6.16	2.78	5.36	6.53	0
690068	Tatdn1	199	201	208	186	193	175	234	230
314432	Uba1	7286	7851	7452	7673	7685	8330	7846	7850
315668	Rab39a	265	284	242	295	299	276	279	284
246074	Scd	5059.8	5363.98	4904	5713.9	5603	5776	5230	5440.3
362678	Faap20	265	266	267	225	287	264	265	256
293023	Klhl25	158.99	146	149.6	145	171.5	172.2	141.1	143.63
292876	Josd2	781	725	737	633	724	813	669	808
81670	Gpt	112	104	92	67	104	114	93	82
300033	Eef1d	1205	1243	1347	1141	1270	1406	1273	1224
293864	Ubl4a	909	860	807	835	837	877	879	982
29751	Sema3a	13	14	14.07	18.8	13.01	15.19	17.55	17
192268	Gls2	580	606	488	528	559	630	588	531
299694	Nuak1	300	301	270	375	328	305	363	310
362539	Adamts11	404	589	501	520	476	587	535	513
313806	Rnf19b	1084	1066	1038	1046	1163	1139	1104	1032
296570	Edf1	2546	2451	2449	2142	2482	2371	2578	2619
83502	Cdh1	4897	5569	5142	5967	5506	6033	5676	5400
291403	Zadh2	440	391	354	308	393	385	398	389
50866	Rab4b	1857	1768	1696	1675	1865	1805	1783	1881
361041	Carmil3	1313	1259	1237	1301	1412	1388	1254	1303
313874	Rasgrp3	239.01	222.87	244.74	266.64	247.9	249	270	253.38
299979	Grhl2	14	12	13	23	16	18	17	14
170796	Grin3b	95.17	121.11	101.04	110.05	124.1	124	109	91
311796	Nelfb	2251	2032	1968	1966	2090	2274	2171	2080
297525	Mkrn2	915	917	806	892	910	898	939	954
304582	Sart3	375	318	373	358	366	356	392	379
103690112	LOC103690112	52	51	52	72	65	43	67	63
685384	Rnf180	350	347	354	352	413	344	348	366
81766	Rpl18	1793	1625	1782	1314	1657	1675	1658	1840
296408	Fam210b	306	331	340	321	319	344	322	376
315054	Slc45a4	1583	1500	1362	1673	1670	1626	1589	1530
64161	Pi4ka	4042	4878.09	4423.9	5228.2	5110	4903	4714	4746.15
301418	Maip1	243.82	241.47	229.47	218.09	241	232.5	232.5	272.17
314906	Kif5a	11732	12456	10721	14258	14217	12064	13312	11963
312303	Zfp746	310	287	314.59	315	293.2	357	331.4	304.57
64527	Pdap1	1636	1570	1624	1528	1757	1627	1621	1662
313672	Kazn	1349	1297	1136	1444	1297	1420	1293	1470
117030	Erp29	722	664	792	661	749	703	776	749
498234	Arl8a	6346	6487	6232	6306	6937	6815	6332	6521
286996	Zfp689	196	196.83	204	201	216	209	196.6	215
361815	Rnf8	435	422	399	409	443	448	460	395
50686	Gsk3a	2393.2	2193.01	2316.7	2249.7	2451	2473	2339	2335.59
497878	Nsg2	7350	7155	6434	7278	8065	7201	7211	7113
301634	Fam174a	582	529	478	486	538	517	577	544
362788	Traf3	1226.3	1284.82	1304.8	1430.8	1433	1438	1429	1202
103692127	LOC103692127	111.64	101.61	87.99	116.3	114.2	111.5	112.7	99.59
314644	Dohh	842	825	695	652	813	837	731	780
500221	Evala	8	10	12	11	8	13	15	7
308690	Ndn	5333	5350	4844	4865	5603	5361	4994	5429
680448	Pcdhgb5	109.04	132.5	106.13	112.23	117.3	122.6	130.2	112.21
140724	Cacng3	150	170	162	152	168	162	186	149
64203	Bcat2	809	907	771	826	857	927	841	850
293668	Brms1	872.6	766.6	986.92	777.15	989.9	831.6	717.4	1030.92
81917	Hiplr	1098	1095	969	1108	1210	1168	1098	1003

100360041	Zfp366	37	40	24	42	40	33	41	36
289335	Susd4	3995	3970	3244	4008	3842	4255	3887	3978
29354	Pla2g5	324	365	275	343	270	314	400	387
307481	Pcdh1	937	939	1036	1207	1183	1027	1041	1070
362711	Tmem214	930	1045	1016	944	1034	1036	1062	996
317575	Smarca1	393	388	360	408	465	358	392	410
100360120	Smim1011	212	197	180	185	210	212	200	190
364974	Rnaseh2a	790	781	760	683	779	755	754	874
360646	Limd2	383	417	423	324	422	359	407	435
691995	LOC691995	527	637	532	482	572	506	610	597
288917	Farsa	536	520	521	499	540	604	504	530
362081	Fbxw5	1123	1087	1102	998	1112	1158	1158	1094
294289	Zbtb9	230.37	202.6	217.67	208.13	222	235.6	243.9	199.53
300018	Lynx1	8486.9	8410	8034	8171	9088	8741	8951	7950
24896	Gnas	28593	28671	26647	27127	29799	30104	28219	28378
361087	Slain1	222	233	196	304	249	256	250	247
314262	Plekhhl1	570.46	549.3	552.87	583.69	648	664.1	544.6	510.68
25120	Aanat	21	15	25	20.03	27	24	18	16.02
303635	Fam20a	168	138	155	148	137	155	167	180
502091	Rnf122	168	193	207	183	178	190	193	227
365592	Pdss2	302	291	260	263	303	292	288	288
302934	Ppl	97	90	77	60	83	99	83	75
362252	Scand1	874.68	774.89	797.67	690.62	827.9	839.6	745.6	879.84
64303	Pfn1	4136	4332	4791	3864	4453	4544	4459	4513
311171	Lrrc55	906	807	568	876	838	856	824	795
303830	Tbccd1	373	381	315	367	335	351	440	381
360912	Helq	151	165	175	176	155	179	195	171
81826	Slc20a1	2092	2102	1905	2092.8	2058	2152	2194	2193.04
29512	Padi4	13.12	10.03	17.07	1	10.07	16.07	9.12	8
29681	Clqbp	1187	1232	1125	997	1110	1189	1245	1222
310880	Zgrf1	127.3	125.88	138.24	109.96	134.1	114.4	136	141.81
84401	Puf60	2564	2696	2680	2491	2623	2852	2817	2656
362829	Lsm7	415	357	345	276	348	350	360.1	404
295238	Dap3	437.72	482	486.46	406.11	456	462	506	478.13
308572	Myh14	1868.4	2052.38	1978.4	2338.7	2143	2231	2205	2067
25415	Crmp1	1492	1552	1590	1615	1599	1688	1669	1603
308417	Nectin2	594	578	645	561	600	690	635	571
84008	Cntnap1	5315	5191.3	5241.4	5608.2	6165	5981	5320	4949.23
313296	Dcaf1211	258.23	274.72	254.27	270.57	301.9	277.4	280.8	250.3
294696	Mrps36	796	764	638	596	642	735	785	771
690820	Klf16	359	360	394	354	417	377	362	384
307514	Epb4114a	389.08	393	383.53	398.06	357.6	450	397	437
308976	Kdm8	310	300	288	306	313	328	326	297
366311	Clvs1	280.84	305.58	226.07	297.8	320.8	290.3	312.2	242.45
311862	Lamc3	190.64	189.11	174.78	223.39	154.8	211.7	185.2	265.02
751787	Flad1	827.6	810	808	771.94	823.8	895.7	843.6	815.12
360526	P4ha2	218	207	217	219	213	239	231	221
299127	Jkamp	1401	1474	1360	1406	1347	1558	1610	1408
266733	Slc12a8	16	33	45	26	22	40	42	22
298084	Zbtb5	227	201	195	177	188	209	220	223
308868	Lrtomt	55	48	45	52	73	50	48	39
311742	Cdca7	29	42	33	16	33	39	32	22
311852	RGD1311084	35	32	46	27	43	28	36	40
361594	Aen	149	203	190	178	207	197	181	171
500986	Pdzd3	12	17	21	10	18	10	15	20
686035	LOC686035	0	0	0	1	0	0	1.05	0

288704	RGD1311899	2901	2812	2619	2520	2931	2675	2798	2991
308435	Cic	3511	3525	3893	3799	4003	4155	3784	3523
361884	Mccc2	424.99	401	372	400.99	400	436	433	410
310769	Wdr77	699.74	654.22	691.53	630.26	610.1	803	776.6	619.96
84510	Stmn2	38706	39352	36772	35814	39807	38704	40366	39310
360810	Gpn3	299	339	288	272	281	297	339	341
295462	Mcub	303.32	249.9	268.31	258.05	284	242.7	276.3	330.63
117099	Bdh1	364.7	302.61	267.52	283.46	315.8	317	324.7	321.85
288832	Olr1058	1	1.99	0	1	0	0.5	2.69	1
59076	Grk6	1027	969	992	942	1048	1065	997	1017
361364	Dok4	4095	3929	3669	3712	4332	3996	3897	3953
288031	Fam43a	175	161	139.48	193	162	156	207	177
246120	Plbd2	4028	4066	3902	3783	4146	4325	4053	4047
292069	Ctu2	131	138	124	85	151	117	127	107
360480	Cdip1	2004	2046	1932	2082	1962	2237	2210	2060
367145	Chst2	2226	2320	2345	2444	2501	2686	2492	2125
313811	Dnajb5	389	361	317	326	354	406	354	349
286930	Dlgap4	909	919	997	913	971	1069	949	937
140667	Ap3m2	253	240	233	228	282	235	216	269
305338	Apbb2	1453	1557.17	1529.2	1699.2	1703	1827	1531	1491.41
361637	Acsm5	3.56	3.14	4.22	4.78	2.04	2	7.98	4.47
294333	Fam207a	478.91	437.09	423.77	405.83	500.7	441.3	452.5	438.99
297903	Fam92a	484	437	415	392	444	432	457	482
502317	Aplp1	2631	2679	2348	2687	2809	3036	2385	2636
362558	Lrp8	837.65	796.28	808.41	871.14	919.9	855.8	846.8	857.92
502291	RGD1562625	26.78	19.3	22.97	18.26	31.93	19.85	25.01	14.92
85435	Smad9	1707	1746.22	1532	1744.2	1767	1820	1755	1726.83
360839	Tmem163	621	565	500	556	564	646	606	539
361056	Rnaseh2b	296	274	289	252	306	295	297	269
500295	Tatdn2	904	835	848	804	923	800	880	959
502990	Nipal3	1430	1436.92	1368	1537	1696	1527	1460	1380
310838	Bcar3	499	497	477	549	501	563	522	538
171374	Atp5f1b	19884	20531	18103	18372	19638	20838	20380	19915
311423	Slc4a11	272	284	246	307	311	285	281	288
83425	Akap12	21083	23762	22915	26102	24679	25501	23690	24734
310662	Scnml	174	163	173	143	154	177	163	192
294313	Mtch1	6067	6232	6320	5680	6048	6335	6314	6830
113906	Hspb8	4756	4669	4348	4306	4636	4810	4696	4851
312709	Mlf2	4909	4707	4719	4574	4965	5024	4866	5010
500552	RGD1561149	1501	1588	1593	1684	1799	1729	1540	1620
114592	Aurkb	21	17	29	12	23	36	14	10
362941	Fbxl6	180	141	148	143	176	175	147	145
360804	Cdk2ap1	2027	1972	2045	1813	1994	2154	2070	2037
315167	Ndufa6	1088	930	956	875	1003	1005	922	1114
362481	Tox	132	159	169	171	155	159	199	150
288563	Actl6b	380	358	399	302	369	400	344	399
301709	Arhgap28	733	764	913	941	867	775	976	903
366473	Azin2	488	448	499	398	490	493	505	438
363112	Mrap2	1219.2	1202.93	1158.1	1065.4	1230	1245	1211	1195.47
65171	Scamp5	2025.4	2234	2074	2402	2346	2314	2276	2243
295490	Emcn	453	339	315	291	396	350	359	364
304528	Rfc5	202.39	183.82	172.95	161.47	201.5	182.4	197.1	176.19
359725	Cbr4	187	205	201	194	205	205	230	187
171492	Map3k2	40	46	44	47	74	22	41	49
298003	Galt	483	379	340	391	449	476	350	399
287827	Armc7	144.3	159.64	162.69	132.79	157.2	149.4	157	166.35

292708	Irgq	2628	2762	2674	2887	2821	2953	2887	2847
361651	Prrt2	2007	2008	2123	2157	2304	2194	2124	2095
361410	Tmem231	485	468	407	468	436	503	508	474
304201	Evi5l	1007.9	1041.38	1080	1009.7	1153	1041	1111	1044
100363436	Mdfic2	1070	963	1003	1091	1120	1032	1016	1169
293693	Cdc42bpg	107	112	110	123	114	109	123	129
288913	LOC288913	714	704	661	554	626	665	736	740
690966	Polr2e	990	986	1012	902	986	1064	977	1061
29337	Plcg2	51	62	85	77	77	100	64	48
171103	Cdc25b	1533.4	1503.52	1597.6	1342.3	1793	1610	1485	1392.95
362963	Sgsm3	610	588	554	603	642	648	630	555
81823	Cib1	195	172	205	173	189	197	200	197
24383	Gapdh	48554	48183.9	44936	43292	46981	51574	46807	49039.66
81725	Musk	24	21	26	27	30	21	32	20
302998	Mettl26	175.16	189.11	147.01	140.71	153.6	189.1	176.6	166.04
681096	Nxpe3	1005	905	778	876	956	916	982	892
312258	Adck2	329	350	349	342	353	357	360	370
298688	Ints11	486.73	494.52	521.98	487.12	492.8	597.8	494.5	506.99
260326	Adgrg1	3840.4	4136.93	3968.3	4381.2	4381	4334	4122	4324.84
301173	Plcl2	205.55	177	204.92	189.62	203.3	190.2	213.4	209.88
287097	Hcfclr1	2384.2	2438.57	2356.2	2100.5	2446	2437	2394	2476.63
84016	Grip1	361	351	346.99	388	372	379	415	355
288584	Fis1	2385	2198	2098	1879	2303	2172	2160	2363
83725	Wfs1	1343	1520	1483	1529	1661	1575	1503	1437
24401	Got1	3787	4051	3734	3840	3949	4243	4016	3994
291981	Nutf2	1859	1769	1519	1622	1829	1847	1747	1693
691193	Elof1	357	376	396	334	376	381	366	415
297990	Ndufb6	1185	1026	1019	905	1097	1053	1039	1158
502414	Tbc1d22b	573.91	565.65	559.91	599.18	593.6	683.4	563	576.55
58844	Grb14	581.69	638.55	605.87	563.75	575.9	666.9	629.3	640.44
108352187	LOC108352187	15.93	9.17	14.08	13.08	15.63	12.55	11.55	15.21
503214	Rbpms2	51	35	35	35	36	50	34	44
684555	Gp6	11	6	11	11	12	6	12	11
361435	Fanca	103.35	81.43	85.42	86.92	102.7	84.25	101.3	87.12
500715	Ccnk	608.32	624.24	671.54	691.7	711	718.7	668.5	630.76
252880	Drgx	1556	1493	1470	1617	1725	1632	1532	1562
287803	Ttyh2	335	424	468	486	403	499	439	460
56777	Adamla	61.23	53.45	62.44	39.65	54.14	56.72	72.29	44.76
361578	Nomol	2206	2440	2346	2348	2421	2637	2454	2308
298762	Cox7a2l	4437	4140	4056	3626	4113	4106	4464	4412
367083	Alg9	356	402	395	422	404	425	424	403
315327	Spryd3	3762	3527	3468	3572	4027	3750	3629	3660
293049	Rlbp1	76.95	77.28	52.12	79.72	77.86	76.42	74.24	72.27
289783	Zmiz2	621.84	853.92	958.54	769.96	908.4	722.6	779.3	958.92
365571	Tysnd1	237	248	217	249	277	249	242	232
89811	Vegfb	912.74	914.05	888.37	949.98	975.5	1005	903.2	970.45
25297	Cacnb3	6581	6915	6528	5988	7052	7062	6462	6777
689852	Psmf1	1372	1472	1377	1285	1197	1596	1450	1547
362721	Eipr1	550	483	487	476	508	541	540	510
25247	Nsg1	2980	2755	2295	2393	2759	2514	2785	2903
306007	Ccar2	913	928	946	872	962	956	969	961
288663	Atxn2	1620.3	1730	1686.7	2043.8	1780	1993	1845	1828.15
365096	Acat211	705.23	772.27	693.98	665.5	654.5	712.1	768.4	848.68
306117	Tbc1d4	470	510	401	476	510	524	521	398
29674	Psma7	2467	2221	2189	2038	2288	2414	2287	2387
360785	Ap1s1	1923	1819	1799	1670	1989	1827	1925	1843

297969	Rars2	155	143	139	104	144	124	159	142
499358	Scd4	14.56	23.66	9.33	24.71	19.69	10.75	29.43	16.13
294291	Smim29	555	490	511	394	542	492	501	516
113958	Mrps7	944.05	935.48	851.54	821.73	927.6	931.4	907.8	970.16
307056	Anln1	11.57	0	22.95	15.45	13.13	18.98	20.45	0
685029	Anapc13	336	291.94	253	217.11	265	295	267	328
306508	Mfhas1	1684	1787	1857	1844	1939	1806	1897	1902
313557	Hivep3	597.69	558.87	579.3	698.92	689.2	675	586.4	610.59
360926	Lnx1	396	382	355	351	375	413	394	379
25272	Mapk10	5737.7	5882.96	5302.9	6204.9	6568	5957	6038	5765.14
83589	Apba1	3991	4047.87	3871.9	4819	5002	4319	4269	4007.72
305795	Abhd6	504	549	463	506	517	546	550	514
679135	Slc25a53	61	57	48	65	56	72	72	43
308416	Tomm40	1115	1018	1097	1019	1147	1165	1107	1051
406196	Cchcr1	356	313	352	344	366	394	383	293
296190	Ndufaf5	559	528	429	482	537	489	490	586
100912195	LOC100912195	888.09	890.3	824.75	715.45	930.7	801.2	805.5	954
296849	Pdk3	735	714	720	693	799	705	761	746
291969	Atp6v0d1	7206	7248	6861	6647	7417	7532	7329	7140
360815	Ddx54	733.99	788.98	827.98	737.92	844.9	825	815	764.96
292804	Gpi	10563	10700	10995	10583	11118	11833	11236	10887
302913	RGD1309748	1598	1402	1412	1534	1573	1550	1524	1609
100359731	Tipin1	43.1	25.69	46.55	38.8	44.54	38.38	32	47.26
294004	Dpcd	778	688	724	627	750	686	758	770
361431	Cbfa2t3	193	217	227	187	250	227	208	182
29264	Clip2	3663	3848	3704	3959	4085	4096	4029	3756
58819	Txnrd1	1995	2003	2053	2137	2300	2158	2197	1961
81504	Grb2	3132.7	3280.45	3203.7	3152.8	3364	3444	3353	3275.18
306805	Aspn	102.26	55.01	118.19	58.15	106.5	104.8	104.3	35.52
29328	Gpx4	6144	5640	5623	4916	6112	5193	5819	6366
310645	Pmvk	1053	966	928	821	890	908	1003	1164
499497	Mef2c	582	507.98	507	603	562	701	557	495
289785	Myo1g	51	36	48	18	52	50	29	30
287044	Clecl6a	1020.5	1129.52	990.02	1064.2	1002	1190	1235	997
24642	Pgam1	8784	9123	9295	8359	9283	9428	9530	9180
63885	Pde10a	210	217	209	224	265	193	220	227
306840	Sirt5	1406	1352	1246	1327	1402	1390	1370	1448
303875	Nrros	144	111	133	147	158	142	173	90
114210	Spata2	649	643	586	623	683	651	606	692
288741	Ficd	427	497	435	434	457	524	492	414
300967	Tmem108	272	229	279	326	263	328	292	281
690000	LOC690000	703	668	654	700	680	736	720	732
361567	Bcl2l12	89.01	88.99	79.4	88.71	95.38	84.75	89.65	94.5
315807	Pigb	40.44	45.67	49.52	47.41	43.66	37.59	47.48	63.92
503035	Tmem229b	3850	3620	3292	3586	3842	4090	3744	3426
171082	Atp5mc2	1553	1534	1497	1275	1483	1543	1517	1624
307395	Ablim3	1253	1361	1238	1355	1447	1457	1333	1244
363498	Bex2	1634.3	1696.31	1527.6	1461.4	1805	1533	1619	1695.13
405982	Olr1343	1.5	4	2	2	4	0	5	1
103691065	Bsph1	0	0.95	0	0	0	1	0	0
296152	Tgm6	8	8	1	2	9	3	1	7
313653	Vwa5b1	8	8	12	10	10	9	12	9
316521	Vill	9	7	12	10	16	12	6	6
307850	Exosc6	143.28	134.79	165.4	123.5	160	137.6	152.8	146.42
681219	Cox14	731	694	613	543	713	678	672	654
362326	Tspan12	1833	1699	1724	1784	1813	1874	1912	1812

299156	Rab15	2499	2246	2303	2169	2589	2347	2296	2471
361517	Vasp	1347.7	1336.72	1348.4	1235.5	1385	1456	1418	1287.38
497972	Heatr6	238	266	228	291	240	266	285	286
300866	Lca5	143.19	116.96	96.04	149	122.2	130.8	141.9	137
313772	Acap3	864	861	842	879	879	948	859	942
100911951	LOC100911951	1622.7	1437.03	1401.5	1344.5	1339	1602	1522	1649.47
25104	Pc	1287	1264	1200	1360	1313	1367	1356	1345
25713	Itgb7	58.04	27.96	52.97	22.29	52.84	43.24	40.51	33.19
81652	Ctbs	462.19	412.77	427.89	346.16	373.9	411.7	454.1	496.44
54226	App	14876	16678	13348	16612	16652	16916	16214	14983
353230	Lhfpl4	790.91	835.98	756.92	849.96	978.9	810	882	733.91
299338	Exoc3l4	9.94	7	6	16	9	10	12	10
288683	Rita1	1038	908	911	829	968	988	985	940
307511	Cdc25c	184.1	187.61	229.38	203.56	217.6	206.9	229.9	192.89
305812	Gpr137c	189	200	182	203	199	193	210	213
25098	Foxa1	5.29	6.49	2.28	5.19	6.49	4.21	4.93	4.64
305455	Nelfa	321	358	354	305	371	309	353	376
290796	Saraf	2722	2791	2926	2650	2810	3024	2734	3110
360819	Suds3	1237	1246	1136	1144	1243	1308	1274	1191
436582	Atp6v0e2	3958	3876	3529	3547	3839	3655	4152	4056
498145	Fam220a	534	542	579	490	547	579	581	552
100361417	Tbcd	2886.9	2960.17	2741.3	2998.6	3175	3040	3038	2951.21
304375	Agfg2	523.34	590.49	581.17	551.06	586.7	638.9	532.8	607.04
309651	Ppil1	296	264	254	220	250	260	267	312
290529	Tmem254	448	414	440	483	377	469	515	519
171495	Capn5	5815	6141	6558	5818	6803	6435	6275	6115
299850	Dctn2	6351	6251	5870	5632	6433	6520	6303	6132
171073	Hdgf12	821	897	827	909	857	969	878	934
171114	Ndrg2	6507	6322	5412	6307	6070	6858	6235	6693
304077	Dop1b	1514	1508	1701	1789	1849	1838	1557	1615
24406	Grik4	476.37	505.39	436.07	458.86	496.2	540.4	432	508.07
287873	Chmp6	770	723	701	638	701	764	720	798
499780	RGD1561113	3214	2818	2557	2814	2935	3056	2971	3049
100301568	Abo	164	159	146	130	162	150	179	140
689963	Tmem52b	9.44	7.18	8.12	14.78	10	8.17	11.3	12.16
306152	Slitrk5	706	658	554	647	733	640	682	647
363632	Sox15	5.72	9.01	7.92	5.61	3.47	6.05	8.94	11.31
363333	Chaf1a	159	171	171	154	196	159	166	169
304537	Bicd11	428	393	323	353	409	387	403	378
25280	St8sial	254	254	255	266	322	248	264	250
303100	Mgat4b	936	949	1073	819	989	1028	966	996
302983	Mapk8ip3	9952	10600	10111	10844	11365	11449	10557	10356
316123	Gtf2f1	1075	1046	1047	1020	1149	1112	1109	1042
100360180	Pgd	1739	1853	1721	1675	1803	1936	1838	1785
81709	Msh2	253	259	238	240	255	262	268	258
298508	Ppie	277	210	240	188	205	268	242	249
310745	Dclrelb	303	272	263	282	285	298	331	266
690161	Hfml	18	9	18	11	13	8	19	19
679668	LRRTM1	427	360	356	387	381	391	415	425
84596	Srm	559	517.76	517.76	517	615	636	482.9	490.83
312675	Fbx114	434.38	398.48	420.82	400.45	418.1	419.1	462.6	442.95
56084	Hgs	2178.9	2325.53	2264.5	2421	2382	2594	2450	2256.94
311621	Tomm34	1945	2181	2008	2081	2188	2275	2149	2044
24805	Syt2	2533	2667	2416	3200	3164	2854	2836	2542.79
313169	Ubap2	2336	2512	2531	2714	2741	2915	2509	2470
100911859	Hoxc11	113	46	39	44	109	57	65	24

29663	Ap1b1	2206	2491	2238	2648	2569	2693	2460	2376
103690028	LOC103690028	71.84	55.07	47.89	47.89	52.68	64.65	45.5	71.84
293621	Hras	1530	1438.51	1408	1169	1417	1537	1392	1498
29659	P2rx4	479	739	786	447	735	688	476	684
311562	Necab3	2388	2013	2061	1873	2293	2146	2131	2214
311338	Rpap1	301	281	336	307	323	330	333	305
363129	Nudt16	338	343	316	302	326	343	315	385
300240	Atg101	544	547	518	431	581	542	511	516
305454	Zfyve28	1476	1615	1515	1606	1692	1675	1652	1528
362754	Trmt5	262	240	227	253	241	261	265	268
102552527	LOC102552527	196.01	188.5	199.77	196.04	188.9	186.4	236.9	210.32
361268	Asb13	165	185	170	202	196	178	186	201
287357	Wnt9a	231	262	220	231	287	248	199	261
297954	Fhl5	6	12	10	9	19	8	7	5
292888	Ptov1	3174.8	3238.83	3188.4	2922.8	3412	3498	2993	3299.86
81829	Mdh2	5773	6003	5265	5722	5787	6315	6148	5746
311839	Slc27a4	1658	1781	1779	1498	1680	1835	1727	1838
29564	Dync11l	4603	4473	4121	4584	4755	4696	4695	4599
29592	Bcat1	23574	24599	20891	23948	24577	25182	24795	23502
24191	Aldoc	8583	8505	7425	7576	8307	8571	8318	8634
303745	Sirt7	262	249	273	209	306	229	261	251
103689922	LOC103689922	111.64	101.61	87.99	116.3	114.2	113.9	112.7	99.59
79241	Hoxa5	111.64	101.61	87.99	116.3	114.2	113.9	112.7	99.59
314164	Lrfn5	1068	968	839.65	988	1055	944.2	1139	936
171437	Dnttip1	436	488	404	397	416	464	467	472
302022	LOC302022	573.64	539.3	461.88	565.95	520.6	561.3	597.2	578.36
361887	Cwc27	249	243	221	241	256	268	238	244
305540	Slcla4	522	562	564	590	608	602	582	568
25101	Chrna3	850	772	872	807	971	810	849	851
690442	Tmem116	11	13	18	13	8	15	20	15
102557427	LOC102557427	86.45	87.9	85.69	87.01	74.55	99.28	101.6	90.54
25391	Atp2a3	370	421.97	400.88	359.98	459.2	436.5	383	359
681300	LOC681300	76.63	25.76	43.89	66.86	54.87	58.32	48.7	62.89
81925	Cds1	777	780	663	855	849	803	792	799
79117	Arf5	2614	2468	2393	2317	2758	2573	2479	2517
85383	Nol3	847.65	699.96	623.61	693.47	735.7	772	709.7	803.78
116720	Pik3c2g	92	55	83	81	75	77	89	87
406164	Pbx2	810	819	833	794	884	820	868	862
290642	Ccdc124	1045	953	929	877	1006	985	1027	994
361717	Dnajc4	165	176	155	162	181	187	155	171
291202	Hax1	476.26	520.46	423.08	465.82	514.4	467.9	488.7	517.86
314630	Rexo1	894	869	909	890	934	1039	914	870
685607	Pfdn2	1111.4	1054.39	1099	969.2	1144	1034	1088	1199.17
361664	Eeflakmt2	121.1	114.17	129.88	96.76	130	102.4	131.4	123.55
100362785	Ankdd1a	18	14	20	21	23	17	20	17
170551	Slc5a6	901	915	905	946	1045	873	959	991
289728	RGD1560394	253	206	192	188	245	197	196	247
303746	Mrpl12	796	732	675	623	744	751	663	823
308777	Ap3b2	4997	4879	4709	5150	5592	5315	4983	4929
298298	Dhcr24	3740	4367	4303	4118	4514	4331	4059	4532
25527	Ptgis	53	41	43	45	62	47	27	56
25330	Lipe	635	634	597	627	662	693	657	618
364380	Abhd4	14988	14449	13367	15375	15219	14961	15973	15225
100911483	Ndufa13	1134	1025	1021	928	1142	1075	1024	1093
293991	Ndufb8	2181	2220	2019	1723	1995	2206	2076	2314
306600	Atp11a	9904.2	11278.5	8103.6	13024	11140	11948	11223	10327.39

116644	Rtn1	14102	16287	15547	16064	16250	17368	16262	15534
300668	Dpagt1	1102	1122	1178	1173	1164	1217	1227	1219
310201	Cmb1	284	241	228	227	218	251	257	308
170919	Agpat4	1052.3	1060.76	1044	1071.8	1159	1094	1038	1171.22
266601	Tomm20	1993	1919	1693	1617	1972	1888	1865	1895
502764	Zfp777	397	423	460	461	474	493	413	457
362981	Hdac10	308	286	370	305	344	317	334	344
24788	Sord	1086	1002	934	947	1007	1058	1060	1063
308495	Lrfn3	298	270	268	269	323	314	280	249
500947	Vstm5	462	435	392	394	487	422	445	422
641525	Pcdhgc5	357.48	377.2	344.51	416.29	384.1	453.3	365.7	375.04
289369	Ush2a	30.18	30.17	30.27	26.25	24.21	25.28	25.31	48.53
499626	Erich6	34	38.04	31.01	31	39	35.46	32	35
79227	Thoc6	296.79	341.43	311.79	251.53	331.1	332.7	323.8	280.37
56081	Scaf1	2975	2997	3113.5	3201	3431	3530	3062	2942.79
289831	Commd1	1134.1	1178	1017.2	906.83	1028	1077	1156	1210.33
361675	Cend1	8212	8797.83	7662	7907.4	9006	8827	8421	8126.95
363023	Mrpl4	779	756	646	802	758	789	802	799
29138	Bsn	1280.4	1441.06	1391	1856.6	1634	1616	1462	1586.91
305453	Cfap99	102.94	75.13	144.8	83.05	112.1	113.6	117.5	85.21
103689987	Mfsd14a	325.1	296.26	253.64	379.57	274.6	276	383.3	390.18
79125	Anxa6	14146	13869	13508	14022	14658	15059	15077	13827
84005	Eif2b2	952	1046	912	882	1027	1017	951	1007
500242	Pcbpl	3133	3292	3206	3207	3230	3573	3382	3364
362302	Abcb8	704.1	702.31	675.78	654.09	728.1	696.5	725	738.3
114245	Hcn3	372.51	394.81	338.34	361	418	377.6	367	385.5
114504	Msx3	5	7	5	1	5	5	3	6
365183	Fcar	6	1	7	4	4	5	3	7
365390	Tspan32	6	6	5	1	4	5	6	4
498229	Tmem81	16	15	15	26	19	19	19	19
60667	Gpr20	5	3	3	7	4	5	6	4
619550	Gpr153	489.71	469.6	473.58	545.28	541.7	544.7	501.2	500.57
289081	Colgalt2	1213	1152	1054	1296	1301	1307	1217	1152
102552073	LOC102552073	4.62	17.71	7.2	7.84	14.81	17.33	2.19	5.12
683891	Ccdc160	113	114	97	125	113	129	114	118
64358	Kcna6	2352	2472.34	2549.7	2842.7	2873	2691	2580	2642.06
24314	Nqo1	1293	977	1179	823	1238	943	1268	1061
316077	Entpd3	1467	1448	1277	1563	1517	1564	1528	1467
690345	Srp9	698	719	599	547	654	659	710	683
81667	Gnb2	3797	3764	3807	3219	3669	4038	3824	3870
360793	Rhbdd2	669	784	700	642	726	729	651	845
288152	Hoxd3	72	61	79	63	81	74	71.36	64
25202	Gucylb1	125	111	122	125	139	129	124	118
298801	Clip4	450	459	378	448	473	443	465	451
171381	Psd	101	110	105	131	124	121	115	112
293863	Lage3	1278.6	1168.79	1192	956.16	1179	1111	1213	1349.54
300047	Cycl	2483	2489	2215	2052	2454	2448	2361	2493
306844	Phactr1	350	354	390	407	434	421	366	364
246274	Faim2	3683.3	3845.68	3581.6	3361	3979	4483	3375	3444.82
303772	Slc16a6	675.6	712.81	625.68	699.49	776.1	756.8	686.9	645.65
66016	Kcnmb4	151	175	163	118	135	171	169	166
296318	Ndr3	1391.6	1421.28	1344.9	1461.6	1361	1594	1585	1394.45
291673	Sil1	545	536	617	515	577	546	584	630
304822	Pkp1	375.62	333.32	292.94	410.81	350.3	332.4	399.2	409.95
298696	Pin1	2562	2529	2232	2148	2442	2388	2542	2630
50676	Slc6a12	7.18	11.46	11.19	23.59	10	14	16	16.42

24451	Hmox1	301	291	312	271	328	322	296	295
116724	Epb4113	19479	20009	19473	21715	22584	21668	21599	19358
314332	Tmem63c	3013.6	3386.61	3181.5	3208	3578	3497	3252	3181.87
500899	Mfsd3	338	385	367	333	408	358	393	344
690137	Tmem120b	269	250	265	176	248	261	250	255
65208	Dpysl5	4028.8	4085.17	4119.1	4580.8	4634	4565	4304	4257.22
292845	Etfb	758	602	738	600	686	747	691	726
292875	Aspdh	21	18	18	14	19	25	16	15
29739	Gclm	1086	1067	987	1137	1202	1037	1161	1118
365222	Lrfn1	700.82	655	618.23	680.33	757	712	670.7	664.21
305248	Mthfd21	101	92	82	62	88	92	95	81
81530	Pdk2	851	803	811	744	866	951	839	734
305468	Eif4enif1	627.48	661.77	707.01	708.96	679.2	773	706	699.63
171143	Trpm4	329	388	330	388	427	367	382	340
363022	Zfp846	993.55	786.07	687.52	827.93	786	884.3	831.3	979.88
25485	Myold	340	394	338	342	354	421	342	377
102555457	LOC102555457	104.14	79.74	112.29	101	123.5	107.5	83.49	105.21
366508	Pik3cd	939	877	893	894	992	957	888	970
85496	Enpp1	321.38	360	324	408	351.2	387.2	365	390.04
679869	Tcf712	176	187	210	221	206	232	216	185
192226	Cand2	114	114	120	146	129	141	131	121
306636	Efnb2	208	233	239	254	221	243	282	241
338401	Crip2	6822	6855	6774	6263	7382	7247	6349	7252
56281	Mrpl37	742	747	654	711	791	792	683	750
64632	Exoc7	453.73	405.79	345.56	297.33	379.2	434.7	348.1	425.74
25308	Cstb	1491	1454	1304	1156	1337	1318	1378	1679
308398	Ppplr37	1537	1567	1514	1540	1610	1687	1603	1608
171079	B3galt4	63	44	60	44	51	58	46	68
363462	Gemin8	184	200	220	169	212	206	197	202
688813	Ddal	2110.6	2212.15	2073.6	1944.2	2329	2172	2059	2255.45
366277	Polr3k	499	691	501	486	539	439	704	619
310269	Egfem1	118.2	113.79	96.81	93.94	137.6	117.5	86.62	105.13
81650	Csnk2b	1787	1519	1590	1668	1749	1748	1765	1676
25203	Ccnb1	115.77	108.44	99.46	75.93	126	97.48	88.55	110.36
309301	Rcl1	226	235	189	192	210	223	240	217
688869	Cox6b1	3477	3247	3053	2729	3256	3235	3193	3535
298528	Epha10	91	91	58	58	85	78	81	71
288753	Diablo	2457.5	2697.62	2303.1	2281.3	2637	2538	2473	2647.5
363516	Abcd1	213.68	222.75	238	208	218.2	256	215	243.62
361416	Cenpn	252	240	247	242	281	253	257	246
314641	Pip5k1c	5190	5275	5165	5442	5930	5654	5430	5261
363239	Raph1	960	960	892	1128	1144	952	929	1140
364675	B4galt7	426	432	398.66	395	455	438	442	411
116635	Scg3	7948	7769	7028	7817	8102	7885	7988	8333
108349796	LOC108349796	31	18	21	21	27	27	22	20.2
303376	Fndc8	7	11	14	3	10	7	11	9
308701	Tarsl2	408	382	362	388	420	420	409	379
313020	Wdte1	2046	2074	2015	2118	2246	2284	2137	2058
304244	Fry	1911	2103	1994	2312	2331	2267	2093	2105
29616	Ptprm	943	967	939	1066	1021	1118	1038	962
362176	Lmo2	180	165	213	141	165	179	195	200
361120	Eps15l1	1170.4	1205.51	1153	1180.1	1291	1226	1301	1160.37
309866	Crybg1	78	55	57	72	58	103	68	48
298201	Fam214b	740	711	760	636	794	754	750	712
29179	Syn2	3251	3580	3053	3769	3691	3642	3717	3385
108351600	LOC108351600	57	44	47	44	58	54	57	34

311864	Uck1	600	576	543	480	564	609	530	622
296267	Snph	2295.7	2349.16	2168	2508.8	2526	2681	2392	2256.27
306347	El1	347	337.09	343.12	345.05	365.4	392	345.1	348.42
498600	Fam32a	1780	1828.9	1755.9	1648.1	1782	1802	1839	1992.92
360975	Ogdh	4639.2	4794.56	4760	5849.8	5493	5191	5265	5245.71
171386	Avp1l	431	421	429	371	428	456	436	427
54268	Mapk4	347	375	299	439.01	444	386	320	394
60462	Batf3	35.17	34.35	26.94	25.84	40.65	20.9	27.74	40.05
361816	Zfand3	2295	2264	2244	2126	2286	2399	2383	2375
288923	Dhps	608.91	566.99	554.58	508.48	569.8	551.9	608.8	637.33
83466	Celsr3	1257	1240	1157	1259	1446	1231	1234	1285
64347	Sncg	37184	33741	33485	30073	35745	33522	34241	38735
171499	Crlf2	259	260	239	247	261	294	235	273
25501	Nxph1	105	95	104	77	109	79	103	112
363283	Cops8	1279	1246	1219	1173	1317	1321	1287	1276
246770	Gtf2ird1	413	391.18	443	394.1	421	437	459.2	419
25666	Dgkg	1027	1065	1018	1054	1125	1069	1086	1125
257644	Zwint	36470	35488	31689	32738	36168	35094	36186	36835
306015	Fam160b2	817.3	771.72	806.31	806.72	948.4	859.9	783.6	795.62
363216	Cnnm4	804	793.99	737.89	774	842	855	786	807
282837	Fibp	754	756	693	678	795	772	759	722
25344	Phb	1955	2010	1814	1587	1911	1904	1985	1993
305957	Neil2	14	23	19	13	17	14	29	13
84354	Ssbp3	2794.3	2811.04	2788	2887.3	3131	3074	2758	2971.68
310653	mrpl9	634	548	548	455	558	570	580	604
361588	Lrrc28	698	619	656	607	720	651	631	728
360567	Ccdc92b	484	440	441	458	466	479	516	468
288514	Ints1	1125.8	1257.05	1267.7	1360.4	1357	1455	1269	1221
94194	Cox5b	2596	2331	2233	1947	2390	2268	2339	2640
24225	Bdnf	405	370	439	401	461	425	428	395
363192	Klhdc3	1500.3	1620	1514.7	1462.8	1570	1718	1583	1582
58960	Map2k2	1328	1377	1380	1186	1475	1443	1382	1278
50938	Cdon	166	188	185	181.96	181	200	196	186
29211	Sptbn2	2582	2662	2500	2847	3007	2838	2693	2670
94174	Tinagl1	341	279	339	242	292	389	355	235
60324	Synpo	1750	2065	2119	2196	2343	2193	2082	1986
362983	Dennd6b	331	403	306	332	362	371	374	345
362594	Meaf6	681	708	599	669	695	653	716	748
301384	Hibch	504	448	384	378	458	461	466	429
29573	Slc37a4	493	516	427	432	461	529	483	504
498890	RGD1560212	1784.6	1695.08	1658.5	1343.1	1852	1741	1663	1603.95
360554	Rnf167	1130	1133	1131	1113	1191	1231	1157	1191
266813	Prrxl1	72.88	70.17	81.07	75.57	80.1	98.17	80.12	58.79
316578	Slc16a14	380.83	339.3	305.26	330.92	388.5	330.9	362	354.1
310411	Cog6	335	323	323	337	370	352	357	316
445415	S100a11	2493	2344	2904	2219	2548	2705	2558	2731
306353	Rfxank	156.91	184.58	154.37	143.57	157.3	152.7	187.7	179.05
140447	Slc8a2	404	420	450	505	538	434	393	518
266764	Tbkbp1	511.81	478.27	447.08	497.66	562.1	534.1	479.5	472.25
310801	Slc30a7	98	88	102	105	97	96	102	121
292078	Spata33	123	109	94	84	100	101	102	131
312916	Cops5	1885	1793	1674	1637.9	1723	1854	1988	1834
64045	Glrx	1912	1988	1372	1781	1779	1844	1957	1886
56029	Srcin1	376	413	384	449	531	405	399	382
60416	Pfcp	11378	10990	10656	10939	11754	11448	11948	11388
298782	Ttc27	527	436	535	380	537	532	503	416

24484	Igfbp3	422.78	374.37	503.13	388.67	493.9	431.8	402.4	459.8
315430	Amotl1	1134.5	1173.21	1233.4	1462.6	1425	1469	1274	1128.94
289357	Lyplal1	270	202	193	188	222	187	243	251
85256	Slc2a8	741	690	661	703	760	761	727	711
681418	Ndufb10	2279	2188	2016	1969	2173	2245	2245	2285
100909599	LOC100909599	1.72	4.82	3	0	0	1.33	3.5	5.27
64544	B3gat2	268	249	216	238	250	253	226	299
103693780	LOC103693780	1342.8	1561.44	1305	854.25	993.9	1776	1402	1189.29
84609	Sema6b	257.5	291.88	212.72	263.15	271.4	333.2	254.9	225.96
27139	Rps26	458.4	1110.11	366.18	512.17	584.1	768.3	590.7	647.5
100362606	Akain1	301.77	295.43	254.07	329.28	284.9	314.6	342.9	307.49
103693393	LOC103693393	106.4	100.79	110.17	150.73	152.8	108.4	107.3	127.12
24888	Bcl2l1	1456	1388.94	1326.7	1328.7	1426	1520	1472	1406.43
287603	Tex14	2	5	5	5	4	4	3	7
311532	Sdcbp2	4	8	9	13	12	9	8	7
363555	Wfikkn1	27	31	31	30	42	24	31	29
500954	Ubl5	1217	1059	1101	905	1197	1075	1133	1129
292654	Tmem160	393	385	328	321	388	385	347	391
103690129	LOC103690129	52.32	69.37	64.98	70.84	77.16	77.3	56.28	61.93
304343	Cops6	2180	2223.94	2074	1882	2188	2212	2224	2228
29579	Esyt1	5129	5433	5590	5473	6022	5926	5530	5421
288924	Wdr83	306.09	234.01	228.42	216.52	309.2	251.1	258.2	224.67
303872	Pigz	276.41	289.15	352.96	311.22	354.3	304.2	322	321.81
641316	Aldh4a1	455	417	388	452	421	419	479	494
310344	Plk4	148	159	164	139	174	149	164	159
360797	Rabgef1	570	578	501	567	617	578	605	547
100911225	LOC100911225	114.24	120.25	123.52	129.4	107.5	106.7	149.4	152.68
362994	Ccdc65	132	139	138	132	129	146	141	157
308311	Cnot3	555.76	587.33	622.8	594.87	649.2	657.3	613.8	580.19
619440	Aarsd1	669.78	695.28	647.64	594.19	679.1	685.3	713	683.79
689172	Tmem25	1226.7	1218.2	1144	1163.7	1302	1211	1291	1229.38
83631	Dedd	507	497	531	509	512	540	546	567
64306	Rpl27	2062	1938	1872	1575	1999	1861	1906	2122
245976	Xab2	559	595	529	529	571	658	534	580
297432	Abtb1	527	559	452	471	576	532	514	506
303920	Maats1	38	29	35	33	34	33	34	42
306842	Gfod1	2790	2684	2591	2828	2997	2927	2837	2778
689582	Kdm4d	0	53.33	46.58	41.5	48.17	0	60.35	41.28
296588	Pmpca	1361	1307	1282	1273	1360	1353	1434	1386
361712	Syvn1	1256	1305	1305	1353	1423	1547	1334	1225
500889	Mroh5	9	10	9	6	6.03	10	8.99	11
362965	Rangap1	2877.8	3243.3	2956.9	3193.5	3289	3386	3273	3052.58
295326	Mab2113	85	83	98	104	76	136	79	101
303089	Trim7	239	291	217	228	251	279	229	274
102550385	LOC102550385	496	504	440	409	513	478	492	476
286895	Brinp2	492	536	467	588	537	550	613	507
500378	Chtop11	347.05	316.47	332.43	305.54	382.8	328.4	369.2	298.65
297416	Nful	393	365	345	340	366	362	410	391
363496	Armcx6	333.97	329.27	334.33	332.2	381.4	348.1	352.6	327.02
300015	Them6	3852	3837	3464	3381	3997	3561	3810	4033
305251	Rassf6	44.08	32.14	32.21	40.13	41.94	42.36	33.1	40.03
300768	Coro2b	4161	4457	3971	4762	4582	4840	4558	4407
296390	Ube2v1	4090.4	4066.15	3717.6	3995.9	4378	4521	3893	4025.82
309446	Hps6	367	382	388	387	426	417	391	381
65164	Htra1	6460	6565	6224	5600	6320	6648	6507	6858
301382	Ercc5	271.63	251.13	239.87	246.45	280.7	226.8	304	257.91

498728	Elov12	3606	3454	2959	3489	3664	3301	3841	3510
64015	Khdrbs3	648	609	606	611	660	634	660	668
114022	Glrx2	1195	1068.96	1017.6	1053.7	1119	982.3	1193	1300.92
100362940	Snx21	1373.6	1299.86	1221.5	1131.6	1329	1412	1275	1311.31
362377	Herc3	2693	2633	2531	2816	2863	2762	2999	2688
25650	Atp1b1	20344	19598.6	16996	19746	19668	21355	21528	18726.96
100909732	LOC100909732	42.28	51.95	35.18	43.53	48.65	38.64	40.67	55.34
300147	Sbf1	2863	2871	2886	2728	3008	2988	3032	3000
292023	Aars	4773	5421	5103	5585	5619	6000	5338	5177
65046	Ap2s1	2520	2390	2210	1999	2414	2402	2379	2471
25311	Dcc	55	43	35	67	47	38	70	57
683404	LOC683404	12	12	16	10	17	4	12	20
64350	Itgad	0	8.35	11.26	1.05	6.19	9.07	5.6	1.04
102557590	LOC102557590	28.03	11.79	19.89	34.21	21.06	36.08	14.98	27.44
24439	Hagh	1194	1201	1123	1009	1181	1197	1219	1202
315546	Kirrel3	860.45	1050.46	960.54	1014.6	1093	984.5	1034	1008.07
315500	Eepd1	1840	1851	1960	1902	2085	2000	2006	1916
315159	Tob2	361	316	330	289	326	383	349	316
83529	Vdac1	5313	5417	4775	5131	5590	5501	5475	5312
296469	Nkain4	194	164	136	153	172	149	184	181
171549	Klc3	27.11	18.18	19.01	14.83	24.33	16.19	18.54	24.84
58856	Ddx25	587	554	491	522	568	521	573	622
681996	Ahsa1	2622	2624	2415	2527	2574	2740	2814	2675
170898	Tmlhe	133	154	131	112	126	131	145	160
65984	Aacs	1614	1763	1613	1635	1804	1701	1707	1813
29710	Scn8a	2004.6	2115.45	1897.5	2841.4	2678	2192	2425	2098.38
310687	Prcc	760	864	844	833	869	905	864	863
288750	Tmem132d	9	10	7	7	11	7	9	8
366013	Coq4	123	124	111	104	118	119	117	136
690079	Tex38	11	9	8	5	9	13	5	8
314678	Fhl4	28	37	20	30.97	33	24	30	36
114503	Pou4f1	2894.4	2906.41	2982.4	3199.5	3336	3260	3155	2959.59
362825	Hmg20b	451	412	443	391	470	441	464	425
102555079	Poln	51	39	66	42	50	58	56	46.04
25240	Aqp1	1638	1820	2158	1667	1849	1749	1952	2176
29430	Hap1	156	153	154	178	157	160	181	182
297076	Gimap6	26	31	34	24	34	38	21	29
361705	Cnih2	358	364	292	299	368	358	315	352
362242	Snta1	737	815	741	611	696	875	692	818
297099	Hoxa9	198.67	219.33	191.33	160.19	206	207	202.7	200.77
365372	Tbc1d10b	1724.3	1763.69	1878.8	1671	1951	1898	1904	1713.36
103694905	LOC103694905	95.5	92.5	153	98.5	173	127.3	89	77
363252	Retreg2	2167	2147	2053	2069	2281	2236	2243	2191
293705	Otub1	2122	2149	2073	1996	2374	2307	2092	2077
361196	Habp4	2256	2270	1994	2112	2201	2273	2268	2418
295338	Ptpn22	13	11	14	11	14	15	10	13
296200	Mgme1	47	45	54	50	43	50	65	50
309871	Prdml	27	22	20	29	37	31	14	22
314264	Rdh12	13	11	14	11	8	16	16	12
499205	Fam181b	218	232	214	185	225	221	201	254
360509	Dock2	218.86	253.74	264.71	245.72	277.3	232.8	233.2	299.97
140722	Caskin1	3943	4142	3809	4268	4549	4436	4306	3861
362378	Fam13a	443	423	336	445	418	498	408	424
295323	Trim45	113	162	75	139	96	159	157	107
299643	Ndufa7	895	769	750	682	843	744	759	940
361064	R3hcc1	558	554	577	543	649	599	564	557

312511	RGD1306746	312	298	299	264	326	322	319	278
299611	Apc2	3419	3934.82	3456	4112	4314	4004	3809	3711
64536	Esm1	99.79	76.62	79.94	106.42	83.56	89.39	108.7	103.43
302552	Tbc1d25	315.05	359.14	313.38	350.53	328.8	371.4	371.1	348.97
685890	Srrm3	705	673	646	775	788	763	718	702
313771	Cptp	1148	1195	1036	1030	1160	1170	1176	1174
363646	Eral1	412	401	353	428	394	417	443	438
306570	Ank1	4453	4533	4614	5321	5621	4946	4947	4571
25400	Camk2a	706	651	616	578	803	685	615	605
64158	Tubala	83807	85457.1	81140	79914	88252	89660	84345	88401.5
117024	Crym	309	275	235	236	280	290	263	287
315286	Tmem106c	319	307	298	293	294	304	330	364
498295	Smyd3	141	148	116	114	127	131	132	161
306542	Brf2	169.31	166.32	180.89	165.53	173.7	191.4	178	181.02
686505	Atg4d	526.38	519.27	495.03	467.46	547.4	518.7	506.8	559.07
306332	Aplm1	1843	1964	1893	1819	2061	2056	2015	1851
494223	Fbxl16	2012.7	2135.27	1882	2174.5	2388	2231	2039	2052.61
287653	Lrrc46	64	72	74	65	93	71	63	65
312863	Ccdc91	725	785	659.1	703.62	717	745.5	777.9	810
364534	Ssbp4	705	679	735	662	769	754	740	690
316256	Tnfrsf21	5570.9	5698.56	5573.1	6015.9	6247	6447	6204	5374.72
58953	Sult4a1	10938	10752	10000	9767	11255	10957	10996	10814
361682	Tssc4	388	431	443	338	391	432	430	446
84408	Cdh8	179	185	151	131.06	169	157	179	181
306771	Tspan17	6559.9	6141.97	5946	4873.4	6123	6327	5937	6591
367562	Gaa	2617	2782	2411	2896	2785	3257	2544	2783
499420	Prmt2	1051	994	997	976	1100	1054	1041	1072
317366	Pim2	306	375	325	317	348	369	341	347
304775	Dyrk3	50	67	68	73	74	74	70	56
678743	Tl11	299.97	300.66	258.35	344.5	271.5	378.8	336.9	290.83
310674	Plekh01	1183	1174	1106	1100	1229	1214	1205	1198
171553	A3galt2	2456	2391	2384	2263	2625	2492	2389	2577
287433	Fxr2	3222	3186	3074	3246	3357	3493	3452	3216
294436	Rpf2	337	291	267	279	286	294	330	337
300666	C2cd21	1736	1819	1805	1780	2001	2009	1793	1781
192360	Eml2	2205	2100	2073	1964	2365	2254	2203	2039
29256	Oprl1	655	694	579	707	727	729	714	629
85497	Klf15	384	314	300	287	317	393	382	273
29460	Tesk1	924.46	851.39	869.92	867.13	929.3	1091	846.2	864.74
79123	Asic1	3717.8	3860.13	3529.8	3830.2	4178	4087	3835	3767.99
287525	Smyd4	118.65	130.66	117.9	108.1	115.1	116.1	139.4	134.33
691278	Triap1	343	329	293	299	348	288	353.3	353.49
24472	Hspala	15.01	48.78	68.74	51.56	60.02	60.02	41.51	34.02
306324	Tspan14	602	531	588	556	586	597	585	651
313667	Plekhm2	1207	1355	1275	1290	1420	1383	1367	1277
103690002	LOC103690002	48.85	48.85	61.06	36.64	73.28	12.21	61.06	61.06
108353263	LOC108353263	4	9	1	2	1	3	6	7
311861	Fibcd1	3	8	3	2	7	5	3	2
500640	Ccdc711	309	258	261	275	310	292	282	288
100362027	LOC100362027	614.14	660.08	20.6	543.3	607.6	1302	19.38	24.09
171142	Ehhadh	159.29	200.93	158	156.13	179.1	213.4	135.4	188.74
688736	Kiaa08951	1962.4	1766.71	1797.2	1633.5	1950	1869	1902	1886.87
361945	Postn	82	113	184	132	96	275	77	95
287453	Rnasek	2619	2445	2444	2245	2667	2447	2553	2697
85492	Psbm7	4255	3899	3676	3412	3794	3884	3958	4561
25451	Gabrb2	231.58	205.64	260.17	299.07	236.4	248.9	291.8	281.76

360551	Bcl6b	89	75	73	66	60	69	137	56
365960	Gipc2	80	80	73	70	72	74	88	88
298575	Pink1	1525	1695	1479	1644	1663	1790	1557	1731
64119	Kcnk12	200	184	151	182	244	182	173	163
501146	Stradb	509	519.95	473.95	483	537	511	557	505.84
300289	Amot	387	324	336	431	461	381	392	337
59109	Ntrk1	4353	4725	4837	4264	5263	4996	4927	4137
363285	Scly	199	212	207	208	208	220	231	219
171447	Adgrl2	544	550	529	663	584	657	676	513
24806	Tac1	4975	4545	4425	3484	4541	4239	4434	5313
685088	She	477.96	521.88	539.22	541.73	534.3	563.4	625	489.23
287637	Samd14	1497	1626	1507	1637	1785	1665	1513	1699
366848	Kank3	197	156	138	143	174	177	168	155
25302	Chrna7	1362	1400.29	1360.1	1405.9	1805	1315	1473	1284.04
296470	Pdpdf	1871	1738	1524	1585	1761	1772	1709	1900
288525	Dhrsx	456	366	392	337	431	393	385	440
316205	Lrfn2	106	108	130	115	140	111	124	113
315073	Jrk	269	277	247	283	300	289	304	251
83708	Mybph	628	551	599	595	646	664	628	585
366333	Faxc	199	159	146	192	220	162	181	177
684259	Rusc2	2419.8	2639.93	2632.9	2903.9	2889	2997	2742	2638.91
290228	Ipo4	1658	1771	1902	1904	1994	2055	1883	1761
313045	Trim62	721	733	719	828	815	806	786	784
307907	RGD1304884	7391.5	7663.01	7171.9	7621.6	8221	8225	7983	7308.88
290925	Coprs	387	387	384	326	398	374	375	431
171061	Mrpl17	2407	2323	2030	1931	2210	2272	2314	2446
362975	Cdpf1	105	81	84	77	86	92	98	93
309139	Tpcn2	371	431	437	400	434	453	507	349
309170	Fam89b	2069	2170	2189	2031	2381	2368	2165	2082
65036	Bche	75	81	75	147	115	96	105	86
300443	Plppr2	992	1001	979	1012	1083	1087	1051	1016
301240	Mrpl2	278	241	249	239	282	285	251	253
289094	Hmcn1	180	165	186	271	228	162	239	224
300748	Stoml1	1464	1574	1439	1388	1590	1518	1588	1542
690961	Cog2	565.08	563.39	517.58	525.57	550.8	529.3	649.1	580.68
361623	Trim66	72.46	73.26	88.06	90.89	106.6	87.66	77.86	73.19
58842	Preb	1628.2	1617.12	1494.1	1569.7	1752	1687	1663	1609.11
360520	Tbcd9b	4177	4303.41	4432.2	4478.6	5038	4939	4294	4228.56
296161	Ubox5	458.77	411.8	470.87	412.72	487.6	453.5	470.4	454.45
56782	Srgn	384.28	259.96	359.93	262.5	354.7	305.5	389.4	297.89
192213	Rasgrf1	225	243	167	274	250	257	206	254
64457	Ndrq4	37305	37797	32149	36158	38438	38923	38573	36626
361396	Ranbp10	959	966	925	925.98	1072	1048	970	926.98
291325	St8sia6	27	23	26	18	18	23	32	27
365985	LOC365985	1813	1497	1478	1368	1793	1687	1577	1492
100188937	Cox7c	2066	1782	1716	1563	1713	1745	1952	2172
25282	Cox6a1	7127	6484	6028	5334	6628	6364	6484	7092
288545	RGD1305455	1638	1721	1609	1730	1835	1846	1764	1681
364855	Pou4f3	478	531	553	519	537	590	563	524
170673	Palm	2918	2937	2929	2893	3111	3187	2936	3190
293684	Scyl1	1513.4	1438.83	1466.8	1501.6	1605	1667	1507	1520.18
102551408	LOC102551408	36.85	24.85	31.39	23.08	25.17	28.22	39.86	30.36
24407	Grik5	683	663	738	617	739	771	675	689
304971	Tomm401	1195.1	1003.45	1097.1	1083.2	1180	1157	1123	1200.12
25558	Stxbp1	15399	16671	14762	17911	17963	18297	16705	15926
103691871	LOC103691871	20	18	15	25	17	19	21	26

102555469	LOC102555469	99.81	79.64	99.29	83.48	111.3	86.29	100.8	87.05
681944	Mpnd	728	708	676	614	730	713	736	722
312936	Sox17	323.64	269.9	328.09	265.43	305.2	335.5	374.2	248.49
360575	Ankrd13b	906.43	852.42	894.86	821	970.8	952.8	906.4	867.98
84468	Chst3	423.34	429.54	472.05	435.38	484.7	465.1	502.8	420.96
688292	Card14	35	48	58	30	51	34	55	42
60355	Nsf	6781	7629	5835	7894	7707	8446	7213	6584
308763	Gdpgp1	160.5	152.11	135.21	137	150	191.2	135.4	145.92
309112	Cracr2b	74.88	67.19	70.77	66.43	91.28	73.27	66.68	66.03
293719	Ubxn1	1895	1976	1815	1700	2040	1971	1853	1998
294324	Agpat3	3358.8	3127.79	3105.5	3522.3	3792	3731	3266	3170.92
306622	Erich1	207	202	161	190	205	187	206	211
24577	Myc	179	171	225	216	185	227	237	193
171109	Dusp5	182	230	164	277	207	254	230	217
103691267	LOC103691267	988	1040	1019	1013	1077	1187	1026	1032
292886	Tbc1d17	637	657	638	655	664	702	675	713
65169	Scamp3	1643	1695	1620	1796	1851	1843	1757	1739
29639	Fxyd2	5234	5043	4491	4105	5477	4826	4513	5276
266976	Rims4	165.24	185.52	223.28	229.85	213.9	235.3	184.3	222.44
309105	B4galnt4	428	422	401	436	484	432	433	447
305349	Wdr19	338	343	303	424	415	351	365	368
364845	Pcdhgb8	272.03	294.03	231.62	277.75	288.3	310.1	284.6	261.99
65179	Ppp5c	1870	1814	1733	1721	1869	2009	1954	1768
100362315	LOC100362315	156	149	150	163	169	173	145	171
64665	Flot1	3937	4041	3860	3270	4107	4139	3724	4116
64862	Map11c3b	12006	11751	11287	10923	12277	12519	12043	12104
305880	Lrp10	2120	2229	2318	2322	2232	2680	2326	2333
360843	Etnk2	36	43	28	32	35	29	42	42
360569	Mrm3	177	166	147	143	152	173	162	187
366478	Pigv	211.1	178.52	164	193.06	204	191	172	228.07
300799	Dapk2	118.8	112.78	132.07	129.07	140.6	118.6	137.3	128.21
64107	Npffr1	61.24	51.25	56.82	46.37	60.43	62.96	49.41	56.87
291661	Tmco6	231.25	206.08	196.08	178.19	229.4	195.3	222.3	217.33
116691	Cyth1	620	613	574	535	638	608	655	593
292683	Sympk	2016	2144	2131	2136	2350	2414	2126	2084
363138	Nprl2	425	386	410	381	452	413	415	426
362873	Plxnc1	1816	1753	1662	1374	1822	1196	1963	2053
306349	Tmem591	2675	2651	2404	2890	2802	3031	2894	2583
289716	Ccdc96	62.78	71.29	70.16	49.08	58.11	62.35	82	67.31
685691	Eid2	516	477	523	514	615	506	527	514
305457	Letm1	1071	1081	1072	1005	1230	1107	1117	1050
308453	Coq8b	407	464	476	375	471	476	442	445
500540	Slfnl1	33	27	33	30	32	32	34	33
363133	Pcbp4	5631	5689	5717	5085	6045	6054	5625	5837
501181	Efhd1	213.99	234	239	194	234	219	263.3	221.99
83506	Camkk2	158	194	148	161	198	188	164	154
680624	LOC680624	0	1.76	3.09	5.91	0	3.06	4.02	4.38
300664	Abcg4	1083.4	1157	1109.3	1148.9	1220	1293	1208	1069.83
245977	Adgrf5	830.6	817.76	773.68	725.84	884.1	856.2	840.8	771.68
791259	Car14	85	85	59	78	89	90	79	69
316916	Clptm11	1880	1996	1892	1845	1981	2024	2044	2060
360753	Pnpla6	1194	1239	1192	1285	1348	1357	1263	1262
499125	Sdhaf1	563.5	554.25	564.75	476.75	556.5	559.8	608.5	575.25
100137086	Jmjd7	28	46	36	28	41	34	43	29
367160	Cpne4	2043	2274	1989	2431	2317	2411	2417	2162
295691	Frzb	111	97	101	120	120	94	107	136

25073	Scarb1	790	709	725	717	865	776	765	727
114636	Zyx	1141.8	1235.97	1288.8	1473.9	1281	1471	1483	1241.88
100910536	Elf2	114	101	107	152	136	137	131	101
686432	Ly6l	36	17	31	23	20	39	29	26
312634	Mtmr14	615	591	529	557	661	629	552	600
305830	Fbxo34	695	757	667	706	741	763	763	743
500087	Fmc1	248.96	233.95	230.27	217.35	234.7	244.1	248.2	264.51
681820	Erich5	17.94	15.29	12.83	13.49	21.45	7.77	9.45	24.78
682102	LOC682102	25	36	39	22	29	34	36	31
83633	Gabbr2	4412.6	4661.72	4456.6	4981	5330	5088	4703	4604.84
298700	Eif3g	1594	1487	1295	1280	1529	1526	1505	1467
313262	Pappal	146	122	193	179	196	160	188	138
29457	Map6	3509	3885	4023	4001	4232	4577	3903	3718
500153	Ccser1	72.45	51	55.47	74	75	60.53	62	72
305581	Pex13	325.61	352	314	303	332.7	370	341	336
298381	Echdc2	37	33	38	29	31	46	34	35
300993	Hyal3	238.19	299.04	277.08	246.84	274.6	272.6	299	284.68
304318	Iqce	444	426	402	417	460	450	476	414
305475	Osbp2	627	639	567	647	623	682	652	686
362440	Ndufa9	2080	1943	1754	1769	1880	2070	2060	2032
361286	Msrb2	453	441	340	333	409	405	435	421
362087	Ubac1	1236	1197	1232	1094	1289	1284	1268	1231
316507	Shd	440	385	345	396	429	422	402	416
316273	Mcm3	79	71	91	63	83	91	84	66
314648	Ncln	1324	1330	1391	1332	1500	1472	1413	1346
314639	Zfr2	477	477	429	500	537	546	455	469
361694	Pitpnml	1212	1205.57	1068.7	1230.9	1271	1305	1235	1216.46
498709	Cks2	15	24	30	22	16	34	21	26
292787	Lin37	280	306	273	248	312	287	299	282
501403	Cbx4	316	361	294.93	318.93	366	359	324	327
290652	Fkbp8	5082	4988	5207	4693	5363	5379	5205	5341
313783	Olfm2	296	272	249	304	259	324	330	282
679907	Pam16	474	485	433	395	515	458	439	493
103694097	Pgbd1	47.69	50.1	35.47	50.12	59.93	47.69	54.18	33.69
499171	Klf13	82	107	134	116	147	131	111	79
361495	Usp29	269.54	242.58	157.87	190.91	171.5	202.1	297.3	246.96
498662	Tdrp	997	890	808	828	968	904	934	950
29443	Ahcy	933	942	977	912	941	1045	1009	1018
171572	Tt1	7464	7573	7437	7876	8748	7689	8424	7498
108349535	LOC108349535	2.95	1.43	2.87	0	1.27	1.03	2.46	2.97
303698	Pgs1	1651.5	1726.59	1532.4	1472.6	1759	1754	1643	1650.34
300036	Tsta3	507	528	430	452	494	535	482	533
100911825	LOC100911825	25.09	15.56	52.6	41.37	11.91	23.85	66.56	41.22
301701	Ndc80	55	39	60	42	55	55	58	41
688272	Rnf157	7492.5	7416.59	6999.4	7830	8268	8233	7845	7365.99
303812	Vwa5b2	1240.9	1314.46	1335.2	1315.7	1502	1491	1356	1203.36
100912141	Tro	806	793	751	736	831	821	791	848
304667	Rtbdn	68	77	71	70	88	73	68	76
25728	Apoe	72357	66004	61949	62903	76092	68626	64907	71079
300989	Hemk1	94	87	70	80	90	77	90	96
299857	Shmt2	896	954	778	891	979	976	924	874
171041	Klc1	32571	32486	29628	31428	34315	34035	33821	32334
304542	Coq5	636	593	542	558	639	598	638	609
287645	Snf8	936	850	806	695	816	910	899	881
117092	Serpinb7	2	7	1	5	2	3	5	6
288909	Nanos3	3	5	4	3	6	3	3	4

408246	C1rl	23	31	34	17	29	26	36	21
291793	Abhd3	792	692	607	696	656	773	814	730
140581	Patj	2411	2490.09	2010.1	2541	2516	2595	2555	2417.04
363076	Tipin	87.9	100.31	72.45	53.2	73.46	63.61	96	101.74
288743	Sgsml	1407	1576	1317	1615	1600	1605	1479	1626
293649	Lrp5	292	318	323	369	354	371	339	325
246310	Arfgap1	777	798	721	652	804	779	810	752
316136	Gpr108	754	772	731	780	797	845	816	782
305628	Ccdc18	20	29	38	24	28	24	31.42	35
29422	Chrne	224.04	354.59	282	306	273.2	284.1	347.3	340.06
360467	Tvp23a	416.91	433.46	368.99	376.91	472.2	414	412.3	404.54
287635	Mrpl27	471	449	408	376	453	451	445	469
29201	Ctf1	76	67	75	66	81	75	67	80
308451	Itpkc	162	170	177	163	181	177	187	172
364879	Isoc1	665.82	928.61	928.61	573.82	940.6	803.2	972.6	587.82
684811	Arhgef101	1714	1745	1670	1649	1881	1816	1746	1789
361219	Fbxw17	271	278	259	222	295	279	291	234
689625	Slc25a45	233	290	255	237	279	297	281	226
103690156	LOC103690156	660.24	614.01	676.84	698.48	876.1	626.9	674.1	650.04
100360015	Car10	1412.9	1421.45	1304.1	1347.9	1482	1571	1443	1357.73
314670	RGD1564409	16.94	9.9	9.93	8.27	20.72	10.03	6.52	10.79
311021	Nmi	152	145	113	97	106	131	151	153
367743	Praf2	2857	2809	2735	2735	2865	3048	2991	2979
116457	Mapk8ipl	12003	12167	10932	11638	12276	12829	12023	12749
287545	Sarm1	1445	1477	1509	1633	1630	1586	1703	1552
103690005	LOC103690005	1505.4	1448.09	1508.5	1213.7	1470	1495	1521	1570.81
501002	Tmem266	39	31	24	40	41	39	34	29
362837	Ndufs7	1247	1175	1041	1003	1265	1317	1031	1153
287273	Nhp2	233.28	220.44	199.46	179	243.3	210	209.4	225.42
246767	Cyp4x1	328	363	351	342	371	361	377	368
304785	Slc45a3	61	65	60	52	65	62	56	71
114562	Cdc37	2717	2750	2698	2631	3007	2955	2678	2882
100360664	Rrp36	446.13	394.83	382.48	358.9	451.2	376.9	380.1	480.63
161475	Psmd9	817.85	842.32	779.24	657.56	937	801.5	743.7	823.12
680036	Msrb3	273	223.34	253.36	242	263	325	273.4	197
297337	Rnf181	1532	1441	1398	1246	1463	1489	1493	1550
103690082	LOC103690082	2029	1988	1873	1925	2052	2105	2205	1979
304479	Mlxip	407	417	426	487	512	437	456	449
312275	Ephb6	741	971	884	863	881	942	806	1063
360878	Klhdc9	20.83	19.3	20.38	24.4	20.87	20.16	24.79	24.81
290877	Tmem255b	233	220	202	176	235	242	180	230
315707	Csk	2064	2293	2389	2273	2530	2515	2337	2245
689046	Ccdc84	102	130	122	105	120	140	114	116
294251	Ncr3	3.42	3.34	9	2.3	5	9	1.28	4
287556	Rhbd13	319	258	223	325	285	321	289	306
94340	Acs15	768	810	690	707	781	773	811	811
503000	Ctnnbip1	785	810	797	775	844	873	847	817
25326	Jak3	171	149	184	147	177	180	178	160
100360867	Ypel1	234	238	216.29	196	239	237.9	206.1	261.05
114597	Suclg1	2419	2328	2011	1941	2334	2231	2332	2390
361437	Dbn1	291	283	275	245	297	307	261	303
366001	Arrdc1	916	925	892	741	922	1011	927	849
362944	Ppp1r16a	387	407	361	367	393	399	420	413
287199	Nudcd2	188	222	207	151	168	203	205	244
366466	Maneal	1173	1147.35	1084.9	1165.1	1265	1194	1231	1189.35
58934	Pdcd2	272	277	274	225	267	283	257	312

361128	Nr2c2ap	635.09	683.42	593.63	472.43	588.7	638.3	655.3	663.95
64304	Acads	661	585	551	593	699	623	627	603
309376	Zfyve27	2577.5	2739.53	2599.6	2614.5	3012	2706	2808	2719.28
312488	Atp6v1b1	1	4	2.76	3.15	1.02	2.02	3.78	4.83
84355	Atox1	902	797	840	645	869	806	853	872
362959	Tmem184b	2422	2410	2456	2350	2486	2702	2661	2443
301254	Aars2	297.65	308.45	270.99	272.98	289.6	367.4	298.4	272.79
64667	Sgta	1896	1896	1873	1797	2029	2101	1872	1967
682812	Dcaf12	630.62	609	653.56	576.74	704.7	624	672.6	636.46
100361126	RGD2320734	192.29	158.36	149.72	132.88	156	161.4	171.4	187.51
314622	Cbarp	1826	1752.11	1685.8	1597.8	1941	1924	1791	1672.65
29571	Scn10a	10651	11204.3	11197	11215	13271	11557	10945	11503.43
679154	Gareml	96	108	102	150	132	129	130	96
116560	Kcnj9	63.37	56.62	81.64	72.88	78.98	78.68	65.25	70.27
296988	Mkrl1	2151	2035	1985	1894	2192	2202	2162	2058
56769	Ndufaf3	371	366	361	312	363	376	342	425
291960	Hsf4	671	623	611	635	702	689	668	654
64391	Dapk3	747	715	697	704	820	778	727	733
295956	CommD9	605	513	479	472	524	587	546	553
311827	Adamts12	90	88	65	65	68	77	79	105
100910811	Tmem249	14	10	9	11	10	16	11	10
307644	Kifc3	332	293	315	262.03	311	357	277	339
301008	P4htm	1209	1247	1089	1058	1174	1302	1130	1311
292661	Ptgir	394	429	435	471	520	410	432	485
300719	Cib2	2139	2056	1914	1830	2252	2107	2007	2115
102554302	LOC102554302	140	89.18	89.01	124	115	102	122.4	133
303565	G6pc3	1467	1525	1459	1401	1453	1760	1501	1538
25648	Slc7a1	1343.4	1398.88	1210	1502.2	1474	1413	1368	1572.77
501052	Tusc2	2783	2663	2383	2315	2730	2700	2646	2762
306750	Fbxl21	53.03	51.83	44	36.28	46.06	42	54.75	55
266975	Sars	3647	3639	3396	3549	3875	3777	3881	3672
681708	Tmem41a	778	773	816	785	929	835	805	799
246272	Cant1	625	664	690	647	707	727	676	696
301249	Mrpsl8a	814	822	695	718	819	810	786	843
303277	Pigs	1029	1072	1085	1073	1155	1152	1132	1112
311617	Fitm2	721.71	708.46	742.44	744.97	897.5	791.7	677.6	750.87
54133	Pdlim1	863	794	871	869	909	951	926	844
301117	Clpp	483	448	423	366	471	406	488	473
315463	Timm29	1681.7	1546.68	1506	1536.9	1658	1596	1706	1740.69
100360692	Pbld2	33.37	30.49	40.15	27.08	36.44	36.17	29.43	38.05
114505	Klf4	178	150	204	225	204	253	237	115
300111	Samm50	1190	1146	1064	1069	1161	1238	1214	1163
83527	Dbn1	2080	2156	2064	2053	2202	2373	2099	2253
292878	Emc10	1946	1998	1991	1908	2129	2158	2015	2080
192249	Ehd3	7422	7541.95	7050.1	6613.6	8240	7474	7381	7503.01
64832	Cplx1	19409	19417	16879	19009	20234	20154	20226	19244
100360417	Rusc1	3719	3707	3490	3857	4101	4229	3667	3794
302915	Pmm2	1137	1137	1100	1078	1124	1201	1173	1261
103693563	LOC103693563	474.82	499.44	448.62	508.36	532.7	528.1	521.7	482.07
117089	Bex3	1667.3	1529.4	1470.7	1441.2	1700	1579	1584	1667.59
296551	Mrpl41	939.96	822.9	811.67	706.21	883.2	807.1	895	922.02
313085	Osgin2	204	226	219	205	192	194	243	284
316794	Brcc3	516	455	461	435	494	497	539	466
691857	Pygo1	45	49	53	70	56	50	59	67
499076	Ppp1r12c	1820	1802	1683	1580	1950	1926	1846	1639
287462	Camta2	2684	2766	2693	2810	3037	2934	3012	2728

116745	Kcnh6	503	475	436	477	524	522	472	504
363153	Arpp21	543.24	526	465.01	666.09	557.5	675	559.3	561
25502	Oaz1	5625	5621	5250	4625	5704	5745	5498	5638
310537	RGD1560010	109.69	134.38	110.43	100.47	109.3	92.37	141.3	143.53
306490	Mtmr7	2021	2130	1639	2028	2055	2226	2098	1981
65199	Kcnip3	4210.1	3989.04	4006.6	3952.7	4655	4339	4290	3994.94
365972	Bhmt2	10.44	10.09	7.37	9	12.79	8.65	10.54	7.48
25510	Pcp4	8683	7892	6320	7587	7649	7836	8241	8871
500685	Plekhd1	2140	2350	2165	2307	2359	2751	2235	2239
24159	Acly	7323	8054	7696	7468	8111	8379	8140	8031
317578	Sash3	64	60	62	30	61	67	51	52
310641	Trim46	650.05	624.51	658.61	603.34	686.4	679.2	631.7	715.29
361831	Ube2d1	903	1008	847	955	980	1003	1000	988
29678	Sart1	804	854	857	821	868	933	865	902
83535	Kcnj11	164	172	171	183	190	228	156	164
192645	Wbp2	9710	10505.5	9698	10865	11216	11617	10328	10455.46
311336	Nusap1	51	30	58	19	49	37	51	32
56780	Acpp	1708	1712	1727	1585	1979	1632	1872	1718
25121	Pcsk2	1491	1418	1203	1441	1599	1480	1561	1300
641315	Iffo2	48.27	49.03	52.68	60.47	69.02	49.26	45.45	61.39
360958	Ablim2	746	875	732	902	895	885	836	866
290279	Eeflakmt1	256	234	290	238	243	290	283	273
303689	Ube2o	5163	5317	4942	5626	5851	5957	5627	5081
317431	Ribc1	49	60	57	49	56	58	54	62
450225	Krt10	59	52	60	44	53	57	66	54
116498	F2r13	10	10	16	7	12	4	21	9
365546	Tspear	26	25	12	23	28	21	27	16
85327	Lin7a	62	81	70	88	86	52	87	97
103691294	LOC103691294	3.19	2.08	13.36	4.29	7.54	7.6	3.33	6.05
312502	Rab11fip5	2723	2935	2913	3130	3136	3274	3080	3028
305506	Eif6	987	965	973	812	1030	1007	950	1011
361069	Dmtn	4591	4926	3953	4416	4791	4984	4727	4634
79115	Evl	1622	1776	1721	1777	1903	1909	1737	1829.01
498433	Psme4	2640	2481	2749	2617	2850	2636	2970	2764
192248	Cdh13	1433	1379	1685	1526	1540	1823	1542	1539
361722	Bsc12	2307	2370	2094	2163	2484	2488	2249	2338
29445	Cox4i1	6380	6292	5507	5200	6189	6121	6254	6451
289083	Tsen15	486	468	389	429	467	452	469	508
25576	Ywhah	31298	31184	28594	29770	33204	32713	31895	31491
362667	Thap3	157	165	166	155	179	170	170	169
500911	Serh12	455.56	447.79	354.23	541.77	472.1	472.5	469.6	511.17
685989	LOC685989	14.04	3.94	10.54	3.75	14.64	3.6	8.81	7.48
308443	B9d2	184	164	179	144	173	167	175	203
103693389	LOC103693389	46	46	68	54	65	50	66	48
56778	Ly6c	17.05	22.58	17.02	1.69	16.92	16.49	13.02	16
305478	Rnf215	540.4	499.11	469.55	478.48	511	501.8	547.2	567.01
295270	Sf3b4	493	528	479	510	569	553	544	485
288044	Tm4sf19	16	21	11	9	18	18	14	11
54237	Cdk1	36	21	43	14	38	34	23	27
362672	Lrrc47	539.47	559.24	552.37	561.59	631.6	570.6	586.5	579.43
679119	Bmp8b	1	0.99	0	1	1	1.2	0	1
308441	Exosc5	266	249	218	206	248	249	230	278
361796	Abhd16a	1418	1511	1313	1273	1513	1550	1435	1405
295430	Ndst3	264.69	252.7	293.6	279.15	312.5	256.4	280.4	317.53
25545	Selenow	5320	5093	4879	4329	5280	5382	4973	5367
103694037	LOC103694037	13.79	14.19	9.01	11.27	13.25	14.39	9.2	14.82

450224	Omg	636	581	501	692	574	648	655	703
100912566	LOC100912566	1837.6	1775.09	1482	1695.6	1814	1762	1887	1805.78
266805	Has3	51.04	48.06	47.97	66.03	46.02	57.07	65.05	60
308458	Sptbn4	1049	936	1029	1109	1188	1094	1039	1093
309613	Zbtb12	45	31	52	42	45	40	45	52
362436	Gpr162	464	510	446	435	511	514	438	523
652956	Mpp1	1185	1180	1171	1149	1229	1246	1252	1289
25736	Kcnb1	945	870	858	1007	1099	933	996	912
100360645	LOC100360645	15586	15857.2	15614	14968	16500	17022	16626	16260.13
684871	LOC684871	66.52	70.52	145.03	93.03	82	95.55	148.6	75.52
291648	Pcdhb11	88.96	85.53	80.67	78.33	85.61	76.34	98.82	96.3
498546	Serp2	539	506	456	391	520	473	483	550
64445	St3gal3	331	373	360	371	318	407	415	397
316209	Med20	545	534	480	495	530	516	547	607
286894	Parml	2673	2868	2838	3283	3492	3096	3026	2877
303569	Rundc3a	4224.9	4312.04	4097.9	3924.5	4701	4626	4200	4209.31
292268	Rmnd1	618	579	494	474	544	594	578	603
305166	Gpat3	129	168	145	148	141	175	167	149
293484	Eif3c	4603	3290	3236	4491	4681	4515	3301	4235
361013	Ube2e2	600	530	581	536	602	641	611	553
58839	Nrbf2	456.13	470	418.89	352.97	429.9	454.3	476.3	458.34
102550903	Ufsp1	653	547	577	526	626	699	570	572
116782	Pcdhgc3	1835.1	1950.69	1984.4	2204.7	2301	2041	2137	2063.31
500572	Otud3	124	112	105	136	150	125	125	111
25339	Npr3	833.39	730	962.6	1226.8	894	953.7	1235	937.64
362851	Cd320	472	432	366	369	457	452	428	419
308405	Dmpk	797	723	778	685	749	1079	685	683
300074	Fam227a	72	52	59	55	59	53	75	68
501145	Satb2	12	16	13	15	12	27	15	6
690038	Bag2	143	144	144	128	120	150	170	159
362518	Tmem246	1052	1118	923	987	1128	1148	1054	1042
103690067	LOC103690067	489.64	391.22	187.2	419.69	323.5	480.9	519	270.81
311254	Pdhx	484	524	469	506	539	521	545	520
361224	Card19	727	661	660	549	682	683	710	708
298944	Gpr22	315	304	270	352	330	322	353	325
500485	Cer1	8.2	1.01	7.39	9.19	12.56	4.55	4.86	5.67
60377	Lin7b	286	333	254	256	315	300	256	339
316226	Klc4	449	428	461	460	479	499	464	485
295213	S100a13	573	449	453	392	506	429	554	512
29246	Stmn3	10559	10059	9500	8987	10891	10049	10064	10908
290811	Tti2	182.02	165.74	232.63	197.23	191.5	223.3	188.5	230.09
613226	Slc6a17	2806.9	2861.42	2417.1	3364.1	3137	3301	3109	2725.04
494196	Ly49s6	8.51	12.11	10.88	9.3	13.1	11.4	12.1	7.13
64194	Insig1	3319	3619	3345	3152	3467	3620	3557	3756
83579	Gnb5	1087	1115	1003	1109	1152	1189	1182	1101
691093	Tpgs1	793	765	718	645	792	784	735	820
24628	Pdgfb	165	224	195	181	166	215	240	199
29619	Btg2	277	286	237	549	471	421	340	214
24255	Cftr	20.74	23.08	23.52	20.53	27.41	23.83	23.48	19.47
296587	Dnlz	429.64	341.23	386.56	376.75	410	403	367	464.54
114214	Dffa	2493.7	2458.56	2221.4	2301.4	2614	2621	2520	2402.32
685322	Uqcr10	788.71	737.64	694.28	583.12	771	703.6	710.6	820.49
689025	Mrps28	62	74	54	46	52	63	67	71
83616	Trim3	1363	1309	1299	1245	1436	1401	1404	1351
689711	Rflna	55	43	70	40	46	40	63	74
64201	Slc25a11	1076	1110	1039	975	1036	1212	1146	1109

24644	Pgk1	5461	5368	4986	4911	5228	5669	5656	5669
313633	Ephb2	65	68	114	86.89	77	89	96	96
288691	Ksr2	315	286	261	412	400	309	320	337
302975	Syngn3	3316	3361	3228	2928	3483	3494	3348	3435
363081	Igdcc4	690.66	759.72	573.27	850.49	795.7	833.9	743.7	708.46
116548	Pcsk5	208	245	223	279	252	237	273	262
260327	Fndc5	569	535	403	624	593	631	502	559
60349	Nr5a2	18	26	19	20	24	22	21	22
29743	Slc25a1	1789	1993	1811	1648	1769	2012	1882	2102
93667	Olfm1	5807	5616	5296	5722	6257	6195	5543	6071
361604	Sytl2	4402	3859	3878	3907	4345	4411	4242	4210
684516	Kcnc4	1741.1	1941.1	1737.9	1801.4	1970	1941	1783	2051.3
64345	Hif3a	27	11	13	18	34	29	8	3
25274	Tst	528	452	366	434	494	507	470	438
108348056	NEWGENE_1306714	120.65	136	122.23	149	155	122.2	141	148
292569	Zfp444	381	385	389.65	443	412	440	451	411.6
682105	Reep2	4448	4260	3842	4058	4565	4603	4329	4316
25237	Acvrl1	244.43	246.23	300.29	235.76	255.5	270.9	307.1	267.74
288564	Pop7	235	228	222	197	213	245	252	236
54279	Cntn3	192	206	197	218	228	223	220	201
288109	Sidtl	40	33	14	37	37	32	33	31
63848	Fxyd7	7097	5469	6012	5432	6763	6195	6193	6602
303685	Mrpl38	556	547	516	488	526	628	547	559
308178	Vps37c	427.5	536.51	446.5	475.5	502.7	546.5	487.5	486.47
29216	Lrp2	52	54	49	65	50	55	60	71
117018	Kcnh2	2682	2703	2355	2929	2868	3277	2830	2470
114518	Slc7a10	18.57	13.03	8.31	11.13	17.31	10.69	14.37	12.39
309525	Slc16a12	257	298	266	317	284	267	337	333
297593	Usp5	6210	6446.63	6122	6445.2	6946	6964	6713	6441.06
297846	Cntnap5c	211.54	195.21	202.39	220.44	247.3	194	217.1	231.72
502374	Polr21	407.59	474.3	442.58	335.87	436.3	439.9	416	489.45
287982	Abcf3	1903	1864	1668	1902	2028	1989	1968	1888
103692785	LOC103692785	173.86	137.67	163.91	75.25	155.4	99.9	139	196.66
25066	PVR	122	131	134	119	123	145	152	123
498523	RGD1565170	1.89	0.64	0.22	3.95	1.25	0	0	5.94
29333	Cd46	73.93	105.23	94.31	72.92	87.57	75.27	93.11	115.78
100362102	Lsm14b	1175	1191.57	1162.6	1199	1295	1343	1270	1166
691770	Ankrd63	12	7	15	7	8	12	14	10
445271	Jph4	2571	2533	2505	2625	3085	2700	2585	2613
297518	Arpc4	3164	3735	3839	3258	4115	3686	3732	3489
360617	Mien1	1176	1128	1124.2	1012	1190	1161	1176	1239.29
63834	Capn10	414	399	397	331	451	415	393	395
364878	3-Mar	53.04	52.24	54.95	44.1	52.03	61.51	57.74	48.04
305685	Comtd1	540	570	494	467	582	575	526	540
287876	Actg1	31778	32999	33430	29615	32472	35492	34068	35172.26
304474	Pitpnm2	4740	5140	4989	5115	5759	5423	5298	4971
287120	Tb13	599	612	606	539	630	648	622	629
361527	Pld3	2754	2945	2939	2830	3032	3298	3007	2974
79246	Htr3a	2306	1999	1992	2175	2433	2176	2245	2242
293586	Zfp511	219	200	173	190.55	194	204	226.5	215.68
362301	Tmub1	373	406	443	351	446	409	402	432
292732	Numb1	1806.8	1995.87	2115.9	1973.4	2246	2160	2030	2037.81
301606	Espn1	12.5	13.41	19.48	12.32	12.06	13.71	22.25	13.95
29214	Tubb5	23535	25601.7	23649	24146	25923	27287	25214	25663.54
301432	Ppil3	271	298	264	237	277	275	279	318
108348912	LOC108348912	120.37	92.33	51.59	40.91	104.4	44	88.86	90.47

299647	Zfp414	339	325	329	333	375	342	350	357
293704	Trpt1	219	195.45	203.21	203.68	199.1	248.5	215.7	218.9
89791	Ncdn	12429	13259	12513	14003	15414	13931	13686	13037
315746	Cln6	751	785.39	740	731	819	860	795	756
314613	Rnf126	616	636	604	547	658	628	641	654
316626	Hes6	307	277	309	214	299	273	268	349
680874	Rnf223	109.18	109.83	144.52	102.19	137.6	113.5	116.1	132.94
499781	Cfap157	130.13	118.5	113.72	154.04	162.3	153	121	118.34
100910754	LOC100910754	30.77	11.26	35.3	11.8	17.89	29.42	35.61	12.82
59114	Slc9a3r1	1526	1495	1291	1553	1632	1635	1538	1495
311866	Lrsam1	2365	2410.51	2348.9	2506	2664	2655	2630	2396.1
291234	Mki67	216.26	168.24	444.13	128.71	367	248.2	238.9	174.23
315405	Dcun1d5	593	548	535	467	596	528	578	600
171124	Mms19	1402	1604	1410	1595	1623	1671	1607	1556
24816	Tbxa2r	39	39.71	63	49.35	49.62	57.37	54.63	43.62
289745	Mtfp1	53	46	34	42	51	50	35	52
300744	Ub17	1661	1728	1630	1615	1790	1806	1711	1820
364069	Hlx	60	79	79	78	82	87	70	79
117540	Plscr1	63.58	59.67	56.4	49.02	46.67	39.86	71.43	87.71
306868	Bloc1s5	699	674	613	660	736	630	723	754
290370	Dnajc15	535	536	405	458	505	480	516	577
497857	Dexi	855	827	742	812	902	892	865	818
362826	Atcay	2532	2475	2191	2557	2721	2635	2591	2535
246216	Prpf19	3767	3717	3282	3641	3763	4069	3950	3699
100911871	LOC100911871	34.24	21.6	29.59	41.73	38.36	34.41	35.03	28.84
499688	Gstm6	57.08	44.12	44.2	56.08	45.28	65	57.19	49.04
100910806	Trim15	73	91.69	100.48	93.3	91.65	107.1	106.8	79.67
306344	Arrdc2	236	190	197	181	209	281	219	155
291852	Katnb1	848	853	871	856	882	1004	906	892
29270	Spr	350.22	361	351.16	298	365	332	376	389
29533	Pxmp2	68	76	65	72	77	81	61	83
29884	Bok	699	605	561	503	648	571	629	697
103689977	LOC103689977	74.46	53.13	83.67	70.33	61.63	56.88	81.76	102.37
316539	Epha4	77.19	68.73	83	101.65	98.3	91	85	81
298917	Iah1	327	295	280	301	296	303	339	355
399489	E2f1	315	285	305	271	330	316	312	306
287155	Stub1	2382.8	2515.13	2435.8	2171.9	2607	2548	2560	2501.48
102546889	LOC102546889	50.44	56.7	50.29	49.31	61.01	63.79	37.6	59.82
297799	Mrpl15	640	579	570	521	598	641	633	611
300078	Dnal4	295	271	257	264	300	284	298.3	286.12
360827	Ulk1	1015	1030	989	1104	1121	1198	1092	1037
432367	Npc111	14	14	4	8	12	11	6	14
353305	Tbx3	347	332	349	384	387	388	377	366
83525	Ogfr	666	650	630	597	675	689	668	702
361215	Auh	2307	2176	1888	1952	2183	2237	2272	2257
310486	Rarres1	1706	1705	1684	1512	1775	1843	1669	1817
84422	Gfra3	1186	1237	1152	1090	1340	1261	1194	1221
140635	Flt3	417	437	390	457	430	527	465	407
689730	LOC689730	1.86	1.86	0	0	2	0	0	2
361627	Zfp143	186	210	190	224	212	225	217	217
299154	Churc1	227	223	205	181	180	227	236	256
688811	Slc25a28	480	460	434	364	447	487	503	432
84030	Chn1	2187.3	2144.41	1943.8	2097.5	2571	2216	2121	2096.43
108350662	LOC108350662	158	159	156	190	225	138	179	171
315973	Acad11	192	203	193	234	200	190	241	253
296658	Ndufa8	2140.9	1991.81	1828.9	1748.9	2029	2118	1981	2164.81

296957	Zc3hc1	276	294	254	222	277	293	276	279
361974	Gatb	340	319	378	326	325	321	427	393
293655	Ndufv1	2438	2248	2153	2209	2365	2477	2425	2465
24832	Thy1	31801	31311	30525	31648	35633	33293	32226	33607
306759	Spock1	1138	1220	1151	1357	1383	1296	1357	1198
25152	Map1a	32435	36773	33697	46257	42817	42448	38595	36585
100912292	Enho	442	398	340	366	403	415	391	454
687758	Pip5k11	269	182	175	206	227	226	227	215
360977	Tbrg4	553.83	653.14	639.41	547.92	645.9	694.5	614.8	620.54
361972	Tmem154	202	219	212	198	226	223	228	217
298848	Mapre3	3876	4035	3745	3796	4086	4421	4028	4090
500689	Ttc9	3451	3280	2844	3122	3543	3435	3373	3310
691393	Oxa11	1405	1368	1308	1322	1482	1486	1413	1433
60565	Syt6	265	231	238	265	288	262	258	267
316444	Mdh1b	17	20	28	27	33	18	21	27
497967	Zfp830	120	125	135	106	107	122	141	153
290626	Haus8	115	111.97	114	105	137	125	100.9	117
54311	Timm17a	996.58	960.44	877.72	860.32	1011	1007	951	1008.05
29740	Eci1	309	298	276	258	263	297	325	343
298072	Trmo	24	33	29	32	32	28	30	37
687861	Mmab	308.54	327.64	302.81	293.96	367.3	340.8	287.9	331.07
303180	RGD1304587	207.02	194	216	195	230	213	195	236
78968	Srebfl1	1397	1480.39	1437.7	1586.1	1589	1647	1589	1526.7
64534	Pim3	779	727	652	723	847	847	712	695
103690013	LOC103690013	223.72	213.56	183.54	179	229.7	210	202.6	218.58
108350059	LOC108350059	281	229	265	285	271	310	274	286
298805	Slc4a1ap	687	718	722	699	811	744	772	715
24659	Pmch	1.14	0	2.96	1	1	0	2.05	2.44
304947	Pbx1	275	217	213	262	274	246	294	227
293631	Brsk2	784	730	709	871	873	868	821	769
117277	Epn1	2014	2032	2009	2050	2173	2353	2107	2093
291990	Cog8	666	690	690	628	736	738	715	690
245962	Cd48	3028	2962	2884	2773	2654	3484	3028	3374
727679	Pdpx	589	636	597	550	637	627	612	678
310661	Vps72	482	455	448	438	471	531	482	479
81675	Gyg1	3594	3489	3069	3387	3357	3691	3904	3627
316131	Fem1a	635	733	587	725	742	765	699	680
108352018	LOC108352018	3	3	3	4	4	1	5	4
25081	Apoa1	4	3	3	3	3	5	3	3
310587	Hrnr	4	4	4	14	10	6	8	4
310772	Dennd2d	3	10	9	4	8	8	6	6
313183	Act17b	3	3	4	3	2	5	4	3
499732	Lrriq3	11	15	12	14	8	14	19	15
64305	Sult1b1	9	4	6	7	5	4	10	9
291967	Zdhhc1	372	402	395	391	402	401	453	424
500528	Ccdc17	97	93	108	92	93	106	124	97
310640	Fam189b	10560	11028	10547	10407	12432	11482	10716	11188
500801	Cyp4f17	232.56	240.95	243.65	258.7	253	245.8	332.2	220.02
313047	Yars	1842	1810	1826	1708	2018	1943	1927	1852
497986	Hoxb6	227.74	221.64	207.31	201.34	252.3	231.5	198.9	241.48
293345	Taf10	918	901	780	721	937	841	872	926
497959	Proca1	88	73	110	105	88	121	105	91
293599	Olr300	17.97	19.9	9.72	16.04	27.39	12.08	15.27	13.8
29417	Men1	1151	1145	1233	1195	1264	1369	1251	1205
29553	Kcnk3	136.24	100.81	87.47	120.24	152.5	114.7	111.6	100.44
687295	Timm50	680.75	763	739	725.02	778.2	800.3	825	729.07

25659	Khk	518	527	521	426	599	509	519	519
288717	Srrd	125.35	125.69	112.33	113.4	118.6	131.7	140.4	122.95
100361053	Hbqlb	31.24	28.52	38.63	27.42	53.1	31.46	27.73	23.25
498309	Vash2	45.86	46	33	32	46	37	35	51
291685	Srp19	729	642	604	607	670	683	678	751
64561	Phka1	593	577	547	655	672	745	547	592
497876	Mrpl28	692	722	669	558	671	729	719	727
288920	Trir	1275.2	1174	1204	1023	1334	1216	1194	1295.4
100909474	LOC100909474	0	0	31.52	0	0	33.97	0	0
303059	Ccnj1	28	18	27	17	28	16	27	26
362272	Tp53rk	80.36	66.22	80.34	62.86	75.27	81.73	74.69	80.63
50522	Ubc	18089	18785.9	18336	20033	19352	21780	19775	20190.13
29738	Kcnab2	16087	16243.6	14385	15989	17844	17249	16517	15973.71
304361	Mepce	285.47	243.2	277.47	405	343.7	318.5	348.7	294.47
116468	Rfc2	145	171	149	126	148	159	174	156
84573	Otof	261	246	260	324	344	307	289	236
100911238	LOC100911238	1285.2	1364.94	1115.9	1175.6	1338	1215	1156	1617.34
298490	Ppcs	351	328	278	261	305	324	332	352
362838	Mum1	552	503	549.05	521	530	568.4	597.4	595.02
689995	Ppplr3d	616	644	644	593	732	667	662	631
309420	Fam122a	229	218	212	186	243	228	234	206
102547078	LOC102547078	22	15	9	18	24	13	10	22
117278	Ebp	450	431	407	388	431	467	429	480
60371	Birc2	726.83	600.56	579.41	685.17	629.2	764.9	631.2	769.33
497914	Med9	491	550	466	513	523	560	538	557
79434	Rab11b	4167	4288	3930	4068	4357	4630	4449	4304
688721	Lrfn4	545	490	454	441	530	529	512	510
307171	Apbb1ip	104	103	146	107	104	134	131	127
368084	Bud23	311	295	292	239	371	277	279	299
29688	Minpp1	588	648	688	618	691	697	695	658
25434	Sparcl1	5061	5928	4510	5567	4669	6417	5755	5875
681287	Map7d1	3199	3269	3230	3432	3643	3718	3384	3414
303333	Slc46a1	552.37	522.49	648.53	552.79	556.5	597.6	655.8	644.76
57233	Isl2	1779	1765	1585	1632	2067	1739	1628	1857
314596	Rasa13	235.1	274.16	294.78	248.04	313	297.3	287.1	237.23
289197	Mgst3	2410	2344	2379	2061	2491	2442	2607	2375
287940	Hic2	70.17	42.92	67.72	59.53	79.18	49.57	65.62	64.82
59294	Pold1	103	109	96	100	103	114	119	104
362765	Angell	956	979	1013	936	1163	1016	1047	963
313173	Cntfr	1072	1042	1047	1242	1149	1257	1183	1160
300999	Mst1r	135	139	156	168	168	152	179	146
24534	Ldhd	6046	6169	5213	5992	5791	6677	6421	6372
102547897	LOC102547897	169	133	125	158	181	174	138	138
170845	Ndel1	2138	2080	1993	2229	2295	2297	2171	2341
311299	Aven	459	441	465	427	486	435	473	539
299269	Ifi2712b	1560	1493	1323	1329	1435	1552	1513	1654
299312	LOC299312	111.4	93.56	89.51	59.18	79.26	107.2	114.6	80.44
306284	Gprin2	76.38	87.22	84	113.26	129.1	92.35	77.43	90.4
100364350	Nwd1	202.17	157.74	135.95	163.88	206.1	195	137.5	173.16
100910438	LOC100910438	182.35	177.71	93.1	109	157.7	139.3	179.3	130.2
100366121	Smim24	27.44	29.25	22.53	36.47	32.46	28.91	28.29	35.15
367328	Washc1	607	656	609	587	657	688	677	631
171047	Dnph1	45	47	29	31	61	38	29	36
29481	Rgs9	30	27	23	34	28	36	28	31
300886	Mthfs	165	229	196	132	171	193	216	199
29722	Apbb1	4550	4679	4248	4531	4969	4804	4792	4866

24211	Atp1a1	49600	50726	49434	48859	55150	56937	52367	49863
500959	LOC500959	771.34	763.25	666.12	617.7	706.6	821.1	748.4	765.12
362331	Ccdc136	2310.8	2228	2115	2187	2571	2314	2377	2278
170641	Adgrl3	968.13	982.19	1054.5	993.01	1021	1125	1094	1073.95
29707	Gabra5	143	132	119	137	135	157	162	119
499194	Nmb	861	867	788	733	920	832	892	862
303786	Aifm3	556	454	480	532	563	578	532	509
497902	Uqcrq	1577	1502	1291	1173	1575	1443	1403	1561
306288	Mmrn2	316	303	329	326	343	366	337	329
314131	Insm2	429.4	460.33	424.04	404.29	541.8	458.2	419.7	434.59
171519	Calcb	2301.2	2175.85	2544.6	1562.2	2152	2215	2559	2338.23
301007	Wdr6	1965.3	2137.83	2232.8	2334.8	2261	2321	2423	2353.38
360580	Dusp14	194.08	187	197	177.3	186	203.5	226	199.83
83514	Tsc22d3	4823	3673	3184	3901	4339	4482	4252	3745
291655	Pcdhb4	39.29	32.58	35.59	31.18	30.42	38.04	45.06	36.13
309855	Fig4	1181.1	894.2	1148.5	982.16	1076	1131	1147	1185.87
85268	Hrh3	165.91	172.52	141.25	158.29	177.9	153.3	181.5	176.02
304289	Daglb	495.41	526.02	541.29	496.62	532.4	581	536	573.73
297821	Ndufaf6	154	183	183	134	178	184	157	187
246146	Hspbp1	1553	1545	1466	1359	1605	1592	1551	1646
291660	Ndufa2	731.75	679.92	650.92	480.81	679.6	695.7	658.7	711.67
362827	Pias4	513	488	485	436	575	528	483	489
299609	Abca7	3583	3802	3560	3677	4345	4032	3818	3591
25741	Pfkl	1365	1367	1270	1283	1467	1482	1379	1378
83807	Ybx3	1332	1558	2116	1320	1605	2248	1514	1463
309179	Ppp2r5b	4437	4643	4344	4426	5094	5099	4661	4419
103690221	Nyap2	238	208.01	237	245	265	252	225	260
306526	Mak16	350.98	270.26	316.37	355.77	330.5	384.7	339.5	341.91
102552805	LOC102552805	119.77	97.66	95.63	93.75	115.2	109.5	111.9	102.62
292758	Mrps12	326	337	328	275	315	314	343	395
302963	Mmp25	187	267	210	276	313	252	193	257
304979	Igsf8	669.12	711.08	676.14	697.55	747.1	827.1	671	728.53
65047	Slit1	1625	1768	1696	2071	2111	1858	1913	1850
25729	Ccnel	134	119	140	120	131	132	137	154
680477	Haus3	246.46	218.6	189.06	219.76	210.5	208	259.1	266.26
155140	Il23a	13	18	10	9	9	16	16	13
25605	Hcrtr2	7	6	6	6	7	7	8	5
292912	Rasip1	319	307	280	281	329	354	321	278
84011	Atp9a	7925	8159	7486	7875	9000	8938	8223	7801
102548600	LOC102548600	85.34	73.09	72.99	59.3	78.81	64.52	87.56	83.11
360776	Lamtor4	1134	1118	971	922	1105	1087	1026	1259
294303	Lhfp15	563	559	516	470	611	529	553	584
85239	Mlycd	420	396	416	364	455	485	399	385
307479	Jakmip2	721.35	699.99	683.74	830.02	813.2	716	881.6	759.71
296083	Vps18	472	547	504	546	572	599	539	525
59085	As1	408	387	355	317	430	393	379	383
300438	Ldlr	2124	2353	2271	2595	2661	2560	2466	2408
29526	Pla2g1b	13	6	14.18	17.75	19	15	6	15.03
363029	Swsap1	221	223	212	201	229	215	253	229
294846	Zfp622	427.16	433.93	410.11	418.11	476.3	436.4	446.5	466.16
81781	Snrpn	575.25	535.02	597.43	516.02	641.1	619.3	585.3	557.09
292051	Cmip	2182	2255.77	2358.3	2546.6	2764	2579	2404	2348.13
309200	Ints5	383	355	369	369	423	381	356	435
56813	Pthlr	272.97	420.84	391.3	302.01	362.3	421.4	358.4	356.95
306960	Abt1	276	279	249	188	269	276	250	277
317396	Ubqln2	2279	2366	2385	2642	2619	2810	2612	2411

691842	Maz	925	841.49	905	868	1056	998	929	842
309593	Gn11	1086	1039	1082	1016	1146	1228	1122	1068
289786	Nacad	7311	8038	7598	8607	8859	8967	8354	7922
307842	Vac14	1111	1280	1174	1325	1317	1383	1277	1308
102552540	LOC102552540	259.88	220.41	239.26	171.1	278.6	125.4	233.6	325.05
58950	Fkbp1b	5821	5862	5753	5051	6088	5935	5978	6303
685656	Kti12	197	171	171	154	164	195	185	205
94193	Madd	1733	2013	1755	2292	2229	2118	2033	2043
100362120	Catsperz	36	26	33	41	43	36	26	42
246281	Asmt	31	26	30	49	41	32	42	32
688600	Tcf23	121	74.01	58.21	65	104	86.23	73.01	80.72
29704	Pacsin1	1373	1412	1229	1497	1643	1528	1376	1410
678880	Rt18b	682.5	641.33	659.4	626.34	762.9	673.9	703.9	680.14
103691319	CIH9orf66	0	1.1	1	0	2.27	0	0	0
307350	Afg3l2	1240	1202	1160	1277	1351	1343	1328	1252
259272	Msi1	75	43	57	72	70	72	66	59
362834	Mbd3	934	880	988	865	1006	1051	948	959
292889	Med25	1436.2	1461.17	1399.6	1338.2	1555	1493	1534	1509.14
305493	Urgcp	793.21	830.55	771.72	716.09	858.9	871.7	773.3	859.77
25546	Shox2	405	526	288	520	454	505	504	417
291773	Taf4b	246	244	232	277	306	247	274	253
303879	Slc51a	256	266	181	209	239	247	253	247
64508	Adcy3	706	748	681	771	804	835	805	698
114501	Lmx1b	42	31	38	49	56	49	38	30
500587	Fbxo44	1884	1976	1719	1743	1949	2056	1976	1936
499185	Mrps11	410	438	364	363	412	425	435	431
304376	Nyap1	881.45	937.58	933.99	921.94	1051	1077	864.9	981.25
288272	Mis18a	101.8	80.38	88.82	69.04	113.7	64.47	56.84	132.73
360955	Man2b2	963	1035	1100	1316	1306	1516	996	955
83510	Lypla2	1359	1403	1302	1247	1409	1519	1401	1414
116695	Kcnd1	3768	4273	3866	3931	4399	4557	4161	4010
60663	Insrr	310	319	377	345	369	373	334	385
296571	Phpt1	504	418	466	392	498	467	469	491
680262	Hyls1	97	104	114	90	120	83	118	117
684785	Plekha2	404	394	334	436	466	406	460	364
310025	Ptcd2	195	217	184	212	224	218	216	216
311203	Pex16	424	405	372	366	419	459	413	404
500084	Trim24	287.78	302.87	285.83	289.87	305.6	349.8	331.7	274.63
29167	Dctn1	12389	13399	12829	13834	15139	14604	13467	13529
306782	Ror2	94	109	106	119	127	119	117	100
363471	Pnpla4	54	66	42	58	49	53	65	71
100912380	LOC100912380	7105.3	7923.07	7890.5	7613.5	8393	8649	8022	7966.81
24782	Slc9a1	1368	1433	1325	1532	1485	1769	1498	1369
288176	Cmss1	162	207	165	150	187	186	160	207
103693239	Arl4c	794	709	644	711	811	833	706	742
308393	Pnma8b	458	525	502	649	630	559	545	575
63886	Abcb9	970	961	839	1006	1020	1112	1024	930
309790	Msl13l2	173	152	127	120	154	156	151	158
292988	Mkrn3	24	13	24	12	17	21	19	22
688843	Nap1l5	5302	5187	4361	5030	5348	5232	5522	5412
308579	Cpt1c	805.37	768.29	678.21	723.27	787.5	829.4	790.6	812.34
103693776	LOC103693776	1889.2	1633.08	1508.5	1650	1765	1990	1890	1586.08
314617	Wdr18	588	593	536	504	651	591	579	583
299620	Sf3a2	530.34	580.3	550.26	561.17	598.9	640.5	599	566.77
300142	Trabd	479	467	444	418	484	527	474	472
498465	LOC498465	9.56	8.6	10.11	0	12.56	0	12.83	5.21

361992	Them4	251	292	206	258	260	264	284	282
362298	Actr3b	483	417	424	423	455	491	516	429
301334	Arhgef4	4932	5098	4758	4548	5323	5542	5063	5004
310732	Slc22a15	164.88	155.19	167.04	139.18	164.2	178.4	189.8	145.63
65210	Cyp2j4	65.99	64	67.99	59.04	80	56.99	65	76.28
499114	Fbxo27	204	170	215	209	207	213	240	204
171441	Yif1a	419	408	435	358	409	469	430	446
114031	Fstl3	78	82	87	55	70	107	63	87
50671	Fasn	7316	8578	7839	9155	8818	9764	8232	8797
497934	Borcs6	574	551	562	547	618	599	628	574
311324	Disp2	2984	3223	3368	3569	3678	3796	3460	3299
171379	Smarca4	2337	2547	2671	2884	2943	2943	2649	2769
315939	Pxylp1	278	248	331	277	276	348	293	311
304575	Plcxdl	4	9	6.75	4.25	4.25	8.49	9	4.25
102553587	Peg10	42	53	48	62	68	47	59	48
363518	Naa10	273	289	243	220	288	286	272	264
289733	Pla2g3	596	633	629	589	697	698	670	585
305505	Ccm2	809	819	742	643	839	825	746	853
500059	Prrt4	66	66	52	57	84	63	51	63
192180	Nip7	137	138	114	93	117	133	130	142
29714	Ptprn2	1008.5	1090.56	955.6	1026.1	1166	1122	1079	1052.88
83613	Nefl	127447	128131	111015	132156	1E+05	1E+05	1E+05	127740
288912	Mri1	405	460	384	362	424	415	462	444
171160	Hopx	1600	1403	1352	1215	1451	1474	1512	1597
289562	Noa1	395	342	342	313	385	396	366	361
102549235	LOC102549235	3	8	6	7	7	7	4	8
108350942	LOC108350942	9	6	4	5	8	9	7	2
24182	Agtr2	8	4	7	5	6	7	10	3
292129	Tdrd1	34	28	47	23	26	40	39	38
29446	Ghrh	5	2	4	1	4	2	3	4
315820	Myo5c	24	23	29	20	30	19	30	25
362042	Gimd1	2	3	3	4	2	2	5	4
362047	RGD1309170	4	3	1	4	5	3	2	3
290789	Cldn23	12	18	31	11	16	21	16	25
116489	Kcnk4	492.1	537.07	545.12	466.23	629.8	549.6	469.5	561.84
361550	Gramd1a	1518	1494	1328	1395	1600	1592	1590	1432
299511	Rdh16	38.46	51.95	39.64	44.95	40.9	40.98	51.78	55.96
361131	Pbx4	79	74	55	67	81	74	73	70
294422	Smpd13a	238	234	315	217	280	304	233	271
298500	Smad2	1971	2066	1808	2058	2159	2207	2063	2136
289633	Nwd2	911	543	594	924	556	661	1216	788
361358	Bean1	2868	3257	2812	3306	3264	3393	3197	3415
362284	Phactr3	263	256	211	272	262	249	291	284
366515	Wrap73	256	229	207	214	247	249	227	259
305963	Pinx1	133.36	121.5	124.87	124.74	134	123.7	151.2	137.92
289193	Fmo13	2	2	0	1	2	0	2	1.42
681410	LOC681410	1641	1614	1689	1538	1812	1847	1786	1582
306340	Ano8	1040.5	1084.85	1114.4	1076.8	1204	1175	1227	1073.55
306243	Cacna2d3	1493	1532	1374	1527	1519	1654	1705	1547
300689	Rexo2	1395	1354	1348	1222	1372	1415	1469	1511
313156	Lingo2	152	135	115	132	167	134	141	137
64444	Isl1	518	449	434	521	563	526	497	498
192253	Myo16	50	61	66	72	64	75	81	50
24245	Camk2b	1684	1722	1617	1698	1931	1920	1623	1814
102549836	LOC102549836	88	81	68	83	100	76	62	109
29189	Fdx1	69	92	84	75	84	73	94	96

64517	Thop1	612	620	579	583	675	656	612	653
360754	Zfp358	357	395	383	322	384	400	368	428
308571	Lrrc4b	1008	1068	1090	1110	1260	1228	1047	1102
500925	Ccdc184	293	363	315	320	347	370	349	334
171039	Rph3a	9395	10366	10059	12283	11816	12029	10793	11020
117287	Park7	2694	2508	2389	2167	2553	2682	2649	2698
116486	Sec14l2	745	781	755	700	783	855	862	733
294236	Gtf2h4	228	235	223	189	238	231	248	232
313717	Clstn1	9376	9908	8960	10023	9966	11687	10252	9602
296635	Plpp7	160	172	172	133	157	205	181	148
304521	Rnft2	1487	1369	1387.4	1414	1636	1605	1494	1402.08
24333	Eno1	10537	10690.2	9948	10042	11455	11008	10426	11825
79247	Htr5b	53.79	74.21	62.62	53.51	74.31	69.5	68.64	52.4
293701	Esrra	655.13	665.15	503.12	621	644	684	669	655
170588	Acot8	240.43	248.97	217.42	202.37	242.5	251.7	242.2	250.1
308097	Tagap	39	38	43	33	29	35	57	45
25058	Hk1	5196	5630	5541	5891	6104	6509	5721	5816
680465	Trappc6a	119	124	152	99	128	120	137	151
29575	Tcea2	1258	1315	1152	1177	1323	1415	1279	1302
311615	Tox2	672	681	628	698	802	702	675	728
502334	Ceacam18	14	13	14	6	13	10	16	12
65275	Gpr27	44	54	48	42	59	49	44	52
29145	Ctxnl	1086	1199	1107	1022	1317	1190	1102	1181
50592	Grial	59	54	63	47	54	63	75	50
313892	Togaram2	49	32	15	33	32	38	29	41
84393	Kif4a	24	24	48	33	39	30	40	31
84388	I118bp	204	154	174	183	189	185	199	203
287115	Pgp	1429	1313	1312	1197	1475	1470	1367	1387
83610	Apba2	1296	1438	1180	1355	1498	1400	1493	1328
29466	Aes	8296	8347	8192	7647	8983	9016	8369	8889
116561	Cltb	3859	3825	3684	3314	3931	4041	3901	4065
25413	Cpt2	484	492	413	481	503	530	489	508
299800	Tmem19	425.65	386.12	346.38	351.89	398.2	377.6	427.5	436.1
300446	Zfp653	165	147	183	147	146	180	183	188
29452	Epas1	2037	2078	1892	2138	2254	2371	2154	2064
680440	Nkpd1	18	18	22	12	18	19	26	13
60352	Mapk12	1169.2	1151.23	1012.5	1138.7	1322	1267	1106	1159.77
287828	Jpt1	2121	1926	1958	1729	2170	2147	2062	2018
114028	Ctnnd2	1038	1127	1086	1170	1298	1224	1166	1112
116728	5-Sep	5227	5182	5252.7	5214	5889	6002	5527	5248
314405	Otub2	128	124	143	118	147	138	131	141
303730	Cbx2	120	101	99	88	121	120	100	102
362053	Clca4	8	4	7	5	11	10.06	3	2
252928	Timm13	830	691	707	590	768	774	719	799
100910270	LOC100910270	38.03	40.35	46.89	64.74	73.18	54.29	52.46	26.4
432361	Nrg2	253.01	198	196	226	282	230	220	216
24338	Ephb1	517	447	452	574	541	546	536	538
170843	Khdrbs2	34	28	40	26	35	30	36	38
313244	Frmpd1	2419	2836	2543	3001	2937	3237	2759	2797
362768	Ttc7b	1399	1426	1369	1488	1498	1606	1517	1551
171097	Adap1	2959	2882	2767	2752	3228	3089	3006	3017
100363376	Cmc2	267	300	245	231	282	278	275	298
116671	Cdk5r1	245	227	220	258	291	252	249	240
79435	Ube2d4	14.01	8	4.01	6.07	11.02	4.82	6.01	13.01
359728	Rab40c	412	376	345	418	408	427	435	415
54239	Chrn2	1188	1288	1222	1428	1559	1409	1354	1247

289778	RGD1309870	4.38	10	11.5	11.71	13.13	7.77	8.33	11.61
290658	Cers1	501.06	511.84	478.3	524.4	565.7	579.7	532.8	511.72
306351	Gdf1	501.06	511.84	478.3	524.4	565.7	579.7	532.8	511.72
682787	Sumo4	266.43	258.11	253.6	343.17	285.3	369.1	274.5	289.45
100188944	Pnkd	3583.2	3988.61	3361.7	3976.9	4219	4318	3689	3974.28
685244	Iqsec2	824	877	879	942	1011	1014	909	893
291434	Rpl17	3483.4	3487.55	3524	2726	3612	3459	3673	3622.24
155151	Corola	1103	871	818	855	1073	1124	761	1005
117016	Mark1	1441	1652	1288	1661	1640	1764	1634	1528
362783	Eml1	2527	2437	2697	2331	2613	2678	2766	2802
312504	Fbxo41	292	307	296	361	366	368	327	304
317232	Magee1	1835	1985	1759	2104	2180	2184	2088	1898
306808	Ippk	154	173	160	158	165	169	177	190
291103	Uqcrfsl	1996	1908	1679	1487	1842	1922	2054	1866
25398	Cacnala	1884	1834	1929	2236	2275	2268	2113	1912
102548151	LOC102548151	9	16	6	15	11	9	13	17
366631	RGD1560556	18	15	14	22	22	19	18	16
499603	RGD1565989	7	5	8	3	8	6	7	4
682968	Isx	7	2	6	8	11	3	2	9
315119	Mfng	66	45	54	42	54	58	55	58
298873	Slc7a15	198.91	157.17	165.52	239.35	283.3	190.9	197.4	155.57
64528	Golga2	2459	2545.02	2476.7	2694	2775	2822	2655	2808.92
102554102	Trim30c	6.86	3.21	2.92	1.02	2.21	4.41	4.09	4.52
361672	Kndc1	416	452	440	504	414	509	544	503
499870	Rad51	50	37	53	32	39	49	56	43
361232	Paklip1	112	133	127	121	132	141	142	121
103693202	LOC103693202	14.08	16.64	17.13	18.4	21.87	12.13	17	21.03
500929	Tuba1b	50472	49760.9	47474	52657	53611	56021	52793	55425.41
140728	Cacng7	2134	1999	1836	2085	2349	2355	2131	1922
25665	Scn5a	58.62	50.55	46.38	64	72.58	65.71	57.23	43.2
291983	Psmb10	470	382	342	260	421	400	371	389
83801	Ptms	7418	7300	7941	7387	8738	8223	7494	8217
315220	Mapk8ip2	6562	6757.02	6426.4	7253.9	7694	7696	7176	6793.33
116664	Atp6v1f	2009	1958	1811	1715	2053	2065	2000	2030
299195	Coq6	386.6	389.74	370.32	352.47	381.5	429.4	403.9	415.39
25364	Asic2	351.13	311.99	361.74	349.71	356.5	413.2	390.8	334.18
81752	Ptger2	64	41	64	71	89	43	64	65
309459	Neur11	1065	1124	1056	1051	1222	1169	1077	1204
56827	Cacnali	100.97	89	88	136	111	107.2	111	121
290771	Pdgfr1	80	64	62	68	85	72	69	72
103693794	LOC103693794	17.52	14.11	22.31	8.15	28.09	12.72	17.94	8.78
100359592	Palm3	919.94	969.94	895.92	1003	1148	1006	1009	958
295310	Zfp697	91.85	76.5	76.26	87.42	90.06	96.64	68.43	106
24588	Nefm	161451	157676	128380	169597	2E+05	2E+05	2E+05	148816
83791	Fdps	5789	5796	5431	4822	5629	5694	5983	6447
499558	11-Mar	172	188	200	147	185	181	185	218
315695	Odf311	10	17	19	11	16	18	18	10
293494	Ino80e	657.71	691.64	626.45	673.02	772.4	726.5	697.8	684.57
29213	Tubb4a	11921	13601.3	12444	13010	14864	14932	12804	12851.84
29463	Ptp4a1	612.54	966.86	697.69	939.51	1142	681.1	735.7	939.86
404280	Midlip1	3265	3193	3057	2953	3426	3463	3206	3468
361528	Ttc9b	736	560	563	532	716	638	573	674
301529	Dnpep	1700	1577	1527	1408	1632	1628	1676	1822
690795	H2afj	151.87	112.51	125.9	109.9	106.7	181.1	109.6	146.8
303794	Dgcr6	1168	1051	1027	846	1159	1064	1040	1189
500709	Itpk1	1413.4	1601.24	1575.3	1473.4	1627	1733	1566	1671.76

140591	Ppfia3	1407	1538	1434	1593	1710	1651	1581	1556
497987	Hoxb5	116	122	112	104	110	143	112	129
360636	Slc25a39	2014	1925	1973	1716	2181	2087	1949	2083
171088	Inpp5j	711	719	688	810	847	858	749	732
500566	Stpgl	97	163.08	138	89	135	131	151	113
289007	Thsd7b	250	268	245	303	265	305	304	286
302967	Paqr4	2927	3084	2771	3046	3332	3451	3045	3043
445541	Repin1	520.92	489.52	473.54	490.13	555	573.9	457	562.41
100361465	Pate2	8	9	3	14	9	11	10	7
314328	Lrrc74a	10	10	7	7	10	8	10	9
689035	Cyb5r1	21	14	14	19	14	22	19	19
29657	Arntl	199	252	287	225	183	239	316	310
25495	Nog	145.71	118.14	133.07	131.54	158.8	159.9	130.7	125.75
501624	Bex4	106	117	107	123	124	110	122	137
362810	Coq10a	333	369	295	294	360	420	305	320
286920	Asic3	2730	2592	2795	2758	3097	3134	2923	2682
108348136	LOC108348136	312.83	478.23	472.84	485.43	415.3	507	490.8	490.82
65180	Kcnd2	35	25.72	32.93	57.55	35.78	51.44	47.52	29.83
300222	Mcrs1	667	708	648	565	687	741	697	692
117252	Dnah10	407.73	403.31	395.34	404.75	460.3	463.9	395.4	434.26
313878	Galnt14	943.69	909.37	863.46	909.72	1154	1001	885.3	906.47
246264	Zfp382	306.29	282.98	265.76	289.05	357.3	230.2	300.2	357.75
309373	Ubtcl	475	431	420	368	476	471	462	435
117265	Pex6	403.69	469.87	442.64	443.4	489.7	472.1	464	489.73
311616	Gdap111	1402	1419	1186	1318	1452	1522	1421	1402
500793	Btbd2	2565	2435	2533	2574	2826	2891	2649	2638
81613	Ceacam1	170.53	125	185.93	136.8	196.8	166.9	157.4	152.08
25630	Pkm	20067	19694	19362	18845	20730	23271	20242	20649.97
300066	Ggal	1441	1552	1512	1483	1674	1665	1619	1562
501582	Gspt2	227	216	204	216	235.6	240	236.1	228
156435	Tmprss2	24.96	15.98	19.22	31.21	14.94	37.07	29.97	17.51
29465	Trpv2	1153	1200	1195	1178	1339	1303	1276	1228
102548695	LOC102548695	250	270	252	231	262	271	278.1	281
293628	Chidl	337.31	418.73	397.24	290.32	408	376.1	409.5	378.38
362169	Alkbh3	1277	1246	1100	1057	1194	1411	1245	1246
361368	Largel	3715	3617	3390	4022	3835	4335	3992	3894
114630	Atp5mc3	3050	3022	2787	2670	3141	3105	3085	3224
288499	Slc29a4	412	380	417	375	457	421	421	426
294286	Kifcl	37	29	58	22	54	38	38	29
498909	Coq9	693	703	600	642	701	717	737	718
291081	Tubb2b	8758.1	8709.36	9046	8576	9541	9454	9201	10019.08
282819	Ppif	221.93	238.93	179.91	160	203.5	250.9	195	222.74
304298	Foxk1	108	96	113	143	135	103	117	146
102553890	LOC102553890	2.94	0	1.21	0	0	0.96	2.07	1.49
500305	Dcp1b	150	146	178	165	147	194	200	155
310256	Lrrc31	51	46.5	31.44	46.47	55.2	41.36	46.57	47.93
315059	Trappc9	787	778	829	844	927	898	862	840
311848	Sh3glb2	3984	4067	3770	3750	4269	4262	4089	4341
25638	Pde4a	60	74	59	87	73	101	78	53
100361647	Galnt6	174	178	173	180	214	179	168	207
297437	Txnrd3	523	555	524	513	599	582	586	537
310721	Tent5c	82.01	63.81	84.15	54.88	101.5	70.35	44.94	93.56
303790	Smpd4	547	553	609	617	598	652	635	649
501923	Smim20	262	279	243	211	243	278	268	295
311849	Crat	2381	2502	2487	2386	2734	2719	2617	2559
307916	Jph3	2332	2365	2287	2323	2813	2578	2453	2296

81743	Pde2a	1265	1248	1292	1288	1393	1396	1382	1378
24518	Jund	2217	2105	2080	2174	2679	2365	2143	2157
25590	Chrna4	20	8	20	19	22	15	20	16
293665	Zdhhc24	163	145	142	130	177	155	161	139
171053	Pank4	471	534	461	552	499	562	562	576
100912294	LOC100912294	38.2	42.42	62.79	48.36	54.56	43.8	59.07	51.55
314637	Slc39a3	229	220	202	207	264	253	192	226
363197	Tmem63b	3025	3151	2857	3367	3381	3670	3342	3120
689616	Apcdd1	577	590	589	594	775	650	617	519
313595	RGD1563072	333.91	356.95	264.25	323.67	381.5	362.1	305.5	344.53
363082	Pdcd7	515	531	525	497	571	573	523	587
361696	Rps6kb2	380	323	361	359	387	407	397	360
114860	Gale	512	542	539	497	564	598	547	569
83681	Cish	298	345	354	392	381	393	350	390
290640	Map1s	867	956	934	876	1054	1022	892	992
366826	Diras1	1953.3	1973.08	1665.7	1970.7	2371	2041	2007	1824.71
300447	Ecsit	687	731	635	722	741	829	738	717
64569	Lst1	10.58	9.66	17	4.7	11	8	17.72	9
683460	Proser2	76.45	68.01	68	80.19	80.09	84	81.94	73
360738	Tango2	1885	1674	1654	1658	1999	1867	1908	1717
299608	Tmem259	1381.8	1322.89	1419	1408	1487	1610	1514	1420
292739	RGD1307554	267	251	268	222	258	284	265	292
29205	Syngn1	810.22	831.96	766.74	896.39	1014	914.5	860.4	815.27
58979	Gng7	473	367.01	375	335	398	358	465	469
29147	Jag2	1502	1499	1449	1536	1807	1770	1474	1476
296134	Mrps5	452	472	455	424	517	515	471	463
298081	Trmt10b	119	122	117	95	139	109	131	115
364224	Acyp2	858	754	701	680	779	824	796	865
690367	Btbd6	1480	1449	1333	1347	1587	1553	1520	1457
54702	Egln3	201	262	192	272	228	266	244	273
689074	Camsap3	638	665	560	641	706	722	683	620
81653	Dbn1	2860.2	2808.82	2896.4	2975.6	3279	3148	3144	3016.11
303631	Arsg	136.08	139.11	125.57	126.9	140.2	150.8	137.3	147.15
362090	Fam69b	1454	1285	1263	1159	1530	1314	1349	1436
103692164	NEWGENE_1595506	708.74	630.45	581	624.27	776.7	690.2	661.4	646.93
171119	Dscam	207	203	205	255	264	261	218	206
100363510	LOC100363510	2	2	7	0	4	3	2	3
24715	Ren	8	9	6	10	8	8	11	9
303070	Nipal4	1	2	6	2	2	4	4	2
303167	Trim58	4	3	3	1	5	6	1	0
364899	Cfap53	24	19	19	26	21	19	30	26
689856	L3mbtl4	2	2	6	1	3	6	3	0
29545	Uchl1	46455	44617	40419	39268	46217	47818	45361	46892
688785	Trim8	985	1104	1071	1117	1164	1211	1136	1155
24183	Ak1	1444.1	1538.52	1417.1	1439.3	1554	1738	1540	1539.15
309637	Uhrf1bp1	507	545	541	602	692	666	537	500
25462	Hspe1	833	767	772	698	802	796	901	851
287477	Emc6	568.66	469.01	427.42	396.07	558.4	484.3	464.8	523.45
25103	Chrn4	145	158	141	191	197	185	154	157
310519	Slitrk3	1446	1469	1196	1739	1738	1491	1657	1498.42
140608	Atp5me	758	741	649	588	699	728	718	841
116660	Ptprn	4964	5126	5265	5370	6178	5825	5696	4921
500110	Zfp467	328	329	314	330	363	358	340	359
362285	Col9a3	680	695	778	634	611	1057	705	669
60668	Amph	1065.3	1133.43	1001.3	1273.8	1302	1167	1231	1183.76
308704	Lins1	132	158	125	131	155	148	162	131

54315	Ucp2	4574	4258	4174	4134	4891	4701	4136	4982
296600	Slc2a6	954.73	974.27	846.34	832.8	981.4	1123	899.9	934.31
100361931	Tmem221	6	7.33	6	5	8.32	6.24	3	9
292671	Mill1	11.24	6.98	16.68	7.75	9.21	21.55	11.65	4.15
65153	Ncs1	764	769	737	926	946	913	831	799
287670	Psmc3	2667	2629	2413	2586	2878	3005	2658	2698
25417	Dpysl4	2000	2053	1678	1891	2219	2120	1803	2179
364427	Lrrc63	62	56	42	58	60	65	58	55
100912478	LOC100912478	324.77	393.98	333.97	294.6	488.8	333.1	341.8	307.34
83512	Fads2	2202	2158	2153	2645	2465	2609	2472	2453
362196	Chac1	223	227	196	236	264	259	232	208
688502	Prmt8	212.39	174.32	109.17	153.46	161.2	157.7	197.9	192.25
81804	Stxbp2	88	79	103	78	99	94	104	83
24664	Pomc	30	24	18	15	25	19	22	29
292907	Ruvbl2	512	522	504	461	543	607	547	486
304020	Filip11	204.44	148.93	219.61	169	156	269.5	240.5	144.3
500225	Ino80b	202.35	232.04	202.04	177.2	259.3	212.5	202.1	214.72
684558	Upf1	1019.9	1099.33	1120.4	1172.2	1194	1306	1211	1107.56
292680	Ccdc61	133	98	124	101	120	138	111	129
361671	Pwyp2b	435	432	414	397	511.6	442	445	434
117241	Pop5	160	158	141	127	177	159	138	166
360552	Pelp1	829	781	790	896	958	926.8	795	920
296368	Ube2c	34	31	54	22	53	42	29	30
309159	Klc2	8166	8315	7794	8382	9164	9134	8636	8737
500286	Ssuh2	11	24	15	15	21	15	21	14
500608	Arhgef33	27	35	30	38	36	31	39	36
287452	RGD1308134	294	265.04	292.43	203.99	273.5	282	286.7	310.71
360872	Rcsd1	316	379	298	349	346	421	360	339
308543	Plekhf1	348	337	285	307	369	355	328	343
24786	Sod1	4597	4587	4249	4332	4470	4269	4923	5745
117019	Eif2b4	612	594	581	604	624	663	676	649
102550932	Tigd4	35	29	27	28	30	38	31	31
499871	Zfyve19	194	202	191	170	175	192	257	203
170901	Efna3	84	62	63	60.99	78	83	60	73.99
289185	Cregl	404	419	352	423	449	456	420	421
307482	Fchsd1	527.77	585.31	575.69	535.64	608.5	613.4	555.6	653.03
64076	Slc26a1	69.84	50.61	84.23	81.98	75.27	85.66	87.69	64.6
498830	MGC116121	249	176	166	164	193	215	240	177
366431	Tceanc2	219	202	207	224	224	226	239	242
690914	Muc15	2.08	8.2	18.35	12.22	22.07	5.72	7.48	9.37
361137	Tmem192	518	522	501	485	530	547	546	591
308988	Sez6l2	2860	3311	2866	3536	3362	3936	3296	3146
298377	Coa7	149	136	99	90	121	141	127	129
362535	Lurap11	283	280	249	265	314	274	286	303
299714	Ano4	1396	1412	1245	1470	1418	1431	1706	1481
304396	Lrwd1	210	212	222	206	208	259	238	224
64636	Ntsr2	109	103	139	90	146	106	113	117
687694	Elp4	143.35	146.28	146.24	145.2	141.5	160.4	163.6	169.65
300091	RGD1306782	23	17	26	20	26	14	31	23
24157	Acaala	513.89	517	482.8	426.31	535.6	514.1	514	557
288626	Mmp17	296	227	195	184	223	283	205	275
302938	Mgrn1	1804.4	1834.75	1865.9	1925	1989	2306	1947	1880.58
362881	RGD1306474	6.5	5.69	8.37	4.31	6.06	11.74	3.37	6.02
83817	Ache	4408	4402	4263	4173	4815	5038	4578	4424
353498	Cyp11b3	1	1.69	1.06	0	0	3	0	1.1
309722	Rhobtb1	105.55	129.06	129.84	126.98	144	138.1	138	117.27

100911510	LOC100911510	22	20	14	19.02	16	16.02	18.01	32
360896	Esrrg	567.19	665	349	785	596.6	709.4	655.8	625.57
291135	Acot13	184	182	172	157	198	184	183	195
60629	Unc5a	162	153	118	176	165	174	157	170
362914	Wdyhvl	154	184	150	153	168	189	165	179
59324	Kcnk1	1275	1508	933	1260	1190	1511	1423	1318
114101	Cds2	1252	1397	1317	1540	1861	1441	1445	1275
408230	Wfdc15b	15	3	8	6	6	8	13	8
60393	Sult1d1	10	10	9	3	8	17	1	9
300238	Figl2	31.19	38.36	42.71	56.52	38.7	52.71	46.2	47
311865	Ptges2	432	400	452	378	463	450	431	474
288271	Mrap	569	372	252	328	254	382	328	700
362245	Map11c3a	4814	4813	4862	4092	5076	4966	5004	5282
29431	Pak1	2377	2730	1967	2624	2788	2517	2590	2716
361500	Nat14	113.24	124.3	106	106	139.9	106	110.9	135.04
295052	Ccnal	52.06	38.47	42.33	52.66	52.53	49.13	57.99	43.35
308493	Clip3	4750.2	4465.11	5256.2	6783	4932	5621	6330	6373.82
294568	Wasf1	1390	1420	1330	1536	1566	1663	1557	1425
292995	Tm2d3	228	219	242	202	265	234	237	239
689984	Gpr137	1742	1741	1674	1609	1816	1945	1755	1888
171460	Hspbap1	100	75	84	112	109	113	84	100
103689951	LOC103689951	235.06	255.08	228.94	122.06	173.3	273.6	222.2	251.49
311204	Slc35c1	558	492	599	501	549	620	552	632
309259	Nsmce3	300	296	249	235	283	306	282	311
117062	Hmgal	1539	1565.99	1349	1411	1791	1581	1468	1578.99
290999	Higd2a	967	972	939	806	1047	1005	1036	944
502694	Dok5	166	144	124	148	156	153	179	149
689637	Pdcd2l	149	139	128	113	158	160	127	134
309901	Phyhip1	5688.7	5426.3	5228.6	5757.8	6348	6218	5990	5635.7
308578	Ap2a1	4598.7	5188.95	4667.9	5152	5608	5765	5121	4968.01
293114	Tmem126b	283	243	209	237	265	260	256	283
315670	Elmod1	726	682	643	674	755	691	808	729
298296	Pcsk9	109	118	136	91	116	116	143	122
690315	Derl3	84.27	1.13	66.12	47.91	65.24	32.55	50.22	70.32
315094	Hgh1	259	283	262	230	267	281	280	304
299617	Abhd17a	2118	2011	1890.9	1736	2188	2117	2043	2144
302421	Gdpd2	379	351	327	365	417	394	396	350
288914	Trmt1	642	602	598	612	638	703	674	672
679944	Alkbh7	260	232	235	210	250	230	235	311
683897	LOC683897	390	340	348	269	363	349	365	398
688990	Trnp1	7036	6597	5734	6566	7089	6995	6873	7441
362562	362562	68.89	53.79	73.85	69.27	73.31	66.17	76.26	75.33
301427	Ndufb3	1043	937	876	908	1001	948	1006	1167
94338	Smpd3	1156	1039	1191	1124	1368	1284	1188	1099
296741	Fastk	1503	1494	1320	1263	1552	1540	1536	1483
257642	LOC257642	11	12	8	11	11	10	13	12
303924	Upk1b	5	7	3	6	11	2	8	2
307472	Sh3rf2	5	3	4	9	3	8	7	5
304301	Mmd2	2345	2243	1835	2193	2223	2389	2472	2353
313058	Adgrb2	412	388	426	452	463	515	464	396
307797	Carmil2	1712	1769	1711	1684	1881	1901	1816	1934
494342	B4galt3	425	463	426	363	442	467	461	467
317630	Bloc1s6	304.65	334	311	373	344	315	337	453
100911261	LOC100911261	586.76	599.6	695.12	377.76	419.4	856.1	572.2	627.43
287473	Nek8	118.28	150.72	162.51	146.22	164.7	175.1	156	137.13
266777	Nptx1	4074	4434	4961	4694	5398	5231	4877	4393

287005	Camk2n1	129	127	129	138	135	155	159	124
368128	Hpse2	32.3	28.82	37.81	46.11	32.12	35.52	49.72	41.55
103694863	LOC103694863	1718.9	1587.52	1432.9	1594.5	1941	1667	1628	1703.76
311210	Tspan18	1235.6	1228.09	1159.1	1436	1424	1327	1375	1417.42
679312	Tubb1	8	4	3	6	10	6.01	2	5
303749	Ogfod3	165	140	125	134	138	127	193	160
362186	Kif18a	25	16	36	17	21	25	32	25
24368	Fh	1124	1049	910	999	1094	1155	1134	1090
362521	Tmem38b	96	95	101	104	119	117	113	85
690407	Rab36	176.16	224.62	188.42	194.57	249.6	172.9	201.4	235.09
361976	Rrnad1	183.74	200.72	222.56	204.29	234.3	218.3	206.5	230.11
65045	Ppp1r10	715	827	770	1123	873	1019	1087	786
25731	Syt3	1124	1109	896	1116	1188	1235	1155	1075
25414	Bcar1	914	969	995	1085	1148	1158	1034	1004
304078	Cbr3	96.52	114.53	128.75	69.32	89.46	102	120.3	136.69
362650	Fblim1	29.02	23.02	63.65	12.05	26.04	55	37	21.99
171563	Nav2	790.56	639.14	700.58	762.08	894	779.2	771.9	725.57
294329	Trpm2	603	538	500	572	718	578	642	488
85249	Pex11a	216	181	119	232	201	184	193	242
316573	Dner	4579.2	4391.91	4039.9	4536.7	4941	5062	4780	4453.87
501661	F8a1	464	491	451	441	521	501	524	479
680122	Sap30	58	70	66	55	71	64	69	69
304330	Cox19	475.69	440	448.27	382.44	507.2	449.6	468.6	489.42
191575	Nme1	1597	1640	1481	1385	1590	1629	1744	1729
363465	Pir	579	510	484	488	554	556	587	563
24678	Pkib	398	362	368	332	416	366	392	427
103690393	LOC103690393	75.1	42.72	79.39	93.78	90.09	60.38	69.52	99.12
301011	Uqcrc1	3375	3324	2973	3040	3540	3499	3417	3485
360488	Flywch1	4932	4600	4345	4643	5244	5202	4881	4984
362842	Syde1	415	392	462	405	444	483	489	420
29711	Bckdhh	482	461	436	417	478	547	478	467
29754	Atp5mc1	1619	1581	1432	1426	1533	1740	1608	1764
299638	Sirt6	671	563	582	547	629	674	647	642
64828	B4galnt1	463.41	493.07	467.39	523.68	551.4	573.3	511.7	499.83
317196	Klh14	49	32	41	43	43	41	46	51
59314	Camk2n2	151	157	139	151	191	160	151	154
300992	Cacna2d2	1526	1621.92	1560.2	1657.8	1967	1742	1628	1646.69
297433	Podx12	885.61	854.02	808.01	909.07	956	936	912	988.25
100911357	LOC100911357	95	91	90	84.02	98	92	102	103
296554	Tubb4b	19864	20131.9	17463	18029	20299	21859	21013	19659.09
293012	Olig3	3.29	0	2.01	1.69	3.73	0	2.86	1.08
690987	Gys1	1250	1294	1213	1321	1424	1520	1347	1281
500826	Galnt4	52	44	45	44	44	64	50	45
292780	Alkbh6	158	170	120.04	147	159	166	172	156
287061	Rogdi	1868	1905	1786	1760	2077	2110	2010	1835
303731	Cbx8	92	93	87	77	94	102	100	87
302941	Ubal1	844.31	818.9	729.51	754.51	824.6	944.2	848	837.19
60444	Kcnt1	1695	1697	1569	1678	1852	1946	1738	1750
266668	Grina	9863	10555	9966	10007	11155	11727	10637	10809
499073	Brsk1	3890.7	3954.29	3484	3961.5	4319	4435	4116	3911.53
298521	Grik3	90	94	94	122	113	91	106	129
501628	Tceal3	331.95	308.46	314.85	358.82	380.1	339.4	341.4	381.24
156275	Ggt7	2867	2881	2765	2901	3124	3364	3092	2947
171062	Nkg7	12	10	13	6	17	13	5	10
304653	Dcaf15	336	322	334	329	388	369	334	359
362452	Borcs5	322	330	307	321	377	352	363	313

309177	Znhit2	315	355	306	271	349	338	336	346
360818	Fbxo21	1015	1151	1098	1242	1280	1267	1194	1206
499745	Nrarp	802	578	620	452	793	623	577	699
307396	Pcyox11	1085	1135	1070	1103	1199	1298	1209	1117
363469	Sms	886.42	835.54	813.59	887.77	915.4	879.5	959.6	1003.92
64677	Srd5a2	235	134.09	88.39	213.02	308.1	87	238.1	103.01
171373	Slc12a5	8	10	17	16	15	19	8	14
81780	Ccl5	14	15	10	12	16	16	9	15
293897	Dkk1	6.5	1.11	3.47	11.35	0	11.38	5.85	7.4
24984	RT1-DOa	15.42	10.47	13.02	9.92	13	9.4	13.13	18.09
501506	Zbtb33	137.11	39.82	0	10.73	106.9	52.84	0	46.32
288484	Grid2ip	167	153	155	167	180	186	159	180
293453	Ndufab1	1383	1307	1176	1091	1307	1346	1347	1444
680770	Skidal	118.99	102.32	112.53	112.07	119	124.4	120.9	125.38
24795	Serpina3n	111	23	19	14	78	47.89	21.83	35.69
307486	Pcdhb22	60.03	69.26	67.37	57.3	68.09	80.47	68.26	62.11
298546	Zfp593	236.93	228.81	166.89	171.92	269.8	235.9	166	211.93
497944	Zfp3	65	66	61	52	61	62	75	70
367277	LOC367277	58.83	74.62	79.49	93.75	90.16	102.9	77.06	66.74
680102	Mab2112	498	510	479	464	556	579	522	486
641528	Dtnbp1	227	226	204	196	229	243	252	213
362083	Ajml	688	677	715	702	827	759	766	704
314462	Trmt61a	194.64	226.7	196.24	190.8	282.9	182	204.3	218.99
191595	Syt12	165	154	134	165	175	209	151	144
361385	Ndufb7	920	855	792	715	892	916	792	1006
362145	Slc25a12	2077	2117	1936	2428	2418	2165	2466	2354
65152	Pfkm	5019	5036	4333	4976	5008	5804	5189	5281
295255	RGD1560510	0	0	1.11	0	0	0	0	1.22
304581	Tmem119	20	27	56	18	29	43	42	19
305886	Slc22a17	4783	4898	4720	4931	5343	5773	5089	5045
287432	Wrap53	220	176	187	172	208	231	204	187
300783	Hacd3	2797.1	2851.62	2607.2	2766.1	3128	3121	2985	2882.57
313255	Whrn	706	677	553	761	787	761	688	729
89841	Pcyt2	1046	1008	983	917	1041	1109	1068	1129
100910708	LOC100910708	132.37	218.45	184.38	150.58	264	134.3	221.3	134.41
361068	Nudt18	285	291	309	291	312	355	294	332
170909	Erg	103.82	90.45	125.77	101.52	120.1	121.8	106.2	115.51
298282	Oma1	41	60	64	46	42	63	61	66
499931	Sla2	10.42	13.04	3.4	7.09	4.86	7.05	13.52	11.9
252860	Zfp394	222.29	215.58	190.42	191.6	220.2	251.6	223.5	206.24
246153	Kcnc2	468	459	352.99	515	488	449	525	511.98
191576	Tecr	14651	14151	13052	14012	14825	16397	14747	15468.98
293996	Pdzd7	173.13	173.42	167.3	173.22	203.2	196	204.1	152.27
314642	Fzr1	713	711	713	660	767	796	763	750
25041	P2rx6	542.66	572.02	468.84	596.95	573.6	598.1	642.4	584.04
500865	Sybu	1296	1253	1191	1297	1420	1334	1403	1383
94204	Ecel	2248	2671	2386	2834	2702	3153	2552	2745
362843	Ilvbl	878	876	790	807	943	969	871	903
100362089	Zfp663	54	60	40	56	73	46	62	50
102552047	LOC102552047	32	37	18	23	36	20	34	31
116682	Kynu	4	2	3	1	2	5	1	3
25503	Ocm2	2	3	4	1	2	1	3	5
287414	Mfsd6l	2	2	4	2	0	3	4	4
29248	Tnni3	2	2	5	1	1	3	1	6
29692	Pla2g2a	21	6	6	7	10	16	16	2
300017	Lypd2	0	3	5	2	4	2	3	2

315597	Mfrp	8	5	3	4	4	6	7	5
689415	Mt2A	92	78	86	105	111	113.4	81.67	91
690319	LOC690319	16	13	10	11	20	9	16	10
688699	Prdm12	2709	2698	2640	2922	3384	3065	2757	2860
362681	Pusl1	440.27	397.06	416.28	407.42	474.9	451.1	461.9	439.42
25531	Rab3a	9219	9294	8020	9160	9892	10222	10037	9113
297971	Smim8	228	210	183	178	218	220	230	211
79253	Avil	12988	12369	12042	12872	13596	14401	12903	14407
353255	Nadsyn1	220	260	268	220	267	280	295	223
56010	Ywhag	28810	31172	30364	34519	36418	37424	31235	32303
306338	Abhd8	1470	1666	1348	1491	1633	1732	1502	1707
103693430	LOC103693430	188.33	151.61	194.83	130.35	160.5	187.7	145.2	238.49
297389	Dguok	338	243	267	249	261	334	316	296
54309	Syt5	625.92	759.31	651.45	617.45	780.1	730.6	700.4	709.3
314140	LOC314140	262.94	230.86	207.28	202.15	252.2	245.7	213.2	282.7
309161	Ccdc85b	750	666	690	584	804	743	669	744
294790	Skp2	56	61	47	55	65	67	66	43
682404	Tmem234	193	183	170	140	167	166	201	221
293688	Tm7sf2	658	807	728	660	743	828	754	815
289402	Ddx59	272	240	222	210	247	270	245	277
315999	Mon1a	534	496	481	436	553	566	518	506
298894	Mycn	73	68	71	76	94	57	57	109
100909857	LOC100909857	169.68	220.56	159.12	162.56	220.6	196.7	176.1	190.25
361515	Pnma8a	161.66	122.24	147.52	126.35	171.1	144.2	165.5	133.1
290631	Babam1	1004	858	925	795	967	997	989	990
287711	Coasy	647	691	626	584	714	691	707	693
302669	Car5b	191	175	177	141	171	186	199	197
102555217	LOC102555217	26.2	44.95	33.67	34.75	34.53	37.76	39.05	42.31
100909793	Smim18	208	207	162	176	206	169	233	221
308457	Egln2	1865	1632	1652	1571	1928	1839	1740	1892
305970	Fbxo16	152	149	123	140	152	139	191	139
680712	Scx	138	152	131	133	165	152	150	143
300317	Kctd17	1231	1101	1123	1155	1331	1278	1283	1184
361545	Rbm42	840	854	980	788	963	975	932	942
314013	Trappc12	1170	1405	1247	1466	1274	1275	1685	1589
303222	Arhgap44	2161	2281	1871	2457	2443	2649	2363	2203
289222	Nit1	943	750	862.73	579.58	835	874	881	863
100911408	LOC100911408	75.74	52.81	40.21	40.46	67.15	47.77	60.73	54.77
362300	Agap3	3395	3460	3225	3368	4069	3960	3460	3322
360721	Fam162a	1705.9	1425.37	1360.1	1323.6	1707	1496	1476	1726.67
65178	Snap91	5717	6062	5338	6590	6701	7005	6460	5950
58977	Pppl1ra	1204.3	1024.4	951.16	1037.4	1171	1109	1047	1319.47
360947	Pacrgl	92	81	62	60.01	83	82	88	72
29885	Rab3ip	625	666	499	578	635	673	648	653
79219	Grid1	226.68	159.74	170.25	208.26	248.9	213.2	194.8	185.86
81637	Ap2a2	6847.6	5767.8	5928.7	6565.2	7027	6863	6646	7130.87
108351956	LOC108351956	1712	1684	1682	1666	2027	1853	1772	1779
288916	Gadd45gip1	666	596	574	517	744	631	598	620
363616	Grap	37	44	40.63	29	40	36	52	38
295237	Mstol	504.84	505.75	539.22	496	565.2	582.8	556.7	549.98
29741	Pik3r2	1340	1567	1338	1271	1528	1509	1484	1558
361509	Ube2m	2848.6	2737.79	2799.8	2556.7	3101	3122	2992	2846.52
294103	Papss2	241.79	186.54	196.29	302.66	345.4	254.7	190	231.93
26760	Akr7a3	252	233	204	211	253	247	242	250
310787	Fndc7	78.3	76.09	82.74	101.82	99.87	77.85	98.9	97.01
293054	Mrpl46	315	286	242	260	308	269	338	301

85269	Nme3	212	191	180	188	209	194	216	231
295315	Tbx15	56	57	99	61	66	124	61	50
307102	Ankrd16	85	82	77	68	86	76	96	86
684903	Dhx34	252	262	278	261	293	297	296	275
364948	Asphd2	398	315	350	291	385	409	349	350
500992	Nxpe1	102.81	72.5	64	47.72	113.2	104.4	43.59	55.27
100362241	Plekhg6	44	40	49	42	53	47	46	47
294336	Pcbp3	4755	4869	4634	4688	5314	5510	5212	4859
683470	Gas1	184	128	110	140.99	190	172	136	123
294326	Gatd3a	2530	2444	2048	2191	2490	2671	2358	2644
362220	Lamp5	712	657	635	643	692	715	711	802
84384	Timm10b	200.79	214.9	206.91	168	196.9	216.9	218.6	239.79
316091	Pomgnt2	739	736	684	690	757	878	743	765
100912599	LOC100912599	360.5	310	306.22	285.5	311	353	330.5	398
679739	LOC679739	360.5	310	306.22	285.5	311	353	330.5	398
100911847	LOC100911847	245.07	251.69	337.8	192.08	251.7	238.4	245.1	397.41
290308	Dleu7	257	275	145	262	252	288	257	239
102546394	LOC102546394	76.91	77.98	81.36	93.64	111.5	82.12	86.01	84.34
317170	Slc9a7	271	282	247	332	405	199	384	261
298504	Mfsd2a	563	599	514	568	602	691	587	596
313506	Stil	52.32	52.2	61.33	43.46	63.91	47.02	67.78	52.29
297436	Chchd6	657	660	617	488	613	618	730	712
289486	Fras1	173	214	212	298	259	246	255	230
689986	LOC689986	121.74	98.65	102.06	85.28	145.7	79.29	113.8	111.28
114512	Aatf	231	200	222	205	257	241	236	213
292017	Hydin	109	105	121	147	145	133	124	130
364995	Ddx28	204.17	177.06	177.91	151.16	188	215.4	181.3	199.35
79112	Pigm	361.6	377.47	281.76	458.17	407.1	364.7	511.8	349.02
308472	Supt5h	2616.1	2419	2304	2502.6	2820	2871	2575	2598
300444	Rgl3	127	110	114	111	138	127	128	117
680006	Mad111	489	460	462	452	525	542	495	495
679949	Ube2q11	862	957	816	937	1014	1030	967	933
362039	Pla2g12a	377	352	322	312	363	406	355	381
311184	Clqtnf4	109	104	94	115	136	115	101	114
24423	Gstml	2051.5	1876.67	1709.6	1833.8	1962	2064	2056	2169.78
304280	Tmem130	4794.5	4717	4652.4	4972.8	5529	5200	5181	5224.42
24310	Ace	123	143	161	119	134	191	158	120
140729	Cacng8	21	21	10	15	18	22	12	22
304944	Uck2	798.54	834.85	696.22	815.95	876.6	935.6	857.6	804.7
58936	Plk3	371	366	403	390	393	461	448	388
100359498	LOC100359498	313.21	314.97	496.47	161.69	438.1	204.9	509.1	268.88
498332	Coq2	830.89	782.16	810.18	827.38	1061	812.5	767.8	949.4
314930	Zfpm2	55	48	59	48	51	68	66	47
314472	Tmem179	1855.6	1920.94	1632.8	1867	2223	1949	1977	1889.46
498736	Tubb2a	17308	17788.3	16794	16503	19133	20233	18461	17733.12
117552	Ptpn23	1013	1110	1141	1266	1325	1417	1127	1136
303671	Fads6	528	466	407	515	559	573	500	485
500726	Cep170b	3395	3589.11	3456.9	3597	4143	3885	3820	3663.13
100362197	LOC100362197	221.74	201.54	184.92	161.18	199.6	223.1	202.3	225.14
361352	Pqlc1	2800	2668	2551	2293	3123	3037	2674	2561
498398	Selenom	2363	2169	2324	1940	2519	2528	2223	2450
108348240	LOC108348240	2.11	2.99	3.03	2.24	2.16	2.06	3.87	3.37
353231	Spg7	1209	1063.11	1026	1018.7	1266	1212	1192	1100.88
300367	Med17	366	343	341	337.02	374	363	404	392
293507	1-Sep	72	68	75	51	93	68	71	62
366489	Sh2d5	23	20	25	8	26	11	33	14

114117	Gng3	9388	9054	8002	8673	9813	9968	9398	9637
83503	Polr2f	538	501	487	457	552	560	508	572
362613	Zdhhc18	1166	1141	1082	1089	1281	1346	1137	1186
361663	Lhpp	774	873	854	827	907	1048	794	930
83823	Gipc1	1788.6	1721.1	1619.2	1471.7	1899	1871	1714	1812.76
361288	Fundc2	665.25	632.49	643.36	643.47	710.3	758.1	680	708.93
310846	Tram111	316	293	230	279	292	312	299	333
296627	Asb6	420	391	413	377	450	449	450	421
362945	Lrrc24	439	410	393	444	481	469	454	460
641603	Slc41a3	305.8	318.5	312.91	315.71	333.2	355.8	355.8	340.83
311329	Dnajc17	106.81	103.76	107.93	92.96	111.9	103.6	126.9	112.61
24503	Ina	2361.5	2404.37	2356.8	2510	2788	2692	2462	2712.68
308440	B3gnt8	285	280	251	276	307	306	298	297
100270678	Spns2	395.66	405.79	364.19	353.61	454.3	475.5	389.9	361.07
361118	Prxl2a	609	563	505	533	612	561	631	641
360656	Cdr21	3378	3352.72	2962.7	3516.6	3754	3816	3630	3414.86
290647	Lsm4	861	812	776	729	920	832	822	942
102551565	LOC102551565	0	0.94	0	0	1.04	0	0	0
292700	Ceacam16	67	56	51	42	46	56	82	55
108349002	LOC108349002	3.38	4.17	3.58	1.44	5.97	5.05	0	2.89
497912	Btnl10	21.87	14.13	41.56	19.4	35.57	29.4	22.38	19.95
81679	Jup	4050	4255	4215	4374	4683	4900	4629	4485
288289	Chod1	270.01	188	245	215	259	262	279	216
303907	Wdr5b	80	57	75	69	69	70	90	82
102551647	LOC102551647	30.1	18.54	30.82	27.26	32.65	31.49	30.34	23.64
65276	Nmur1	31.85	23.69	26.77	29.45	40.07	28.7	27.18	27.75
404781	Iqsec3	800.69	784.41	713.91	793.38	954	903.3	755.4	810.11
353118	MAST1	4404	4698	4286	4672	5558	5195	4670	4567
50871	Hpcal1	1850.9	1894	1886	1769	2010	2186	2003	1992
50688	Cacnb1	1131	1109	1122	1048	1349	1257	1145	1131
688737	Gpr171	19	16	13	36	22	21	31	19
362846	RGD1560314	20	9	6	21	20	15	16	11
500606	Morn2	37	29	42	32	33	33	47	42
683514	Ppplr42	4	9	9	6	7	10	5	9
287009	Ceacam4	20.07	7.46	20.2	4.45	18.01	20.79	18.98	0
288689	Tesc	842	748	689	674	869	821	786	794
312707	Lrrc23	102.04	112.73	111.59	110.51	109.9	101.4	131.8	140.68
65172	Limk1	4521	4141	3798	4349	4848	5071	4487	4208
306348	Rex1bd	487	445	444	365	501	458	453	516
100911068	LOC100911068	150	120.48	139.53	114.42	132.6	165	149.1	134.1
246258	Slc45a1	1542	1540	1421	1572	1818	1825	1582	1503
313521	Hpd1	152	125	90	98	130	127	127	131
100049583	Trex1	229	174	132	181	196	202	219	176
296395	Kcng1	432	524	550	586	740	622	470	485
83635	Gmeb2	68	87	96	93	92	83	112	94
64183	Pde4dip	3170	3213	3134	3570	3818	4065	3541	3072
292831	Pop4	534	494	465	437	518	499	553	568
54289	Rgs1	15	16	12	59	24	13	48	28
25585	Id3	859	831	717	559	805	897	846	738
363137	Cyb561d2	447	362	358	325	401	397	402	453
25187	Htr2c	69	67	16	61	53	62	71	50
365360	Tmc5	38.27	38.81	59.19	65.12	59.49	54.56	48.14	60.96
25146	Cyp17a1	4.33	7.74	9.31	11	13.08	9.32	6.71	6.77
499518	Ccdc125	39	30	42	37	40	44	46	34
684148	Lsm2	239	236	210	203	249	238	222	275
103690158	LOC103690158	16.32	16.66	19.2	16.35	15	19.07	27.72	14.15

246279	Zfp180	4593.9	3234.49	4460.1	3956.9	4423	4429	4663	4487.52
308410	Rtn2	2150	2194	2093	1977	2386	2598	2136	2205
116557	Foxj1	37	51	28	41	45	50	47	32
289468	Abraxas1	33	44	48	32	38	41	52	43
362605	Tmem54	448.16	488.8	404	382.99	500.4	484	471.8	454.59
140694	Dnm1	7981	8543	7763	8915	8807	9901	8647	9443
170634	Tas1r3	5.83	3.46	1	3	4.36	4.61	3.4	2.36
156726	Runx3	99	120	69	118	117	126	117	90
24834	Tk1	68	69	101	57	87	82	83	75
499090	Mypop	555	535	532	516	655	579	591	545
499749	Tprn	134	158	134	154	166	144	157	176
500410	RGD1559441	120.68	114.02	135.47	144.78	154.5	145.8	133.9	136.71
689623	Psmg4	164.96	168.37	182.63	128.16	158.3	160.4	170.4	225.04
408217	Usp11	885	877	788	1024	993	1013	1007	950
64455	Rasd1	97.14	66.6	53.68	111.19	85.31	84.18	127.4	67.54
361943	Pcdh10	695	595	571	747	825	645	744	678
103693768	LOC103693768	199.16	254.19	201.21	235.71	259.6	264.6	238.9	224.13
315926	Pls1	1370	1529	1222	1498	1603	1588	1736	1304
361881	Zbed3	100	103	104	106	105	113	105	135
108348167	LOC108348167	55.89	43.75	50.76	48.91	61.94	62.17	52.44	44.48
89787	Lrp3	1320.4	1342.97	1141.7	1361.9	1507	1525	1358	1340.61
24587	Nefh	116860	125749	99682	138676	1E+05	1E+05	1E+05	116986
201097	Hist1h1d	5	9	4	3	8.78	4.33	7	3.18
304648	Asf1b	15	11	20	9	22	15	16	8
287983	Alg3	401	425	419	459	474	455	443	518
362329	Impdh1	5035	5093	4734	4925	5853	5708	5304	5082
316213	Frs3	318	323	294	292	364	351	324	322
295037	Mgst2	32	28	34	25	33	28	38	33
25523	Prkg2	96	122	89	123	114	99	132	132
689945	LOC689945	24.53	24.52	15.58	23.29	46.94	11.19	24.58	14.82
100362471	Tmem240	60.28	47.48	43.4	41.2	38.04	67.54	50.26	57.55
364755	Ero1b	778	492	506	638	660	621	743	654
292098	Pgbd5	1017	1150	1014	1137	1157	1279	1183	1172
316229	Ttbk1	621	629.03	640	797.96	858	764.5	705.1	655.01
360945	Sel113	488	545	431	570	539	603	576	539
100911956	LOC100911956	194.56	198.56	194.6	119.03	145.8	217.3	214.6	206.56
500354	LOC500354	75.34	70.88	77.7	75.13	69.62	89.65	73.51	99.12
29566	Ggt5	316	281	337	222	350	362	277	294
84398	Cd93	218	198	247	238	236	245	312	207
687536	Foxf1	23	17	27	24	22	25	36	18
311703	Cables2	1972	2129	1871	2116	2238	2294	2235	2210
100359753	Dnaaf3	46	52	40	53	46	59	58	49
315151	Mrtfa	518.65	598.34	627.45	654.31	682.9	736.1	678.2	565.45
309453	Fbxl15	213	229	224	197	258	227	232	241
295090	Vom2r45	0	0	1.09	0	0	0	1.21	0
691431	Slc25a33	541	518	415	451	532	509	578	518
25303	Abcc2	29	26	21	42	40	35	34	22
404660	Mrgpre	496.83	489.34	420.46	475.83	564.5	487.5	539.6	498.69
79131	Fabp3	599.07	620.22	404.4	594.04	561.2	634.4	584.9	682.05
500249	Rab43	49	36	52	35	46	39	49	57
103690147	LOC103690147	65.29	45.58	21.84	62.82	71.77	50.07	41.88	53.43
300990	RGD1307461	414	434	330	403	443	458	411	444
313491	Hint2	402	312	342	317	358	425	371	371
298787	Memol	767	713	720	663	779	777	829	795
362782	Cyp46a1	93.42	70	92.5	88	84	105	98	95
102557179	LOC102557179	1.01	1.06	8.01	2.02	3.45	1	7.02	1.97

100359972	LOC100359972	2	5	2	0	1	1	6	2
103692813	LOC103692813	4	1	3	1	4	2	1	3
103693041	LOC103693041	2	1	5	1	3	3	2	2
116569	Lct	3	2	2	2	1	4	2	3
300220	Clql4	14	12	11	8	14	16	11	9
365763	Actrt3	4	2	2	1	2	2	0	6
500348	Bcl2l14	3	1	4	1	2	1	5	2
682416	Dcdc2b	3	3	0	3	2	3	3	2
102547505	LOC102547505	4	4	6	4	6	4	6	4
287936	Ccdc116	6	7.99	7	6.01	6	10	9	5
300034	Tigd5	40	46	46	66	58	56	58	48
311760	Ism1	18	14	12	10	15	17	14	14
361230	Tmem170b	25	22	17	17	22	26	20	22
499918	Rspo4	21	23	15	22	22	21	23	24
59304	Gdf9	6	10	7	13	10	16	4	10
687208	Vps37d	105	113	87	73	130	98	95	97
304571	Galnt9	553	557	522	536	628	579	625	577
290628	Ocell	470	418.44	423.08	341	495.2	438	447	456
25443	Fgf10	53	47	26.98	32.21	43.02	46.02	44	43.85
114705	Rgs14	81.16	80.01	73.72	77.71	110	90.99	74.28	72.08
498726	Rnf182	245	236	233	220	278	234	265	261
314799	Ccdc59	163.4	154.73	176.45	124.46	195.1	148.7	167.3	176.92
100360754	LOC100360754	14.61	15.32	13.12	8.93	20.97	13.65	12.31	10.84
299602	Cdc34	1096	1010	1019	910	1158	1191	1060	1076
686999	Mphosph6	189	217	214	150	194	211	228	223
294747	RGD1561161	31	27	67	45	35	48	47	59
302890	Cpped1	275	278	262	258	282	308	282	321
24598	Nos1	61.86	64.33	77.11	73.74	89.43	73.31	61.88	83.42
361653	Armc5	598.33	492	488.15	549.79	578	634.2	566.6	587.65
315598	Clqtnf5	289	221	215	257	246	316	239	291
64672	Pln	75	56	60	50	65	92	61	50
311535	Fam110a	60	56	64	52	53	78	64	63
292887	Akt1s1	1285	1331	1281	1152	1564	1381	1268	1403
24241	Calca	13054	13071.2	16540	9188.9	14722	14340	15292	13324.77
295965	Ehf	31.79	25.21	34.06	20.66	39.49	36.76	26.09	21.94
24604	Npy	35	28	87	19	46	28	83	31
245965	Atp5f1d	6849	6415	6339	5765	7051	7075	6918	7177
171444	Pacs1	687	779	751	806	820	902	820	821
307639	Gins3	62	60	59	59	77	61	64	65
361441	Fam89a	575	592	512	471	645	610	543	594
64460	Pex14	857	770	761	773	875	892	867	883
296098	Lcmt2	124	125.83	114.63	100.64	131.3	126.3	148.9	111
312849	Med21	257	203	172	140	182	201	234	242
689207	Prob1	115.92	107.02	106.54	91.28	128.2	141.9	100.7	97.39
64461	Decr2	226	244	186	222	231	240	252	254
291885	Mcm5	68	58	96	35	85	72	70	59
364227	Asb3	238.41	224.23	220.94	241.4	268.8	235	258	267.55
100911776	LOC100911776	77.67	60.92	74.63	70.06	92.9	65.49	60.92	95.95
286908	Pdlim7	2575	2346	2325	2233	2738	2968	2333	2511
288480	Aimp2	632	649	637	576	639	731	707	699
362861	Slc41a2	1067.2	1092.16	1020.5	1142.9	1323	1288	1231	969.49
113995	P2rx5	377	266	202	295	319	338	312	300
309523	Kif20b	38	33	51	37	62	36	47	32
360606	Itga3	1419	1349	1373	1299	1639	1607	1504	1306
690136	Zfp939	22.23	12.45	33.33	34.46	36.28	33.96	24.18	19.66
300758	Celf6	592	616	565	592	763	616	609	645

315311	Slc4a8	285	262	302	377	357	311	337	360
261737	Sfxn5	309	271	262	331	332	337	315	322
100361814	LOC100361814	11.32	6.61	44.23	1	23.68	24.95	17.3	4.4
316221	Tbcc	467	446	390	353	467	441	454	482
364676	Gprin1	197	214	208	209	249	206	217	250
246209	Kif27	111	119	127	127	124	142	128	145
685474	Zfp385a	1317	1298	1130	1332	1363	1526	1383	1382
313536	B4galt2	255	210	234	242	249	207	288	304
298267	Cachd1	193	233	214	230	250	273	245	201
499630	RGD1565059	115	105	112	81	114	123	109	114
288919	Asna1	1207	1214	1185	1059	1354	1340	1287	1215
108350747	LOC108350747	10	5	8.68	2.5	12	4.2	7.61	5.35
685059	Msrbl	650	558	510	460	628	626	505	667
309544	Rbm20	51.33	38.71	71.17	61.85	48.49	84.39	66.33	49.25
64057	Hapln2	178	150	95	139	138	167	141	180
363026	Carm1	1187.6	1354.18	1230.1	1235.7	1500	1376	1383	1318.9
100362176	LOC100362176	1509	1428	1424	1446	1577	1596	1644	1652
288475	Nptx2	1497	1431	1346	1363	1648	1501	1472	1659
252915	Mxd3	6	6	19	4	11	14	6	8
100360077	Znhit1	654.26	693.27	670.93	561.42	711.8	726.8	687.6	749.02
498000	Coa3	981.71	867.42	779.58	821.4	954.8	911.4	1008	970.76
100036765	Ccdc92	9190.3	9139.69	8836.7	9465.7	10811	10808	9628	9588.77
309611	Vwa7	2732.7	2673.37	2725.1	2799.6	3356	3192	2936	2700.81
29510	Pctp	366	315	294	384	383	415	365	352
306862	Tfap2a	84	122	89	97	99	91	91	156
294679	Ankra2	111.65	116.29	171.9	119.99	123.3	147.7	164.8	143.8
367808	Ptges3l1	24.44	4.51	27.89	4.01	24.36	20.04	11.21	12.23
288057	Mylk	482	567	631	382	577	776	592	354
302981	Spsb3	784.9	746.26	736.65	661.88	789.7	844.5	787.3	845.28
361805	Uqcc2	546	472	503.3	426	548	534	523.6	566.08
363682	Ccr10	43.05	37.7	35.57	41.81	44.89	49.92	47.78	33.77
499211	Gdpd5	817	982	855	883	998	1084	944	919
308016	Clca5	41	43	37	35	47	45	44	38
65198	Kcnh1	709	647	677	688	777	857	722	679
365603	Bves	154	130	149	156	169	182	161	145
113893	Sncb	3089	3195	2733	3100	3349	3532	3211	3424
309378	Golga7b	414	323	297	291	394	401	353	330
307309	Sncaip	68	71	71	93	81	76	69	112
310395	Noct	122	137	143	126	131	159	150	149
308387	Npas1	59	40	55	45	63	59	51	49
361327	Prr16	46	31	30	40	47	42	46	29
690130	Rhof	715	801	688	691	846	833	766	785
307237	Pard6g	114.34	120.51	88.66	109.39	133.4	128.4	112.3	109.05
290553	Mustn1	131	98	150	122	126	242	104	87
116595	Nrxn2	3549	3706	3799	3975	4472	4343	4049	3908
500870	Mtbp	60.83	51.38	52.06	65.44	56.2	66.52	70.7	62.97
64017	Enpep	219	119	175	184	161	213	207	197
690965	Ccdc85c	648.76	684.4	553.41	698.27	691.6	766.6	711	716.16
685169	Fam163b	12	10	12	9	14	10	8	16
84395	Slc34a2	41	58	44	29	62	47	54	29
84427	Grb7	27	27.95	26.91	30.01	35	29.86	32	28.02
360533	Rnf187	7366	7369	7022	6918	8108	8035	8205	7663
306811	Wnk2	1037	1048	1009	1039	1226	1248	1116	1024
313713	Caszi	870.68	879.35	898.36	1149.3	1180	1015	1015	1028.99
311836	Ntng2	1318	1347	1359	1654	1664	1773	1517	1385
304368	Zcwpw1	0	3.26	0	0	0	0	0	3.64

316201	Daam2	2089.7	2019.56	1703.1	2034.6	2255	2345	2091	2071.13
25394	Bfsp1	49	61	54	50	56	55	66	62
81721	Chrna6	602	491	408	526	652	502	543	567
306544	Plpbp	411	416	361	359	385	451	439	453
499088	Dact3	552	505	547	505	613	587	595	561
681337	Acot4	62.41	42.14	56.75	46.87	70	37.51	70.49	54.58
301035	Lrrfip2	891.49	897.2	977.75	942.71	1017	1095	1052	979.42
25114	Fgfr4	64	47	46	39	45	32	77	65
102551788	LOC102551788	0.93	2.32	3.65	2.3	3.73	1.39	3.02	2.14
287944	Thap7	402	337	309	289	396	396	328	374
500893	Gli4	124.94	117.5	104.22	120.5	123.8	137.7	124.8	135.68
25654	Col11a1	615	811	1101	791	725	1422	776	785
100910460	Ccdc180	2	6	5	4	5	5	4	5
299305	Jade3	34	26	32	44	38	20	43	51
365769	I121	6	4	5	2	8	8	2	1
361596	Idh2	719	606	608	598	656	775	675	723
308759	Unc45a	845	956	845	784	968	1007	950	909
499748	Rnf208	660	540	484	565	646	677	641	550
295457	Cisd2	980.03	923.96	1020.9	934.83	1108	985.4	1185	1035.92
301371	Mrps9	525	519	477	473	546	561	580	542
64014	Duspl2	138	107	97	82	110	110	128	126
300115	Arhgap8	79	113	101	122	106	120	114	124
100912052	LOC100912052	7.44	5.4	2.95	0.64	0	5.38	12.99	0
316325	Hs6st1	1787	1566	1894	1568	2051	1994	1699	1877.01
315219	Tymp	222.08	237.68	205.29	192.42	270.6	245.3	203.8	239.14
290833	Tm2d2	1090	1032	1069	848	1036	1103	1215	1163
100361460	Insyn2b	287.25	268.82	272.08	310.67	342.9	316.7	300	314.18
315691	Lingol	1777	1675	1764	1710	2082	2061	1852	1753
25159	Gata2	60	68	82	51	86	75	77	54
360828	Noc4l	229.68	264	245.74	226.79	295	291	234	261
108348323	LOC108348323	91.24	92.65	77.06	80.87	56.27	134.7	115.4	76.08
293738	Ccdc86	165	162	184	162	175	215	174	189
103691004	LOC103691004	24.38	35.78	26.6	17.37	16.72	24.63	43.19	31.97
360605	Epn3	1364.4	1297.6	1237.9	1430.6	1573	1511	1496	1383.56
85264	Abcg1	1572	1902	1580	2023	2077	2272	1807	1763
299210	Esrrb	105	160	59	138	116	155	124	122
307126	Mcm10	17	9	6	10	12	17	13	5
293135	Lrrc32	167.49	112.24	175.84	182.01	181.6	183.8	211.4	136.71
296732	Smarcd3	400	287	357	332	371	449	397	323
108348121	LOC108348121	14.41	17.06	7.4	14.54	17.72	13.45	11.32	17.29
364060	Rpl3011	8.41	10.74	0	7.01	10.99	18.29	0	0
497985	Hoxb7	98	104	112	105	118	109	132	110
100909856	LOC100909856	87.89	83.5	107.18	126.01	126.3	107.6	118.5	100.46
688319	Rac3	880.87	795.24	797.72	757.76	888.7	930.3	897.5	900.9
309158	Tmem151a	2862.3	2953.3	2718.3	2668.3	3209	3335	3047	2949.3
679886	Chmp4b11	1324.7	1189.76	1245.4	1141.6	1462	1424	1384	1217.39
100361087	LOC100361087	20	19	23	30	27	25	26	25
24173	Adra1b	60	42	37	45	50	60	56	40
291676	Spata24	56	39	47	42	55	54	41	56
301650	Cntnap5b	41.46	30.19	31.91	48.29	53.8	20.99	43.08	52.14
103693015	LOC103693015	1003	983.1	717.28	937.66	1174	887.9	1133	881.73
25472	Kcnj8	49	43	43	32	45	50	40	52
307949	Pcnx2	2332	2481	2091	2598	2825	2731	2626	2458
362960	Dmc1	18.72	11.67	14.29	19.61	17.76	22.97	15.45	15.81
305434	Jakmip1	1106	1056	980	1099	1377	1146	1137	1089
171522	Cyp2d4	142.61	185.38	165.1	126.95	145.8	196	192.6	159.99

108348151	LOC108348151	73.19	96.11	73.16	94.27	75.43	121.1	90.93	89.63
100360291	Zglp1	9	9	4	3	6	7	5	10
287359	Jmjd4	31	40	37	42	55	40	32	41
100911516	LOC100911516	616.11	402.84	521.32	236.96	616.1	521.3	331.8	521.32
499430	Lrrc20	248	268	238	278	287	371	254	244
364738	Gabpb11	69.79	59.5	43.95	35.95	64.75	68.7	63.24	37.65
314323	Flvcr2	188	194	182	151	216	181	213	191
24591	Neu1	386	367.06	391.34	365	414	453	400	424
311428	RGD1311739	1105.9	1109.48	1102.3	1005.9	1347	1226	1130	1141.24
362937	Fam83h	386	340	322	314	399	344	395	388
108352474	LOC108352474	7.14	0.89	3.19	1.98	3.61	4.03	5.13	2.02
24408	Grin1	1878	2012	1604	2214	2307	2385	2067	1879
303882	Tnk2	3033.6	2981.12	2926.7	3066.8	3614	3486	3417	2941.09
680498	LOC680498	7.07	4.46	7.68	4.48	6.67	6.42	5.64	7.82
24688	Prph	35908	32986	33733	31915	39758	37167	34902	38976
301009	Nckipsd	1135	1258	1185	1227	1496	1399	1275	1216
291433	Dym	1797	1948	1876	1900	2181	2242	2063	1945
304322	Chst12	614	606	608	558	682	733	608	652
314756	Cradd	26	41	36	36.99	38	37.98	52.98	28
83509	Slc7a7	1070	993	1036	1042	1174	1142	1206	1121
171410	Acsbg1	2096	1998	1894	2091	2292	2242	2265	2260
361894	Ndufaf2	231	223	203	233	262	219	252	265
25133	Pcdhb12	29.48	12	26.28	27.8	33.06	14.17	28.8	31.13
246118	Tubb3	56216	58058.3	55016	54455	64883	69121	59930	57014.79
24250	Cbs	34	46	11	57	31	42	55	38
315665	RGD1311251	20	18	19	17	23	20	26	14
361560	Vstm2b	240	262	162	239	243	293	260	217
103692716	LOC103692716	1427.2	1268.6	1902.9	1901	2323	1321	1903	1744.33
290612	Sh2d4b	16	10	6	9	19	14	5	8
81642	Abcc6	55	49	62	55	62	52	78	56
114490	Cited2	356	335	375	333	424	364	378	404
287606	4-Sep	1724	1663	1506	1526	1795	1743	1841	1825
305348	Lias	293	314	286	309	356	349	323	321
117028	Bin1	2399	2415	2339	2512	2818	2993	2549	2487
289727	Nat81	7565	7699	6304	7673	8596	8688	8141	7393
59293	Rgs19	444	499	464	350	469	409	545	549
24318	Drd2	172	169	193	201	191	244	187	203
117549	Gpr37	360	363	352	378	384	436	406	405
298510	Pabpc4	784	790	883.02	833.41	964	1106	850	774
103692167	LOC103692167	121.31	192.99	137.85	132.34	154.4	132.3	165.4	204.02
83684	Tpbg	76	52	75	66	91	89	56	66
361313	Rel12	1975.2	2059.69	1797.3	1728.4	2244	2250	1921	2073.97
499782	Rpl12	1389.3	1484.57	1427.5	1093.6	1305	1365	1966	1421.97
306013	Lgi3	4367	4402	4067	4458	4942	5339	4830	4308
24258	Chga	2983.1	2471.7	2198.1	2884.3	3195	2934	3049	2655.11
64458	Scrg1	91	68	71	87	90	95	74	97
499584	LOC499584	18.49	8.44	7.39	10.27	16.1	12.9	14.69	6.39
100911795	Erich6b	11.15	8.96	7.11	14.51	11.35	8.07	12.76	14.69
498392	Cyt11	166	128	101	92	129	177	121	120
108352836	LOC108352836	19	22	10	22	18	30	14	20
24796	Spn	49	55.89	76.99	31.19	68	66	58.32	47.02
290851	Vps36	909	929	779	893	1019	932	934	1058
363687	Mett12b	174	186	188	173	209	197	209	195
680602	Lcn12	28	19	19	15	17	19	27	28
308556	Vsig101	680	328	689	489	590	735	553	578
289020	Lrrn2	1031	1010	1133	1067	1181	1312	1230	1042

687064	Col25a1	24	29	13	23	36	11	28	25
681050	Pmf1	49	54	47	44	57	55	49	57
501742	RGD1562667	0	2.97	4.97	1.99	3	0	5	3.16
291923	Abcc12	57	55	61	53	47	82	71	54
117269	Rps6ka2	1981	2266	1914	2110	2508	2324	2219	2245
690050	Tpmt	645	511	505	436	571	531	595	660
290229	Tssk4	52.35	69.84	68.54	59.45	70.05	59.12	66.77	85.29
691320	LOC691320	18.83	35.59	13.79	0	38.23	24.23	7.35	6.87
303605	Strada	428	451	486	438	518	518	507	484
360887	Coq8a	311	299	316	265	339	414	276	310
84406	Hs3st1	88	77	104	85	97	101	103	97
84683	Cox4i2	53	47	50	43	61	55	53	48
117100	Slc6a7	56	38.67	48	54.77	46	64	52	60
24949	Syn1	5207	5997	5604	6701	6970	7090	6180	6198
25644	Bmp6	204	138	146	162	197	172	179	183
361784	Znrd1	121	113	105	110	117	114	123	151
102553659	LOC102553659	4.83	9.95	0.2	0	7.3	0	0	9.55
291926	Mylk3	8	5	7	4	3	5	12	7
292786	RGD1560986	0	3	2	3	4	0	3	2
301045	Cmtm8	19	27	21	5	23	23	19	16
304458	Tmem132b	62	89	63	106	105	85	84	86
315163	Shisa8	5	11	0	8	3	9	5	10
361586	Trpm1	5	6	3	2	4	6	4	4
364853	Plac8l1	5	1	1	1	2	2	3	2
365744	Hnf4g	2	2	2	2	2	2	3	2
499607	LOC499607	1	1	3	3	2	2	3	2
681395	Rnf133	2	3	2	1	1	1	1	6
689322	Shisa12a	3	3	2	0	3	1	3	2
315264	Pus7l	111.83	111.39	82	66	115.7	110	93	99
155812	Trim9	455	479	363	492	548	502	487	476
361602	Me3	278	266	207	262	276	318	219	327
102555598	LOC102555598	3	1	3	4	2	0	6	4.38
362850	Angptl4	194	113	101	118	148	153	138	153
311807	Bmyc	266	251	206	232	273	282	271	249
100360205	LOC100360205	253	277	343	304	288	436	299	302
303878	Ubxn7	59.18	48.41	53.15	54.77	79.42	45.1	61.47	56.63
305687	Zfp503	247	219	204	236	250	308	238	224
682225	LOC682225	33.16	34.7	41.29	30	29.11	36.27	38.02	53.26
100361323	Astn2	502	462	486	559	575	565	583	539
497960	Fam222b	964	1090	966	1105	1160	1198	1141	1146
286758	Aqp11	253	196	199	208	242	247	231	244
79430	C1cnkb	42	44.94	52.89	27.81	49.81	55	49	35
117559	Sv2a	1005	1123	951	1172	1182	1242	1137	1227
308557	Igln5	642.59	571.66	693.18	676.01	761.9	877.1	627	644.04
500563	Fam110d	42	35	49	48	52	55	48	41
103692169	LOC103692169	96.68	65.49	65.49	43.66	46.78	96.68	84.2	77.97
140448	Slc8a3	303.86	332.9	262.08	360.37	334.5	451.4	359.2	273.49
360973	Gas2l1	2602	2673	2708	2378	3079	3010	2873	2710
29628	Gria3	264.95	238	243.25	302	301.5	289.2	308.1	282.06
679321	Slc35f3	172	203	153	183	217	186	199	199
116653	Cap2	120	105	104	121	105	172	115	115
25544	Sele	12.71	13.95	14.26	11.63	15.95	14.06	17.28	11.92
499927	RGD1561517	17	15	16	23	18	23	20	19
108349776	LOC108349776	4.78	3.1	4.05	5.03	4.42	4.32	5.03	5.34
309570	Slc18b1	313	322	286	262	343	348	323	319
103693540	LOC103693540	41	36	22	35	30	31	42	48

84390	Hcn1	828.29	809.53	733.99	1005.2	1015	951.1	1002	837.42
361708	Snx32	551	531	551	510	574	627	573	641
362972	Pnpla3	663.59	693.69	635.73	704.97	802.2	761.1	711.1	766.3
100911453	LOC100911453	26.26	78.78	24.47	75.74	100.9	0	25.43	105.04
192254	Grasp	117	94	114	92	114	113	124	119
309175	Cdc42ep2	794	744	635	682	825	864	779	750
290636	Pgls	464.92	444.79	481.92	377.17	477.5	520.6	538.9	456.97
680407	Mark4	1331	1295	1235	1376.2	1534	1503	1451	1417.17
680312	Hist1h2bk	53.56	33.86	38.3	44.02	38.67	56.59	48.45	47.69
266605	Dcps	174	208	172	143	200	207	188	191
680282	Tceal5	148.05	162.54	137.93	151.76	167.8	188.7	178	142.46
367295	4-Mar	176.63	176.9	209.65	184.48	243.3	212	200.7	187.21
80754	Rabep2	680	647	592	624	725	711	687	745
685844	Sh2d1b2	57.88	51.59	51.71	45.55	64.69	53.56	63.85	51.06
64626	Rem2	377	335	327	345	383	394	451	333
103691272	LOC103691272	10.4	10.33	7.7	18.48	19.07	15.37	10.06	8.41
287564	Tmem132e	2008	2072	1950	2277	2580	2608	2118	2064
299613	Mex3d	479	403	429	392	469	506	460	486
56825	Cym	33.17	18.82	43.98	26.57	30.5	32.11	46.67	28.96
306534	Unc5d	74.11	75.17	60.6	67.4	76.25	74.27	70.9	91.39
406228	Krt2	24	19	13	22	24	27	21	16
362942	Slc52a2	188.23	182.6	180.32	198.12	200	212.8	218.3	214.24
500307	Tmem121b	53.08	48.04	59.09	32.31	61.95	55.68	47.77	51.87
24256	Psgl9	4.87	2.99	8.74	4.06	5.08	5.82	6.05	6.37
65277	Vtila	174	170	157	190	188	190	195	207
362979	Panx2	1860	1813	1477	2089	2062	2244	1996	1870
681200	Skor2	242	233	269	311	313	320	270	288
502576	RGD1560554	7.34	7.19	6.53	5.52	4.11	9.24	7.92	8.74
366274	Ntsr1	177	175	171	166	195	225	175	183
102547039	LOC102547039	28.27	23.72	14.16	21.37	18.35	30.98	26.59	22.92
691504	Zfpml	529	532.19	486.41	524.15	664	636.2	532.1	507.68
308758	Hddc3	232	261	222	172	247	225	281	249
288664	Pheta1	225	152	156	161	187	208	187	202
689576	Nkain3	40.29	35.05	39.09	44.39	52.35	55.43	31.3	40.34
501828	RGD1566006	2.16	2.39	2.31	0	3.25	1.12	1.34	2.04
102553382	LOC102553382	17	18	18	24	20	19	28	20
292206	Trip13	35.11	27.08	32.22	18.08	32.1	28	37	30
311137	Zfp385b	709.95	764.75	614.02	857.82	830.4	915.2	847.2	736.58
108348093	LOC108348093	5	0	0	0	0	0	3	2.65
309659	Mdgal	326	400	332	426	465	442	369	401
291961	Exoc311	125.15	124.94	126.99	120.2	143.5	140.6	150.4	127.48
681825	Vbp1	1109	966	891	813	1139	1119	978	1035
29130	Syn3	126.71	139.47	124.9	174.69	191.8	151.6	153.1	142.92
24167	Adcyap1r1	111.2	80.15	69.23	130.43	125.6	114.1	109.2	93.1
308420	Zfp112	74.28	69.57	72.58	81.33	89.68	94.33	74.26	78.32
25684	Mep1a	9	4	4	6	8	4	10	4
171341	Mgst1	894	779	903	727	898	897	975	964
314457	Ankrd9	243	229	212	212	283	281	227	222
497962	Lym9	305	320	289	287	303	302	366	387
298496	Kcnq4	486	348	443	412	465	537	461	447
360583	Dhrs11	177	165	143	149	185	180	170	182
311287	Ano3	1851	1904.98	1828	1680.9	2374	1577	2251	2015.92
313017	Sfn	45	54.16	75	45.18	53.53	67.21	66.03	61.36
314480	Gpr132	34	26	25	14	34	33	28	17
84600	Rag1	23	23	46	7	34	42	24	12
363150	Elp6	283	316	287	241	313	331	305	326

60669	Cmklr1	124.28	95.66	130.9	100.99	117	149.1	109.9	135.19
680906	Fam169b	9	5	12	12	5	9	17	12
501230	LOC501230	60.41	42.87	24.2	53.16	42.94	21.24	90.23	50.01
29686	Scn1b	5542	5477	4873	5224	5875	6486	5939	5597
117052	Kcnj12	663	642	570	636	725.8	759	683	673.97
295458	Bdh2	51	51	60	58	62	62	63	62
299509	Myo1a	359.36	249.64	277.51	304.09	296.8	360	332.3	358.5
287095	Zfp13	84	72	88	97	122	75	99	90
64557	Bard1	15	12	15	11	15	12	20	13
689786	Catspere	13	14	9	17	16	13	17	14
25177	Fhl1	1487	1354	1694	1241	1414	2144	1519	1463
108348144	LOC108348144	17.87	31.28	26.81	58.09	26.66	44.69	31.28	49.16
298518	Csf3r	84.84	79.8	99.51	61.55	110.4	86.59	103.6	68.17
114244	Hcn2	2138.9	2302.96	1871	2370.7	2497	2634	2343	2359.89
680329	LOC680329	37	30	90	9	69	62	40	17
117101	Kcnc3	2242.1	2264.09	1819.9	2748.5	2684	2806	2585	2202.33
113907	Sbk1	1213.9	1002.03	856.61	1081.6	1303	1209	938.5	1254.94
108352198	LOC108352198	97.74	84.71	73.82	75.62	91.92	98.85	79.84	105.32
103690023	LOC103690023	36.5	42.5	52.5	30.5	40.5	46	53.5	43.5
689039	LOC689039	36.5	42.5	52.5	30.5	40.5	46	53.5	43.5
310655	Cgn	54	58	49	65	58	71	66	61
301115	Ak5	5.48	2.71	4.25	2.55	8.51	2.56	3.9	2.01
60666	Gpd1	830.34	854.05	749.98	837.83	792.3	1141	825.3	947.97
363324	LOC363324	534.57	266.26	353.1	255.02	434.5	223	479.3	459.34
301506	Fsd1	321	345	312	324	394	367	346	368
691468	RGD1561277	227.37	171.63	185	225.94	213.6	221.6	252.3	230
498281	Nectin4	46	49	38	40	52	44	49	51
59318	Negr1	161	143	124	203	208	158	189	160
295327	Nhlh2	75	64	85	99	103	67	102	94
64387	Ccdc80	283	249	356	305	317	449	330	256
65193	Nkx6-1	3	2	2	8	6	3	2	6
688553	LOC688553	6	2	3	4	6	4	5	2
360848	Shisa4	1095	1087	1011	1067	1159	1261	1189	1219
685729	Pcbd2	166.21	179.81	166.99	150.73	158.8	163.6	206.8	223.18
307806	Thap11	260.53	255.63	227.32	210.99	238.7	271.8	307.8	263.6
288512	Elf1	634.44	757.59	723.52	850.65	977.2	779.5	877.7	728.17
690308	Tsen54	177	171	151	174	190	212	187	174
102549710	Samd11	183.22	186.95	203.07	197.72	204.6	246.1	240.6	182.78
114502	Pax3	8.77	6.07	14.02	16.14	14.29	17.27	12.21	7.25
362334	Tmem140	98.97	104.22	88.04	98.62	112.9	140.9	106.1	82.08
308834	Usp35	1019	995	904	1067	1194	1214	1075	1036
305691	Zfp385d	199	175	165	252	254	188	221	234
315173	Mcat	200	222	194	175	221	217	237	222
100360856	LOC100360856	213.94	227.45	183.83	197.79	258.7	226.1	143.3	305.25
362841	Mier2	295	289	348	291	316	343	386	342
500066	Strip2	142.85	164.61	131.19	162.52	174.1	170.1	183	154.62
170924	Abcc4	458.9	502.98	501.88	517.98	554	600	559	534.88
24203	Amyla	5	14	11.91	7	7	16	10	10
307925	Spire2	1547.1	1542.91	1416.8	1631.3	1783	1853	1707	1619.66
306328	Med26	125.51	123.22	123.86	88	126	126.7	140.7	129.08
689996	Tomm201	1	2.86	1.02	3	2	2.99	1.95	2
363563	Fb111	476	433	427	358	522	489	464	447
100911693	LOC100911693	58.04	120.29	79.1	69.03	106.8	86.59	135.6	41.35
310678	Hist2h3c2	18.5	6.57	0	22.5	15.26	19.9	7.8	11.02
688407	Mett127	78	85	85	56	101	71	79	94
361519	Zfp428	312	275	261	256	316	308	290	339

684681	Hist1hlc	3466	3683.11	3316.1	3417	4112	3873	3981	3795.01
293874	Trpm6	119	108	119	134	137	150	133	125
293481	Tufm	1300	1316	1146	1339	1486	1488	1290	1528
84010	Dl11	41	36	33	45	51	50	53	22
497916	Mief2	194	218	207	163	200	217	233	238
498959	Fbxo31	1463	1538	1301	1369	1694	1747	1507	1492
29369	Fgf18	108	114	98	100	117	131	113	116
288161	B3galt5	191	184	94	194	192	191	195	175
298690	B3galt6	145	108	96.98	129	146	105	164	129
307799	Pard6a	129	106	111	103	138	120	119	133
361277	Acbd7	49.37	55.03	40.1	42.31	55.97	52.29	53.74	50.19
100360464	Arxes2	146.54	142.22	107.94	120.14	136.2	122.9	162	166.19
315705	Rpp25	35	40	29	28	35	39	37	39
100910207	LOC100910207	261.16	470.09	156.7	261.16	522.3	261.2	208.9	313.4
309390	Entpd7	16.42	14.01	21.26	25.06	21.53	20.19	28.7	16.81
299341	Apopt1	372	330	288	335	424	357	340	385
499957	Samd10	274	260	228	204	265	247	275	311
291157	Hist1h2bo	10.09	3.71	9.23	9.68	5.18	8.43	11.72	11.85
293587	Fuom	5.03	10.74	4.24	4.57	4.32	3.78	4.61	15.23
304346	Mblac1	124	126	113	105	123	128	142	139
304928	Mettl18	33	37	27	20	23	45	32	33
116719	Acacb	186	187	157	186	215	242	202	155
500152	Mmrn1	76	39	40	13	56	42	45	48
245963	Egfl7	203.12	205.64	196.82	129.56	201.2	252	221.6	160.99
294231	RGD1302996	1258	1290	1141	1197	1361	1437	1399	1358
680403	Hist1h2bc11	8.04	2.91	1.49	2.97	5.74	1.76	4.7	5.32
117183	Rgcc	337	267	325	239	261	430	306	331
294208	Trim31	15.82	24.79	19.24	16.87	23.67	23.95	17.21	22.4
364208	Cnrip1	1035	878	841	986	1018	1071	1127	1037
314423	Bcl11b	73.01	76.98	99	90	96.02	103	103.5	83
314213	Gpr135	53	74	45	61	73	65	67	60
497899	LOC497899	80	52	45	56	60	71	62	72
362100	Endog	107.47	102.04	117.11	67.65	120.3	111.7	118.3	98.36
83810	Trpv1	2074	1964	1785	2054	2430	2115	1977	2440
100363494	LOC100363494	845.74	757.28	826.79	744.55	901.8	941.1	865.9	902.85
100233177	Zfp949	131	125	119	133	149	111	127	191
500252	Hlfx	951	925	852	790	1106	997	893	1007
114639	Zp3	8	6	6	9	2	15	12	4
25431	Dlx5	7	5	13	4	4	11	10	8
307897	Sdr42e1	41	35	38	31	32	47	45	41
315435	Panx1	275	293	302	384	387	378	346	316
304554	Sez6l	173	168	182	223	213	278	191	167
287148	Rpusd1	225	234	220	248	300	274	229	252
29331	Hapln1	766	760	512	923	818	996	842	714
414790	RT1-CE13	89.3	103.03	62.85	35.4	81.18	96.45	65.66	87.43
316003	Amigo3	622	616	484	623	682	715	648	624
308992	Zfp771	614	544	529	454	713	573	579	572
287094	Zfp213	182	202	160	143	197	203	175	207
362676	Prxl2b	445	408	407	367	480	434	435	503
361054	Ebpl	222	209	204	182	226	218	232	254
298534	Clspn	9	10	20.05	4.54	11.8	12.02	12.6	13.2
100363112	LOC100363112	15.78	12.07	21.07	25.58	19.18	19.63	14.87	31.14
108348070	LOC108348070	34.74	0	0	0	0	39.56	0	0
114491	Cited4	9	4	13	10	12	12	6	11
688293	Sgsh	48	55	64	56	63	67	72	52
681936	Ism2	183	163	192	165	233	192	195	181

305095	Tmcc2	851	890	814	901	1087	1028	920	903
691414	LOC691414	655.07	624.49	506.13	529.61	754.5	600.6	482.2	800.89
293524	Bag3	3039	3448	3249	3817	3796	4472	3810	3366
170579	Fgf22	12	14	9	8	12	11	18	8
499470	Armc2	30	33	32	34	31	43	38	35
303004	Tmem8a	752	739	640	714	828	827	791	796
25327	Kcnc1	464.89	541.81	382.12	635.12	585.3	596.9	567.7	556.4
680751	Ebf4	140	115	102	123	152	144	130	121
502908	LOC502908	1.13	2.38	0	0	1.19	2.81	0	0
29758	St6galnac3	91	72	69	76	80	88	89	94
25261	Id1	236	302.46	257.97	238.62	321.8	328.7	345.9	183.23
365179	Zfp524	141	161	164	141	184	188	146	174
498228	Mfsd4a	62	65	56	52	65	67	74.91	61
292722	Tmem145	471	462	426	440	564	544	491	452
293493	Fam57b	4317	4198	3637	4415	4729	5072	4476	4611
415064	Gpank1	219	252	224	197	285	268	233	231
293107	Ccdc89	16.33	30.08	18.37	20.94	32.1	27.51	23.08	15.05
690131	Hist2h2aa2	459.65	452.45	518.66	336.34	414	558.3	400.4	642.26
102551000	LOC102551000	1.01	0.93	3.19	1	2.11	1	1.95	1.93
300889	Ankrd34c	87.73	113.82	104.39	113.66	97.17	121.2	149.9	110.22
499099	Cd177	62	48	72	4	97.97	46.5	56	11.63
100910047	Gfy	1144	1251	1130	1383	1349	1544	1455	1249
24799	Eef1a2	15964	16882	14803	17421	18670	20504	18136	16896
499505	Msh3	244	243	230	279	280	269	302	285
299604	Polrmt	338	323	365	283	360	391	369	373
29204	Neu2	25	19	7	13	18	24	13	18
360665	Jmjd6	179	146	163	173	178	174	208	194
684111	E2f2	135	78	138	54	179	113	81	89
497881	Tlx3	1048	1004	942	913	1215	1180	1020	1042
289801	Upp1	47	34	40	21	45	42	40	35
688283	Afmid	113.46	123.02	117.58	113.98	126	145.4	132.7	129.85
117105	Kcnb2	277	282	225	309	400	189	247	411
690333	Sertm1	504	613	199	621	468	587	535	620
296048	Lpcat4	1296	1344	1239	1421	1610	1606	1463	1368
308775	Det1	93	86	102	95	104	117	113	95
360639	Dcakd	764	911	802	954	849	1042	987	1037
25393	Bcan	1511.5	1602.5	1437	1971.5	1767	2100	1656	1920.12
54295	Rgs6	340	385	229	413	390	417	375	378
679806	Fer115	40	48	44	45	46	47	60	49
113912	Rtn4r	201	203	166	187	224	246	186	208
286923	Dlgap3	1224	1111	1137	1133	1456	1315	1221	1264
24264	Ckb	12823	13107	11842	11645	13635	15249	13834	13695
304669	Hook2	94	73	107	79	103	94	107	99
103692792	LOC103692792	243	214.46	194	191.01	271.8	215.1	239	236
499980	Ccdc146	24.35	31.24	28.29	30.34	34.56	33.36	35.29	27.21
290633	Gtpbp3	204	199	163	174	207	238	208	192
305096	Klhdc8a	109	138	76	135	114	122	119	168
304496	Orail	267	231	249	260	310	290	248	302
300050	Bop1	519	528	539	475	599	625	586	544
25688	Clcn1	131.24	193.8	133.88	197.83	155.8	221.5	183.2	189.72
316290	Ogfrl1	793	806	624	827	977	795	766	946
287847	Rbfox3	1817	1795	1781	1858	2277	2201	1960	1845
312679	I117ra	398.52	428.43	591.11	502.71	554.2	605.4	605.6	429.07
360908	Cdc7	68	60	74	79	78	77	81	85
100361898	LOC100361898	47.5	39.55	55.86	19.02	30.41	50.62	52.45	51.52
114509	Mapk7	366.78	347.45	263.38	325.88	401.9	348.4	332.2	406.73

108348114	LOC108348114	230.37	276.82	275.29	237.48	318	307.7	258.4	281.42
24602	Nppa	107	75	76	57	89	93	89	89
287102	Kremen2	1	5	0	1	3	1	2	2
290032	Eddm3b	3	2	4	5	2	6	6	2
295518	Clnk	2	3	6	3	7	5	2	2
296608	RGD1306233	5	5	5	6	6	5	10	3
299316	Slc25a47	2	6	9	4	6	8	6	4
315712	Ccdc33	2	1	2	2	0	3	3	2
58922	Sebox	1	5	1	0	4	1	1	2
79217	Gja3	4	0	5	5	7	8	1	0
100359918	Lnp1	7	7	6	8	5	14	8	5
25117	Hsd11b2	20	16	21	20	26	25	19	18
25633	Dnase1	10	3	8	7	8	8	9	7
108348080	LOC108348080	142.39	177.98	106.79	71.19	142.4	142.4	178	106.79
64191	Dhcr7	1029	1055	952	1029	1099	1198	1112	1237
108352650	LOC108352650	7.6	21.16	3.84	3.7	10.63	11.6	15.18	4.08
316758	Lama1	15.32	12.27	8.87	29.14	27.31	15.04	17.77	14.86
362911	Mal2	289	221	171.49	280	272	235	308	284
65155	Alas1	811	831	745	742	876	975	948	778
56761	Notch3	451	420	439	482	504	572	507	466
362628	Ifnlr1	127.7	129.58	137.62	122.87	156.1	144.9	140.3	150.88
363206	Tmem14a	170.38	126.15	158.66	131.08	178.3	159.1	151	182.17
690126	LOC690126	91.56	69.8	97.66	86.95	114.3	99.85	95.34	86.29
362258	Actr5	83	104	88	86	83	115	103	112
304929	F5	43	21	40	7	38	33	31	25
64537	Hpse	305	309	195	287	297	307	365	285
362931	Adgrb1	809	893	845	907	984	1106	961	901
687827	Haspin	54	55	42	50	61	51	65	53
102554194	LOC102554194	150.61	117.22	146.3	201.18	183.5	169.2	147.4	204.05
64356	Nrgn	29	20	16	25	39	24	22	18
171393	Clstn3	2399	2473	2338	2839	2879	3135	2838	2652
85275	Mpp2	407	475	422	441	513	540	462	483
306790	Sema4d	581	560	554	643	692	699	617	669
315711	Sema7a	2555	3031	2535	3224	3060	3621	3195	3116
296545	C8g	47	42	44	40	65	41.14	45	47
363256	Speg	557.12	499.58	530.66	620.35	746.2	704	543.9	534.7
252882	Mamdc4	28	23	32	27	25	29	38	34
286939	Clmp	1554	1792.97	1312	1924	1884	1918	2020	1719.99
108353318	LOC108353318	23.82	19.28	22.91	16.89	25.41	27.69	21.66	20.22
79122	Fdxr	120	124	129	121	142	162	129	133
362760	Galnt16	86	92	92	73	96	117	95	85
361921	Ect2	32	29	57	26	45	34	39	47
311311	Meis2	312.31	309.46	266.42	344.58	362.9	397.1	326.1	326.54
102556459	LOC102556459	18.45	13.44	23.89	26.86	25.71	16.51	21.38	31.1
103690027	Aspn11	8.74	6.99	5.81	2.85	3.49	5.24	8.74	10.48
24247	Casr	1559.5	472.26	465.01	1624.6	1202	1035	962.4	1522.77
29636	F2r12	299	260	354	388	524	328	330	309
114090	Egr2	421	565	656	658.01	406	835	860	535
81756	Rab13	131	115	116	144	144	160	147	129
290639	Fchol	520	444	506	449	617	555	518	510
60433	Rfng	824	799	762	851	1007	980	795	928
114515	Lancl1	1644	1403	1158	1631	1685	1626	1750	1630
66024	Npy2r	184	141	176	161	199	191	183	186
293155	Anapc15	357	319	339	295	392	345	361	404
65081	Vps33a	655	673	650	358	692	690	638	659
25009	Vars	1069	1287	1198	1203	1423	1517	1249	1267

100192205	Hsbp111	71.83	77	72.13	66.97	107.3	72.56	71.71	78.69
368153	RT1-CE7	234.52	244.21	283.19	148.28	303.8	261.4	232.2	246.78
359727	Bysl	290	281	318	298	374	354	322	312
290356	Phyhip	162	207	187	227	228	240	186.5	244
252897	Pcdhgall	229.3	215.9	272.46	190.15	253.9	335.4	183.4	269.03
306657	Irx2	18.99	10	13.01	17	21	12.7	13.01	21
365511	Zfp296	15	17.07	16.1	12	17	24	14	14.06
309440	Mrpl43	473.29	528.01	490.22	460.56	512.2	570	595.7	562.9
65023	Kcnip1	1145	1020	813	1029	1132	1120	1201	1147
304374	Fbxo24	14	34	19	14	17	31	20	25
685055	Atr	1363	776	992	1592	1366	1123	1507	1427
314473	Kif26a	98	91	91	104	112	101	115	113
171084	Nat8b	10.28	11.43	10.02	0	0	1.31	13.14	21.99
313650	Fam43b	889	932	849	900	975	1175	969	981
315978	Nek11	62.87	83.44	68.1	76	84.58	93	69	87
500474	Rnf183	3.02	3.03	5.07	1.99	7.79	2.85	2.4	2.02
26759	Acot7	5681	6032	5652	5665	6706	6698	6354	6699
499421	RGD1564162	15.9	11.87	0	13.35	14.3	17.51	0.02	15.41
361016	LOC361016	103	109	111	53	120	114	80	118
116638	Slc17a7	3513	3601	3055	3709	3940	4390	3965	3652
54233	Car5a	23.76	25.61	23.37	16.23	24.12	18.12	30.92	29.08
24417	Grm4	301	298	244	321	360	380	286	312
81726	Mvd	720	851	888	691	857	934	837	993
305253	Adamts3	124	119	149	136	138	158	154	157
245979	Lmo1	124	114	125	98	118	146	142	124
688286	LOC688286	41	48	39	39	50	45	48	49
366491	Spata21	20.01	14	17	9	15	21	15	18
282583	Fbln2	8108	7587	6944	7216	9168	9214	7759	8187
29685	Mcm6	73	65	107	62	100	84	90	79
100912338	LOC100912338	3	8	6	3	5	5	8	5
292916	Syngn4	6	6	4	4	3	8	6	6
499586	Tmem212	3	7	4	6	7	5	5	6
690755	Lingo3	10	17	5	8	20	7	11	8
689439	LOC689439	19.43	13.69	14.02	18.25	19.21	15.86	23.83	16.3
54262	Kcnn2	174.71	189.42	181.16	203.18	242.2	201.9	226.1	190.57
290629	Ushbp1	78	76	71	68	96	83	86	72
29470	Mecr	151	155	140	113	145	182	158	158
682360	Fam167b	34	24	39	16	32	38	39	21
316533	Chpf	2795	2840	2786	2542	3189	3268	3212	2945
171051	Cabp1	2633	2458	2141	2380	2854	2937	2636	2635
305705	Lrrc3b	113.23	100.08	80.18	87.78	90.65	104.2	124.1	119.81
360323	RT1-N2	154.46	179.55	118.23	132	154.7	174.4	129.7	213.85
315789	Fam81a	274.12	252.25	186.26	228.5	309.7	263.9	243.1	266.89
297694	Plbd1	70	74	89	51	75	99	89	64
681043	Acnat1	5.29	2.93	3.07	0	2	4	3	4
294754	Pelo	465	504	450	502	521	555	598	538
103694876	LOC103694876	74.28	79.6	102.01	63.58	122.2	77.01	77.26	91.46
171554	Cdhr5	24	25	27	36	37	35	29	28
363912	Piwi1	24.88	14.93	19.03	21.05	14.94	25.06	21.01	31.04
363301	LOC363301	140.93	87.22	124.76	100.79	155.8	61.2	149.7	156.05
316531	Tuba4a	6926.1	7293.84	6200.2	7136.4	7886	8386	7971	7510.39
501122	Amer3	262	284	299	264	323	307	330	318
29326	Gpx2	1357	736	1649	1147	1933	1333	875	1494
360243	Top2a	90	62	168	60	135	125	99	79
501502	Sh2d1a	20.37	15.49	14.62	21.31	24.22	21.77	22.03	14.73
64628	Hes3	26.29	32.4	26.42	13.72	33.34	31.3	27.85	21.43

680842	RT1-M1-5	2	1.01	3	7.01	3	5	4	3.01
500622	RGD1565766	9.69	12.17	37.19	36.32	28.18	31.44	19.2	31.16
500987	H2afx	438.19	432.5	424.9	427.72	520.7	534.7	461	471.49
498353	Scfd2	298	301	260	268	325	326	357	292
59301	Ghr1	5	8	9	17	17	8	11	9
25375	Aldh3a1	8	7	7	4	9	6	11	4
25477	Lhcgr	7	2	3	1	2	4	5	4
366432	Slc1a7	4	5	1	3	5	4	1	5
498065	Lca5l	5	4	2	2	5	2	6	2
25259	Gp5	31.77	29.98	17.53	18.7	24.01	32.23	27.04	29.79
108349568	LOC108349568	3.17	5.62	4.7	5.33	8.98	2.79	5	4.95
108352688	LOC108352688	21	17	22.01	22.01	16.35	25	20.3	33.01
29583	Pecam1	327	251	255	218	351	359	299	204
362255	Vstm21	1695	1691	1477	1574	2020	1953	1844	1614
192153	Gpr26	57	57	44	49	71	59	51	58
360661	Llgl2	76	58	58	73	76	79	85	66
498997	Rspo3	17	7	20	27	18	22	17	25
303559	Arl4d	61	57	45	95	49	66	87	96
499943	Spata25	2.28	1.09	2.24	0	3.19	2.21	0	1.08
170509	Cyp3a62	7	10.95	8.99	12	13.99	6	9	15.99
25662	Igfbp2	837	635	840	660	980	780	665	1008
499917	Tmem74b	23	30	18.02	19	26	24	27	27
307098	Net1	625.07	564.75	545.47	529.94	728.9	765.2	610.4	512.64
296145	Fbln7	45	38	33	32	39	50	50	32
266769	Gpr3	50	46	42	42	56	62	48	42
308724	Agbl1	14	10	8	13	16	19	10	7
83521	Rrad	33	21	22	14	19	41	25	19
102557478	LOC102557478	2.59	2.07	2.89	5.82	7.56	1.81	0	6.08
366949	Mafa	272	248	249	246	323	312	293	245
363120	Esyts3	25	35	24	25	29	33	28	36
292541	Nlrp12	3.24	6	4.99	2.05	5.21	4.02	5.01	4.58
192172	Mpst	341	351	312	271	352	374	364	384
103690052	LOC103690052	3.5	2.5	3.11	3.5	2.08	3.5	5	4
103694870	LOC103694870	3.5	2.5	3.11	3.5	2.08	3.5	5	4
108349537	LOC108349537	0.93	0.99	0	0	1.7	0.52	0	0
108353041	LOC108353041	0.93	0.99	0	0	1.7	0.52	0	0
313785	Icam5	4	8	11	9	11	10	6	10
315550	Rpusd4	233	164	161	145	192	209	183	229
103690019	LOC103690019	18.79	12.54	12.25	13.1	18.12	20.02	15.23	12.19
499839	RGD1564664	1285	1166	1099	1226	1452	1405	1311	1358
302996	Ccdc78	13.08	7	7	4.03	8	13	8	7
291356	Et14	2321	1965	1834	2441	2696	2528	2116	2567
362976	Trmu	121	121	111	98	131	132	137	122
24189	Aldoa	25114	25292.9	23304	24231	27571	33209	25148	27440.99
361424	RGD1309651	38	50	28	30	45	44	43	37
499506	Ankrd34b	93	62	80	76	97	90	85	88
295219	Slc27a3	206	192	207	201	253	234	220	226
106146145	Baiap3	10	11	6	11	14	10	12	8
25106	Rgn	22	23	20	11	20	23	22	23
497860	Rpl391	2	7	2	8	0	4	8	10
362715	Dtnb	764	750	618	805	823	907	862	809
499561	Fam173b	249	228	214	200	248	257	276	251
500065	Tspan33	77	82	68	70	90	86	88	80
317382	Foxp3	10.77	4.41	6.04	5.03	4.01	11.7	9.62	5.08
25362	Slc30a2	30	13	11	9	16	20	13	24
108348172	LOC108348172	504.64	565.44	589.76	484.3	711.3	583.7	589.8	599.9

108348185	NEWGENE 2724	2.23	2.02	4.47	3.3	5.99	1.77	1.96	4.21
317675	Tph2	205	162	177	141	185	186	209	214
298002	Rpp251	128.3	105.83	147.66	105.67	163.5	152.5	118.9	130.22
360970	Cabp7	190.03	154.32	149.52	149.18	218.8	167.1	206.6	153.11
689823	Rad2111	10	18	23	18	15	15	14	36
100910954	LOC100910954	0.94	0.98	3.11	1.99	3.15	2.99	2	0
85273	Fbxo2	4867	4569	4627	4397	5774	5432	5099	5101
114032	Kcnh4	6	5	9	5	6	9	6	8
24925	Adrb1	12	13	7	18	11	14	16	17
64826	Foxq1	26	34	21	19	39	32	24	21
308463	Map3k10	1214	1011	983	1053	1348	1259	1166	1170
362860	Appl2	652	661	493	616	669	630	844	667
691478	Cpne6	5756	4946	5171	5948	6645	6535	6726	5412
685184	LOC685184	14	19	25	23	31	21	17	25
25155	Syk	103.21	100.03	183	67	140	143	130	113
29499	Shh	483	397	488	438	472	614	565	445
117185	Neu3	64.28	69.3	56.46	62.98	73.68	85.25	68.14	66.58
296985	Clec21	4971	5315	3594	5051	5294	5681	5441	5555
499914	Gins1	52	53	45	43	51	54	60	59
501630	Mum111	103	142	87	110	163	103	136	111
298404	Arhgef39	31.17	24.69	22.3	25.24	27.64	32.37	38.46	21.54
313108	Mms221	36	12	42	22	32	30	36	32
100360722	Sirpd	1	1	3.97	1.06	5.16	1.16	0.84	1
108348049	LOC108348049	76.89	74.06	75.18	61.63	74.53	98.06	79.59	81.95
360960	Hmx1	84	90	55	75	93	90	75	95
366517	Ttc34	8	10	7	6	10	8	9	9
64348	Cryba4	15	20	18	9	17	22	20	13
363134	Rrp9	219	206	219	168	245	253	218	227
102550773	LOC102550773	8.07	12.29	12.22	14.88	8.71	15.59	12.01	18.81
302083	RGD1562660	349.44	204.16	191.11	124.96	251.6	129	295.5	334.11
361699	Ankrd13d	918.57	884.58	875.14	872	1076	1029	1044	975.02
367786	Bmx	20	18	18	12	20	17	26	16
305302	Ras111b	155	142	144	140	163	223	153	136
680117	Tlx2	748.26	771.55	636	650.73	902.3	761.8	793.7	803.07
171517	Gpc2	18	19	22	21	27	29	19	18
301372	Gpr45	18	21	14	27	17	30	29	17
305589	Bcl11a	87.32	127.66	126.37	124.68	152.1	128.5	128.7	132.52
303039	Wwc1	81.04	77.14	70.98	91.37	111.3	103.1	81.49	76.85
680110	Rprm	718	582	573	527	693	692	739	667
502873	Prrt3	818.59	882.61	787.29	898.22	1049	1092	993.3	804.64
246333	Pcsk1n	8675.4	8001.56	7640.2	7078.7	10306	9353	8109	8747.1
681186	LOC681186	0	0	0	2.82	0	0	1.64	1.64
24566	Mst1	6	13	13	17	10	12	10	25
302819	Arhgap36	375	372	434	410	490	444	481	436
493909	Aox3	40.08	21.6	19.56	47.38	30.45	35.49	51.6	32.1
500553	Zbtb8b	44	33	34	48	50	44	43	48
287796	Slc39a11	166	174	162	150	208	198	145	208
29644	Ptpn5	199	197	181	209	236	229	243	207
266687	Slc35e4	540	465	546	450	586	649	567	528
361514	Meis3	400	341	358	312	405	445	402	391
102553495	LOC102553495	53	31	34	46	53	52	46	40
313057	Serinc2	280	279	297	267	340	332	304	332
58835	Phgdh	2166	2072	1628	1756	1875	2448	2077	2481
290566	Ogdh1	155.63	180.42	169.76	204.16	193	228.8	195	210.56
308607	E2f8	13	11.86	22.57	8.71	28.19	10	12	15.25
684792	LOC684792	279	311	295	267	396	271	358	318

29557	Myh7	276.12	297.53	294.54	222.74	344.7	376.4	320.4	230.4
360573	Ksr1	34.37	15.91	0	0	26.82	29.04	0	2.76
681316	Tpbgl	1348	1160	1241	1305	1574	1486	1439	1394
102555167	LOC102555167	2050	1746.57	1776	2236.3	2365	2358	2276	2106.03
689746	Tt1111	142	178	176	154	189	200	215	154
311202	Large2	17.16	15.62	16.9	22.77	16.42	20.45	24.84	22.8
100910163	LOC100910163	4.48	4.48	8.97	8.97	0	13.45	13.45	4.48
361432	Cdh15	888	719	901	980	1286	1110	747	926
102548506	LOC102548506	2	1	1	2	2	1	2	2
108351016	LOC108351016	2	3	0	1	0	3	2	2
192258	Gabrr3	2	5	3	2	4	2	7	1
25321	Ghrhr	3	0	1	2	1	2	3	1
292266	Ccdc170	5	6	11	2	4	7	10	7
298062	Plppr1	19	9	10	10	14	12	17	13
301016	Spink8	4	2	2	4	1	7	4	2
302302	Chst7	39	30	30	27	35	29	40	43
309203	Scgbl2	3	1	0	2	2	3	2	0
362506	Ccl19	10	6	8	6	8	9	9	9
64193	Pttg1	22	13	33	22	40	21	25	19
83928	Fetub	0	2	0	4	2	0	3	2
307721	Irx3	13.01	13	4	8	15.75	13.6	11	4
295228	Gpatch4	86	87	95	61	89	99	101	95
680493	Cd3eap	160.73	169.74	174.38	176.1	240.7	185.9	154.9	213.37
108351828	Arih2os	15.41	17.68	13.5	16.38	22.44	15.5	20.17	15.4
25560	Abcc9	165.09	140.02	192.46	156.72	174.1	236.1	195	158.73
102547212	LOC102547212	13.49	12.34	12.84	9.43	8.79	15.79	17.34	14.25
368190	Dnajc30	242	212	205	217	228	264	264	267
291770	Chst9	139	107	75	90	128	117	125	110
500352	Smco3	24.79	104.6	145.55	94.81	87.78	116.2	120.3	107.53
24558	Mog	103.92	112.43	79.93	113.22	133	128.1	107.4	109.86
293894	Tpd5213	18.91	20.9	20.34	13.4	18.23	24.45	27.64	15.6
498848	RGD1560482	13.23	18.54	2.18	8.9	7.4	10.89	16.91	14.86
288079	Polq	33	11	17	28	35	27	22	20
287368	Nt5m	346	450	417	381	485	477	456	445
291656	Pcdhb3	115.93	100.75	103.71	119.87	88.98	108.5	152	165.11
103691059	LOC103691059	39.19	7.18	23.73	16.45	22.21	22.87	13.41	42.68
54323	Arc	78	82	71	106	73	116	102	103
502774	Cpv1	16	19	7	23	21	13	25	17
100365744	Lrrc75b	456	418	460	498	623	547	490	483
297727	Mrps35	634.43	508.67	415.16	441.87	592.7	599.9	593.3	554.65
689830	Anxa9	75.33	58.18	40.86	41.34	50.37	72.49	66.02	63.54
302405	Pabpc112a	198	216	219	217	250	260	265	220
103693341	Tnfrsf13b	14	6	14	7	16	18	8	6
108349347	LOC108349347	5.92	14.65	14.23	14.41	14.65	8.75	19.7	14.52
100911855	LOC100911855	5.52	6.19	7.97	2.62	2.63	6.62	5.3	11.57
299112	Pole2	18	20	20	12	25	13	21	23
25515	Plk1	33	29	43	29	48	38	37	34
362691	Tmem178a	54	80	52	76	73	86	64	84
25505	P2rx1	14	17	22	11	22	25	17	11
54266	Madcam1	24	34	39	31	34	38	39	39
501297	LOC501297	354.32	195.56	271.64	160.36	436.9	151.6	267	295.44
288026	Atp13a4	97	57	54	47	77	62	76	84
302392	Magee2	30	40.01	42	44	33.09	46	51	52.86
309387	Cnnm1	1097	1054	864	1165	1260	1309	1170	1163
108352200	C10H5orf58	1.25	2.17	1.55	2.44	2.19	3.17	0	3.33
50564	Gjd2	18	33	10	20	24	27	20	24

102546596	LOC102546596	2	2.5	1.69	0	1.5	2.26	0	3.5
25108	Avpr2	23.94	31.32	25.21	30.11	46.4	27.23	31.07	25
298426	Nsun4	252.31	209.89	202.73	239.42	225.5	283.7	278.4	273.24
103690059	LOC103690059	93.55	108.89	102.77	107.36	159.7	98.23	113.4	112.68
314260	Plek2	4	10	12	9	16.06	5	9	11
314818	E2f7	25	32	35	35	41	38	37	33
302507	Efhc2	92	97	86	94	89	98	123	123
501101	Lrrc73	252	267	204	268	305	287	274	297
501396	LOC501396	175.47	108.41	94.17	101.81	173.6	132.7	105.3	151.58
303218	Hs3st3b1	17	15.22	17.9	22	23.8	19.84	18	23
304987	Aim2	7	11.09	10.99	13.13	5	21.04	13.5	10
302333	Dach2	14.03	13.99	15.01	13	13.81	16.84	13.95	21.16
311633	Neur12	23.12	25.09	27.08	22.07	31.06	34.09	28.09	21.04
103693564	LOC103693564	46.3	23.15	28.94	34.73	69.45	34.73	23.15	28.94
303965	Myh15	6	6	5	6	9	6	5	7
360588	Brip1	10	9	16	11	22	12	12	8
79222	Gucy2e	17	19	19	14	28	20	11	22
117533	Gmpr	747	755	696	693	860	933	805	797
500917	Odf3b	53	28	52	39	37	48	65	52
306342	Nxn11	10	15.68	14	22	18.68	20.76	17	16
100911672	LOC100911672	294.51	442.38	335.07	303.06	718.2	492.5	101	303.76
361669	Tcerg11	171	171	164	180	219	219	191	177
291637	Pcdhga5	77.89	94.66	105.12	96.57	90.21	112.9	128.9	107.83
294335	Susd2	8424	8651	9434	9666	11453	11873	9906	9285
100361389	Fam171a2	754.43	821.82	856.2	808.34	935.8	955.5	947.3	970.51
298034	Slc46a2	62	57	50	53	78	77	52	54
502143	Idi2	0	1.48	0	0	1.26	0.48	0	0
303140	LOC303140	36.05	40.99	41.15	34.93	40.89	31.89	45.66	61.59
117055	Gjb4	1.03	3.27	3.07	1.33	2.57	1	4.28	2.38
29162	Cdh7	135	164	111	135	172	149	164	156
24471	Hspb1	3902	3528	3854	3573	4843	4035	3683	4914
103692273	LOC103692273	287.88	133.61	144.83	313.11	253.8	256.6	202.5	321.5
289459	Slc10a6	22	21	28	14	21	32	28	19
686977	RGD1624210	0	2.55	0	0	0	0	1	2
108352751	LOC108352751	5	5	6	1	2	11	4	3
245708	Gucy2g	6	6	2	3	9	5	4	2
312806	Art4	5	1	6	5	6	7	4	3
366366	Igfbp11	8	8	8	10	13	9	7	11
78957	Shank1	245	241	222	289	313	285	325	250
494198	Oas1k	8.39	5.94	2.46	9.67	5.54	6.49	12.74	6.37
24450	Hmgcs2	1165	1140	1106	1151	1394	1290	1250	1436
294011	Sfxn2	48.86	65.1	42.63	49.87	71.73	55.36	56.95	58.99
282582	Wnt5b	21	21	16	21	24	21	20	28
690610	Tmem86b	43.12	41.09	49.13	35.07	53.03	52.09	52.13	41.03
114494	Ccna2	75.39	58.91	96.11	40.72	88.26	75.68	83.88	71.41
685488	LOC685488	21.01	18.05	30.63	8.03	20.99	11	32.36	27.17
308773	Hapln3	15.12	18.14	26.7	25.33	18.86	24.2	25.82	31.56
499302	Gal3st3	42.07	42.65	27.23	45.85	47.04	54.42	45.55	38.82
24648	Serpinal	283	200	151	182	295	217	252	197
192189	Syt17	13	9	16	7	9	9	21	14
252835	Gdf5	18	19	21	32	32	25	26	23
501558	Map3k15	17.63	7.06	14.15	5.79	18.61	11.73	14.02	8.21
304053	Ripk4	61	56	40	62	87	61	66	44
686753	Npnt	115	108	78	92	110	111	151	91
317258	Itgblbp2	7	7	7	7	9	17	2	5
63882	Asic4	10	14	14	18	20	12	21	13

501747	Qrich2	22.18	22.16	23.24	22.13	24.15	27.22	31.21	23.15
300218	Tubalc	2964	2809.57	2348.8	2179.6	2877	2940	2961	3366.01
100362676	Klhl33	154	124	157	134	200	198	137	136
102552503	LOC102552503	2.34	9.17	11.28	7.63	12.82	10.26	5.25	7.55
108353163	LOC108353163	12	8	12	7	9	14	11	12
100911402	LOC100911402	768.45	697.2	830.93	911.89	831.4	1126	1129	697.33
245982	Coro6	488.52	520.49	386.88	597.9	606.1	675.8	560.7	509.86
301122	Dus3l	275	244	293	227	295	327	309	295
366229	Scrt2	1478.5	1467.4	1174.3	1664.8	1769	1830	1631	1597.03
108349479	LOC108349479	80.57	89.46	106.47	123.81	108.7	95.04	123.1	145.57
415062	Ly6g6d	17.07	24.31	22.65	12	26.79	20.51	24.42	18
29358	Npylr	1175.5	828.37	730.22	757.73	1062	963.6	1023	1072.44
64392	Aldh1l1	54	86	53	79	71	83	84	83
302583	Foxr2	10	8	10.01	12	9.06	8.16	12.99	17.01
501164	Cdk5r2	2351	2223	2045	2293	2846	2883	2419	2372
65194	Slc29a2	111.32	82.7	109.35	136.61	131.2	124.9	141.7	121.85
308511	Chst8	152	189	163	146	182	184	205	197
100364194	LOC100364194	1	0	3	7	7	0	2	4
116726	Slc7a9	3	1	1	6	6	2	4	1
292913	Fam83e	4	6	7	5	7	6	10	3
499971	Iqca11	4	1	3	3	4	4	3	2
83569	Abcb11	1	3	2	5	3	6	3	1
170808	Capn8	8	13	5	7	12	9	9	9
171529	Kif2c	16	15	25	10	21	22	19	16
300027	Gpihbpl	39	25	12	23	23	44	20	30
360847	Ube2t	9	5	11	8	10	11	8	10
500516	Lexm	57	62	40	50	58	65	60	64
288151	Hoxd1	385	358	347	367	444	415	427	436
100362216	LOC100362216	16.09	29.26	23.97	29.16	30.66	27.52	21	37.22
103690039	LOC103690039	25.06	12.62	24.14	18.35	25.11	22.01	15.59	32.05
89868	Sec16b	142	97	112	171	157	145	187	128
362993	Rnd1	129	122	130	119	135	146	151	159
293820	Psat1	452	458	387	436	448	509	531	561
192363	Noslap	68	72	57	132	94	91	107	97
102554500	LOC102554500	9.4	3.59	0	0	3.97	3.96	7.43	0
102554600	LOC102554600	11.99	13.98	16.31	9.97	13.16	19.25	18.34	11.05
50559	Acot1	197.71	218.51	193.72	233.02	277	231	242.9	246.35
315866	Prss35	76.62	62.97	74.02	75.48	97.54	86.88	93.66	63.97
102549615	LOC102549615	495.61	587.93	602.72	451.5	663.7	711.8	553.6	600.36
297738	Steap1	18	15	16	11	16	24	9	22
293004	Adamts17	285.51	325.22	278.34	293.01	320.1	348.4	422.8	307.64
100362967	LOC100362967	4.93	2.47	1.81	7.68	3.84	3.64	8.2	4.31
690845	Rps4y2	150	117	112	133	115	211	153	127
690566	Vom2r12	3	0	1.15	3.42	2.91	0	3.01	3.04
500585	RGD1561413	25.78	11.71	11.67	15.25	17.13	13.35	19.47	26.29
100910735	Oas1g	0	0	64.98	123.04	35.67	105.4	81.54	0
54249	Cfd	109	63	203	42	53	276	110	55
687399	LOC687399	27	29	31	32	43	32	34	32
192215	Slc9a5	88	81	67	99	117	99	91	90
691354	LOC691354	6	7	8	6	8	10	4	10
361046	Parp4	3246	2413	2408	3804	3564	3556	3552	3399.35
89807	Angpt1	121	62	78	68	93	92	108	97
100909510	Tsen34l1	218.54	211.33	219.28	251.85	253.8	383.7	238.4	192.3
367782	Tceanc	19	18	18	15	23	14	14	32
408234	Spink2	5	3.45	15	3	15	9	4.48	2.89
103692166	LOC103692166	49.8	39.52	47	54.8	66.62	68.48	30.06	61.52

362323	Sdhaf3	61	65	49	56	68	67	62	77
360621	Cdc6	35.51	26.72	47.81	19.9	46.45	34.29	29.04	44.36
311416	RGD1561442	105	92	60	81	129	97	97	78
84490	Fen1	200	197	188	166	225	205	230	231
316642	Neu4	3.21	1.11	4.4	4.26	2.61	3	5.62	4.17
365877	Hist2h2aa3	74.5	109.43	0	100.74	214.3	16.27	107.2	0
688311	Ar116	457.13	406.47	364.47	465	456.6	491	534.2	527.06
362930	Ptp4a3	497	430	424	418	547	662	441	449
29402	Unc119	220	188	208	192	259	234	224	242
306464	Cenpu	10.25	7.1	18.53	4.69	12.25	7.94	15.57	12.4
102554444	LOC102554444	13.44	4.68	11.12	1.35	10.07	6.78	6.2	13.27
287938	Ydjc	146	151	180	147	167	172	171	231
497891	Timd4	4	4	6	2	1	13	3	2
65131	Cldn5	564	585	618	488	710	684	648	636
100910288	LOC100910288	22.14	0	0	19.27	30.85	0	12.82	5.51
689619	Nrip2	294.67	234.39	194.84	245.42	289.3	271.8	282.2	307.95
289671	Fam184b	123	112	104	151	123	153	145	161
304725	LOC304725	47.18	61.12	43.56	82.36	55.15	57.38	88.79	76.89
287422	Per1	977	526	758	1002	806	1257	1331	482
293444	Abca16	26.87	16.49	19.26	13.51	14	29.9	26.03	20.52
502907	LOC502907	0	0	1.01	0	0	0	1.2	0
292759	Sars2	195	205	215	166	221	278	222	207
289230	Nhlh1	11	10	7.98	3	8	6	12	12
361676	Pnpla2	1294	551.37	1001	1027	1057	1408	1115	1023.69
363032	Rp9	75	91	65	66	85	94	76	98
289019	Cdk18	106	104	103	111	117	154	117	116
360695	Evalc	184	190	176	197	242	244	226	176
25586	Alpl	489	589	590	670	702	833	550	695
24889	Cckar	97	75	50	74	98	79	98	77
499776	Fam78a	63	76	47	78	83	103	76	52
81683	Mif	2180.8	2045.77	2073.2	2023.4	2618	2635	2172	2481.67
291652	Pcdhb7	83.87	76.73	81.28	69.02	56.81	76.3	133.6	103.43
171438	Crtac1	401	289	306	331	414	396	405	365
259247	Obp3	2.41	0	0	0	1.46	1.41	0	0
114492	Ccl28	3.1	7.12	10.36	8.38	7.62	7.04	8.33	11.5
252964	Lipogenin	24.68	14.83	6.05	16.03	17.73	20.08	19.26	16.29
293632	Ifitm10	884	717	602	642	918	851	773	847
308366	Zbtb45	252	233	222	228	275	288	278	273
63889	Ptgdr1	23.44	12.55	5.78	9.57	17.89	26.79	4.43	12.06
291441	Skal	16	12	13	6	15	16	15	10
367215	Trem3	24.04	11.39	15.11	10.97	22.58	19.82	17.04	13.85
308854	Chrd12	62	59	64	55	62	78	73	73
683603	Zscan2	54	50	43	46	59	55	51	65
309527	Ch25h	60	50	33	86	65	53	89	66
691092	Ncr3lg1	12	17	17	6	15	16	16	15
292844	Siglec10	21	3	21	2.03	17	19	12	8.08
29156	Capns1	871.6	918.41	850.62	692.11	910.6	959.2	1341	763.63
298606	Slc25a34	60	44	27	30	56	50	39	47
680130	Timp4	116	106	84	151	185	127	104	129
25559	Abcc8	232	238	175	253	295	316	214	246
316237	Mad211bp	100	109	103	108	133	126	120	122
102555635	LOC102555635	126.63	108.37	135	150.06	149.4	156.4	154.7	160.04
311169	Rtn4r12	727	753	588	760	888	892	780	814
287867	Ccdc40	17	24	25	22	26	28	23	28
654441	Cox6b2	25	14	25	24	26	17	26	36
58982	Ncan	219	230	215	293	251	289	295	307

116490	Snai1	98	68	82	62	69	90	107	104
108348108	LOC108348108	556.21	450.5	465.71	607.52	684.8	703.7	507.6	586.62
367181	Gad11	85	85	79	66	62	126	86	102
25196	Inhbb	228.73	272.98	111	279.52	276.1	304.9	249.6	234.41
308107	Kptn	68	57	60	57	59	70	79	81
362936	Zfp707	81.77	79.06	54	59.84	103.2	83.48	77.38	63.97
170671	Lhx3	11	9	11	5	10	7	10	16
308653	Nxf2	9	8	9	10	8	6	14	15
252921	Tubg1	1147.9	1190.71	1032.2	1163.7	1242	1393	1408	1375.09
103692862	LOC103692862	15	18	20	24	26	15	23	28
306617	Kbtbd11	432	683	400	490	747	656	509	484
293854	Srpk3	23	19	20	20	18	40	27	13
299903	Slc30a8	46	39	30	54	56	58	46	42
299616	Atp8b3	40	46	42	46	56	49	57	46
300950	Spsb4	402.27	394.26	300.03	353.72	435.5	460.7	418.3	419.5
102548633	LOC102548633	35.94	32.88	32.32	16.12	43.71	14.35	21.52	60.63
363823	Map6d1	71.84	40	41.1	62.42	73.52	53	53	78
684314	Glyctk	137	115	128.99	131	166	127.3	139	180
108352191	LOC108352191	35.07	39.29	54.57	33.09	60.15	54.97	36.07	42.57
310463	Plch1	18	30	25	29	41	28	29	24
499223	Trim30	34	29	41	33	38	51	41	34
362175	RGD1563222	35	46	42	29	42	47	47	46
361267	Akr1c1	28	22	14	17	11	31	26	29
102552404	LOC102552404	1	2.01	0	2	4	0	1	1
304353	Nxpe5l1	5.09	6.81	3.09	8.07	13.91	2.67	4.22	6.82
679924	LOC679924	145.04	141	89	110	133	148	151	149
308310	Tmc4	9.54	6	7	0	6	6	7	8
171571	Grip2	42	52	39	58	68	75	48	38
362113	Pthr1	158.87	162.5	142.45	201.61	229.7	247.5	156	164.66
299687	Ascl4	134.02	112.31	95.1	102.34	150.5	97.36	115.5	168.81
303179	Guk1	1351	1416	1309	1242	1618	1672	1467	1622
502125	Hist1h2ah	2.47	2.52	3.64	5.2	3.39	2.5	6.38	4.32
85266	Prss12	628	562	828	401	535	680	754	933
100364673	LOC100364673	2	1	1	1	3	0	0	3
24380	Gad2	1	3	1	0	1	3	0	2
286916	Testin	4	2	1	3	2	1	2	7
298577	Ubxn10	2	3	5	5	3	3	6	6
299255	Kif4b	6	5	1	3	4	5	5	4
299713	RGD1561102	4	3	4	4	6	6	5	1
311491	Scp2d1	1	0	1	3	0	3	2	1
315069	Fam135b	1	0	0	4	2	1	1	2
366214	Nkx2-2	0	3	1	1	1	3	1	1
683598	Umod1	4	8	7	1	3	7	6	8
686030	LOC686030	3	5	5	2	4	5	5	4
689756	Tnip3	1	1	2	1	2	2	2	0
691516	I117c	2	2	1	0	1	0	3	2
103691099	Thap8	15	16	12	7	13	21	14	12
116681	Dlgap2	5	9	4	7	11	6	6	7
290484	Dct	19	23	12	21	19	26	33	12
291437	Lipg	13	8	2	12	5	9	13	15
287647	Hoxb9	70	85	76	80	85	105	104.2	79
301073	Hhat1	669	675	606	658	739	955	749	687
288181	Gpr15	4.52	5.23	3.2	4.33	5.79	6.5	3.32	5.13
498695	Idnk	180.04	217.67	229.34	189.1	226.3	245	262	246.55
497926	Shisa6	39.71	40.7	36.13	36.2	60.21	42.39	38.72	42.1
311218	Accs	69	84	86	79	92	111	98	81

24906	LOC24906	174.08	145.81	211.12	49.56	243.9	187.6	157.5	108.52
25561	Sycp3	3.21	5.59	7.65	5.84	7.65	2.1	6.52	10.51
291683	Pkd212	15.48	16.05	4.65	11.32	15.77	5.38	15.58	20.35
108349154	LOC108349154	7.34	15	10	15.85	9.03	16.53	17.35	15
100363502	LOC100363502	359.4	477.48	475.29	308.52	430.3	580.2	0	938.07
102556096	LOC102556096	5.05	3.12	5.22	5.28	6.13	3.13	3.38	9.81
54261	Kcnn1	386	455	332	323	476	413	425	485
24213	Atp1a3	7237	10216	6681	11011	10107	12561	9975	9629
499947	Cbln4	270	240	192	299	331	290	268	315
366951	Scrt1	823	751	550	817	1017	911	852	758
499021	Pacrg	32	29	34	23	38	38	30	36
287534	Rflnb	196	213	250	186	234	234	294	255
24457	Hoxb8	215	278	241	258	300	346	293	254.99
100361902	Zfp421	12.7	10.74	7.53	19.67	15.29	10.63	18.61	16.43
314636	Tmprss9	27	30	25	21	26	25	42	31
690026	Hils1	15	7	18	9	8	14	28	9
296313	Myl9	418	344	393	352	372	661	452	329.99
84574	Tgfbli1	774	627	613	703	855	876	763	779
499747	Cysrt1	68	41	46	55	61	79	60	53
315963	RGD1310507	22	23	21	17	32	21	24	23
499794	RGD1561736	9.34	11.95	15.16	16.27	11.24	13.25	20.39	18.64
295706	Prg3	42	28	85	6	71	70	31	22
500993	RGD1563941	38	28	22	29	33	36	32	40
314313	Rnf113a2	95.02	121	85	64	111	121	107	101
100911511	LOC100911511	274.08	180.75	37.53	22.39	358.3	0	251.1	11.2
304735	Tmem177	95	90	75	80	109	87	116	98
25611	Otc	15	16	18	19	26	16	20	20
29541	Nthl1	77	70	81	63	90	93	78	90
24331	Cela1	33	32	18	43	28	49	31	44
64160	Baspl	2276	2098	2576	2245	3359	2756	2484	2496
100360514	LOC100360514	9.61	9.19	14.83	16.25	15.44	12.48	17.26	15.01
140924	Ii2rg	104	83	102	73	113	118	103	103
293046	Mesp2	22.22	21.88	26.02	20.41	18.47	23.63	37.48	29.71
102554294	LOC102554294	3.4	0	3.31	4.52	4.64	1.12	1.14	6.66
108350818	LOC108350818	3	1	0	2.63	1	3	2.01	2
100359503	LOC100359503	0	0	1.2	0	0	1.45	0	0
301348	Zap70	14	7	12	15	20	7	19	12
315318	Krt80	8	10	15	15	12	15	14	17
317470	Egfl6	3	7	10	4	2	7	17	3
102546589	LOC102546589	18.25	20.14	15.45	13.3	23.41	10.21	21.59	25.93
309665	Tmprss3	5.08	3.29	13.76	6.01	11.82	9.62	4.11	8.46
286889	Pr18a5	2.01	2.02	3	5.85	4.1	2.05	3.42	6
102551692	LOC102551692	1.27	0	1	4	0	4.8	0	2.78
288562	Tfr2	17	16	17	17	24	13	30	14
25116	Hsd11b1	73	56	74	55	80	87	73	72
312226	RGD1565367	24	23	24	34	30	40	31	26
100363484	Ddit41	41	37	38	27	47	55	23	48
54231	Car2	1420	1457	897	1319	1424	1555	1619	1564
64646	Hist3h2a	483.6	494.09	447.05	419.17	577	555.5	491.6	607.2
367620	MGC116197	169.76	174.15	171.53	159.6	228.8	187.7	201.7	198.79
24994	RT1-S2	198.69	207.14	203.94	146.6	247.9	237.4	220.4	209.76
308022	Mcoln3	6	3	4	6	5	7	9	2
310230	Slc10a5	6	6	2	5	5	6	7	5
81644	Opn1sw	3	10	4	2	6	5	5	7
29131	Cartpt	44	101	85	36	73	119	56	74
293451	Hs3st2	1479	1367	1050	1368	1629	1856	1407	1481

289780	Ddx56	355	280	255	195	337	328	234	415
406039	Olr1738	2	3.78	0	0	1	0	1	5
64539	Ndufv3	1856	2136	1767	1607	2357	2408	2087	2069
302991	Tekt4	21	12	24	28	28	36	16	23
687561	Anks4b	5	10	9	9	17	4	10	9
687031	Ajap1	32	29	32	20	30	43	34	30
100912683	LOC100912683	5.74	5.45	9.29	8.18	7.1	4.06	11.21	12.38
100912526	Rt19	22	20	23	15	22	23	27	25
301265	Pla2g7	1325.7	1256.68	882.04	1110.9	1365	1367	1527	1289.6
293660	Rhod	7.97	7.03	12.55	7.65	9.25	8	16.36	9.08
100909860	LOC100909860	84	99	101	73	98	115	107	113
311548	Tt119	40	40.05	35.01	30.06	44.97	52.05	36	43
408207	Mcpt813	21.55	6.31	16.01	2.14	17.66	12.57	19.24	6.35
108349745	LOC108349745	37.89	26.89	36.29	25.89	33.08	52.66	41.44	26.88
100362149	LOC100362149	47.65	95.3	47.65	280.57	238.3	0	238.3	95.3
304578	Alkbh2	67	83	64	57	104	77	61	87
102546698	LOC102546698	5	1	5	3	3	7	3	4
29530	Amhr2	6	3	2	3	1	4	7	5
307553	No14	13	12	6	11	13	14	16	8
315091	Spatc1	5	3	1	5	5	2	3	7
361228	Adtrp	4	3	3	4	6	2	2	7
108353203	LOC108353203	26	12	7	11	10	11	30	17
497756	Si	42	19	21	44	60	41	28	24
80841	Fabp7	290	255	321	223	255	222	401	445
58826	Prg2	209	157	405	26	337	349	162	121
102555637	LOC102555637	222.58	269.4	202.08	260.42	230.6	362.7	240.9	326.44
293498	Asphd1	307	329	272	327	395	415	370	322
308492	Wdr62	0.35	0	30.77	0	0	37.85	0	0
300117	Phf21b	25	21	24	27	35	29	26	28
117184	Ctrl	25	13	17	5	15	26	17	15
25461	Hrh2	15	13	12	20	12	28	19	14
103690174	LOC103690174	3.87	0.61	1.69	1.99	0	3.14	2.02	4.77
685668	LOC685668	1190.6	1093.51	911.8	865.63	1401	1192	767.4	1583.78
24768	Scnn1g	5	1	4	13	4	12	5	7
298607	Agmat	4	8	8	3	7	10	5	6
503009	Cdk14	114.63	231.99	142.94	134.74	252.7	238.9	136.5	131.97
311800	Tmem203	148	130	150	123	143	148	192	188
117059	Calb2	1141	1394	230	1147	958	1194	1266	1346
103692182	LOC103692182	66.49	37.21	63.55	56.66	68.43	87.2	47.24	69.86
103693254	LOC103693254	96.25	86.03	71.45	73.08	99.13	113.8	90.7	94.66
306327	Tmem38a	481	560	500	481	634	738	542	550
171408	Dcxr	151.13	119.76	72.28	142.24	136.3	157.7	143.5	154.1
685180	Stx19	4.48	6.43	6	7	7.54	4.03	6	11.57
689105	Ackr1	637	583	634	643	751	915	674	704
60575	Napsa	43	39	58	24	61	49	54	36
297814	Car8	176	166	157	161	163	211	182	249
108348124	NEWGENE_1562416	1509	1208.26	977.79	1009.1	1410	1410	1441	1478.3
100911356	LOC100911356	385.76	503.28	489.69	354.84	520.2	600.1	474.7	520.8
316353	Creg2	16	22	16	14	26	18	13	26
103693999	LOC103693999	0	0	24.75	0	0	0	30.21	0
24323	Edn1	20	56	64	50	48	72	74	38
24259	Chgb	2743	2745	2408	3077	3440	3592	3497	2870
291530	Ccdc68	65	93	65	89	85	76	108	112
501048	Poc1a	18	28	31	27	28	43	35	21
361129	Hapln4	1189	1318	858	1661	1568	1839	1466	1266
294321	Slc37a1	492	649	478	489	708	691	581	595

311123	Ttc30a1	46.26	38.33	34.98	38.68	50.77	44.85	54.82	42.9
498891	Fam69c	133	133	141	134	161	150	181	169
114203	Sh2b2	29.32	40	34.07	25	37.4	47.54	42	29.95
308318	Zfp978	42.53	25.57	26.63	28.91	36.23	42.53	29.61	42.72
103693683	LOC103693683	47	41.64	25.48	5.42	45.06	31.67	24.44	44.92
361744	Tmem252	41	26	27	23	37	52	35	19
103690612	LOC103690612	3	4	2	0	4	3	3	1
287884	Sectmlb	0	2	4	3	2	3	3	3
295980	Dcdc5	2	5	2	0	3	3	4	1
311720	Abhd16b	3	4	0	2	2	2	3	4
316218	Gucal1b	2	2	6	8	6	5	3	8
360712	Morc1	2	5	5	6	5	4	4	9
360858	Lhx4	4	1	1	3	2	4	3	2
363538	Tekt5	2	3	3	1	1	5	2	3
500576	Cplane2	2	2	2	3	2	3	2	4
688285	Tmem235	11	3	3	10	11	8	6	8
29461	Vgf	1016	1065.97	1398.1	1104.8	1405	1523	1179	1498
100360117	LOC100360117	0	22.18	47.54	35.95	44.71	41.39	43.09	0
680216	Dna.jb3	103	103	91	71	108	117	115	110
360864	RGD1309106	5.41	3	8.08	1.09	5.73	3.02	4.23	8.52
312052	Steap2	141	144	117	153	173	185	116	205
295417	Slc44a3	10.98	18.56	10.87	11.18	15.31	9.1	21.96	16.75
100362783	LOC100362783	6.59	5.59	6.59	0	6	7.59	2.59	6.79
500340	Styk1	3.34	6.6	4.22	2.95	8.26	6.3	2.62	3.77
65197	Slc2a5	60.38	53.79	54.46	62.74	73.92	69.53	76.71	63.16
117023	Kcns1	1025	1362	1128	1264	1725	1786	1239	1103
100911837	LOC100911837	17.08	104.7	112.97	41.1	171.2	30.19	65.08	71.36
282636	Impa2	314	330	266	295	379	392	391	314
299052	Aldoart2	1.03	3.09	3.1	2.06	4.13	2.11	4.12	1.01
499462	Mfsd4b	67.22	72.14	77.84	63.45	91.8	83.96	72.01	96.12
685826	Rprml	36	23	26	17	29	52	28	16
689885	Klrg2	54	82	53	90	61	110	74	97
503049	Acot5	17.16	12.59	10.45	12.3	13.58	17.01	16.97	16.81
100911790	LOC100911790	0	6	0	3.9	10	0.08	0	2.06
680020	Pcdhb8	53.44	65.61	48.91	46.1	66.85	36.72	95.43	63.5
312086	Pon3	10	7	17	19	11	20	21	13
100302372	LOC100302372	72.89	67.69	72	51.64	79.18	105	82	58.05
84416	Smpx	193	177	111	175	185	196	194	230
683506	Fam83c	4.22	6.14	5.04	4.36	7.03	9.25	5.93	2.04
24253	Cebpb	169	179	177	212	231	254	250	170
291085	Serpinb6a	7975.7	7568.7	7096.7	8783.9	9889	8813	7437	12450.84
691041	Mamstr	31	28	15	18	36	26	29	22
103694873	LOC103694873	16.09	12.01	20.14	13.26	11.81	17.63	30.46	15.66
498847	Pcdhga3	178.52	188.78	256.7	230.76	296.1	270.3	216.3	268.14
291965	Kctd19	18	14	17	12	19	22	21	13
114246	Trpv6	64	89	88	77	95	101	92	103
103692173	LOC103692173	146.61	456.79	429.21	329.38	362.8	246.9	373.3	692.39
293613	RGD1309350	6	2	4	1	1	5	7	3
295360	Kcna10	4	3	2	4	4	5	2	5
365657	Marveld2	25	27	29	36	42	26	31	45
497895	Mrnip	44	68	60	49	53	79	71	69
691083	LOC691083	10	11	9	9	10	13	16	9
102552705	Pcdhgb4	37.79	32.1	49.74	48.96	53.49	52.85	44.25	56.93
100909645	LOC100909645	112.75	81.2	65.26	96.83	103.6	107.2	119.1	108.38
79216	Gdf10	51	16	35	32	55	36	32	42
298857	Adgrf3	15.48	14.68	14.25	10.44	15.19	17.18	20.12	15.06

289904	Mss51	37	49	63	41	60	108	39	27
362035	Ndst4	621	592.01	324	817	730	641	680	849.04
301299	RGD1566137	0	10.9	2.55	1.81	3.25	1.95	9.31	4.29
64035	Pyg1	272	495	493	424	514	494	545	522
301957	Efcab1	49	88	84	80	72	81	97	121
308760	Rccd1	27	24	32	33	27	35	41	40
292264	Myct1	21	21	17	14	25	28	20	17
360555	Inca1	6.22	8.33	9.08	14.22	11.21	17.85	6.17	11.44
100360582	Nt5c	41	32	29	35	48	51	34	36
54355	Rassf5	983.16	1026.21	1010.8	1082.5	1351	1341	1277	1092.99
315663	Exph5	12	31	15	19	29	26	20	20
288358	Tssklb	9.81	5	10	5	11.91	8	7.87	9
100911625	LOC100911625	2078.8	1146.66	2131.3	1532.2	2770	2107	1686	1937.98
287644	Phosphol	610.41	600.25	581.39	611.69	822.6	845.2	691.8	607.17
311901	Lhx6	22.83	8.23	14.12	12.64	19.46	23.16	14.19	14.57
500273	LOC500273	2.13	4.48	4.31	4.38	0	5.17	5.65	8.07
405201	Olr1746	22.01	15.84	12.99	9.88	24.09	23.24	10.11	17.53
308212	Dact2	238	272	234	239	283	289	327	315
367038	Aplm2	2	4	1	2.01	5.12	2.01	2	2
498827	RGD1562080	21.02	23.04	19.01	35	33	34	27.06	27.09
361422	Cot11	1221	1188	703	1130	1166	1242	1453	1380
302990	Tpsg1	4.05	6.21	6.12	6.15	9.33	6.17	5.06	7.29
103691813	LOC103691813	9	12	18	16	28	15	15	10
100911840	LOC100911840	100.41	68.7	63.42	58.13	68.7	95.13	73.99	121.55
25341	Tnfrsf11b	30.25	36.37	41.46	40.96	40.95	46.05	49.19	48.15
360881	Dusp23	123	114	96	97	133	152	125	122
353302	Kif15	42	27	43	31	36	46	57	38
314443	Wdr25	122.82	120.03	127.87	118.19	183.7	131.9	135.6	154.12
102547160	LOC102547160	21	22	22	19	35	19	19	31
24614	Orml	7	6	6	2	9	6	8	3
252958	Ppplr32	9	11	9	13	12	12	14	14
300678	Cd3g	5	5	6	5	7	4	12	3
499298	Cabp2	7	1	10	3	6	5	7	8
24873	Vdr	10	25	12	16	20	24	19	15
102551050	LOC102551050	5	2	2.38	2	7	1.37	3.31	2.41
309888	Sim1	6.4	5.42	10.84	6.05	12.25	7.22	11.46	4.62
24249	S100g	15	11	11	9	7	12	21	17
498711	LOC498711	0	0.99	4	0.53	2.88	1	0.97	1.99
289596	Corin	22	10	19	20	18	31	22	17
311693	Cdh26	34	24	17	21	35	28	33	23
24209	Ascl2	8	14	17	11	17	22	7	16
310900	Mttp	3	10	6	6	4	9	8	10
690810	Adat1	72	56	57	69	78	78	88	71
680203	Pcdhb20	65.61	54.27	59.84	50.88	96.08	78.47	58.65	52.97
103694864	LOC103694864	186.01	194.28	196.34	177.74	210.8	219.1	281.1	225.28
117022	I1lr2	13	5	9	2	12	11	8	5
316017	Als2c1	81	79.28	88.97	81.01	130.2	115	109	55.85
364786	Itga8	114	95	131	106	132	178	132	112
361824	Chchd10	2032.2	2056.46	1708.2	1711	2157	2654	2007	2510.17
296118	Fam227b	25.45	30.24	18.36	21.33	28.11	27.55	34.65	28.19
680322	LOC680322	1.51	0	2.64	4.17	6.57	0.32	0	3.45
102551694	Klln	11	8	11	7	12	11	11	12
299757	Nts	9	11	8	9	11	17	8	10
367699	Sowahd	11	9	10	7	12	11	8	15
290317	Sox7	30.15	22.77	24.21	30.09	32.15	43.12	37.88	20.17
102549404	LOC102549404	219	224	197	250	328	283	273	223

681048	Grxcr2	187	197	268	82	260	282	96	275
84046	Sox11	50	40	52	63	77	68	47	63
311168	Slc43a1	42	26	33	22	48	45	32	28
687071	Etnppl	26.7	8.14	13.49	12.14	21.59	24.07	17.79	11.77
108349760	LOC108349760	20.53	25	13	31	20.37	36	29	26
115771	Usp2	201	153	154	172	254	274	177	141
108348159	LOC108348159	15.41	10.71	8.78	8.83	16.02	12.87	12.79	12.73
54300	Slc12a3	167.4	144.8	135.83	161.38	190	213.7	199	156
294228	RT1-S3	845.04	864.23	728.98	395.1	939.5	1288	557	744.33
60417	Ecell	40.77	86.04	99.21	50.34	100.2	111	82.06	51.02
362447	Clec2g	18	19	10	14.7	25.01	15.88	21.99	14
691066	Tm4sf20	14	8.89	15.55	7.56	13	13	15.55	15.77
313575	Heyl	582	510	437	612	694	584	719	671
102547011	LOC102547011	1.01	0	2.04	1.01	1.01	1.01	0	3.04
313729	Errfil	620.99	525.43	468.58	832.42	661.4	821.7	992.5	574.88
367061	Olr1257	3.01	0	0	1	2	1	2	0
24473	Htr1a	18	22	22	19	26	14	29	32
306760	Dok3	54	38	51	35	71	52	42	57
25264	Nmbr	10.13	6.06	10.04	6.05	11	10.23	9.03	10
295144	Rxfp1	33	35	21	24	25	27	44	45
307950	Map3k21	30.27	24.63	17.16	27.34	27.05	38.89	37.4	20.7
306942	Scgn	43	44	24	42	52	33	56	50
408222	Senp18	0	0	0	3.22	0	0	0	4.02
25698	Ass1	897	897	650	1161	814	1222	731	1735
100125372	Ces1f	6	2	4	6	7	6	3	6.48
367747	Nudt10	49.78	44.16	41.44	43.97	75.61	47.62	49.18	51.61
314148	Clec14a	142	99	108	96	155	145	144	112
108350519	LOC108350519	8	8	12	12	12	7	12	19
362701	Capn13	7	1	6	6	3	7	6	9
100911130	LOC100911130	0	61.11	20.37	0	20.37	40.74	20.37	20.37
100911740	Mrln	1	4	2	1	4	5	0	1
102549226	LOC102549226	2	0	0	2	2	0	2	1
102553691	LOC102553691	0	2	1	1	1	1	0	3
102554323	LOC102554323	12	12	6	6	10	8	12	15
102555078	LOC102555078	3	1	2	2	4	1	2	3
108348109	NEWGENE_1310561	0	48.73	48.73	97.46	97.46	0	48.73	97.46
113936	Cpb2	1	0	1	2	3	0	2	0
24559	Mos	3	0	3	6	4	4	4	3
25154	Pgr	25	28	16	39	51	38	18	28
288175	Tmem30c	0	1	1	2	0	0	4	1
289399	Inava	2	0	2	4	3	5	0	2
292310	Gpr31	1	2	6	3	5	1	3	6
293878	Olr1768	2	0	1	1	2	2	1	0
296352	Wfdc5	3	0	0	1	4	0	0	1
297805	Sdr16c5	3	6	6	1	7	4	7	2
301291	I117f	1	3	0	0	2	0	0	3
303287	Fbxo39	2	1	5	4	2	3	4	6
306608	Proz	1	2	0	1	1	1	1	2
309142	Tesmin	0	2	2	0	1	1	1	2
309641	Tcp11	3	2	4	3	5	5	2	3
311793	Noxa1	2	4	0	2	2	3	5	0
312745	Clec2h	0	1	3	0	2	1	2	0
313421	C8b	1	2	0	1	3	1	1	0
365228	Ffar3	2	2	0	0	1	2	1	1
494233	Vomlr88	0	1	2	1	4	0	1	0
497099	Xkr9	0	1	0	3	2	2	0	1

497990	Ar15c	8	5	12	7	9	14	7	10
498933	LOC498933	1	3	4	0	1	0	1	8
500873	Fam83a	2	0	1	1	1	0	3	1
502308	Lypd5	1	0	1	2	2	2	1	0
502992	Ldlrad2	0	2	4	2	1	2	4	3
63835	Ctla4	2	1	0	1	2	0	3	0
680045	LOC680045	2	0	0	2	1	2	1	1
683753	Prr32	10	4	9	5	11	10	7	7
685900	Enthd1	2	3	1	2	3	3	2	2
686013	LOC686013	25	17	27	19	30	30	21	29
688340	LOC688340	5	2	3	2	2	2	6	5
689230	LOC689230	0	3	1	0	1	4	0	0
81506	Bst1	36	51	49	36	66	51	43	55
103694000	NEWGENE 1582994	261.15	318.36	366.99	251.03	305.8	389.8	294.8	507
89808	Cx3c11	113	103	134	128	129	129	186	154
500578	Tmem51	104	113	111	138	135	134	163	151
363909	Caln1	47	71	54	90	79	78	106	65
286904	Cyp4f4	21.62	27.61	28.73	37.26	38.59	33	24.23	48.43
64865	Pcdh8	51	71	70	58	83	80	65	85
108353290	LOC108353290	32.08	32	35.48	34.53	49.38	35.22	35.67	47.63
102553962	LOC102553962	46.76	57.79	54.85	51.04	65.98	65.53	68.38	63.68
25702	Pnlip	112	56	83	129	105	116	140	115
103692534	LOC103692534	2.5	0	1.09	2.42	3.52	1.76	0	2.25
64037	Slc22a4	13	14.09	21	15.11	22.5	18.12	15.09	23.48
102553138	LOC102553138	1.65	4.86	5.13	1.67	0	3.31	1.7	11.67
292450	Raet1e	3	1.07	5.02	2	0	2.16	5.1	6.64
289280	Efcab2	31.04	28.22	38.37	34.36	38.4	44.45	42.08	40.51
499349	Fgfbp3	107	148	80	91	125	147	120	142
293625	Pidd1	38.84	3.81	21.92	27.39	31.22	22.15	17.77	44.15
290571	Zfp488	23.01	36.11	17.48	34.87	21.73	40.13	45.61	32.3
100360868	H3f3c	292.8	12.14	48.95	569.6	17.34	304.9	36.43	799.46
362712	Drc1	35	51	42	49	60	65	53	44
100912563	Insm1	16.84	17.72	15.6	20.69	20.87	12.5	25	30.52
313495	Car9	3.01	9.03	9.92	7.9	7.83	5.88	11.67	12.09
102554130	LOC102554130	9	7	6.41	9	25.02	3	9	2.41
102548111	LOC102548111	5.46	2.15	7.78	1.05	5.44	6.45	5.45	3.3
108348155	LOC108348155	39.43	35.16	38.05	47.31	29.88	61.64	62.22	47.1
100909582	LOC100909582	15.47	15.85	19.32	31.44	34.25	23.47	25.98	19.4
100910905	LOC100910905	23	24	16	15	25	18	28	27
102552360	LOC102552360	11	13	6	5	18	16	5	5
680344	Fam189a1	66	51	49	71	106	61	68	63
309174	Tigd3	18.19	18.77	18.46	15.09	26.67	25.93	14.44	21.62
65146	Pirb	15.18	10.81	9.7	1.08	11.81	8.01	14.47	11.95
29629	Gria4	460.58	305	241.96	362.57	465.7	399.6	419.6	438.15
29259	Sell	31	19	44	3	41	33	35	13
103693605	LOC103693605	66	45	33	42	65	50	52	67
362584	Col9a2	205	204	240	246	217	456	247	206
685267	LOC685267	6.19	13.36	4.07	5.04	6.1	8.44	7.13	14.39
108353429	LOC108353429	0	3	3.32	1.5	0	3.8	2.39	3.65
24599	Nos2	0	3	4.75	2.58	0	0	9	4
362122	Morn5	7.1	12.19	11.12	9.11	17.27	7.12	11.16	14.19
114508	Fbp2	44	24	38	33	40	44	43	48
171044	Sstr3	6	3	11	7	12	4	13	5
66025	Lpar3	275	229	177	163.01	200.5	229.6	266	367.04
25493	Nfkb1a	583	467	486	807	629	812	938	572.99
691418	LOC691418	34.13	26.06	25	18	23.06	38.02	32	36.95

287819	Ush1g	36	31	27	27	59	42	27	24.56
310688	Sh2d2a	12	12	10	12	12	16	16	14
314438	Degs2	46	58	47	29	59	64	55	49
102550241	LOC102550241	10.28	15.4	11.36	16.07	21.09	14.15	15.48	16.26
500120	Stk31	9	16	10	7	13	7	21	12
680191	LOC680191	2.06	0.82	1.09	1.06	2.11	1.06	1.07	2.11
366455	Mpl	37.74	31.37	39.69	43.53	51.87	34.99	42.51	62.99
102547047	LOC102547047	19	16	14.01	17.22	17	23.8	23.84	19
171148	Slc6a5	6	4	2	7	6	4	7	7
24645	Pgm1	1103	1043	919	982	1299	1491	1234	1088
300656	Trim29	5	4	6	4	3	7	7	7
302554	Glod5	7	5	6	1	8	8	5	3
499958	Linc00176	8	11	7	12	10	7	14	17
684771	Cdca5	23	17	29	26	30	33	29	28
690657	Tmem71	5	7	4	3	5	8	8	3
301965	Tert	20	15	21	16	22	18	25	26
296566	Clic3	128	120	136	101	147	134	161	171
100911237	LOC100911237	11.1	16.73	13	15.78	20.33	13.19	23.53	14.53
117260	Nudt1	57	30	39	40	57	51	52	50
100910848	LOC100910848	18.38	11.41	14.14	16.44	25.97	9.21	16.46	24.74
299142	Syt16	78.76	73.73	74.02	67.37	101.6	72.12	115.9	82.23
300242	Krt7	190	164	172	114	195	214	191	210
29182	Cdh22	30	36	18	22	42.21	34	21	37
295117	Otol1	4	10	6	10	6	15	1	16
300461	Dpy1912	7	5	1	2	5	6	5	3
309082	Clrn3	5	2	5	3	5	5	5	4
54225	Apob	6	3	5	1	5	5	4	5
690871	Ndufaf8	129	127	118	120	142	166	155	163
307562	Dsg2	21	13	18	19	22	18	35	15
295934	Chst1	137	122	133	145	210	179	140	152
64041	Birc5	34	33	39	17	40	47	29	40
102556485	LOC102556485	22.16	17.9	21.3	13.33	21.62	30.01	19.91	23.19
361812	Pnpla1	39	42	23	41	43	40	60	41
102556043	LOC102556043	3.15	0	0	2.52	0.1	0	2.58	4.52
361341	Ccbe1	26	35	35	30	44	62	26	28
685732	Hoxa6	14.65	5.24	3.44	0	2.05	7.51	8.28	11.8
303414	Epx	94	71	197	11	164	206	49	55
102551194	LOC102551194	85.44	63.81	53.62	48.17	81.21	106.5	84.95	46.39
102552367	LOC102552367	3.66	0	20	3.15	8.97	16.47	8.65	0
79146	Begain	111	96	133	98	161	142	140	114
499069	Nlrp4	1	1.99	5.02	2	3	3.25	4.48	2
312897	Msc	101	78	75	73	126	96	99	95
24332	Cela2a	4	5	5	8	5	7	9	7
293711	Hrasls5	1	4	4	2	4	2	5	3
303395	RGD1310166	2	2	4	3	3	4	2	5
317379	Magix	15	12	12	16	16	23	14	17
362141	Slc38a11	2	1	3	5	1	3	8	2
499565	LOC499565	5	0	4	2	4	2	4	4
690020	LOC690020	5	3	3	0	5	2	4	3
297025	Kel	20	16	37	4	35	30	17	16
304071	Sim2	8	4	11	10	6	20	8	8
362202	Epb42	35.6	29.24	45.09	16.08	45.66	46.01	37.05	31.69
311443	Lrrn4	3.32	3.43	5.54	4.51	10.16	1.12	7.89	2.22
114856	Duspl	462	521	344	878	748	810	744	506
691141	LOC691141	24	18	23	8	20	24	25	24
499967	Cct8l1	0	7	8.04	12.48	7	12	16.06	0

100910668	LOC100910668	9.93	3.93	1.65	5.68	10	8	4	5
100365043	LOC100365043	11.88	13.54	5.24	4.55	16.86	11.78	8.14	8.09
503487	Zfp92	14	17	7	13	17	21	12	15
315907	Nrk	8	2	4	8	6	8	5	9.04
170496	Lcn2	186	150	220	69	230	187	242	138
252922	Pzp	37	18	26	28	32	32	40	35
680531	Sapcd2	23	24	38.34	15	42	29	34.01	23
100134871	LOC100134871	1910	930.06	2203.8	262.68	2553	1795	805.3	1616.74
246233	Macrodl	207	169	145	153	223	261	164	212
680077	LOC680077	4.09	8.71	9.98	6.21	7.14	10.77	9.25	9.84
24953	Gcgr	20	30	23	21	21	33	26	40
690606	Manscl	54	59	54	68	78	88	76	58
100911622	LOC100911622	0	9.4	9.92	17.44	27.62	9.03	0	10.28
89813	Pdk4	121	92	88	128	130	189	124	105
684623	Gpr52	20	23	19	28	22	27	37	29
102553671	LOC102553671	12	11	19	12	16	15	22	16
25410	Cebpe	7	4	5	2	8	4	8	3
304666	Klf1	54	25	44	21	51	49	40	44
364403	Blk	26.39	11.3	28.18	4.04	32.87	28.08	14.65	13.78
102548734	LOC102548734	2.94	1.37	0	1.36	7.25	0	0	0
553129	Pcdhgal	70.01	45.34	49.88	79.31	70.15	52.09	122.3	68.2
501794	Vom2r60	29.57	12.75	20.05	25.05	39.95	19.55	22.98	29.33
108353091	LOC108353091	3.02	7.46	5	2.47	5.06	7.11	6.62	4.17
361004	Zswim8	743.89	1044.26	847.9	1007	1348	1153	1079	1080.99
108351936	LOC108351936	4.29	3.89	0.99	1.23	3.3	0.04	7.88	2.09
296981	Atp6v0a4	75.63	90.89	98.3	93.4	95.71	126.3	134	102.46
102556157	LOC102556157	11.82	0	46.1	24.41	0	44.09	22.03	39.28
303744	Myadml2	63.71	57.51	44.78	76.26	82.55	81.84	77.55	68.34
266776	Cst12	69	60	51	69	68	73	86	92
289586	Spata18	16	15	18	15	15	25	21	21
296184	Ankef1	15	9	14	8	10	26	12	11
404894	Olr34	11	8	10	17	17	19	13	10
50872	Hpcal4	58	53	62	46	41	74	80	86
286938	Gimap4	51	27	24	32	43	54	31	44
300247	Krt75	52.88	41	36.7	52.97	59.79	65.57	55.6	54.7
25756	Cpt1b	69	68	63	64	80	111	75	73
405199	Olr1748	58.48	26.15	21.53	26.43	50.44	51.9	33.48	34.45
89805	Angpt2	183	144	108	120	152	189	197	175
100360244	LOC100360244	9.2	11.34	5.17	8.13	7.34	11.31	11.39	13.44
362998	Dnajc22	57	50	39	40	61	57	63	58
103692939	LOC103692939	10.2	0	13.88	14.18	0	21.22	11.36	16.6
289257	Sptal	61.71	51.03	95.83	37.85	136.5	77.64	57.34	45.32
102554746	LOC102554746	2	1	3	1	3	0	6	0
24278	Crygd	4	0	2	1	5	1	1	2
24717	Rho	12	14	8	8	8	16	15	15
260319	Brs3	2	4	1	0	3	0	2	4
287106	Prss30	3	0	3	1	0	2	3	4
298975	Scin	4	3	5	2	5	7	3	3
302576	LOC302576	1	2	2	2	3	2	3	1
361503	Eps8l1	10	11	6	15	15	13	9	17
498693	Spata31d1	3	3	4	4	3	7	5	3
502733	Ankrd7	3	1	3	0	2	1	2	4
406168	Fkbp1	237	282	212	179	294	332	255	289
500200	Atoh8	45	21	23	16	31	49	27	28
65162	Dio2	58.17	63.95	86.04	72.39	69.17	80.56	145.2	65.79
691447	Ppplr3e	49	55	53	56	80	62	70	62

287634	Eme1	5.15	5.14	6.17	4.1	8.15	3.05	11.25	4
103689947	LOC103689947	253	30.24	160	133.62	248	194	74.24	226
368057	368057	5	0	5.45	0	0	4	3.45	6
292760	Rin1	25.01	21.83	31.12	24.38	38.4	25.39	31.17	36.78
312312	Gimap1	22	25	14	12	28	28	14	24
314847	Best3	22.36	23.06	16.57	27.8	33.25	26.88	25.05	30.45
192264	Ear11	9.1	0	82.45	2.78	39.54	58.02	23.96	0
302995	Haghl	117.92	112	110	99.97	174	127	126	140
307796	Plekhg4	33	38	42	25	38	46	44	50
498400	Hormad2	22	10	25	12	22	25	26	16
314396	Slc24a4	44.25	37.25	21.88	43.51	59.24	42.62	49.57	38.18
102548396	LOC102548396	1.2	0	6.02	0	4.72	1	3.6	0
687992	Saal1	2	1	2	2	0	1	3.04	5
100363095	Henmt1	32	19	14	31	28	29	37	30
83686	Cngbl	13	15	15	5	20	9	18	15.01
286925	Cryba2	33	36	24	20	32	29	53	32
498982	RGD1560020_prec	33	21	29	6	35	45	21	14
408233	Spink4	17	14	9	25	21	18	21	24
287609	Tspoap1	93.38	102.22	63.32	141.94	145.2	135.4	107.4	130.47
680115	Hacd1	76	53	48	48	63	87	67	74
100911766	LOC100911766	190.37	126.46	92.16	113.35	145.8	156.2	139.5	234.19
363931	Gtpbp6	191.69	223.94	184.82	72.57	237.1	209.8	222.9	200.82
305392	Ncapg	45.18	40.38	54.01	23.82	57.62	41.64	60.49	51.63
102556098	LOC102556098	55.15	30.23	62.56	103.89	65.32	109.9	74.13	76.41
192259	P1b1	8	2	3	4	2	5	10	5
25241	Aqp5	1	5	6	5	1	7	9	5
297932	Atp6v0d2	2	2	10	3	3	13	3	3
294557	Sh3rf3	66.06	64.13	41.97	86.57	84.2	90.85	78.78	81.11
83567	Mchr1	36	22	32	39	47	36	50	34
311832	Gfilb	14.43	9.95	9.5	3.79	21.69	8.58	12.96	5.55
94272	Clic5	167.34	156.58	162.5	179.21	210.6	302.4	199	150.24
25626	Krt8	87	76	83.99	78	95	102	104	120
108352182	LOC108352182	9	12	8	15	14	17	14	12
29517	Sgk1	815	686	696	959	866	1227	1345	652
498190	Ccdc60	6	10	7	4	9	6	11	9
192207	Ubxn11	55	44	59	44	63	64	69	66
494500	Gsta3	28.03	28.55	19.68	21.21	32.43	33.31	21.99	38.71
29168	Ubd	28	18	11	17	27	23	22	24
103689978	LOC103689978	3.19	6.41	1.51	15.12	13.48	0.8	6.68	13.07
679552	Pjvk	7	10.07	7.87	6.24	12.31	12	6.15	10
300682	Tmprss13	18.21	11.18	8.24	10	4.06	6.19	27.96	23.63
299106	Rpl101	29	45	28	45	21	58	51	61
314640	Tjp3	16.01	14.03	22.01	15	21.05	25.11	23	18
317674	Fzd5	9	9	7	15	20	14	5	13
497888	Fam71b	6	6	2	6	4	6	9	7
171144	Slco4a1	14	15	14	17	19	23	21	15
60399	Slpr5	8	8	9	5	9	11	10	9
81819	Pax8	2	2	4	2	5	4	3	1
103690014	LOC103690014	0	0	65.93	0	22.64	0	0	63.09
24851	Tpml	4786	4802	4918	4723	6558	8645	5142	4670
690880	Fam131c	362	357	287	270	482	348	489	341
25551	Slc2a3	186.14	58.46	43.3	366.07	184.9	232	214.2	220.6
300219	Troap	18	12	25	11	20	30	19	17
314321	Zc2hc1c	10	10	5	8	8	19	8	8
365552	Rsph14	34.19	22.58	31.02	28.62	38.67	44.59	35.51	33.02
689656	Aunip	6	6	8	3	10	8	6	6

59329	Sik1	67	45	61	162	133	83	147	74
102553814	LOC102553814	45.05	26.25	19.98	37.18	39.59	50.81	34.82	42.42
289797	Abca13	12	13	17	17	19	14	13	31
50693	Itih3	12	20	13	14	17	25	17	18
29733	Slpr1	290.96	272.17	205.98	269.8	349.3	362.5	363.6	281.28
365881	Ankrd35	102	119	84	100	133	143	151	102
300653	Tecta	20	17	14	11	26	15	20	20
116669	Vwf	603	595	550	497	638	971	711	613
313507	Tal1	71	63	84	43	103	107	84	47
24312	Dhfr	147	204	157	182	179	215	269	239
363251	Nhej1	50	39	53	50	55	57	71	68
367152	Foxl2	2	4	3	4	3	4	1	9
499570	Fabp12	4	3	2	4	1	8	5	3
293061	Saxo2	7	13	2	4	7	11	9	7
103691557	Rfxap11	41.06	164.25	164.25	164.25	246.4	82.13	123.2	246.37
502300	Rnf225	5.67	15.79	6.99	7.56	20.79	4.78	15.83	5.7
100361292	Fam205a	1	6.78	4	1.21	4.47	3	7.27	2.26
252854	Slc5a11	28	24	14	18	23	30	27	30
363948	Cdh20	98.68	107.48	79.68	101.84	137	137	118.3	115.53
108353241	LOC108353241	1	0	1	0	0	0	0	2.62
689679	LOC689679	122.71	132.92	47.5	127.66	173.4	118.4	138.3	134.33
498753	Hist1h2af	2.51	0.42	2.58	0	5	1.04	0	1.18
304650	Misp3	46	34	28	27	44	49	37	47
361187	Asb5	13	12	12	8	13	24	13	9
102550986	LOC102550986	53.71	43.42	35.5	39.54	68.96	48.52	67.97	40.46
309178	Batf2	3	7	3	3	4	6	5	6
683410	Ankrd33	9	6	10	7	8	11	12	11
102552988	LOC102552988	11.19	6.93	1	3.69	10	13.83	5.08	1.04
24693	Ptgs1	106	93	128	106.06	113.6	171	176	108.02
313512	Dmbx1	1.33	2.32	6.46	4.54	7.24	5.9	0.99	5.13
102549812	LOC102549812	33	24.01	43.26	41.58	47.55	38.54	52.9	47.65
102548568	LOC102548568	3	7	6	3	5	8	4	8
171011	Kcng3	15	10	19	13	22	8	19	26
287821	Otop3	3	6	2	8	5	10	5	5
288752	B3gnt4	2	8	4	5	10	7	2	6
313471	Dmrta2	7	1	8	3	4	5	11	5
500017	Asb4	4	4	2	9	7	10	2	6
100363350	Nxpe2	30.19	30.5	32	29.27	30.79	51.56	38.41	39.72
25628	Nkx2-1	15.15	10.21	8.63	15.59	28.61	10.53	9.17	16.93
114091	Fcnb	141	118	211	20	225	206	132	82
108351836	LOC108351836	0	3.72	0	0	0	0	0	4.9
360900	Traf3ip3	21.7	14.18	14.08	16.21	23.29	23.98	20.26	19.64
108348059	LOC108348059	20.23	18.56	18.92	8.05	11.49	39.47	16.17	19.5
25332	Mgmt	134	124	100	206	261	169	129	184
309104	Ifitm6	64	52	74.9	26	64.94	63.97	91.89	65
252833	Gdf7	6.05	2.03	3.09	6.07	4.27	8.06	6.19	4.2
308800	Tyr	0	1.09	1.16	1.05	2.2	1.13	0	1.02
307715	Irx6	3	2	0	1	2.91	1	0	4
103689949	LOC103689949	5.09	10.18	6.36	6.36	6.36	10.18	11.46	8.91
289032	Chit1	29.83	35.4	30.74	20.93	53.04	31.31	39.37	30.49
24294	Cyp11b2	18.31	20.08	27.77	40.58	44.4	35.95	30.97	29.51
300474	Adamts15	309.04	291.08	274.17	296.07	335.2	328	483.2	397.94
25225	Ubal1	0.74	1.47	2.23	2.19	2.31	5	0.73	0.71
103689971	LOC103689971	0	0	0	7.04	0	0	9.3	0
25134	Gnmt	29.1	14.65	12.24	31	38	26	21	30
140942	Ddit4	1727	927	1026	1254	1324	1872	1952	1382

29447	Msra	135	222	155	167	224	226	238	211
287699	Krt13	13	12	6	6	7	13	14	15
360465	Ercc411	11.64	16.94	34.06	6.61	25.34	0	36.49	30.05
500590	Tnfrsf9	11	14	13	14	20	11	18	20
362510	Melk	6	16	26	7	27	20	12	14
102551882	LOC102551882	5.21	2.63	10.97	8.86	7.36	4.54	12.1	12.73
679581	LOC679581	1.37	0	1.39	1.39	2.78	1.34	1.39	0
113910	Prnd	30	17	17	27	28	20	53	20
501138	Ankar	34	25.22	25.52	31.71	34.5	35.46	40.07	44.83
364814	Psmas8	30.2	23.77	36.2	19.48	70.26	13.08	26.17	36.32
102548076	LOC102548076	66.97	53.51	36.63	22.08	75.95	30.28	57.96	74.18
688845	Zbtb32	4.03	3	5	3	7.02	2	4	6.98
100910134	LOC100910134	11.29	7.53	4.1	14.31	17.21	10.37	9.89	12.08
304325	Tmem184a	2.03	2	1	1	3.03	1	1	3
290623	Cyp4f18	21.14	16.16	24.77	2.01	21.04	31.1	20.07	13.13
287638	Dlx3	33	34.04	25	24.32	35	38	41	41
367455	Lrg1	191	166	190	100	270	219	208	165
362619	Smpd13b	57.66	50.49	46.36	31.65	64.98	69.58	83.62	30.02
364073	Ddx3y	52.28	40.19	48.22	61.3	50.38	56.26	87.37	75.3
100189544	Nrn11	8	16	11	13	16	22	13	13
103690326	LOC103690326	0	4	2	0	0	5	1	2
103691555	LOC103691555	0	0	1	2	1	1	1	1
103694084	LOC103694084	6	7	11	12	13	11	12	12
103694166	LOC103694166	0	3	0	0	0	1	1	2
108348813	LOC108348813	1	1	0	1	4	0	0	0
116544	Pou2f3	2	0	1	6	1	6	3	2
171449	Zgl6	1	1	1	0	2	2	0	0
24411	Grin2c	1	5	5	4	9	5	3	3
25685	Igfbp1	2	1	0	0	3	0	1	0
266612	Slc4a9	4	4	5	5	4	4	4	12
287678	Krt23	0	1	0	2	0	2	2	0
289101	Shcbp11	0	0	1	2	0	1	0	3
291759	Dsc1	4	4	2	2	7	2	2	5
291819	Car7	2	1	1	2	2	1	4	1
29238	Drd3	1	2	2	1	0	3	4	1
293357	Olr210	1	0	1	1	0	1	2	1
293637	Phlda2	2	1	0	0	1	0	2	1
294559	Oit3	0	0	3	0	1	0	2	1
294807	Rxfp3	0	2	0	1	1	1	1	1
296601	Mymk	1	3	1	1	2	1	3	2
301100	Ooep	0	0	4	2	2	1	1	4
310693	Cd51	5	4	14	1	12	10	7	3
311470	Sel112	2	1	0	0	2	0	1	1
315239	Muc1911	1	1	2	2	1	3	2	2
315438	Deup1	1	0	2	0	0	3	1	0
316124	LOC316124	0	1	0	2	0	3	1	0
338418	Scgb3a1	2	0	1	0	2	1	1	0
405014	Olr86	4	3	4	1	3	4	3	6
494247	Vomlr86	0	0.5	0	1	0	0	1	1
497197	Plcz1	0	1	2	0	1	1	0	2
499579	Dnajc5b	5	1	2	4	4	3	6	3
499640	Wdr49	0	0	1	2	0	0	3	1
500927	Olr1877	1	2	3	0	2	0	0	6
502372	Syce1	3	1	0	2	2	3	3	0
64546	Il12b	2	1	0	0	0	0	1	3
679584	Ccdc27	0	1	1	1	2	0	1	1

679979	Cyp2ab1	1	1	1	0	0	2	1	1
681145	I119	2	0	0	1	0	1	2	1
685402	Gal3st2	0	0	0	3	0	0	2	2
691496	Hist3h3	1	2	2	1	1	0	2	5
103692171	LOC103692171	227.54	75.85	113.77	151.69	227.5	341.3	113.8	75.85
293302	Olr155	3	3	4	5	8	5	3	4.01
298591	Igsf21	95	99	79	88	135	130	98	119
100362040	LOC100362040	2.15	2.14	2.18	0	1.08	1.08	3.27	3.21
311358	Serinc4	9.35	4.85	15.25	14.98	15.67	6.24	21.48	15.95
103692612	LOC103692612	1.04	1.05	2.12	2.07	1.06	1.05	2.11	4.17
501061	Tmie	51	73	39	42	80	85	55	54
691317	Draxin	13.53	13.68	17.14	16.32	26.2	9.88	21.38	23.65
499985	RGD1565355	14.13	19.14	31.55	3.73	28.79	32.51	30.35	0
24388	Gfi1	12.22	20.95	23.9	4.62	28.5	20.05	20.12	13.81
192109	Pou3f3	7.12	1.45	1.18	1.46	3.41	4.35	2.86	4.37
24582	Myh11	633	439	542	552.99	707	1130	617	444
100911413	LOC100911413	142.67	46.92	78.88	34.96	106	135	102.1	62.9
306285	Syt15	127	117	134	155	172	181	165	195
29413	Adra1d	24	25	11	8	30	20	30	11
64558	Fzd4	307.13	265.31	241.34	274.97	373.5	446.1	409.1	229.22
680025	Nxf5	4.32	1.1	3.43	1.12	2.23	3.32	5.59	2.21
302388	RGD1560099	4.08	0	0	1.02	2.03	1.01	2.04	1.75
295445	Dkk2	10	16	13	17	23	22	15	15
304509	Cfap73	1.01	1.02	1.02	3.08	3.09	1.04	2.04	2.04
316432	Ica11	90	66	52	69	92	98	99	82
102549465	LOC102549465	4.68	0	1.98	6.58	2.01	9.24	0.87	5.63
404644	Mrgprb5	4.71	11.68	5.69	8.68	8.11	3.5	12.01	17.62
100913063	Cd79a	40.09	33.58	77.34	19	64.13	87.85	43.18	32.92
362848	Pram1	36.06	36	56.08	12	53.06	59.05	49	27
65130	Cldn3	19	36.94	43	20.96	50	37	22.96	51
297962	Srsf12	49	66	50	54	91	72	53	78
293522	Ahsp	71	46	118	19	151	80	60	50
286901	Brinp3	79	73	62	75	91	95	128	74
502584	Nudt17	18	11	18	23	27	18	22	27
63887	Nmu	12	14	19	19	19	19	15	33
102556347	LOC102556347	404.19	384.1	269.61	429.88	564.8	462.7	455.7	516.33
314772	Epyc	84	95	98	8	82	86.02	95	120.11
102552378	LOC102552378	0	1	1	0	0	2.69	0	0
298698	Angpt16	16.58	17.96	16.72	17.83	30.78	17.85	28.76	15.54
288135	Retnlg	69	77	97	6	135	94	50	56
100361920	LOC100361920	1.04	2.08	0	0	1.06	1.06	1.04	1.04
293990	Wnt8b	5.29	9.49	4.68	6.51	14.88	4.09	6.93	9.06
108351878	LOC108351878	80.75	72.03	36.34	14.56	74.45	58.4	51.69	89.74
306283	Anxa8	438	326	275	474	461	432	365	780
296197	Dstn11	36.63	35.01	34.9	6.74	27.12	35.14	28.39	62
500944	Kdm4d12	8.72	8.36	8.81	9.08	11.54	10.75	10.44	14.45
100911426	LOC100911426	1.03	0	0	0	0	0.39	0	1
170568	Dmbt1	174.33	53.08	99.12	44.04	108.1	201	105.9	85.1
414787	RT1-M10-1	12.61	7	6	12.01	12.35	12	11.01	15.42
103693118	LOC103693118	5	3	7.01	5	4	6.01	8	9
100912498	LOC100912498	257.34	184.32	199.27	287.16	321.3	382	316.9	232.61
102550306	LOC102550306	12	2	5	1	13	5	3	6
25421	Crybb1	19	23	17	21	27	25	27	29
290409	Olfm4	9	15	15	1	10	14	16	14
365844	Nup2101	16	10	22	12	19	23	22	17
103690486	LOC103690486	2.02	4.21	8.59	8.49	11.41	8.52	5.99	5.55

498194	Mn1	12	11.01	14.02	9.04	17.25	23.94	13	8.01
366998	Nfe2	37	23	35	13	47	36	34	29
108348160	NEWGENE 2134	19	14	10.15	17.5	25	17.5	17.5	22
102553014	LOC102553014	3.26	0	0	2.87	3.84	1.3	1.62	1.53
299567	Pglyrp2	6.08	1	3	1	3	4.05	2.94	5
24438	Hist1h1t	4	4	5	4	6	4	6	7
102552387	LOC102552387	0	2.27	2.8	2.61	4.3	2.9	0.12	3.08
499027	RGD1560718	0.55	4.54	2.06	1.06	0	1.63	5.62	3.87
366069	Myo3b	4	8	6	13	9	9	12	12
690076	Cd300e	8	9	9	6	15	9	9	10.38
360457	Vegfd	19.91	11.64	30.88	10.43	33.31	25.12	15.05	25.3
25722	Scn4a	110.5	94.45	110.65	109.11	175.5	154.4	108.5	137.51
114215	Insl3	1	5	3	5	3	7	6	3
25163	Cdkn2a	26	22	32	26	40	45	29	30
108348153	LOC108348153	110.95	79.26	45.15	98.79	109.4	91.39	124.4	128.84
500300	Depp1	120	142	86	226	142	267	235	136
361619	Hbb-b1	498.64	233.03	516.99	81.45	707.1	462	226.4	413.12
288275	Hunk	5	5	2	13	8	7	8	11
295160	Mnd1	5	5	10	5	7	11	7	9
308163	Ccr6	5	2	2	1	4.26	2	5.34	2
108352632	LOC108352632	6.6	15.4	13.26	4.93	17.7	14.31	9.48	13.17
100911585	LOC100911585	9.96	2.27	12.41	14.49	10.11	12.57	12.22	18.32
502618	LOC502618	14.64	5.54	16.94	13.99	19.95	19.54	15.66	14.38
103689931	LOC103689931	919.85	842.05	26.99	667.93	742	801.1	896.5	902.74
103690123	Hoxa2	0	40.06	6.84	1.62	40.27	1.84	15	8.98
405012	Olr89	2.5	2	0	0	4.29	0	0	1.84
500562	Lin28a	13.11	2.57	11.42	9.1	11.96	10.83	17.31	9.22
108353238	LOC108353238	11.18	17.21	8.51	8.71	11.96	15.14	16.97	18.08
499422	Gstt3	588.9	541.35	780.03	949	1115	1067	813	900.98
108348879	LOC108348879	3	3	2	3	1	2	6	6
690276	LOC690276	36	25	17	21	39	35	25	36
690919	Nrg4	2	2	2	5	1	3	7	4
29397	Ccl11	22	13	9.05	8	7	15	36	13
690593	Vom2r13	3	5	6.15	1.83	6.91	6	2.99	5.9
108352109	LOC108352109	55.81	27.69	37.09	59.6	73.64	65.2	51.68	55.42
497195	Rnase17	1.51	13.42	15.53	0.22	18.04	14.41	5.59	3.89
103694210	LOC103694210	54	47	33	54	53	44	75	85
24440	Hbb	2580.4	2355.21	5907.7	421.12	6583	4468	2099	2250.8
108348043	NEWGENE 2812	11.44	4.58	0	10	7	9.16	9	10.43
363085	Car12	23	29	7	28	20	40	32	27
366262	Rbm38	140	101	173	71	246	216	103	99
25085	Th	22	17	18	8	20	29	18	22
301112	Crb3	11	12	15	8	16	16	15	16
100359421	LOC100359421	17.18	29.76	16.81	5.9	21.53	27.47	22.13	24.35
312689	M6pr	300.52	218.67	2132.1	62.14	32	1056	1287	1351.73
102548162	LOC102548162	13	12	3	12	9	12	20	14
290485	Cldn10	14	25	21	12	25	21	30	23
315034	Fbxo43	3	1	2	2	2	2	4	3
683422	LOC683422	4	1	2	1	2	1	5	3
683980	Krtcap3	3	2	2	1	1	3	3	4
84405	I112a	4	2	1	1	3	4	2	2
116547	S100a8	320	212	453	31	443	318	431	205
103693260	LOC103693260	28.03	14.03	16.03	22.01	23	25.06	27.08	35
103690234	LOC103690234	12.62	22.4	23.09	20.44	25.11	23.9	37.62	21.4
102553828	LOC102553828	10.93	0	0	18.94	10.26	21.52	9.34	0
25269	Pvalb	2688	2951	1703	2735	3079	4788	2783	3223

288449	Katnal1	131.14	74.81	70.91	17.87	140.1	100.5	70.74	94.42
302884	MGC105649	22	15	26	6	19	24	26	26
102554611	LOC102554611	2	1	3.48	1.1	1.9	1.37	2.16	5.01
100366054	LOC100366054	4.17	0	5.1	0	4.9	1.73	0	6.14
102550455	LOC102550455	18.13	18.34	16.28	8.48	23.33	24.04	16.68	20.32
171105	Lnpep	389.7	646.72	246.67	709.4	717.5	262.2	637.6	1128.49
113882	Hemgn	72.63	30.16	124.18	5.13	148	82.02	48.16	42.25
691362	Mansc4	8	2	4	7	8	6	8	7
408212	Cpa5	3.73	12.49	8.43	9.64	12.97	12.58	13.09	8.72
312331	Nfe213	28	26	15	20	24	40	35	24
102553670	LOC102553670	18.69	16.6	11.81	14.18	27.95	9.44	33.21	14.16
25681	Col10a1	87	78	83	86	79	224	92	67
360816	Sds1	29	25	36	30	35	34	48	49
102552055	LOC102552055	23.01	21.01	13.22	21.08	23.07	40.07	31.2	14.03
102549500	LOC102549500	15.33	8.87	8.54	8.76	19.19	11.86	11.59	14.8
103690128	LOC103690128	10.88	8.93	2.45	7.65	10.33	14.64	7.56	8.92
309110	Gatd1	11.18	137.06	273.91	105.12	146.5	117.6	211.5	255.55
679158	Sox3	22	33	39	25	42	47	39	37
24415	Grm2	7.76	11.23	16.32	8.31	24.03	9.29	16.9	10.29
108351569	LOC108351569	0	1.08	1	1.09	0	1	1.07	2.33
100362981	LOC100362981	4.17	0.09	3.24	2.72	6.87	1.2	1.06	5.06
500085	Svopl	24.22	22.13	18.17	22.13	32.44	30.22	27.28	30.37
100360449	LOC100360449	41.84	125.53	209.22	0	157.8	209.2	83.69	72.48
100911399	LOC100911399	3.61	3.1	2.37	2.46	4.54	4.61	3.4	3.49
108351807	LOC108351807	7.38	0	0	0	0.67	0	0	9.59
303914	Ildr1	10	6	6	19	12	15	14	16
309649	Rab44	8	4	24	5	22	16	14	5
363796	Iqcg	4	13	14	10	18	14	15	10
100360779	LOC100360779	6	2.22	3	5.79	6.53	4	5.38	7.74
289395	Cr2	3	1	11	3	8	6.03	4	7
498659	RatNP-3b	140.31	71.87	158.09	14.38	174.8	92.27	213.4	54.96
688386	Cox7a212	231.24	368.18	453.26	341.21	408.5	467.4	590	474.47
266775	Serpinb10	20	14	21	1	33	22	18	5
316614	Asb18	31	21	14	23	24	38	41	21
690528	Pou2af1	26	15	42	6	44	44	14	22
365398	Slc22a12	8	11	16	13	19	18	17	13
103689986	LOC103689986	353.9	142.49	236.08	223.56	416.6	366.2	174.9	377.03
140584	Wnt11	32	35	28	21	43	49	38	32
108351821	LOC108351821	0	2	2	1.04	1.04	3	1	2
100910944	LOC100910944	137.64	121.92	230.41	91.46	206.5	84.11	110.2	412.91
102546601	LOC102546601	1	0	3	1	2	3	1	1
24261	Chrnbl	20	23	20	22	29	49	23	18
24362	Fbp1	3	4	2	1	3	2	3	6
246358	Ppbp	3	0	2	0	6	0	1	0
24867	Smr3b	5	2	1	2	2	5	4	3
25223	Tspyl	1	1	2	1	1	0	2	4
288053	Ropn1	2	2	0	1	1	1	4	1
289023	Kiss1	3	0	1	1	1	4	1	1
302425	Awat2	1	3	1	0	4	1	2	0
317533	Srsf8	5	2	0	3	2	6	5	1
365337	Olr202	0	3	2	0	2	2	2	1
500997	RGD1562914	0	1	2	2	1	2	1	3
502858	Gp9	1	3	1	0	5	1	0	1
66017	Fgf20	3	4	0	3	5	2	3	4
102555809	LOC102555809	5.77	3.83	0	1.23	3.4	2.34	4.42	5.02
63849	Mmp8	94	79	129	9	153	112	110	61

108352537	LOC108352537	8.02	5.86	8.22	10.36	14.35	15.14	4.55	11.49
266770	Soat2	1.51	1.07	3.22	5.85	3.17	3.04	4.2	5.94
315761	Cilp	97	57	115	58	149	77	105	128
689029	Tm6sf2	13	11	13	10	9	19	20	18
25329	Lhb	12	9	10	11	15	13	20	11
360849	Kif14	9	4	21	3	13	13	12	14
498087	Stfa212	21.01	10	16	14.1	27	13	23	22.94
297594	Cdca3	22	13	53	20	48	43	33	28
365466	Cpn1	21	22	16	22	31	24	24	35
361142	Galnt16	7.57	3.85	3.01	4	6.35	3.7	8.98	6.91
114111	Vegfc	21	30	22	20	25	31	37	38
25351	Slc2a2	6	5	3	8	10	9	4	8
308587	Ntn5	2	8	4	8	10	5	8	8
314996	Klhl38	21	16	11	13	20	29	15	22
360504	Hba2	4142.1	2761.84	6493.8	627.24	8493	5483	2440	3359.51
290561	Tnnc1	68	55	73	55	71	88	98	97
103693838	NEWGENE_621802	489.28	522.54	503.29	390.87	592.7	698.6	638.6	758.66
691903	Ssx1	15.63	7.02	13.28	11.14	13.02	13.73	18.45	21.22
288907	Podn11	7.06	7.04	5.93	9.99	11.03	19	7.98	4.38
295246	Dcst1	4	6	5	4	8	2	11.84	5
24174	Adra2b	8	9.9	7.05	9	15.9	8.02	14.07	10
498735	Fam217a	15	4	4	6	11	10	13	7
85257	Cnga3	3	4	2	3.02	3	2	7	5
362218	Rnf24	17	17	16	15	22	14	32	24
499465	Mett124	4	5	9	6	12	8	5	9
100359633	LOC100359633	0	0	0	4.27	0	1.64	4.41	0
689064	LOC689064	654.65	377.07	828.34	124.79	1052	738.3	383.3	638.63
301482	Abca12	14.8	7.66	7.05	9.2	20.99	9.31	17.56	7.02
102548682	LOC102548682	15.99	13.51	12.17	3.54	11.42	20.46	13.53	18.73
502083	Cldn24	1.87	1.98	0	11.2	7.53	2.55	4.7	6.6
24336	Epor	12	3	15	8	31	11	4	8
294094	Lipk	5	6	4	4	8	7	6	6
681056	Erfe	2	5	9	3	6	9	5	7
494021	Lmcd1	68	36	45	45	51	111	76	38
102552838	Mclr	7	3	5	11	8	14	10	5
171078	Mlxipl	7	4	11	4	11	15	7	4
24751	RT1-01	17.95	18.51	15.32	26.43	32.25	26.99	20.15	31.93
100361018	LOC100361018	5.53	2	6.82	0.88	5	3.06	6.86	6.77
100912163	LOC100912163	173.07	112.15	177.42	23.19	35.92	154.3	193.3	308.38
497101	Xkrx	3.91	15.71	12.64	13.01	28.66	15.39	10.86	9.64
29135	Hpn	9	21	15	16	21	18	24	24
367298	Slc23a3	5.86	4.19	7.52	5.76	9	6.2	10.08	8
81668	Gnrhr	3.8	2.01	0	0	0.76	4.02	1.89	1.62
102546495	LOC102546495	0	2.81	0	1.43	2.45	0	0.83	2.77
108352876	LOC108352876	0	2.81	0	1.43	2.45	0	0.83	2.77
102557111	LOC102557111	13.15	6.23	14.46	11.25	19.81	10.38	16.19	18
362638	Cda	22.32	7.44	14.88	7.44	7.44	22.32	14.88	29.75
100362422	Efcab13	1	0	3	3	4	3	2	1
102552731	LOC102552731	2	1	2	2	2	2	4	2
117554	Pnliprp2	1	3	3	0	3	1	3	3
24311	Ddc	9	15	13	5	11	11	13	25
245919	Impg2	6	3	4	8	7	8	13	2
282829	Tac4	4	5	7	5	5	10	8	7
287241	Olr1387	1	0	1	1.5	1	1	3	0
293841	Xlr4a	1	2	2	2	2	2	1	5
308429	Pinlyp	1	2	2	2	2	5	0	3

312720	Akap3	5	5	8	3	7	6	8	9
498133	Tex26	6	10	1	4	6	11	7	6
500363	Tuba3b	0	3.33	1	2.67	5	2	0	3
691161	Sh2d6	10	3	5	3	5	10	7	8
25748	Alas2	135	126	245	20	301	229	102	120
286995	Defa5	213	72	162.57	11	222.7	135.4	219.5	78.76
54305	Sstr2	51	28	24	29	54	47	42	46
309433	Sec31b	17	19	20	18	42	32	16	16
298961	Agr2	0	3.79	3.74	3.22	1.16	3.13	2.02	9.09
361968	Tmem144	11	13	14	22	19	21	23	23
103693711	LOC103693711	4.01	3.03	1.01	6.01	4.02	8.09	4.02	4.03
303909	Stfa2	10.99	0	5	0	0	8.93	14	0
292393	RGD1561667	1.19	3	0	0	3.01	1	2	0
246138	Ly6i	1.05	0	1.04	0	0	2	0	1
303542	Ghdc	78	163	73	147	73	145	217	227
100912904	LOC100912904	56.59	26.12	39.74	14.01	63.83	51.88	28.63	51.72
103690085	LOC103690085	5.63	2.26	3.67	5	5.58	1.82	11.21	5.19
302373	Gpr174	5	3	6	2	5	12	3	3
307253	Katnal2	8	8	6	10	10	13	12	11
408199	Sucnr1	3	4	3	6	7	5	4	7
497946	Spns3	5	4	6	1	7	8	4	4
316729	Fam114a111	28.02	11.09	12.32	17.14	14.45	10.79	52.53	20.82
192245	Hspb6	286	325	236	294	365	640	329	307
305476	RGD1308775	20.04	15.03	21.04	13	21.11	24.11	30.07	24.11
679990	Pgm5	66	37	45	34	62	93	46	61
171125	Ptprh	6	7	9	3	15	6	5	10
498604	Fam129c	32.18	41.14	50.25	27.75	74.91	61.03	41.38	40.62
102554479	LOC102554479	7	4.93	10.15	8.28	14.61	8.14	14.04	6.96
25123	Tagln	490	340	467	298	522	933	529	317
361818	Rsph1	20	31	19	18	53	43	15	16
24464	Hp	56	38	74	19	78	71	73	48
108350052	NEWGENE_1592020	2	3	1	3	4	4	3	2
29243	F10	11	6	14	5	10	16	9	17
303687	Evp1	47	32	29	45	63	47	53	58
317416	LOC317416	2	9	4	3	7	9	6	4
259244	LOC259244	15.02	6.38	7	5.37	18.04	12.16	13.71	4.95
310483	Mlf1	99	73	105	65	132	197	91	75
311833	Ak8	12	4	8	14	12	18	13	12
689173	LOC689173	4.49	4.21	4	6	5.65	5.89	5.53	10
102549189	LOC102549189	0	0	1.05	0	0	0	1.52	0
299193	Acot6	5.13	11.33	3.74	4.09	7.1	12.98	7.96	7.13
94195	S100a9	651	486	886	52	986	708	903	408
24307	Cyp4b1	23	18	8	9	25	26	18	15
679875	Mage12	12	12	9	25	27	16	25	16
102551447	LOC102551447	0	1.4	1.44	8.69	2.84	7.22	2.78	3.87
499702	Synpo2	92	78	134	154	155	325	109	75
302192	LOC302192	47.41	20.83	24.17	4.82	41.7	38.01	12.81	48.49
29469	Lbp	73	57	62	52	102	124	79	49
108348173	LOC108348173	23.12	11.98	23.12	12.58	17.98	12.84	43.67	28.26
304965	Fcrla	47.19	21.85	51.87	16.75	76.28	72.48	29.19	21.88
690237	Pot1b	156.96	66.86	72	71.95	125.9	131.7	63.91	213
295620	Upp2	5.14	4.36	1.3	1.15	8.25	3.02	2.99	3.11
81514	Lrrn3	920	1380	767	844	871	1805	1756	1256
315162	Mei1	9	5	5	3	8	9	8	7
498267	Dusp27	7	6	5	15	9	25	9	5
681211	Mogat2	276	232	164	202	317	319	277	359

108350053	LOC108350053	3.66	1.3	2.9	6.74	3.95	5.06	8.05	4.19
114519	Nfil3	65	58	63	83	98	107	107	80
24397	Glra2	2.02	3.06	1.1	3.83	3.97	4.54	2.07	4.01
29161	Cav3	25	20	23	15	22	65	14	20
683408	LOC683408	2.28	3	4.85	3.78	6.58	5	5.18	3.52
311331	Spint1	42	28	38	27	31	42	74	50
315465	Ccdc151	10	4	11	12	17	11	9	17
306330	Klf2	184	156	136	155	216	258	293	154
246297	Myocd	9.01	5	3.95	7.03	12.15	5	12.1	7.23
290567	Chat	7.33	0.69	1.88	7.88	8.83	2.95	1.4	12.78
25632	Hba1	7792.9	5642.16	13448	1351.3	17833	11403	5072	6931.52
171291	Kif6	3	4	4	2	4	4	5	6
305078	Lamb3	5	5	1	2	2	9	4	4
100360919	Igll1	5	9	9	3	16	12	9	1
102555578	LOC102555578	0	0.74	0	2.12	1.04	0	1.09	2.05
84020	Kcnq1	8	6	7	5	19	5	6	8
29300	Gata6	7	1	1	2	1	6.09	9	0
290257	Ctsg	43	16	48	3	69	36	45	11
300260	Sp7	11.36	14.38	9.02	11.03	13.18	34.08	12.07	7.69
302719	RGD1563378	7.98	7.6	13.35	2.55	8.68	8.25	12.93	16.23
502684	LOC502684	12	8	1	7	8	5	15	13
102549173	LOC102549173	15.98	10.53	9.9	4.17	20.22	10.3	25.78	3.16
103690120	LOC103690120	3.35	8.82	0	2.4	2.1	7.89	9.7	1.66
108353258	LOC108353258	4	4	4	3	7	5	4	6
117048	Cdh17	9	17	9	10	18	23	10	15
287305	RGD1308564	3	3	8	1	10	4	4	4
291005	Gadd45g	111	107	100	162	168	167	212	157
102549738	LOC102549738	2.41	0	0	0	0	1.16	2.38	0
365864	Tuft1	121	84	77	123	182	170	150	93
679818	LOC679818	4.41	9	18.21	11.17	19.53	7.69	20.82	14.87
108349816	LOC108349816	5	5	2	5	6	4	6	9
292794	Ffar2	3	8	4	2	11	6	4	4
301118	Acer1	4	5	4	6	5	8	11	4
366915	Snx31	14	7	2	15	10	32	0	14
367785	Asb9	7	5	4	3	7	4	14	3
314248	RGD1562381	2.12	0	1.05	1.05	1.72	3.37	1.13	0
306871	Dsp	115	134	111	127	109	84	391	134
286958	Np4	170.66	89	173.04	9	220.6	136	219	76
100302373	Ctxn2	16	18	14	13	15	22	33	20
63878	Stc2	4	4	5	8	10	7	7	7
289138	Tp53i3	374	143	149	540	465	369	592	355
299920	Lrrc6	4	10	4	5	13	1	9	11
83683	Gpr6	9	3	9	2	11	8	7	8
100910979	LOC100910979	0	32.98	5.67	16.68	6.31	5.61	33.36	36.55
102553065	LOC102553065	0	0	1.89	2	0	3	2.2	0.56
500448	RGD1560723	31.04	20.49	25.83	23.3	59.69	37.23	18.01	34.21
303575	Kif18b	14	20	39	10	33	45	22	23
499093	Zfp108	6.71	4.22	16.62	11.18	14.55	7.45	20.5	14.9
108352875	LOC108352875	7.6	3.36	0	3.08	2.05	7.15	9.28	2.33
502617	RGD1564854	1	2.95	3.32	1	0.88	6.67	1.94	2.78
81526	Nov	193	181	202	95	334	245	237	180
688698	Ckmt2	109	93	47	91	177	242	41	45
310218	Car1	41	15	43	6	74	37	25	20
298006	Cc121	64	60	109	16	100	71	102	97
108352003	LOC108352003	1.02	0	0	1	0	1	0	2.01
170573	Slc38a4	20	13	7	11	22	29	12	13

292168	Mcoln2	12	11	13	15	10	26	20	20
680316	LOC680316	2	3.62	0	0	1.39	3.99	3	0
100364435	LOC100364435	2.36	0	0	4.36	6.91	0	3.12	0
304816	Lmod1	85.04	52.06	50.74	62.81	84.88	147	76.19	66.17
103693608	LOC103693608	0	0	104.34	0	21.45	61.01	30.47	42.91
500910	Tnfrsf13c	8.62	14.64	8.18	5.89	20.77	18.22	10.45	6.34
60351	Nr1h4	15.15	18.9	13.87	17.2	32.18	17.32	17.28	30.61
291582	Slc27a6	84.11	82.25	96.47	104.26	183.5	172	89.8	104
100909464	LOC100909464	9.85	6.39	0	0	0	17.45	0	6.86
108348179	LOC108348179	2	0	1.44	0	1.24	2.91	1	0
497963	LOC497963	8	0	2.25	2.42	13	6	0	0
100359586	LOC100359586	1	0	0	1	1	1	1	0
100910555	LOC100910555	2	2	0	0	2	2	0	2
102552318	LOC102552318	1	1	0	0	1	1	0	1
102552911	LOC102552911	1	1	1	1	2	0	3	1
102555723	Pgbd2	4	6	6	4	6	6	5	13
103693361	LOC103693361	0	0	0	2	1	0	1	1
103694115	LOC103694115	1	0	0	1	1	0	1	1
108351077	LOC108351077	1	2	1	2	2	2	4	1
108352407	LOC108352407	2	0	0	0	0	1	2	0
117522	Xpnpep2	1	4	4	7	9	7	4	4
24476	Iapp	215	175	164	178	265	217	318	298
25229	Chrm1	0	0	5	1	2	1	1	5
25419	Crp	4	0	2	0	2	3	3	1
25517	Pou1f1	0	0	0	2	0	1	1	1
266730	Slc17a3	3	0	0	1	1	2	1	2
266997	Rln3	0	0	1	1	0	3	0	0
286997	Mapk15	3	10	5	4	6	9	9	9
287679	Krt40	1	0	0	1	1	1	0	1
290372	Fam216b	0	0	0	2	2	0	1	0
290467	Slitrk6	3	1	3	1	0	7	4	1
291823	Cmt1	2	2	0	2	4	3	2	0
29471	Npy4r	0	0	1	1	0	2	1	0
296351	Pabpc11	0	0	1	1	1	0	1	1
296706	Lhx2	0	0	1	1	0	2	1	0
300375	Mbd312	0	0	0	2	0	0	1	2
300826	Khdc3	1	0	3	0	4	0	1	1
301034	Ltf	1	0	1	0	0	2	1	0
303528	Krt34	0	0	0	2	0	0	2	1
308766	Mespl	0	1	0	1	3	0	0	0
309095	Nkx6-2	2	0	2	0	4	1	0	1
309227	Glyat11	0	2	0	0	0	0	2	1
309900	Tulp1	0	2	0	0	0	1	0	2
311337	Ltk	4	2	2	4	3	5	6	4
314431	Spaca5	1	1	0	4	5	1	0	3
314649	Slpr4	12	7	13	8	29	15	6	10
314771	Kera	0	2	4	0	0	8	1	0
353251	Prss21	1	0	0	1	0	0	2	1
361902	Mroh2b	0	0	2	0	0	0	2	1
361964	Zbbx	0	0	0	2	2	0	1	0
362052	Clca2	2	1	1	0	2	1	0	3
363686	Clql1	0	4	1	1	2	3	2	2
364302	Rnase12	0	1	1	0	1	1	1	0
494204	Ly49i4	2	0	0	0	2	0	0	1
498352	Pdc12	0	1	2	1	2	0	2	2
498834	Myo7b	5	6	5	2	3	11	5	8

498870	Tex43	1	2	3	2	2	3	5	2
499879	Duoxa2	0	1	1	0	0	1	2	0
500223	Mlap	0	0	1	1	0	2	0	1
501391	LOC501391	1	1	0	0	1	1	1	0
54314	Tpo	2	0	0	0	1	1	0	1
60414	Rhd	20	19	50	5	57	41	26	17
65029	Aoc1	1	0	0	1	1	1	0	1
685958	Ccl26	0	1	0	1	0	1	1	1
690862	LOC690862	4.1	2	2	2	5	2.1	4	4.05
691259	Lypd8	0	0	2	0	1	0	0	2
84604	Hamp	0	0	4	0	1	2	1	2
103692761	LOC103692761	2	2	3	3	3	1	3	8
170819	Ii24	2	1	4	3	2	1	7	5
25360	Tshr	6	3	5	0	5	7	4	5
295953	Rag2	7	8	9	2	11	15	6	7
300051	Slc39a4	4	1	4	1	4	4	3	4
499306	Majin	5	2	0	3	3	4	4	4
499643	LOC499643	4	0	3	3	4	3	1	7
679534	RGD1560034	3	4	1	2	2	6	6	1
499282	Cfap46	10	6	7	7	14.02	13	7	11
102550584	LOC102550584	2.01	0	0	0	0	0	1.01	2.01
102553424	Bhmg1	0	2	1	1	1.01	2	1	2
100361431	Syce11	4.28	0	1.05	1.06	2.18	6.36	0	1.07
287701	Krt14	2	3	4	2.31	1.01	4	5	7
140930	Faim	140.12	135.95	120.85	142.61	190.6	231.2	164.6	226.24
25033	Sstr1	12	22	15	22	24	29	33	21
100912426	LOC100912426	14.85	14.83	32.25	4.13	38.48	22.76	20.61	17.73
363618	Hs3st3a1	0	2.78	2.1	0	5.2	2.16	0	0
102552640	LOC102552640	115.15	173	162.69	152.98	247	225.1	211	227.63
85253	Plg	10	16	12	13	26	15	11	25
24299	Cyp2a3	50	44	2	72	61	71	54	68
291854	Adgrg3	23	16	32	11	47	33	28	16
117054	Cd52	10	8	12	7	21	17	5	13
690142	LOC690142	3	3	3	5	4.21	4.99	5	7
301127	Znrf4	8	10	10	5	12	10	16	12
501097	Mdfi	24	9	16	13	17	25	22	30
689932	Ii23r	1	1	1	0	1	1.55	1	1
295247	Dcst2	3	4	1	0	2	1	1.16	8
689588	Oaz3	13	3	6	3	13	7	14	4
102555091	LOC102555091	1	1	1.03	1	1.59	2.19	0	2.35
679997	RGD1565617	3.88	3	3.52	0	5.83	6	0	4
688691	LOC688691	4.02	1	3	3.02	4	5	2	5.81
25512	Phex	11	13	13	7	17	21	11	18
291675	Mzb1	8	5	4	4	6	8	7	11
103690045	NEWGENE_1310139	56.38	117.13	64.67	100.44	140	106.9	187.5	82.13
102556703	LOC102556703	9.48	10.7	0	0	7.4	10.43	5	7.96
316088	Klhl40	22	37	25	30	41	68	33	32
102547093	LOC102547093	10.27	19.19	7.14	6.58	12.59	23.84	12.79	16.72
108348062	LOC108348062	128.42	267.17	121.18	0	83.18	290.4	136.2	279.36
474169	Rnase2	7.52	13.86	16.51	2	16.87	15.97	17.45	10.73
405013	Olr88	2.5	4	4	9	7.71	10	6	6.16
56765	Plvap	319	162	171	130	321	368	299	210
613225	Defa11	8.11	0	8.2	1	6.21	10.77	6.35	3.19
24163	Acr	5.06	2.03	6.72	1	4.04	7.01	6.58	5.09
288045	Zdhhc19	36.01	24	28	12	39.57	49	37	28
58981	Kcnab3	12	20	24	13	25	33	31	17

29395	Hmgb2	117.68	92.35	142.64	104.16	292.9	221	114.6	73.74
691228	LOC691228	7.15	0	16.44	6.69	10.24	4.8	10.38	21.13
102546903	LOC102546903	0	0	2.01	1.06	2.7	0	0	2.02
100188984	Zfp951	2	7.6	8.55	4.35	10.87	0	16.73	7
108350558	LOC108350558	2	19.77	10.31	27.62	39.83	29.77	22.21	0
308596	Ush1c	5	5	1	2	9	6	2	3
362249	Cpne1	0	25.56	0	21.08	68.57	0	0	3.22
296358	Matn4	3	6	6	8	4	17	10.46	4
688228	My14	21	12	13	13	13	48	15	15
684509	LOC684509	0	0	0.46	0	0	0	0.71	0
83623	Spag4	15.99	19.49	9.32	6.35	35.85	14.51	18.49	10.1
689453	LOC689453	1.11	1.48	1.52	1.17	6.83	0	0	1.32
266705	Ppp1r17	3.08	3	3.06	3.47	3	2	8.43	6.04
114496	Bik	3	3	2	3	3	3	5	6
367745	Dgkk	2	1	6	2	3	9	2	3
85431	Nox4	13	6	7	7	13	15	18	5
65207	Rhag	23	12	30	10	56	31	14	15
365313	Xrra1	4.37	8.79	4.33	4.37	6.37	8.61	8.94	9.91
108353287	LOC108353287	0	0	0	2.81	1	0	0	3.35
305104	Col9a1	88	64	210	120	42	449	146	110
293992	Pax2	3	0	0	2.81	2	4	1.02	2
317395	Spin2a	8	3	11	5.65	11	6	12.97	13
316940	Spetex-2F	0	0	0	2	0	0	1.45	1.66
289243	Mptx1	0	5	2	2	3	1	5	5
29171	Aqp7	9	0	0	0	1	11	1	1
684979	Hs3st6	1	3	2	3	1	2	3	8
108352354	LOC108352354	3	2	3.13	4.12	5	7	1.06	6
681896	Slc25a18	50	43	38	45	56	76	88	54
100912538	LOC100912538	24.41	12.91	30.11	23.13	53.86	28.33	30.48	28.52
100911581	LOC100911581	11.82	16.96	0	7.78	10.03	10.7	6.58	29.71
102550309	LOC102550309	5.23	0	0	0	2.94	2.25	0	2.98
102555858	LOC102555858	5.23	0	0	0	2.94	2.25	0	2.98
368158	Rorc	6.98	0	2.29	1.31	0	6.56	4.4	5.57
108348184	LOC108348184	0	7.13	0	0	0	0	11.14	0
103690782	Ssx2	1	2.46	0	1	2	2.99	1	0.99
252942	Myh8	48.37	36.4	36.06	38.89	59.04	61.45	64.76	64.73
293753	Ms4a3	11	6	4	2	15	8	11	2
117523	St8sia2	30	6	30	33	28	33	59	35
117516	Tnfsf11	0.38	0	1.38	0	0.38	2.38	0	0
25516	Pnoc	14	16	20	15	12	25	23	42
691543	Katnbl1	12.94	38.09	28.45	22.27	18.09	11.32	51.93	78.33
679974	Tceal6	0	0	4.22	15.42	14.04	3.93	5.55	7.31
100362205	Fndc9	5	0	0	2	4	3	3	1
314638	Creb313	1	4	2	0	5	4	0	2
499273	RGD1563285	1	1	3	2	2	3	5	1
500311	Gdf3	2	1	3	1	1	6	3	1
685580	Prr33	18	14	37	13	38	70	13	8
498270	Ccdc190	38	19	23	28	43	45	35	47
404640	Mrgprx2	3.77	0.52	3.66	4.24	3.42	6.03	4	5.75
81633	Acta2	532.92	404.01	420.88	330.98	520	1142	624	374.07
688778	LOC688778	0	0	1.41	2.03	1.32	2.71	1.39	0
100911326	LOC100911326	3.8	5.2	3.94	12.86	10.28	3.84	10.08	16.47
502859	Kbtbd12	17.02	10.27	8.88	11.5	21.18	34	8.78	11.19
24808	Tacr3	3	12	7	4	10	14	8	9
316158	RGD1559808	0.46	2.88	1.97	3.02	2.15	4.13	4.54	2.32
690041	Xlr3a	0	0	0	5.57	2.31	0	6.48	0

296269	Angpt4	5	3	7	4	7	10	8	5
367167	Traip	14	5	8	11	14	9	14	23
100911295	LOC100911295	296.64	181.28	346.07	197.76	379	494.4	461.4	280.16
108348085	LOC108348085	98.54	0	138.03	69.02	241.5	103.5	34.51	103.53
114103	I15ra	7	2	0	3	2	5	7	5
499968	Galnt15	4	5	2	1	1	3	5	10
502919	Igbp1b	1	3	4	4	2	6	5	6
100910497	LOC100910497	0	8.05	6.55	12.26	0	6.81	7.05	28.68
498128	Mcemp1	20	14	26	5	41	19	28	15
100911353	LOC100911353	3.47	2.24	3.28	3.59	6.63	4	6	3.32
100363535	LOC100363535	17	5.17	8.99	6.87	18	14.8	12	15.55
108348143	LOC108348143	0	43.13	24.96	48.58	78.49	39.49	37.49	29.99
292778	Polr2i	21.66	15.16	10.83	10.83	10.83	38.99	21.66	21.66
114106	Bco1	21.55	19.85	18	16.06	31.26	29	34	26.03
102548546	LOC102548546	2.01	4.24	1.29	3.92	5.23	5.09	3.89	4.07
171052	Mmp13	140	158	125	118	186	382	270	25
102555039	LOC102555039	36.54	8.5	12.05	16.68	19.52	47.54	8.47	42.32
25304	Comp	154	176	178	175	172	533	198	189
100363294	LOC100363294	0	4	0	1	1	3	1	3
114593	Nppc	1	3	1	0	3	3	1	1
140656	Albg	5	0	0	0	3	4	0	1
24946	F9	2	2	0	1	1	2	3	2
303215	Fbxw10	4	4	4	3	3	6	9	6
309100	Scgblc1	1	2	0	2	3	1	1	3
309217	Ms4a1	15	9	14	2	28	25	7	4
500637	Dcdc2c	2	2	1	0	4	1	3	0
503227	Iqcf1	2	1	0	2	1	2	2	3
100362820	LOC100362820	16.98	5	8	10	16	15	18	15
100363439	Rps1011	510.95	1056.98	544.8	99.18	1101	977.1	519	946.34
113931	Prrx2	23	10	18	12	21	33	17	30
64543	Sec14l3	662.01	580.93	817.68	696.46	2041	552.6	474.8	1355.34
683720	Krt79	6.12	6	4	3	2.07	11.16	9.16	8.3
81648	Crh	221	125	100	134	196	153	277	305
64032	Ctgf	316	160	184	246	352	520	331	252
24638	Pfkfb1	14.03	10.23	9.03	5	15.18	24.71	8.66	12.98
362211	Mall	18	23	20	11	15	47	33	21
363790	Fbxo40	13	9	16	11	21	36	10	12
310213	Sirpb2	0	0	1.29	0	1.08	0	1	0
313126	Gja10	9	6	7	9	14	17	13	6
360479	LOC360479	38	30	36	6	52	46	33	46.61
288979	C1ql2	5	2	4	2	3	7	3	8
498587	Ldb3	393	376	403	439	677	1070	426	430
64555	Spef2	23.72	20.1	6.7	11.73	18.43	20	22	40.2
688972	Gypa	61	31	79.06	7	125.2	92.84	40	30.01
24216	Atp4a	5	3	3	10	9	12	10	3
64317	Gpx3	296	211	266	192	258	653	391	261
304131	Map3k7c1	30	33	27	37	34	102	32	38
680862	Trem14	0	6.07	3.65	1.04	4.54	8.11	2.65	2.16
108349495	LOC108349495	2.46	0	1.59	0	6.58	0	0	0
100910798	LOC100910798	2.69	2	0	0	1.13	0	1.49	5
100362912	Tmprss12	6	5	3	10	5	12	14	8
100911372	LOC100911372	146.81	107.66	137.02	107.66	254.5	186	176.2	195.75
287001	Olr287	8	12	9	14	15	20	20	15
298545	Cnksr1	11	2	5	9	13	21	7	3
680989	LOC680989	12.65	18.16	15.13	5.1	15.93	24.99	19.55	22.72
305341	Rhoh	10	16	16	4	25	19	15	16

25342	Oxtr	4.74	3.75	3.01	6.14	10.07	6.33	7.46	4.91
29187	Cd69	7	4	2	6	10	6	5	10
681190	Kcne5	6	6	2	5	10	6	5	10
307310	Zfp474	0	0.11	0	3.99	3.49	1.06	0	2.14
24779	Slc4a1	214.5	145	408.94	33	601	371	192	147
246044	Otos	4	3	3	1	7	6	3	2
364538	RGD1564941	1	4	3	3	5	4	3	6
498232	Lax1	5	1	5	0	5	4	6	3
316632	Ndufa1011	0	640.53	476.47	613.78	611.1	615.7	1041	565.57
679994	Hist1h3a	1.22	0	2.58	1.28	4.62	2.36	0	1.34
289178	Dpt	107	129	208	30	201	290	190	96
406160	Btnl8	0	2	0	0	0	0	3.28	0
25139	Slc2a4	47	49	54	50	85	147	50	46
103694871	LOC103694871	7.85	6.38	8.68	5.02	11.87	15.84	9	9.11
24618	Reg3b	16	8	15	6	13	15	21	25
689695	Prdm13	3	1	0	4	4	4.16	3	2
24981	RT1-Db2	19.37	24.83	20.63	1	24.89	16.27	21.14	46.02
683463	Lilrb3a	23.7	1.08	36.08	32.91	8.33	0	86.39	59.97
171162	Reg3a	12	5	15	8	16	13	7	30
24767	Scn1b	5	3	10	2	1	17	9	6
502596	Lrit3	0	0	1.01	2.05	3.03	0	2.02	0
691464	Dhrs2	15	28	12	18	16	24	63	18
25706	Cckbr	14	11	12	4	16	19	20	13
108348157	LOC108348157	34.25	17.12	73	17.12	85.62	81	34.25	34.25
498918	Irx5	3	1.01	0	5.98	4.25	9.39	0	3
100362109	LOC100362109	1	1	0	1	2	0	0	3
102549582	LOC102549582	0	2	1	0	3	0	2	0
102550809	Scml1	1	1	0	1	2	1	0	2
102552638	LOC102552638	1	0	0	5	2	3	2	3
171049	Folr1	2	2	1	1	1	5	4	0
292152	Ces2i	1	0	2	0	0	2	2	1
292295	Pabpc6	0	0	1	2	0	2	1	2
292325	B3gnt6	7	2	6	6	12	6	7	10
295265	RGD1359334	0	1	1	1	1	1	0	3
29567	Hes2	2	1	2	1	3	3	2	2
300141	Mov1011	1	0	2	0	0	2	3	0
302970	Prss32	1	0	0	2	3	0	2	0
303256	Tm4sf5	0	1	1	1	3	0	1	1
363267	Daw1	0	1	1	1	1	3	1	0
500827	LOC500827	2	3	0	1	3	2	4	1
56823	Haao	1	0	1	4	4	2	2	2
680427	Tbr1	1	0	2	0	1	1	2	1
685365	Fmo9	1	1	2	2	1	2	2	5
688642	Wbp2n1	3	0	0	0	1	1	3	0
689093	Upk2	1	1	0	1	1	1	1	2
690114	LOC690114	0	0	2	1	1	2	2	0
690430	Nr1h5	0	2	1	0	2	0	0	3
171055	Cd79b	38	13	45	6	61	62	32	15
266734	Npas4	2	5	1	16	10	9	14	7
364723	Hist1h2ao	7.95	4.91	9.8	7.87	9.26	12.33	8.13	21.19
29747	Kcnmb1	51.81	17.69	13.28	21.7	43.63	70.45	37.36	22.85
498276	LOC498276	25.09	15.56	8.82	2.58	11.91	0	33.78	41.22
681182	LOC681182	0	2.2	1.57	0	0	0	0	6.3
29301	Hal	35	23	27	16	34	41	46	48
499146	Spib	63	33	88	12	112	146	30	40
365367	Cd19	23	13	24	14	45	51	12	16

685183	LOC685183	4.76	10.28	7.13	7.97	24.46	4.26	8.76	13.05
102549344	LOC102549344	1.79	1.01	3.11	0	2.18	4.59	1.12	2.03
25555	Sstr4	5	5	3	12	3	16	11	12
289316	Lefty2	38.31	44.09	60.54	45.5	170.8	39.53	40.38	66.56
102548133	LOC102548133	11.24	0	8.17	0	0	0	32.69	0
102547344	LOC102547344	2.06	1.08	1.28	2.81	4.41	5	1	1.8
103690081	LOC103690081	2.62	0	1.63	1.19	2.56	2.69	2.63	1.31
310625	Rhbg	7	11	6	5	7	18	13	11
367912	Glra4	2	9	9	9	10	10	14	15
312721	Dyrk4	0.53	1	3.9	4.47	3.59	2.6	6.01	4.57
292545	Nlrp4a	2.03	1.97	0	2.13	6.38	4.01	0	0.02
305264	Ugt2b10	2.14	1.2	0	1.07	1.99	1	4.5	0
102554283	LOC102554283	4.09	0	2.77	2.82	3.75	4.75	4.66	3.29
25572	Tnfrsf4	7	8	4	1	6	7	8	13
316624	Klhl130	16	14	18	12	29	48	11	14
499065	Tarm1	2	0	6	2	5	6	3	3
500445	Fam205c	4	7	7	2	6	11	9	8
503103	Sult6b1	5	1	1	3	2	6	3	6
683613	Krt71	3	3	1	3	6	3	4	4
100360647	LOC100360647	12.39	4.3	4.27	8.7	0	21.84	17.45	11.17
687780	LOC687780	12.39	4.3	4.27	8.7	0	21.84	17.45	11.17
266998	Slc13a5	6	9	6	6	12	13	10	11
294312	Pi16	246	94	177	88	375	245	263	149
311029	Neb	230	680	762	288	843	1932	333	239
498875	Alpk2	17	11	19	22	28	47	21	22
316232	Dlk2	7	3	8	7.13	15	3	11	14
103690642	LOC103690642	8.41	0	5.7	5.56	23.89	0	4.32	5.5
24316	Drd1	7	1	4	2	4	6	8	6
25007	Tacr2	3	1	2	1	3	4	4	1
303589	Efcab3	2	1	3	1	3	2	4	3
690470	Accs1	3	2	1	1	1	5	4	2
103693936	LOC103693936	6.68	9	7	9	20.64	21.87	7	5
316010	Camp	91	56	114	2	153	113	122	65
301026	Ngp	345	160	299	36	476	339	446	186
102555319	LOC102555319	1.2	57.86	66.84	112.46	107.6	122.4	46.45	134.28
102549391	LOC102549391	0	0	1.36	1.57	1.89	0	3.16	0
246172	Nexn	97	66	76	117	145	265	129	75
102551890	LOC102551890	3	7	5	7	5	9	12	12
24875	Vipr1	2	2	3	4	5	8	5	1
25623	Gys2	2	1	5	3	3	8	5	3
25699	Dbh	2	3	3	3	2	8	3	6
498222	LOC498222	3	4	2	2	5	4	5	5
501096	Trem11	7	2	2	0	13	2	1	3
502832	RGD1563231	3.12	4	11.48	0	10.17	14	4	4
290221	Nr1	9	5	7	5	15	14	11	5
500377	Tuba8	55	43	38	52	67.84	120.9	70	66.88
108351033	LOC108351033	0	2.14	0	0	0	1	1.13	1.58
102550523	Fsbp	2	3	7	7	10	9	7	7
688459	LOC688459	32	15	16	29	50	39	35	36
103692529	LOC103692529	5	10	8	8	10	15	12	17
100910462	LOC100910462	0	1.69	1.06	0	3.7	0	0	1.1
688800	Aldh3b2	2.46	2.48	0	2.11	2.63	5.45	4.24	0
100360846	LOC100360846	0	0	0	3.46	2.59	0	3.46	0
100909799	LOC100909799	5	4	4	3	23	3	0	2
100909869	LOC100909869	63.67	50.51	31.98	59.04	89.01	95.2	119.4	55.49
102547056	LOC102547056	2	0	1	1	0	3	3	1

108353003	LOC108353003	2	1	0	1	1	1	3	2
25710	Cd3d	0	2	1	1	1	2	4	0
290217	RGD1564324	1	1	1	1	3	0	2	2
306725	Spata31d3	1	2	0	1	0	3	3	1
312272	Mgam	1	0	1.99	1.01	3.01	0	2.99	1
500678	Ccdc196	1	3	0	0	0	3	2	2
501617	Ar113a	2	0	1	1	3	1	2	1
64669	Olah	2	1	1	4	1	4	5	4
682829	Tspo2	3	0	0	1	4	1	0	2
685271	Hmgb4	1	1	0	2	1	1	2	3
691448	Slc25a54	2	3	3	4	3	7	7	4
100910934	LOC100910934	0	2.97	0	0	2.36	0	0	2.84
300475	Adamts8	194	221	153	206	401	333	281	342
499402	RGD1562652	10.88	16.13	7.82	5.21	23.21	16.51	9.3	21.21
444983	Apold1	90	148	74	368	323	303	472	97
501679	RGD1559662	9	10	10	0	26	9	13	3
313756	Plch2	7	4	6	4	10	15	6	6
108351580	LOC108351580	7.99	12.01	5.1	12.24	17.35	17.22	13.12	18.1
288038	Meltf	4.16	3.08	5.18	6.74	8.99	16.44	5.24	3.11
114587	Dlk1	8	8	16	6	32	14	7	14
688518	Pabpc5	1	5	3	8	12	3	9	6
100360828	LOC100360828	0	0	20.97	0	0	0	20.39	16.68
286934	Havcr1	0	1	2	1	4.08	1	2	0
81639	Alox15	44	34	72	11	111	85	43	46
303413	Mpo	91	32	141	8	170	144	135	33
302400	Cdx4	0	0	2	0	0	0	1	2.55
25043	Eln	376	255	316	229	456	808	569	255
64507	Fmod	153.78	127.15	175.84	224.25	183.6	613	178	235.04
685378	Dppa4	2	4	3	2.58	2.58	5	5	8
498066	Sh3bgr	145	137.17	132	188	235	415	206	215
690283	LOC690283	16.6	12.22	15.1	19.85	43.68	19.47	18.3	32.07
103689936	Wbp1111	381.19	377.73	370.94	0.06	516.9	335.6	839.8	319.23
297412	Dusp11	55.36	23.14	23.62	27.8	65.06	59.1	59.7	47.8
313776	Perml	25.02	31.74	12.02	30.69	41.03	67.12	36.05	33.92
298485	Ermap	21.52	10.87	25.92	6.11	44.27	38.23	18	15
103694912	LOC103694912	4.39	9	3.02	4.25	9.42	9.18	2.87	15.61
301097	Vwa5a	1480.1	2849.88	500.75	313.17	3987	581.8	2348	2329.03
100361582	Ttc24	0	2	1	2	2	0	5	2
102555308	LOC102555308	0	2	2	1	3	2	2	2
24414	Grml	4	5	5	1	10	7	4	6
29641	Adam7	0	4	0	1	4	2	3	0
296483	Lkaaeal1	1	1	1	2	2	0	3	4
299582	Olr1088	0	1	1	3	2	1	5	1
498497	Tppp2	2	3	3	7	3	7	7	10
500945	RGD1561795	1	2	1	1	5	1	1	2
79211	Gabrg3	4	1	0	5	7	2	5	4
103690166	LOC103690166	3.03	0	1.01	4.07	1.02	6.54	4	3.06
360737	Tbx1	30	23	40	14	56	37	61	40
290880	Adprh11	17	7	16	25	20	58	25	15
691688	Eid3	6	2.01	2.01	6.07	8.24	5.87	8.14	6.98
102549007	LOC102549007	1.02	1	2	1	0	4.98	0	4.14
499189	Wdr93	7	7	1	7	10	9	10	11
680899	Efcab12	4	1	5	1	3	8	7	2
684480	Btnl9	6	1	2	2	3	13	2	2
294279	Col11a2	210.73	199.7	201.59	301.61	225.5	948.3	203.8	284.03
25732	Acp5	54	87	128	85	82	448	67	47

108348181	LOC108348181	3.05	0	5.04	5.92	11.74	4.2	6.49	3.07
29609	Pitx3	7	9	3	9	12	13	15	11
310694	Fcrl2	9	16	38	19	13	19	13	105
100363171	LOC100363171	12	10	10	10	19	16	21	21
102550225	LOC102550225	1.02	0	0	0	0	0	0	1.87
294853	Krt18	4	1	0	1	5	1	1	4
298543	Crybg2	2	2	0	2	3	3	3	2
688126	LOC688126	5	4	1	2	4	4	8	6
100911914	LOC100911914	0	4.97	5.48	0	10.59	2.18	0	6.52
499463	RGD1561777	0	0	3.04	3.42	2.3	4.35	0	5.32
102550714	LOC102550714	4	10	2	4	10.02	12	5	10.06
25608	Lep	6	0	0	1	1	11	1	0
497840	Cps1	4	2	1	0	3	6	2	2
100360316	LOC100360316	3.88	3.91	4.81	0	0	11.45	11.97	0
103689962	LOC103689962	2.93	0	1.4	0	6.58	1.47	0	0
84387	Pglyrp1	23	16	28	6	46	32	40	18
498287	Slamf6	6	2	1.78	2	10	7	2	3
363088	Ccnb2	8.64	0	19.83	10.81	7.47	13.41	19.91	32.59
289322	RGD1564463	0	0	3.04	1	2.01	1.52	2.86	1.17
108349804	LOC108349804	0	1	0.89	0	0.78	1.03	0.65	1.08
298559	Tcea3	27	22	29	33	55	72	41	40
313891	RGD1304963	6	2	5	3	4	16	5	5
103690105	LOC103690105	61.52	0	18.26	14.58	56.94	32.12	52.43	35.57
100911917	LOC100911917	59.76	51.23	59.76	42.69	102.5	93.92	59.76	145.14
108348209	LOC108348209	5.52	0	0	0	2.56	3.74	4.1	0
50565	Hspb7	50	37	21	24	55	130	39	26
140939	Trim63	32	13	19	21	44	74	30	13
29191	Tac3	5	3	4	7	5	12	10	9
103690033	LOC103690033	4.25	0	2.41	0	5.24	2.13	5.26	0
100909879	LOC100909879	3.33	0	0.42	0.35	2.42	4.22	1.14	0
83504	K1	3	2	3	2	6	4	4	5
691392	LOC691392	4.52	3.44	2.76	1.15	7.15	2.72	7.69	5.03
313755	Mme11	3	3	5	10	6	16	10	8
100360218	LOC100360218	29.67	10.7	5.98	17.98	55.66	8.21	32.59	26.11
108350572	LOC108350572	1.26	0	3.21	0	2.29	2.19	2.46	1.58
100361098	LOC100361098	1.19	0	0	0	2.27	0	0	0
300795	Pclaf	4	4	11	3	12	10	11	9
315609	Cd3e	3	4	1	3	8	4	4	5
291312	Ucma	20	19	11	9	16	58	23	16
688109	Tmem239	2	2	4	4	8	2	5	8
407762	Krt85	1	2	1.77	2	1	5	2	5
292547	Vom2r28	1.04	0	0	0	0	0	1	1
293140	Olr35	5	1	4	5	6	6	8	9
305423	Clqtnf7	11	8.99	9.58	8	26.47	23.1	12.95	10.27
108353096	LOC108353096	0	2.14	0	0	0	2.06	2.1	0
100910173	LOC100910173	0	1.8	0	0	1.68	1.82	0	0
102554501	LOC102554501	6	2	2	8	8	13	1	13
302845	Magea11	4	3	5	6	9	11	6	9
102556277	LOC102556277	2.75	0.2	0	1.22	1.19	1.55	1.63	3.74
363111	Ripply2	8	3	4	4	9	13	7	8
685961	Sirpb211	0	0	2.75	0	2.37	1	1	1
689118	14-Sep	0.56	0	2	0	0	2	0	3
108348296	LOC108348296	1.13	0	0	0	1.11	0	0	1.1
680931	Bmp8a	1	3.01	0	1	1	4.8	1	3
108348827	LOC108348827	1	0	0	1.02	0	2.9	1.06	0
298111	LOC298111	2.1	1.23	1	0	2.37	1.03	5.09	0

306616	Myom2	256	348	253	274	357	848	396	624
102551433	LOC102551433	7	8	9	7	22	14	12	13
315567	Panx3	6	10	8	8	18	22	12	11
113902	Ces1d	23	6	1	5	8	44	11	6
100911492	LOC100911492	9.76	11.6	7.73	8.3	25.54	16.7	19.02	12.74
408216	Senp17	1.72	0	1.15	0	1.42	0	1.82	2.46
80878	Slc16a3	30.3	25.67	33.05	23.32	60.13	105	23.54	34.78
108348117	LOC108348117	5.96	0	0	0	11.86	0	0	0
108351411	LOC108351411	0	1	1.01	1.01	3	0	0	3.01
100911244	LOC100911244	0	0	1.01	0	1.01	1	0	0
680837	LOC680837	0	0	1.02	0	0	1.02	0	1.01
298107	Mup5	8.54	4.26	2	2.63	12.13	13.28	6.98	2.31
307851	Clec18a	2.02	0	2	2	2	1	3	6
108352197	LOC108352197	5	0	0	2	5	4	3.97	1
103689996	LOC103689996	0	15.62	0	7.81	7.81	23.42	7.81	7.81
100359483	Cylc1	0	0	0	1	0	0	1	1
100359720	Ankrd31	1	2	1	0	4	0	0	4
100359907	LOC100359907	0	0	0	1	0	1	1	0
100360091	Tmem207	1	0	1	0	2	0	2	0
100361588	Wdr95	0	2	0	0	1	1	0	2
100910060	LOC100910060	1	0	0	0	0	1	0	1
100910410	LOC100910410	1	0	0	0	0	0	2	0
102546514	LOC102546514	1	1	3	0	0	4	3	3
102547033	LOC102547033	0	1	0	0	1	0	0	1
102547119	LOC102547119	0	1	0	0	0	1	0	1
102551428	LOC102551428	0	1	0	0	0	1	0	1
102551453	LOC102551453	4	6	1	2	2	7	4	13
102552195	LOC102552195	0	1.05	1.05	0	0	0	1.04	3.16
102552569	LOC102552569	0	1	0	0	1	0	1	0
102552627	LOC102552627	0	1	0	0	2	0	0	0
103691634	LOC103691634	1	0	0	0	1	0	0	1
103693129	LOC103693129	1	2	2	0	1	3	1	5
103693291	Nhlrc4	0	0	2	1	1	2	1	2
108348129	LOC108348129	0	0	0	1	1	0	0	1
108348134	LOC108348134	0	2	0	0	1	0	3	0
108350819	LOC108350819	0	2	1	0	0	1	3	2
108352186	LOC108352186	1	0	0	0	0	1	0	1
108352306	Smim34a	0	1	0	0	0	0	1	1
108353095	LOC108353095	0	0	0	1	0	1	1	0
114598	Clec4f	1	3	0	2	1	2	3	6
116556	Gucy2f	0	1	0	0	0	1	1	0
117130	Grifin	9	4	4	1	4	19	7	6
171375	Atp5f1	0	0	0	234.1	0	0	234.1	234.1
171516	Akr1c3	1	0	0	1	1	0	2	1
171551	Cxcl3	1	0	1	1	0	0	5	1
171573	LOC171573	0	0	0	2	1	0	1	2
24152	Asip	0	1	0	0	2	0	0	0
24291	Ctrb1	0	1	0	1	0	2	1	1
24391	Gh1	1	0	1	0	0	2	2	0
246238	Bpifal	0	0	1	0	0	1	1	0
24817	Hnf1a	0	1	0	0	1	0	0	1
25048	Klkb1	1	0	0	0	1	0	1	0
25195	Drd5	0	1	0	0	1	0	1	0
25268	Proc	1	0	1	1	2	2	2	0
252856	Tcf21	0	1	1	1	2	0	1	3
25320	Gast	1	1	1	0	0	2	1	3

25534	Prph2	0	0	1	0	0	0	0	2
25723	Hcrt	0	1	0	0	0	1	1	0
266707	Gjd4	0	0	1	0	1	1	0	0
286954	Ugt2b1	0	1	0	0	2	0	0	0
287034	Tnfrsf17	0	2	1	1	3	1	3	1
287425	Alox12b	0	0	1	0	1	0	1	0
287673	Ccr7	0	1	3	2	2	8	2	0
287935	RGD1308065	1	0	2	1	4	2	1	1
288375	Cd209a	0	0	1	0	0	1	1	0
289254	Olr1592	0	0	1	0	0	0	0	2
290670	Tssk6	2	2	5	6	9	10	6	5
291087	Serpnb6e	0	2	0	0	1	1	2	0
29235	Galr3	0	1	0	0	1	0	0	1
29251	F2	0	0	3	0	2	1	3	0
292706	Tescl	2	1	1	0	0	5	1	2
29319	Gif	1	0	0	0	0	1	0	1
293303	Olr156	0	1	1	0	2	0	1	1
294301	Armc12	1	0	1	0	1	0	2	1
29475	Dio3	3	0	1	0	3	0	3	2
295010	Pabpc41	1	2	2	3	1	3	7	5
295071	RGD1559622	0	0	1	0	0	1	1	0
29538	Ccl20	0	1	0	0	0	0	0	2
295710	Olr439	1	0	0	0	1	0	1	0
295929	Mybpc3	0	0	1	0	2	0	0	0
296730	Crygn	0	0	2	1	1	1	3	1
298306	Cdcp2	0	0	1	1	0	2	1	1
301120	Acsbg2	0	0	0	1	1	0	0	1
301510	Rufy4	0	4	2	0	3	5	3	1
302962	Zscan10	1	0	0	1	1	1	1	1
303205	Slc5a10	0	2	0	0	1	1	1	1
303252	Alox12e	0	1	2	0	5	1	0	0
304103	Olig2	0	1.01	1.14	2.18	3.2	0.99	2.31	2.16
305719	Fezf2	1	0	0	0	2	0	0	0
305908	Rnf17	0	0	0	1	0	1	0	1
307614	Cdh16	1	0	0	0	0	2	0	0
310782	Mybph1	1	0	1	2	4	1	0	3
313681	Lrrc38	1	2	1	2	3	5	0	4
314959	RGD1359449	0	0	1	0	0	1	0	1
315497	Tbx20	0	0	0	1	1	1	0	0
363654	Tmigd1	1	0	0	0	0	2	0	0
363866	Rxfp2	3	0	0	3	1	3	6	2
364883	Cdx1	0	1	1	1	4	1	0	1
365153	Tcte3	1	0	0	1	1	1	0	2
365332	Olr152	0	1	0	0	0	0	0	2
366275	Ptk6	0	0	0	1	0	0	2	0
366347	Cfap206	1	1	2	2	1	1	4	6
366377	Olr854	1	0	0	2	0	0	2	4
367415	Pla2g12b	1	0	0	0	1	0	1	0
367994	Upk3b11	0	0	0	1	0	1	1	0
405335	Olr1366	0	1	1	0	2	1	0	1
408213	Tmprss11c	0	1	0	0	0	1	0	1
408225	Wfdc6b	0	0	0	1	0	1	1	0
494249	Vomlr87	0	0.5	0	0	0	0	1	0
494303	Vomlr42	0	0	1	0	0	0	2	0
498231	LOC498231	2	3	0	1	4	2	2	4
498316	LOC498316	0	0	0	1	0	0	1	1

498534	RGD1565212	0	0	1	0	0	1	1	0
498985	Themis	1	0	0	0	1	0	1	0
499135	MGC114499	0	0	1	0	1	1	0	0
499279	Tex36	1	0	0	0	0	0	2	0
499334	RGD1560242	1	0	2	1	1	1	4	2
499618	Ccdc169	0	0	1	0	2	0	0	0
499993	Tex47	1	0	0	0	0	0	2	0
500761	Apof	1	0	0	0	1	1	0	0
501797	Cd209e	1	0	0	1	1	0	1	2
502960	RGD1561827	0	0.5	0	0	1	0	0	0
502963	RGD1564637	0	0.5	0	0	1	0	0	0
50549	Cyp4a1	0	0	1	1	1	1	1	1
54246	Cyp2f4	2	1	0	0	2	2	1	1
59305	Tcam1	0	1	0	0	1	0	0	1
60583	Ivl	1	0	1	0	2	1	0	1
64564	Bbox1	1	3	1	1	4	3	2	3
65048	Fat2	2	0	0	0	2	0	1	1
66014	Impg1	0	1	0	2	2	0	1	3
680378	Prss47	1	0	0	1	0	0	1	3
680489	Cldn34e	0	0	1	1	1	2	0	1
680640	Ceacam19	0	1	0	0	2	0	0	0
680794	Timm8a2	0	0	1	1	1	1	1	1
682329	Nkx3-2	0	2	0	0	0	4	0	0
685360	En1	1	0	0	3	2	5	1	0
685758	A4gnt	0	1	0	0	2	0	0	0
685999	Uroc1	1	0	0	0	0	1	1	0
688333	Ptchd3	1	2	1	0	3	0	2	3
688422	Dydc2	0	0	1	0	0	0	1	1
688536	Glyat13	0	1	0	0	0	1	1	0
689561	LOC689561	1	0	0	0	0	2	0	0
690028	I131	0	1	0	0	0	0	1	1
690483	LOC690483	1	0	0	0	0	2	0	0
690691	Vom2r16	0	0	1	0	0	0	1	1
691189	LOC691189	1	0	0	0	0	1	0	1
311639	Zfp334	3	2	2	3	7	6	4	3
100909725	LOC100909725	0	4.5	4.5	4.5	4.5	13.51	4.5	4.5
363276	Snorc	23	21	15	13	14	90	21	20
103692758	LOC103692758	0	2.02	1.9	3.11	0	3.91	4.24	6.01
103694169	LOC103694169	0	20.49	0	43.12	0	74.18	53.96	0
103692344	LOC103692344	2.47	0	0	0	1	0	1	3
108350550	LOC108350550	4.94	13.48	13.91	5.73	21.24	12.29	17.75	25.85
108350604	LOC108350604	0	5.34	0	4.54	3.6	7.18	9.29	0
103690190	LOC103690190	6.16	6.2	7.47	3	12.35	9.27	14.8	10.01
29462	Avpr1b	8.66	8.66	2	4.33	12	15.15	10	11
295538	Depdc1	6	9	8	3	16	17	9	11
102547798	LOC102547798	3.48	0	0	1.07	2.18	2.82	2.11	2.23
108353206	LOC108353206	0	0	12.27	0	7.61	7.83	0	9.86
295426	Myoz2	7	12	12	10	30	30	12	13
100911669	LOC100911669	0.66	1.02	0.69	1	0.25	1	4.06	1.68
29385	Cxcr2	5	9	21	2	28	22	16	11
102554581	LOC102554581	0	2.23	0	0	0	0	4.66	0
103690296	LOC103690296	0	3	4	4	10	7	4	2
25172	Gata1	4	6	11	1	19	14	7	6
29387	Pla2g2c	0	4	2	5	7	6	5	5
301711	Lrrc30	3	3	2	3	4	12	5	2
363899	RGD1562525	0.28	0	2.61	0	0	0.44	3.82	1.8

100362169	Fam170b	5.39	4	4	9	9	12	13	13
690158	Fpr2	4.02	6	7	2	6	11	11	11.94
295091	Vom2r46	0	0	1	0	0	0	2.1	0
100910503	LOC100910503	1.08	0	0	0	0	0	2.28	0
100910446	LOC100910446	0	0	111.5	0	59.21	95.39	81	0
367316	Aqp12a	1	8	3	5	9	14	7	6
102546754	LOC102546754	2.18	2.53	3.35	3.34	11.19	5.49	2.87	4.62
108348326	LOC108348326	67.02	26.28	21.59	13.18	15.4	56.45	18.21	181.57
360478	Smim22	2	4	2	0	5	5	1	6
367318	Ano7	1	4	1	2	0	4	4	9
29275	Actc1	2.01	2	2.01	2.02	4.04	9.06	1	3
100361261	Gzmb13	1.52	3	1	2	3	4	4	5
501233	LOC501233	0.41	0	1	0	2	0	0	1
313220	Acnat2	3.24	0	1.68	1.15	1.16	1.87	3.9	5.99
680615	Hist1h2ak	1.12	0	0	0	1.11	0	1.28	0
365949	LOC365949	36.62	54.14	10.28	30.28	46.7	48.77	93.65	91.25
691312	Cyp4f37	3.94	0	3.26	3.09	2.85	8.11	5.63	5.44
498274	Spata46	4	1	0	2	4	2	5	4
29576	Wisp2	32	27	15	32	101	65	39	24
499796	LOC499796	1.01	0	4.03	0	2.94	4.02	1	2.93
365550	Vpreb3	13.47	6.38	11.46	5.02	25.34	35.16	9	9.11
292279	Nox3	3	2	0	1	3	5	3	2
302619	Gpr143	3	0	3	0	4	2	4	3
364039	Mael	2	2	2	0	0	2	10	1
500336	Clec1b	2	3	1	0	9	2	2	0
170840	Slc40a1	35.56	28.99	18.99	36.42	35.42	59.85	80.42	85.14
29155	Capn3	11	23	29	22	44	84	25	32
246334	Tp63	1.88	1.89	0.72	2.98	4.45	3.91	4.9	3
100125384	LOC100125384	2.62	0	0	0	0.86	0	3.24	1.62
100359675	Alpp	3.2	0	0	2.04	2.08	4.26	3.1	2
360742	Dgcr2	0	0	0	39.98	87.3	0	0	0
685216	Wfdc10	1	2	2	0	3	4	2	2
685788	LOC685788	1	0	4	0	2.01	0	7	2
500823	Ccdc38	2.02	4.59	0	3.04	5.1	6	4.11	6.09
303468	Sgca	6	14	17	10	15	69	14	6
315111	Apol2	0	4.06	15.36	0	22	10	5	6
102554207	LOC102554207	0	2.5	4.31	3	1.5	9.74	7	3.5
287382	Mfap4	297	110.04	134.04	126.39	526	422.8	337.4	198.7
362662	Rbp7	11	7	3	4	9	19	19	9
500023	Dlx6	3	0	1	0	3.18	1	1	3.81
108353015	LOC108353015	1	1	0	2	3	1	2	3
25386	Aqp2	0	0	4	0	3	2	3	1
303533	Klh110	0	0	3	1	3	1	4	1
500319	Tuba3a	1	1.67	0	1.33	0	2	4	3
500415	Lrrc69	1	1	0	2	5	3	1	0
500946	Heph11	1	0	2	1	1	3	2	3
365368	Il27	1.11	2	0	0	1	1	2	3
171390	Nlrp6	0	2.6	0	1.75	0	0	2.43	7.43
299606	Elane	20	6	19	0	41	30	16	15
303373	Unc45b	14	10	14	13	36	49	14	17
103689995	LOC103689995	7.37	3.36	0	0	3.95	3.23	11.95	5.31
291084	Nqo2	77	69	69	304	288	243	67	585
100361756	LOC100361756	0	0	0	1.2	0	2.19	0.55	0
100909701	Ccer2	7	6	0	1	8	9	5	10
102551468	LOC102551468	2.11	0	0	1.05	2.1	1.02	1.04	3.08
102546845	LOC102546845	0	0	3.03	0	2.25	2.66	1	1.08

499923	Efcab8	19	12	14	7	37	19	12	52
108353264	LOC108353264	2	1	0	0	1	5	0	1
24236	C4bpb	2	3	0	1	2	2	5	5
29190	Pdyn	0	4	4	1	4	5	4	8
297748	Jph1	20	12	17	17	41	80	18	15
298397	Olr833	2	0	1	0	1	0	1	5
310443	Gpr87	0	2	0	1	0	2	4	1
310632	Rab25	0	0	2	1	1	3	3	0
405020	Olr1353	0	1	1	1	3	2	2	0
500052	Hyal5	1	1	1	0	2	1	3	1
502759	Nobox	1	1	0	1	2	1	0	4
59112	Hand1	1	0	2	0	3	1	1	2
64574	Chrna10	1	1	1	0	3	1	1	2
678708	LOC678708	0	2	1	0	2	2	2	1
688605	Cc11	1	0	2	0	0	2	0	5
690116	Rgs11	0	1	1	1	1	0	3	3
690139	Rbm24	2	7	7	14	17	34	15	4
690813	LOC690813	0	2	7	0	4	5	5	7
689713	LOC689713	0.85	0	0	0	0	0	1	1
100909409	LOC100909409	4.47	0	2.57	0	6.65	0	6.57	3.41
317308	Zfp3613	1.09	1.23	0.88	1.08	7.15	1.08	1.08	0.86
286965	Abra	11	32	5	28	42	69	44	26
85258	Cnga4	4.61	1.12	5.65	5.65	18.98	9.92	6.89	4.77
102554312	LOC102554312	0	1.56	1.8	0	1.66	3	3.36	0
361003	Dupd1	10	8	5	8	17	40	6	11
102552901	LOC102552901	1.59	0	1	2	0	4	2	5
102547755	Dbf4b	1	2	1	1	7	1	2	2
171045	Mmp3	0	2	3	0	1	4	6	1
365778	LOC365778	1	3	2	4	3	5	6	10
499719	Stpg2	5	2	2	1	7	3	6	8
60332	Akap14	1	1	1	2	4	3	2	3
79110	Mepe	2	3	3	2	4	12	3	5
294071	Hells	7.38	3.53	24.62	0	28.65	19.48	27.29	10.23
84576	Hdac11	0	1.19	0	0	1.73	0	0	1.15
24631	Rhox5	1	2	2	2	3	10	1	3
65204	Cnn1	45	21	7	8	27	116	36	18
315962	Ky	24	25	20	39	79	122	32	30
102555476	LOC102555476	0	0	6.4	0	1.49	0	7.51	6.63
309374	Ankrd2	3	0	4	2	7	14	0	1
25334	Bhlha15	2.96	5.08	2.4	4.15	7.29	12.94	6.42	9.08
682419	LOC682419	1	0	0	0	1.45	0	1	0
81687	Mmp9	52	46	90	9	126	247	70	47
108351743	LOC108351743	0	3.05	0	2.03	7.09	4.06	0	1.53
65133	Aqp3	2.22	1.25	3.06	1.2	7.59	5.33	2.36	4.04
100911186	LOC100911186	42.93	0	0	42.93	128.8	42.93	0	42.93
100190895	Rhox3	0	1	1	0	1	1	1	2
100362644	Slc2a7	3	0	3	2	5	10	4	1
100911278	LOC100911278	1	0	0	1	1	2	2	0
171059	Wfdc18	1	0	1	0	0	0	4	1
289439	Lpcat2b	0	0	1	1	0	1	2	2
294210	Trim10	7	1	9	3	14	19	9	8
29679	Cst8	0	2	0	0	0	1	0	4
301168	Efhb	2	0	2	0	1	2	4	3
366598	Ferd31	1	1	0	0	3	0	2	0
406226	Krt77	1	2	0	1	1	2	4	3
414826	Tesb	3	1	2	2	5	10	4	1

498992	Vnn3	1	0	1	0	2	1	2	0
60394	Olig1	0	1	0	1	1	1	1	2
63850	Prlh	0	1	1	0	2	2	1	0
685513	Gngl4	0	0	1	1	0	2	2	1
690288	Dnah14	0	0	2	0	3	0	1	1
24585	Myl3	15	9	9	12	42	54	4	13
396527	Ugt1a2	0	0	3.16	0	4.79	3.17	0	0
29266	Mcpt2	0	1.03	1.02	0	1.06	1	3.13	0
687679	LOC687679	0	0	15.37	0	0	10.87	17.13	10.98
690729	Vom2r19	1.33	0	1.03	1	2.55	4.47	1.51	0
103691235	LOC103691235	1	3	3	2	4	8	7	4
24296	Cypl1a1	1	3	2	1	2	6	8	2
301039	Susd5	17	13	6	10	8	84	16	11
102555557	LOC102555557	0	22.35	0	46.36	92.51	26.52	18.23	41.37
102557303	LOC102557303	0	2	2	1	1	6	1	5
108352185	C10H10orf95	0	0	0	1.13	2.95	0	0	0
296153	Tmc2	3	0	3	7	8	14	3	9
103692784	LOC103692784	0	1.43	1.34	0	2.55	1.33	3.37	0
108349865	LOC108349865	0	7.62	0	0.38	7.68	6.15	7.13	0
100911527	LOC100911527	0.7	0	0	0.7	2	0.7	1	0
102550585	LOC102550585	2.69	2.19	1.5	0	6.37	5.14	3.88	1.61
102554647	Pasd1	2	0	0	1	3	2	1	2
301611	Olr1349	0	1	1	1	2	1	3	2
494343	Tacstd2	0	0	1	2	2	1	2	3
64190	Fxyd4	1	1	0	1	1	1	2	4
682010	MGC93861	0	0	1	2	1	4	0	3
691636	Tex22	0	2	0	1	2	0	3	3
103690046	LOC103690046	0	0	6.56	0	0	0	17.7	0
361080	Ppial4g	3.01	1.19	1.19	1.18	7.75	1.4	4.17	4.54
289482	Naal1	13.9	10	5	10	6	16	62	21.96
317608	Gpr101	1.21	0.78	1.01	0.57	3.02	4.38	2.4	0
366142	Elf5	0	2	1	1	1	3	3	4
103693370	Gsg112	1.18	0	2.26	0	2.65	1.21	3.35	2.26
297339	Capg	267	375	525	241	821	1270	1121	677
100360575	LOC100360575	3.01	0	3.58	1.59	6.97	2.25	9.38	4
29195	Chad	33.13	25.15	33.21	19.37	24.29	241.4	22.03	20.1
113917	Lenep	1.4	0	0	1.06	1.23	1.32	1.41	2.88
499461	Wisp3	1.88	5.52	1.85	2.16	3.55	11.62	7.85	8.77
24610	Odf1	2	0	3	0	3	3	3	5
25357	Thrsp	27	3	0	0	1	62	19	2
301378	Mettl21c	0	2	2	1	6	8	0	0
100359528	RGD1565987	14.95	1.07	0	9.36	18.15	11.74	41.36	0
680665	Fcrl1	4.08	0.7	2.86	0	7.05	7.16	3.66	3.68
103689937	LOC103689937	6.62	0	3.47	3.24	6.19	14.51	7.39	9.55
294097	Lipol	0	0	1.01	1.03	1	2.01	0.76	2
57809	Rpl35a	0	0	44.01	0	0.03	19.9	0	105.26
287099	Cldn9	1	1	1	0	2	2	1.55	3
100910755	LOC100910755	0	8.49	0	7.83	13.41	11.34	11.53	10.6
171333	I112rb1	2	3	1	2	7	10	3	3
690861	Stk33	1	3	1	3	4	9	3	7
102549061	LOC102549061	1.68	3.68	2.21	0	1.33	9.04	6.25	5.18
308056	RGD1311933	0	1	0	0	0	0	0	2.88
686087	LOC686087	0	0	25.09	0	0	73.25	0	0
501129	Tmem182	3	8	6	11	18	47	6	11
304447	RGD1559821	0	2.13	3.02	1.22	1.23	7.28	6.77	3.48
295261	Tmod4	38	31	42	28	78	248	37	48

299266	Asb2	20.21	16	32	34.94	82	152	33	38.32
84022	Ghsr	9	5	10	5	8	39	35	4
246298	Retsat	650	677	650	601	2129	2060	2137	1349
502999	RGD1563334	0	0	1	0	0	1.99	1	0
100910138	LOC100910138	0	5.55	0	0	0	0	5.52	11.11
100361147	Mkrn2os	0	1	0	0	0	0	2	1
100365542	LOC100365542	1.34	0	0	0	3	1.02	0	0
100911101	LOC100911101	0	0	1	0	1	1	1	0
102550438	LOC102550438	0	0	1	0	1	0	2	0
102557053	LOC102557053	0	0	1	0	1	0	1	1
108348486	LOC108348486	2	0	1	0	5	2	1	1
108349752	LOC108349752	1	3	1	3	8	9	6	1
116694	Capn9	0	1	1	0	3	1	2	0
117097	Gpr50	0	1	0	1	3	1	1	1
192206	Prok2	1	0	0	0	0	1	2	0
24493	I11a	1	0	1	0	0	0	4	2
25598	Fabp2	1	0	0	1	4	0	2	0
27150	Kcnh3	0	0	1	0	2	1	0	0
287358	Prss38	1	0	2	1	2	1	7	2
287646	Tt116	0	1	0	1	2	1	1	2
288117	Slc9c1	0	1	0	0	2	0	0	1
291678	Wnt8a	0	1	0	0	1	1	0	1
291955	Ces4a	0	1	0	0	0	2	1	0
292126	Habp2	1	0	0	0	0	0	2	1
292477	Adgb	0	2	0	1	4	2	1	2
292858	Klklc10	1	0	0	0	0	2	0	1
295019	RGD1307595	2	1	2	0	3	7	2	3
296289	Sun5	0	1	0	0	0	1	0	2
298581	Pla2g2e	0	0	0	1	2	0	0	1
300199	Olr1106	0	1	0	0	0	1	0	2
301626	Pdcd1	0	0.5	0	0.5	1	0	1	1
304917	Serpinc1	0	0	1	0	0	0	2	1
304991	Olr1596	0	0	0	1	1	2	0	0
308303	Vom2r23	0	1	0	0	1	2	0	0
311505	Pax1	2	4	1	0	1	14	5	1
312102	Vsig4	1	1	0	0	1	1	3	1
314221	Six6	0	1	0	0	1	1	0	1
316579	Csprs	0	1	1	0	3	1	0	2
406018	Olr1734	0	0	0	2	2	2	1	1
500292	Cidec	14	5	3	3	1	58	14	2
500294	Fancd2os	1	0	0	0	0	0	3	0
502918	Slc15a5	1	0	0	0	1	0	1	1
679219	Esx1	1	0	0	0	1	1	1	0
679509	Vrtn	0	0	0	1	2	1	0	0
681924	Noxred1	1	0	0	0	0	1	1	1
685229	Tal2	2	0	0	3	3	2	4	6
688884	Gpr152	2	1	0	0	1	3	4	1
689709	Frdm1	0	0	0	1	1	0	1	1
690311	LOC690311	0	0	0	1	1	0	1	1
691668	Gzmn	0	0	0	1	2	0	1	0
79224	Serpind1	0	0	1	0	0	1	0	2
81509	Bdkrb1	1	0	0	1	1	4	1	0
83808	Ugt2b35	0	1	0	0	1	2	0	0
84608	Slcola6	1	0	1	0	2	2	2	0
100909600	LOC100909600	0	0	3.25	0.75	5.75	2.51	0	3.75
301521	Cfap65	0	0	2	0	2	1	0	3.02

103691392	LOC103691392	3.26	3.77	2.06	0	4.07	8.13	4.87	10.38
100361090	LOC100361090	1	0	0	0	0	0	2.01	1.01
24583	Myh3	15.01	11.66	12.91	13.54	21.62	118	6.88	14.19
685128	Gkn3	0	0	0.83	1.19	2	1.21	1.71	1.21
25053	Cyp2d2	0	0	0	2.31	1.65	1.09	1.11	3.18
100911331	LOC100911331	0	0	1	0	0	1.01	2.06	0
498579	RGD1564899	14.99	24.12	27.98	24.98	54.95	192.9	19.07	17.23
100361693	LOC100361693	0	0	0.77	0	0	0	0	2.38
680551	Apoc4	4	0	2	4	9	8	8	6
684993	Ppp1r35	0	87	48.46	0	102	115	109	94
102557105	LOC102557105	0	4.08	1.99	4.84	8.87	13.2	11.8	0
102551626	LOC102551626	0	4.55	0.87	5.17	15.94	7.14	9.96	0
25412	Col2a1	693	1025	903	812	642	8645	666	991
304349	RGD1559588	3.42	1	4.18	2.02	15.17	4.25	2	12.66
103690980	LOC103690980	11.17	0	0	0	18.42	4.9	0	12.56
365298	Alpk3	29	19	13	25	71	171	19	17
498299	Lefty1	1.02	1	1	1	4	3	3	3
691546	LOC691546	0	0	1.39	1.36	4.8	0	1.35	2.75
679629	Smtnl2	7	11	9	6	31	56	13	7
29660	Pnck	2	2	0	0	3	4	3	3
366671	Fam71d	0	1	1	2	3	5	1	4
361214	RGD1561671	0	0	0.7	0	0	0	1.36	0.92
108352370	LOC108352370	0	0	3.88	0	4.23	3.36	2.41	2.73
100912534	LOC100912534	126.58	0	58.41	0	160	126.6	126.6	196
103693502	LOC103693502	0	0	0	4.17	13.76	0	0	0
25629	Plin1	23	2	1	3	2	67	23	4
24477	Ibsp	44	59	42	43	111	422	56	42
294341	Slc5a4	0	0	2.33	0	7.84	0	0	0
680319	Tceal7	6	2	9	4	17	48	3	3
295531	Tnni3k	18	23	27	23	20	77	148	64
304913	Tnn	3	7	3	2	8	35	6	2
25365	Actg2	49	9	9	8	35.32	160	46	15.06
24959	Pgam2	79	76	91	104	320	681	107	96
100911769	LOC100911769	0	1.92	3.75	0	4.39	0.48	14.81	0
100362054	LOC100362054	1	0	1	0	3	2	2	0
114596	Wap	0	1	0	1	1	0	5	1
25539	Sag	0	1	1	0	1	1	4	1
25645	Adrb3	0	2	0	0	1	5	1	0
290325	Nuggc	1	0	1	0	0	4	1	2
295322	Vtcn1	0	0	2	0	2	3	1	1
297795	Npbwr1	0	1	1	0	0	4	2	1
316616	Iqca1	2	1	0	1	2	5	4	3
366463	Oxct2a	0	1	0	1	1	3	3	0
499132	Rgs9bp	1	1	0	0	2	1	3	1
500820	Slc5a8	1	1	0	0	1	3	3	0
680702	Ripply1	1	0	0	1	0	3	1	3
140727	Cacng6	1.83	1.6	2.11	5.46	13.57	21.52	3.08	1.17
690147	LOC690147	0	1.12	1.56	0	0	0.78	4.42	4.42
100910104	Xirp1	7	14.45	4.16	8	22	73	13	13
102553868	LOC102553868	0	0	0	3	2	9	0	0
304551	Myo18b	12.14	15	18	17.66	61	137.9	15	16.55
114108	Pdlim3	38	32	29	26	110	288	42	19
29353	Phkg1	5	1	10	3	21	39	5	5
102550211	LOC102550211	3.88	0	1.54	0	7.82	3	3.55	5.65
305675	Synpo21	25.76	17.7	19.06	27.57	85.91	183.6	41.66	22.29
678817	LOC678817	1	0	0	0	0	1.71	0	2

685048	LOC685048	3.42	1	0	2.02	6.77	2.55	2	12.65
310552	Sfrp2	34	7	4	6	94	39	44	13
100364457	LOC100364457	42.84	0	0	0	47.73	0	85.69	27.16
500453	Pax5	4	1	3	1	10	15	7	2
100363454	LOC100363454	0	0	0	2.5	2.23	0	0	7.25
292461	Raet11	0	0.94	0	0	2	1	0	0.57
116648	Phox2a	2.01	2.01	2.02	0	14	4	2.01	3.01
79451	Fabp4	108	7	17	7	43	380	88	23
308637	Ano5	10	7	4	11	31	75	12	5
311167	Smtnl1	7	4	4	7	17	56	4	8
84594	Nfs1	36.72	130.25	107.39	16.54	157.6	913.8	24.74	35.58
684984	Cd3001g	1	13	0	10	0	20	51	23
365241	Kcna7	6	5	4	2	13	46	4	4
366245	R3hdml	3	9	8	2	6	63	5	13
363830	Vpreb2	0.48	5.48	0	0	4.12	7	8	4.47
499670	RGD1560263	0	0	3.26	3.03	7.66	0	13.69	3.66
102556672	LOC102556672	1.31	0	0	0	0	3.03	2.19	0
100911800	LOC100911800	1.52	0	0	0	0	1.52	2	2.55
103693243	LOC103693243	0	0	1	0	1	0	2	1
103695172	LOC103695172	0	0	0	1	4	0	0	0
108348301	LOC108348301	1	0	0	0	1	0	1	2
116506	Calcr	0	0	0	1	2	2	0	0
171497	Sgk2	1	0	0	0	1	1	1	1
24422	Gsta2	0	0	1	0	1	3	0	0
246250	Retn	6	1	1	0	5	19	7	1
25376	Ambn	0	0	0	1	0	2	2	0
25457	Gpr1	0	0	1	0	0	2	0	2
289565	Arl9	1	0	0	0	2	1	0	1
289949	Fam3d	0	0	0	1	1	0	2	1
293267	Hbel	1	0	0	0	2	2	0	0
294661	S100z	1	0	0	0	1	0	1	2
298320	RGD1561445	0	0	1	1	3	2	1	2
300202	Olr1107	0	1	0	0	0	3	0	1
300207	Tex49	1	0	0	0	0	2	0	2
303491	Hoxb1	0	1	0	0	0	1	1	2
306356	Cilp2	6	5	5	1	17	39	8	4
308794	Cfap161	2	0	0	0	5	1	1	1
312913	Cpa6	0	0	1	1	2	4	1	1
313936	Fam228a	0	0	0	2	2	3	1	2
353228	Zar1	0	0	0	1	2	1	0	1
500800	Ccdc105	0	1	0	0	0	3	1	0
501199	Tmem232	2	0	0	0	2	3	2	1
502731	Vwde	0	0	1	0	0	0	2	2
50683	Sftpc	1	0	0	0	0	1	1	2
680018	Ccdc36	1	1	0	0	2	2	4	0
685099	Meiob	0	0	0	1	1	0	1	2
685303	LOC685303	0	0	1	0	0	1	2	1
690282	Tex28	1	0	0	0	0	1	2	1
103693423	LOC103693423	0.99	0	0	1	4	2	2	0
100912611	LOC100912611	0	0	2.09	1.46	1.22	6	4.42	2.81
100361007	Adig	3	1	1	3	3	21	6	3
502573	RGD1562104	0.99	0	0	0	0	1.65	2.48	0
100909462	LOC100909462	0	0.26	0.33	0	0	0	2.47	0
296345	Jph2	24	15	38	26	94	290	36	13
297333	Smyd1	14.55	19.48	10.17	26.36	89.11	171	22.51	15.73
337868	Myod1	1	0	1	3.2	4	11	6	1

102555947	LOC102555947	0	0	0	1.06	2.73	0	1.77	0
298795	LOC298795	0	3.17	0	5.26	11.63	11.17	3.9	9.25
100910102	Catsperb	1	1	1	3	7	5	9	5
64104	Tnmd	2	0	1	0	1	10	1	1
680432	LOC680432	0	0	0	1	2.81	1.53	0	0
102554718	LOC102554718	0	0	0.23	0	0	1	0	0
613222	Defa7	0	0	2.43	0	2.27	2.6	3.47	2.24
686092	Tmem258b	1.62	0	0	0	2.09	3.4	0	1.58
102555814	LOC102555814	16.27	9.52	11.8	11.11	56.78	122.4	21.93	11.55
64362	Des	98	98	139	78	435	1171	121	104
298139	LOC298139	2.85	2.02	3.04	2.02	7.06	27.22	6.09	4.05
100364062	LOC100364062	6.92	0	0	4.88	19.47	21.83	7.58	4.03
103694424	LOC103694424	0	2	0	0	2	5	1	1
24498	Ii6	0	0	1	1	1	3	4	1
29148	Myog	0	1	0	1	4	4	0	1
306281	Ptpn20	0	1	1	0	3	0	4	2
310586	Flg2	0	1	1	0	1	4	3	1
501675	Tmem114	2	0	2	0	4	5	2	7
680019	Trim38	0	2	0	0	2	1	2	4
500450	Tpm2	255	195	224	190	792	2688	299	179
309760	Mypn	10	16	4	12	46	112	22	13
103689994	LOC103689994	0	0.9	0.89	0	3.91	1.47	2.88	0
501934	LOC501934	1.82	0	0	0	1.76	1.41	3.63	1.6
316740	Myom1	21	14	25	27	108	238	26	31
364147	Yipf7	1	1	0	1	4	7	3	0
305941	Sgcg	6	1	4	0	10	35	4	3
171409	Tnnt1	6	5	5	4	32	48	8	7
688862	Ip6k3	3	1	1	3	8	23	6	1
102554988	LOC102554988	0	0	2.83	0	2.93	8.87	1.89	0
102550797	LOC102550797	0	0	0	1	0	2.15	2.69	0
24785	Slc9a4	1.03	0	0	0	0	2	0	3
301518	Prkag3	4	6	2	2	21	37	7	3
25295	Bglap	44.01	43.12	26.35	19.8	130.2	450.1	39.9	31.9
308779	Fsd2	5	1	2	2	18	28	0	3
338458	Obscn	23	24	35	44	166	381	39	32
56824	Ifit1	3.13	3.2	4.38	2.19	4.29	3	54.29	2.13
108351974	LOC108351974	0	1	0	0	1	1	2	1
29173	Csn2	0	0	1	0	1	1	1	2
293832	Magea10	0	1	0	0	1	0	3	1
29605	Myh13	0	1	0	0	1	1	2	1
299271	Serpina16	1	0	0	0	0	1	2	2
300923	Nup62c1	1	1	0	0	3	2	3	2
500257	Chst13	1	0	1	0	7	1	1	1
500574	Pax7	1	0	0	0	0	4	1	0
501023	Gfral	0	0	0	1	1	1	1	2
64637	Hand2	0	0	1	0	4	0	1	0
681901	Utf1	1	0	0	0	0	2	3	0
100911132	LOC100911132	0	0	0	1	3.01	0	2.01	0
292316	Smok2a	0	0	0	1	1.51	1.44	2.17	0
365377	Trim72	10	9	11	6	40	122	13	10
302827	LOC302827	0	0	1	0	2.06	1	2.08	0
108348213	LOC108348213	0	0	1.97	0	3.51	2.8	0	3.92
287881	Ppplr27	1	1	1	0	2	12	2	0
301226	Apobec2	15	5	10	7	55	120	16	7
361002	Duspl3	2	3	3.59	6	16.24	53.29	8	1.08
307100	Calml3	7	0	0	0	1	27	10	0

246253	Adipoq	40	2	0	2	1	200	39	2
499972	Asb10	0	2	1	1	6	13	2	1
362708	Trim54	10	5	3	6	32	93	3	6
102552549	LOC102552549	0	0	9.78	0	17.48	9.62	17.45	10.71
367059	RGD1563738	0	0	0.62	0	1	0	1.53	1
100912471	LOC100912471	3.54	4.68	0	0	5.96	0.85	36.5	4.8
684988	LOC684988	0	17.97	0	0	18.01	53.87	17.71	16.41
108352829	LOC108352829	9.01	0	0	0	27.02	9.01	9.01	9.01
100910280	Sdr42e2	0	1	0	0	1	3	0	2
102546663	LOC102546663	0	0	0	1	0	2.84	2.16	1
114098	Ltb4r2	1	0	0	0	1	3	1	1
116462	Ptcra	0	0	0	1	0	0	4	2
116472	I117b	0	1	1	0	2	7	1	2
317268	Arx	0	0	0	2	1	10	1	0
365751	Trim55	2	2	0	0	8	14	2	0
499759	Ccdc187	1	0	0	0	2	3	0	1
690388	Pla2g2f	1	0	0	0	0	1	5	0
691300	RGD1565323	0	0	1	0	0	6	0	0
84396	Atp1b4	0	2	2	0	0	19	1	4
287122	Rpl31	5	6	10	7	46	102	13	13
294053	Ccnj	1.82	0	33.73	0	98	58.5	0.07	68
303556	Lrrc37a	0	0	0	1.17	1.05	3.27	0	3.12
688173	Tcap	3	2	0	3	13	34	2	2
29242	Car4	2	8	1	10	3	38	82	11
25312	Dmp1	7	9	1	4	26	100	5	6
292905	Hrc	16.03	13.72	15.6	21.03	129	276	20.14	8.57
117537	Klhl41	15	11	7	14	52	232	14	13
25438	Eno3	73	98	77	103	588	1547	109	83
103690175	LOC103690175	0	0	28.69	0	66.34	127.2	0	0
103690098	LOC103690098	0	0	0	1.29	1.27	2.56	1.45	3.51
117505	Csrp3	0	1	10	2	7	71	7	4
100912172	LOC100912172	0	0	0	0.28	0.64	0	1	0.28
100911148	LOC100911148	0	0	1.01	0	0	4.06	2.95	0
24661	Pnmt	1	0	0	0	2	1	2	2
27064	Ankrd1	2	4	3	4	6	72	8	5
286924	Gnat3	1	0	0	0	2	0	2	3
498005	Asb16	0	3	0	1	7	19	1	1
24701	Pygm	137.12	111.14	135.13	194.2	1133	2554	184.2	173.1
499018	RGD1560015	0	0	2.44	0	4.1	2	5.38	6.02
500036	Ppplr3a	3	5	0	8	35	71	5	4
302666	Asb11	1	4	3	0	21	33	2	2
367176	RGD1565653	0	0	1.15	0	3.4	2.7	2.26	0
108352087	LOC108352087	4	7	11	13	53	176	13	16
684425	Adssl1	23	9	17	12	143	297	19	12
294388	Stox1	0	0	1	0	1	1	3	3
363331	Plin4	15	0	1	2	17	113	12	2
690468	LOC690468	0.33	14.43	0	0	43.28	18.86	38.47	19.23
500267	Lmod3	2	2	2	4	23	56	4	2
259167	Art5	2	0	0	0	5.18	11	1	0
686019	Casq1	46.02	28.81	42.86	53	340	1042	68.01	48.01
690423	Jsrp1	3	2	1	3	22	49	5	3
688915	Cmya5	59	30	29	58	401	1036	63	46
362282	Pck1	16	0	1	0	0	124	26	1
100361706	LOC100361706	0	0	1	0	3	2	3	1
298512	Rhbd12	0	2	0	0	5	6	6	1
309430	Dmrt2	1	0	0	0	2	6	1	0

503446	Asb12	1	0	0	1	3	14	1	0
641642	Defb27	0	1	0	0	1	3	2	3
690209	Nek211	0	1.19	0	0	9.39	0	0	1.6
365560	RGD1566373	0	0	0.51	0	2.93	0	1.81	0
291245	Actn2	27.44	11.88	13.72	17.93	138.9	488.6	27.69	8.07
290223	Fitm1	3	0	1	4	19	53	2	1
108352449	LOC108352449	4.11	0	0	0	3.69	10.22	20.42	4.66
54232	Car3	298	15	7	47	714	2650	246	48
103690053	LOC103690053	0	0	0	0	0	2	1	2
24904	Slc22a1	0	0	0	0	0	2	3	0
290458	Trim52	0	0	0	0	1	1	1	2
291179	Gpr141	1	0	0	0	4	2	2	2
302971	Prss22	0	0	0	0	0	3	1	1
303517	Tns4	0	0	0	0	1	1	1	2
494222	Pfn4	0	0	0	0	2	0	2	1
497794	Mug1	0	0	0	0	0	5	0	0
499362	Lbx1	0	0	0	0	3	2	0	0
500418	Cngb3	0	0	0	0	0	3	0	2
83612	Slc32a1	0	0	0	0	0	3	0	2
108348200	LOC108348200	0	0	0	0	0	1.71	3.37	0
102553743	LOC102553743	0	0	0	0	2.42	0	0	2.71
58968	Acan	15	11	9	10	11	436	7	10
100911107	LOC100911107	0	0	0	0	1.04	3.12	0	1.04
367975	LOC367975	0	0	0	1.02	0	11.12	0	0
54284	Pitx2	0	0	0	1	1	10	0	0
25250	Cox8b	3	2	1	1	18	55	5	1
100909899	LOC100909899	0	0	0	2	0	11.8	10.81	0
364558	Palld	1.32	1	0	0	9.36	17.13	0	0
84015	Ttn	128	110	78	148	1251	3829	210	145
114207	Ryr1	21.09	15	21	28.01	250	704.6	30.94	24.01
59299	Trdn	20.7	8.96	14.35	19.13	171	502.3	40.88	35.69
297568	LOC297568	0	0	0	0	0	5	1	0
364745	Lyz11	0	0	0	0	3	0	2	1
54236	Cd5	0	0	0	0	2	0	0	4
689864	Msgn1	0	0	0	0	1	1	2	2
292720	RGD1563034	0	0	0	0	0	2	3.01	1
100362987	LOC100362987	0	0	0	0	6.19	0	0	0.05
311098	Xirp2	25	13	26	30	209	898	44	24
313954	Matn3	2	0	2	2	1	70	2	3
102548594	LOC102548594	0	0	0	0	2	1	0	3.39
682930	Cacnals	6	12	7.93	14	143	364	11	8
303862	RGD1562415	0	0	0	0	1.3	1.03	3.58	1.03
100911675	LOC100911675	0	0	0	0	0	0	0	7.01
100910447	LOC100910447	0	0	0	0	3.6	3.59	0	0
117558	Mylk2	5	2	18	8	119	322	26	12
102548714	LOC102548714	0	0	0.21	0	1.14	1.92	0	0
103689934	LOC103689934	0	0	0	0	7.4	0	0	0
103689985	LOC103689985	1	2	1	4	28	87	4	1
680810	Lsmem1	1	2	0	1	15	40	4	1
364773	Akr1c13	0	0	0	0	1.43	4.89	0	1.4
25714	Myf6	0	0	1	1	8	22	0	1
102550892	LOC102550892	0	0	0	0	0	0	7.79	0
100909696	LOC100909696	0	0	0	0	0	4	0	4
25099	Foxa2	0	0	0	0	0	8	0	0
363831	Gsc2	0	0	0	0	2	3	0	3
362018	Sypl2	4	5	1	6	76	198	5	4

360730	Ostn	0	0	0	1	4	14	0	0
315833	Klhl31	5.98	2.03	5.05	6.78	120.9	230.5	13.28	2.34
362867	Mybpc1	17	19	8	32	261	1110	34	15
497901	Leap2	0	0	1.01	0	5.31	14.95	0	0
498683	RGD1564382	0	0	0	0	0	0	0	10.05
102548286	LOC102548286	0	0	0	0	2.36	3.34	0.9	3.46
108348058	NEWGENE_1308612	0	0	0	0	0	0	0	10.2
362895	Stac3	1	1	2	1	30	68	3	1
108349691	LOC108349691	0	0	0	0	6.62	0	0	3.61
108348066	NEWGENE_1586233	0	0	0	0	0	0	5.74	4.51
100910021	LOC100910021	0	0	0	0	10.36	0	0	0
310681	Hjv	9.14	2.26	3.57	11.49	150.1	382.6	18.98	2.96
307982	Nrap	5	5	4	12	80	446	11	10
292879	Mybpc2	28.64	9.24	20.08	34.06	488.4	1412	53.9	18.7
689274	Myoz3	0	1	5	1	28	118	6	2
171009	Actn3	20	15	28	57	789	1821	74.99	33
287411	Dhrs7c	2	1	1	1	23	87	2	3
100362432	LOC100362432	0	0	0	0	0	4.79	6.93	0
316330	Ankrd23	10	10	10	14	201	812	23	8
29437	Acta1	210.48	144.06	148.81	399.48	5177	15597	504.9	277.08
366542	Six2	0	0	0	0	2	5	4.01	1
308873	Art1	1	0	0	2	20.82	51	1	0
25278	Cox6a2	3	2	3	11	96	356	19	3
302948	Sr1	2	3	2	11	73	390	12	3
25028	Ampd1	3	2	3	7	115	285	7	4
309772	Vgl12	1	0	0	1	14	41	1	1
296935	Lmod2	1	0	1	3	11	130	2	0
102547059	LOC102547059	0	0	0	0	0	11.41	0	4.44
679565	LOC679565	0	0	0	7.34	75.04	0	90.47	74.5
498440	Myoz1	12	1	2	14	274	670	22	7
102550650	LOC102550650	0	0	0	0	0	0	14.08	2.82
102555131	LOC102555131	0	0.12	0	0	0	1.07	3	0
365009	Clec3a	0	1	0	0	0	34	0	0
287167	Hba-a1	0	0	1.08	8.51	225.4	68	0	35.97
24838	Tnnt3	31	30	42	83	1764	4419	152	67
100362283	Tmem52	0	0	1	1	15	56	2	0
360543	Myh4	33.64	9.12	11.18	114.85	2895	3166	183.1	72.16
116601	Atp2a1	52	24.84	15	167.97	2324	7243	152	51
24584	My1pf	25	9	11	54	1023	2866	94	39
287408	Myh1	17.98	23.63	7.1	145.4	1314	6801	43.17	24.35
102549712	LOC102549712	0	0	0	0	0	0	0	21.68
24265	Ckm	54	30	8	104	2612	6081	173	77
29389	Tnni2	7	2	5	32	592	1564	47	17
102555328	LOC102555328	0.06	0	0	0	1.9	1.06	0	0
103692976	LOC103692976	0	0	0	0	0	7.12	0	17.6
100362623	Mt1m	0	0	0	0	0	11.57	13.33	0
100911313	LOC100911313	0	2.33	0	0	0	37.07	41.47	42.45
100911166	LOC100911166	0	0	0	0	0	0	0	26.11
25708	Ucp3	1	0	0	0	23	32	3	1
296369	Tnnc2	11	2	5	39	842	2487	72	37
304823	Igfn1	2	2	2	0	118	220	19	5
363925	My12	0	0	0	0	10	15	1	5
100361543	LOC100361543	0	0	0	0	10.78	20.36	0	0
100912521	Nmrk2	0	0	0	0	8	22	1	1
56781	My11	22	4	2	56	1377	3907	132	39
29658	Cacng1	1	0	0	0	12	58	2	0

308622	Txlnb	0	1	0	1	40	103	3	0
100909700	LOC100909700	0	0	0	0	0	14.5	0	22.37
100359951	LOC100359951	0	0	0	0	0	40.48	0	0
103690173	LOC103690173	0	0	0	0	0	0	0	44.57
103694902	LOC103694902	2.37	2.29	1.73	2.36	1.19	0.96	2.36	849.02
108348161	LOC108348161	0	0	0	0	0	0	63.54	0
691644	Myh2	0	1.79	7.58	3.19	168.8	1437	25.09	2.39
59108	Mb	4	0	0	7	327	1301	39	5
100910177	LOC100910177	0	0	0	0	23.57	0	44.76	63.82
291605	Myot	0	0	0	0	38.48	121.7	0	0
100909761	LOC100909761	0	1	0	0	110.5	334.5	4.16	2
100036582	Olr1867								
100125595	Rs1								
100126231	Mln	0	0	0	0	0	0	1	0
100169711	Lcn11								
100270683	Tas1r2	0	0	0	0	0	0	1	0
100271845	LOC100271845	0	1	0	0	0	0	0	0
100310875	Tas2r110								
100310876	Tas2r136								
100310877	Tas2r116								
100310878	Tas2r106								
100310879	Tas2r104								
100310880	Tas2r117								
100310881	Tas2r129								
100310885	Tas2r113								
100310886	Tas2r103								
100312671	Vomlr60								
100312735	Vomlr103								
100312751	Vomlr64								
100312945	Vomlr17								
100359452	LOC100359452								
100359485	Ms4a18								
100359692	LOC100359692	0	0	0	0	0	1.59	0	1.18
100359777	LOC100359777								
100359826	Krtap8-1	0	0	0	1	0	0	0	0
100359838	Rfpl4b								
100359873	Olf1r873								
100359886	Krtap11-1	0	0	0	0	1	0	0	0
100359968	LOC100359968								
100360011	LOC100360011								
100360049	LOC100360049								
100360071	Nps	0	0	0	0	1	0	0	0
100360076	LOC100360076								
100360095	LOC100360095	0	0	0	0	0	0	0	1
100360128	LOC100360128								
100360143	LOC100360143								
100360200	LOC100360200								
100360390	Clfn25	0	0	0	1	0	0	0	0
100360477	LOC100360477								
100360496	Fam9b								
100360521	LOC100360521								
100360557	LOC100360557								
100360571	Cpxcr1								
100360573	LOC100360573								
100360574	LOC100360574								
100360609	Olf1r1055								

100360690	LOC100360690	0	2	0	0	0	0	0	0
100360790	LOC100360790	2	1	0	1	0	0	0	0
100361016	LOC100361016								
100361036	LOC100361036	0	0	1	0	0	0	0	0
100361125	Pom121112								
100361139	LOC100361139								
100361143	LOC100361143	0	1	0	0	0	0	0	0
100361166	Rgs21								
100361194	LOC100361194	0	1	0	0	0	0	0	0
100361204	LOC100361204	0	0	0	1	0	0	0	0
100361300	Spink10								
100361414	Pate3								
100361422	Cldn34c4								
100361434	LOC100361434								
100361468	Gzmb12	4.48	0	0	0	0	0	0	0
100361492	LOC100361492								
100361547	LOC100361547								
100361571	Krtap1-1								
100361579	LOC100361579								
100361623	RGD1561318	0	1	0	0	0	0	0	0
100361626	Krtap12-2								
100361639	RGD1562521								
100361642	LOC100361642								
100361652	Lce6a								
100361657	Patel1								
100361664	LOC100361664								
100361702	LOC100361702								
100361739	LOC100361739								
100361793	LOC100361793								
100361828	LOC100361828								
100361854	LOC100361854								
100361859	Lce3d	0	0	0	1	0	0	0	0
100361884	Pr18a3								
100361907	LOC100361907	0	0	0	0	0	1	0	0
100361944	LOC100361944	0	0	0	0	1.86	1.67	0	0
100361951	Lce3e								
100361960	Cox7b2								
100361968	LOC100361968	0	0	0.12	0	0	0	0	0
100361969	LOC100361969								
100362031	LOC100362031								
100362067	LOC100362067	0	0	0	0	0	0	0	1
100362068	Vomlr-ps112								
100362078	LOC100362078	0	0	0	0	1	0	0	0
100362122	LOC100362122								
100362173	LOC100362173								
100362207	Krtap16-1								
100362319	LOC100362319								
100362350	LOC100362350								
100362365	Tmem210	0	0	0	0	0	1	1	0
100362450	Wfdc17								
100362477	Fam90a1								
100362538	RGD1306995								
100362567	Siglec11								
100362580	Spag11b1	0	0	0	0	1	0	1	0
100362690	LOC100362690								
100362694	Trim60	1	0	0	0	0	0	0	0

100362696	Fam47a								
100362724	LOC100362724								
100362856	LOC100362856								
100362891	Tex13a								
100362904	Bsph2								
100362949	LOC100362949								
100362978	LOC100362978	1	0	0	0	0	0	0	0
100362996	LOC100362996								
100363016	LOC100363016								
100363043	LOC100363043								
100363053	Tas2r145								
100363064	LOC100363064								
100363125	LOC100363125								
100363136	LOC100363136								
100363141	LOC100363141	0	0	0	0	0	0	0	1
100363184	Krtap13-1								
100363219	Olr1872								
100363236	LOC100363236								
100363270	Btbd18	0	0	0	0	0	0	1.03	0
100363287	LOC100363287								
100363321	LOC100363321								
100363333	LOC100363333								
100363344	LOC100363344								
100363449	LOC100363449								
100363500	LOC100363500								
100363712	LOC100363712								
100363867	LOC100363867	0	0	0	0	1	0	0	0
100363883	LOC100363883								
100363914	LOC100363914								
100363993	LOC100363993	0	0	1	0	0	0	0	0
100364002	LOC100364002	0	1	0	0	0	0	0	0
100364155	LOC100364155								
100364523	LOC100364523								
100364550	Krtap24-1								
100364613	Krtap27-1								
100364835	LOC100364835								
100364862	LOC100364862								
100364877	LOC100364877	3	0	0	0	0	0	0	0
100365008	LOC100365008	0	4.1	0	0	0	0	0	0
100365199	Wfdc13								
100365588	LOC100365588								
100365646	LOC100365646								
100365887	LOC100365887								
100365995	LOC100365995								
100366231	LOC100366231								
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100909423	LOC100909423								
100909425	LOC100909425								
100909434	LOC100909434								
100909435	LOC100909435								
100909438	LOC100909438								
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100909485	LOC100909485								
100909486	LOC100909486								
100909493	LOC100909493								
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100909498	Clec19a								
100909499	LOC100909499	0	0.33	0	0	0	0	0	0
100909501	LOC100909501								
100909517	LOC100909517								
100909522	LOC100909522								
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100909534	LOC100909534								
100909546	LOC100909546	1	0	2	0	0	0	0	0
100909556	LOC100909556	0	0	0	0	0	0	1.82	1.42
100909573	LOC100909573								
100909578	LOC100909578								
100909585	LOC100909585								
100909596	LOC100909596								
100909605	LOC100909605								
100909609	LOC100909609	0	1.3	0	0	0	0	0	0
100909613	LOC100909613								
100909620	LOC100909620								
100909622	Znf442								
100909660	LOC100909660								
100909661	LOC100909661								
100909677	LOC100909677								
100909683	LOC100909683	0	0	0	0	0	0	1	0
100909692	LOC100909692								
100909708	LOC100909708								
100909726	LOC100909726								
100909736	LOC100909736								
100909754	LOC100909754								
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100909796	LOC100909796								
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100909831	LOC100909831								
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100909884	LOC100909884								
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100909900	LOC100909900								
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100909935	LOC100909935								
100909936	LOC100909936								
100909937	LOC100909937								
100909940	LOC100909940								
100909943	LOC100909943								
100909958	LOC100909958								
100909961	LOC100909961								
100909966	LOC100909966								
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100909993	LOC100909993								
100909996	0lr1258								
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100910051	LOC100910051								
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100910087	LOC100910087	0	0.5	0	0	0	0	0	0
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100910193	LOC100910193								
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100910431	LOC100910431								
100910439	LOC100910439	0	0	0	0	0	0	0.14	0
100910445	LOC100910445	0	0	0	0	0	0	0.14	0
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100910682	LOC100910682								
100910696	LOC100910696								
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100910721	LOC100910721	0	0	0	0.25	0	0	0	0
100910731	LOC100910731								
100910744	LOC100910744	0	0	0.5	0	0	0	0	0
100910780	Chsy31								
100910801	LOC100910801	0	0	0	0	0	0	2.22	0
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100910829	LOC100910829	0.81	0	0	0.76	0	0	0	0
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100910876	LOC100910876								
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100910893	LOC100910893								
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100910939	LOC100910939								
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100910953	LOC100910953								
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100910997	LOC100910997								
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100911015	LOC100911015								
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100911064	LOC100911064								
100911106	LOC100911106	0	0.13	0	0	0	0	0	0
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100911153	LOC100911153								
100911163	LOC100911163	0	0	0	1	0	0	0	0
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100911206	LOC100911206								
100911217	LOC100911217								
100911229	LOC100911229	0	0	0	0	1	0	0	0
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100911283	LOC100911283								
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100911348	LOC100911348								
100911358	LOC100911358								
100911359	LOC100911359	1	0	0	0	0	0	0	0
100911366	LOC100911366								
100911376	LOC100911376								
100911380	LOC100911380								
100911394	LOC100911394								
100911398	LOC100911398								
100911405	LOC100911405								
100911434	LOC100911434								
100911438	LOC100911438								
100911458	LOC100911458								
100911463	LOC100911463								
100911464	LOC100911464								
100911489	LOC100911489	0	0	1.35	0	0	0	0	0
100911495	LOC100911495								
100911507	LOC100911507								
100911529	LOC100911529	0	3	0	0	0	0	0	0

100911547	LOC100911547								
100911558	LOC100911558								
100911565	LOC100911565								
100911569	LOC100911569								
100911571	LOC100911571								
100911583	LOC100911583								
100911586	LOC100911586								
100911588	LOC100911588	0	0	0	1.88	0	0	0	0
100911628	LOC100911628								
100911649	LOC100911649								
100911679	LOC100911679								
100911681	LOC100911681								
100911689	LOC100911689								
100911695	LOC100911695	0	0	0	0	1	0	0	0
100911718	LOC100911718								
100911725	LOC100911725								
100911727	LOC100911727								
100911744	LOC100911744								
100911758	LOC100911758								
100911772	LOC100911772								
100911784	LOC100911784								
100911797	LOC100911797	0.51	0	0	0	0	0	0	0
100911801	LOC100911801								
100911839	LOC100911839								
100911845	LOC100911845								
100911857	LOC100911857								
100911860	LOC100911860								
100911867	LOC100911867	0	2.66	2.32	0	0	0	0	0
100911870	LOC100911870								
100911886	LOC100911886								
100911888	LOC100911888								
100911893	LOC100911893								
100911936	LOC100911936								
100911937	LOC100911937								
100911938	LOC100911938	0	0	0	0	0.5	0	0	0
100911939	LOC100911939								
100911941	LOC100911941	0	1	0	0	0	0	0	0
100911944	LOC100911944								
100911958	LOC100911958	0	0	0.5	0	0	0	0	0
100911971	Spata31e1								
100911976	LOC100911976	0	0	0	0	0.5	0.5	0	0.5
100911982	LOC100911982								
100911983	LOC100911983	0	0	0	0	0.5	0	0	0
100911984	LOC100911984	0	0.8	0	0	0	0	0	0
100911988	LOC100911988								
100911994	LOC100911994	0	0	2.8	0	0	0	0	0
100911999	LOC100911999								
100912013	LOC100912013	0	0	0	0	0	0.58	1.06	0
100912021	LOC100912021	0	0	0	0	0	0	0.32	0
100912026	LOC100912026								
100912028	LOC100912028								
100912067	LOC100912067								
100912097	LOC100912097								
100912104	LOC100912104								
100912114	LOC100912114								
100912135	LOC100912135								

100912958	LOC100912958								
100912998	LOC100912998	0	0	0	0	1	1	0	0
100913013	LOC100913013	0	0	0	0	0	0	1	0
100913081	Pate-f								
102546342	LOC102546342	0	0	0	0	0	0	0	1
102546456	LOC102546456								
102546467	LOC102546467	1	0	0	0	0	0	0	0
102546505	LOC102546505								
102546567	LOC102546567								
102546758	Klk5								
102546793	LOC102546793								
102546819	LOC102546819								
102546862	LOC102546862	0	0	0	0	0	0	1	0
102546874	LOC102546874	1	0	0	1	0	0	0	0
102547035	LOC102547035								
102547206	LOC102547206								
102547221	LOC102547221								
102547275	LOC102547275								
102547542	LOC102547542								
102547604	LOC102547604	0	0	0	0	0.78	0	0	0
102547645	LOC102547645								
102547820	LOC102547820								
102547850	LOC102547850								
102547949	LOC102547949								
102548017	LOC102548017	0	0	0	1	0	0	0	0
102548031	LOC102548031								
102548071	LOC102548071								
102548126	Armh2								
102548128	LOC102548128	0	0	0	0	1	0	0	0
102548129	LOC102548129	0	0	0	0	0	0	0	2
102548522	LOC102548522								
102548702	LOC102548702								
102548729	LOC102548729								
102548794	LOC102548794								
102548875	LOC102548875								
102548912	LOC102548912	0.5	0.5	0.5	0	0	0	0	0
102548978	LOC102548978	0	0	0	0	0	0	1	0
102549010	Bend2								
102549220	LOC102549220	0	0	0	1	0	0	0	0
102549229	LOC102549229	0	0	0	0	0	0	1	0
102549291	LOC102549291								
102549389	LOC102549389	0	0	0	0	1.82	2.55	0	0
102549607	LOC102549607								
102549681	Plckhg7	0	0	0	0	1	1	0	0
102549716	LOC102549716	0	0	1.07	2	0	0	0	0
102549724	LOC102549724								
102549785	LOC102549785								
102549828	LOC102549828								
102549940	LOC102549940								
102550080	LOC102550080								
102550148	LOC102550148	0	0	0	0	0	0	0.93	0
102550160	LOC102550160								
102550257	LOC102550257								
102550314	LOC102550314								
102550416	LOC102550416								
102550466	LOC102550466								

102550512	LOC102550512								
102550530	LOC102550530								
102550598	LOC102550598								
102550654	LOC102550654								
102550682	LOC102550682								
102550699	Sprr2d								
102550708	LOC102550708								
102550816	LOC102550816								
102550885	LOC102550885								
102550890	LOC102550890								
102550901	Krtap2013								
102550922	LOC102550922	0	0	0	0	0	0	0	1
102550973	LOC102550973								
102550988	LOC102550988								
102551003	LOC102551003								
102551069	Krtap22-2								
102551071	LOC102551071								
102551102	LOC102551102								
102551105	LOC102551105								
102551117	LOC102551117	0	0	1	0	0	0	0	0
102551143	LOC102551143								
102551166	LOC102551166	0	0	1	0	0	0	0	0
102551175	LOC102551175								
102551192	LOC102551192								
102551201	LOC102551201								
102551241	LOC102551241								
102551265	LOC102551265								
102551278	LOC102551278								
102551296	LOC102551296	0	0	0	0	0	0	0	1.9
102551304	LOC102551304								
102551394	LOC102551394								
102551397	LOC102551397								
102551406	LOC102551406								
102551431	LOC102551431								
102551497	LOC102551497								
102551504	LOC102551504								
102551559	LOC102551559	0	0	0	0	1	0	1	0
102551575	LOC102551575	0	0	0	0	2.91	0	0	0
102551620	LOC102551620								
102551632	LOC102551632	0	0	0	0	0	0	0.98	0
102551641	LOC102551641								
102551679	LOC102551679								
102551754	LOC102551754								
102551771	LOC102551771								
102551823	LOC102551823	1	0	1	0	0	0	0	0
102551847	LOC102551847								
102551852	LOC102551852								
102551887	Fam177b								
102551936	LOC102551936								
102551947	LOC102551947								
102552046	LOC102552046								
102552104	LOC102552104								
102552128	LOC102552128	0	0	0	0	0	0	2	0
102552137	LOC102552137								
102552143	LOC102552143								
102552223	LOC102552223								

102552244	LOC102552244								
102552286	LOC102552286	0	0	0	0	1	0	0	0
102552311	LOC102552311								
102552326	LOC102552326								
102552337	LOC102552337								
102552348	LOC102552348	1	0	0	1	0	0	0	0
102552384	LOC102552384	1.06	0	0	0	0	0	0	0
102552474	LOC102552474								
102552485	LOC102552485	0	0	1	1	0	0	0	0
102552542	LOC102552542								
102552619	LOC102552619	0	0	0	0	1	1	0	0
102552651	LOC102552651								
102552667	LOC102552667	0	0	0	0	1	0	0	0
102552669	LOC102552669								
102552748	LOC102552748	0	0	0	0	0	1	0	0
102552799	LOC102552799								
102552844	LOC102552844	0	1.57	2	0	0	0	0	0
102552923	LOC102552923								
102552939	Dynap								
102552940	LOC102552940								
102553035	LOC102553035								
102553055	LOC102553055	0	0	0	0	1.54	0	0	0
102553069	LOC102553069								
102553110	LOC102553110								
102553150	LOC102553150	0	0	0	0	0	1.59	0	1.32
102553250	LOC102553250	0	1.57	0	0	0	0	0	0
102553311	LOC102553311								
102553316	LOC102553316								
102553324	LOC102553324								
102553503	LOC102553503								
102553533	LOC102553533	0	0	0	0	0	0	1.21	0
102553538	LOC102553538								
102553613	LOC102553613	0	2.83	0	0	0	0	0	0
102553656	LOC102553656	0	0	0	2.31	0	0	0	0
102553745	Ct47b1								
102553861	LOC102553861								
102553880	LOC102553880								
102553892	LOC102553892								
102554012	LOC102554012								
102554024	LOC102554024								
102554041	LOC102554041	0	0	0	1	0	0	0	0
102554065	LOC102554065								
102554234	LOC102554234	0	0	0	0	0.1	0	0	0
102554246	LOC102554246								
102554287	LOC102554287								
102554371	LOC102554371								
102554388	LOC102554388	0	0	1	0	0	0	0	0
102554431	LOC102554431	0	1	0	1	0	0	0	0
102554482	Ins15								
102554525	LOC102554525	0	0	0	0	0	1.91	0	2
102554576	LOC102554576								
102554594	LOC102554594	0	2.93	0	0	0	0	0	0
102554637	LOC102554637	0	0	0	0	1	0	0	0
102554666	LOC102554666	0	0	0	0	0	0	1.6	1
102554672	LOC102554672								
102554761	LOC102554761	0	0	0	0	0	1	1	1

102554799	LOC102554799								
102554842	LOC102554842								
102554851	Sertm2								
102554917	LOC102554917								
102554937	LOC102554937								
102554944	LOC102554944	1	0	1	0	0	0	0	0
102554989	LOC102554989								
102555023	LOC102555023								
102555114	LOC102555114								
102555137	LOC102555137								
102555149	LOC102555149								
102555170	Higd1c	0	0	0	0	0	0	1	0
102555306	LOC102555306								
102555324	LOC102555324								
102555445	LOC102555445	1	0	0	1	0	0	0	0
102555481	LOC102555481								
102555488	LOC102555488								
102555501	LOC102555501								
102555511	LOC102555511								
102555534	LOC102555534								
102555599	LOC102555599								
102555760	LOC102555760								
102555852	LOC102555852								
102556049	LOC102556049								
102556120	LOC102556120	0	0	0	0	0	0	0.5	0
102556129	Ccdc198								
102556213	LOC102556213								
102556288	LOC102556288	0	0	0	0	1	0	0	1
102556339	LOC102556339	2.29	0	0	0	0	0	0	0
102556351	LOC102556351	1	0	0	2.13	0	0	0	0
102556447	LOC102556447								
102556474	LOC102556474								
102556504	LOC102556504	0	0	0	0	0	1	0	2
102556795	LOC102556795								
102557319	LOC102557319								
102557406	LOC102557406								
102557552	LOC102557552	0	0	0	0	0	0	0	2
103689924	LOC103689924								
103689929	LOC103689929								
103689939	LOC103689939								
103689940	LOC103689940								
103689942	LOC103689942	0	0	0	0	0	0	0	4.84
103689943	LOC103689943								
103689944	LOC103689944								
103689958	LOC103689958								
103689960	LOC103689960								
103689964	LOC103689964								
103689967	LOC103689967	0	0	0	3.11	0	0	0	0
103689976	LOC103689976	0	0	0	0	0	0	0.82	1
103689980	LOC103689980								
103689988	LOC103689988								
103689989	LOC103689989								
103689993	LOC103689993								
103689997	NEWGENE 1311658	0	0.5	0	0.5	0	0	0	0
103690010	Fibcd111								
103690011	LOC103690011								

103690015	LOC103690015								
103690017	LOC103690017	0	0	0	0	0	0	0	1.89
103690026	LOC103690026								
103690036	LOC103690036								
103690040	LOC103690040	0	0	0	0	0	0	0	2.85
103690041	LOC103690041								
103690042	LOC103690042								
103690047	NEWGENE 1308624								
103690048	LOC103690048								
103690055	LOC103690055								
103690060	LOC103690060								
103690062	LOC103690062								
103690071	LOC103690071								
103690072	LOC103690072								
103690075	LOC103690075								
103690077	LOC103690077								
103690079	LOC103690079	0	0	0	0	0	1.45	0	0
103690088	LOC103690088								
103690090	LOC103690090								
103690093	Tmc4b	2.46	0	0	2	0	0	0	0
103690094	LOC103690094	0.5	0.5	0.5	0	0	0	0	0
103690095	LOC103690095								
103690101	LOC103690101								
103690115	LOC103690115								
103690118	LOC103690118	0	0	0	0	0	0	4.56	0
103690119	LOC103690119								
103690133	LOC103690133								
103690145	LOC103690145	0.33	0	0	0	0	0	0	0
103690150	LOC103690150								
103690167	Ar114	0	0	0	0	1	0	0	1
103690169	LOC103690169	0	2.49	0	0	0	0	0	0
103690172	LOC103690172								
103690187	LOC103690187								
103690189	LOC103690189	0	2.93	0	0	0	0	0	0
103690194	LOC103690194	0	0	0	0	0	0	0	1
103690209	Rbmx12								
103690246	LOC103690246								
103690254	Try5								
103690255	LOC103690255								
103690271	LOC103690271								
103690273	LOC103690273								
103690280	LOC103690280								
103690286	LOC103690286								
103690289	LOC103690289	0	0	0	0	0	0	0.6	0
103690291	LOC103690291								
103690297	LOC103690297								
103690306	LOC103690306	0	0	0	0	0	0	0.5	0
103690319	LOC103690319	2.39	0	0	0	0	0	0	0
103690342	Evx1								
103690352	LOC103690352								
103690354	LOC103690354								
103690355	LOC103690355								
103690365	LOC103690365								
103690374	LOC103690374								
103690375	LOC103690375								
103690381	LOC103690381	0	1	1.09	0	0	0	0	0

103690410	LOC103690410								
103690462	LOC103690462								
103690504	LOC103690504	0	1.01	0	0	0	0	0	0
103690514	LOC103690514								
103690545	LOC103690545	0	0	1	0	0	0	0	0
103690588	LOC103690588								
103690600	LOC103690600								
103690754	LOC103690754	0	0	0	0	0	0	1	0
103690765	LOC103690765								
103690810	LOC103690810								
103690821	LOC103690821								
103690860	LOC103690860								
103690862	LOC103690862								
103690864	LOC103690864								
103690878	LOC103690878	0	0	1	0	0	0	0	0
103690887	LOC103690887	0	0	0	0	0	0	2	0
103690902	LOC103690902								
103690904	LOC103690904								
103690913	LOC103690913								
103690935	LOC103690935								
103691020	LOC103691020	0	0	0	1	0	0	0	0
103691064	LOC103691064								
103691066	LOC103691066								
103691092	LOC103691092								
103691095	Wdr871								
103691133	LOC103691133	1	1	0	0	0	0	0	0
103691226	LOC103691226								
103691249	LOC103691249								
103691265	Krtap5-1								
103691445	LOC103691445								
103691460	LOC103691460								
103691468	LOC103691468								
103691494	LOC103691494								
103691495	LOC103691495								
103691498	LOC103691498	2.28	0	0	0	0	0	0	0
103691506	LOC103691506								
103691522	LOC103691522								
103691547	LOC103691547								
103691549	LOC103691549	0	0	0	0	1	0	0	0
103691587	LOC103691587								
103691627	LOC103691627								
103691715	LOC103691715	0	0	0	0	1	1	0	0
103691749	LOC103691749								
103691806	LOC103691806	0	0	0	0	1	0	0	0
103691842	LOC103691842								
103691843	LOC103691843								
103691873	LOC103691873								
103691918	LOC103691918								
103691922	LOC103691922	0	0	0	0	0	0	0	0.58
103691948	LOC103691948								
103691956	LOC103691956	0	0	0	1	0	0	0	0
103691965	LOC103691965								
103691966	LOC103691966	0	0	0	0.22	0	0	0	0
103692008	LOC103692008								
103692013	LOC103692013								
103692018	LOC103692018								

103692019	LOC103692019								
103692039	LOC103692039								
103692040	LOC103692040								
103692041	LOC103692041								
103692042	LOC103692042	0	0	0	0	0	0.33	0	0
103692048	LOC103692048	0	0	0	0	1	0	0	1
103692071	LOC103692071	0	0	0	0	1	1	1.04	0
103692073	LOC103692073								
103692138	LOC103692138								
103692142	LOC103692142								
103692213	LOC103692213								
103692309	LOC103692309	0	0	0	0	0	0	0	1
103692345	LOC103692345								
103692396	LOC103692396	0	0	0	0	0	0	0	1
103692409	LOC103692409								
103692412	LOC103692412								
103692417	LOC103692417								
103692518	LOC103692518								
103692530	LOC103692530	0	1	0	0	0	0	0	0
103692690	LOC103692690								
103692726	LOC103692726								
103692755	LOC103692755								
103692768	LOC103692768								
103692831	LOC103692831								
103692888	LOC103692888								
103692896	LOC103692896	0	0	0	0	0	0	0	2
103692906	Eif3e	0	1.02	0	0	0	0	0	0
103692936	LOC103692936								
103692995	LOC103692995								
103693001	LOC103693001	0	1	0.32	0	0	0	0	0
103693022	LOC103693022								
103693025	LOC103693025								
103693040	LOC103693040								
103693050	LOC103693050								
103693053	LOC103693053								
103693054	LOC103693054								
103693055	LOC103693055								
103693060	LOC103693060								
103693161	LOC103693161	0	0	0	0	1	0	0	0
103693173	LOC103693173	0	0	0	0	0	0	0	1.38
103693290	LOC103693290								
103693313	LOC103693313								
103693383	LOC103693383								
103693384	LOC103693384	0	0	0	0	0	0	0	0.5
103693446	LOC103693446								
103693451	LOC103693451	0	0	0	0.5	0	0	0	0
103693456	LOC103693456								
103693487	LOC103693487								
103693512	LOC103693512								
103693533	LOC103693533								
103693537	LOC103693537								
103693538	LOC103693538	0	0	1	0	0	0	0	0
103693566	LOC103693566								
103693627	LOC103693627								
103693631	LOC103693631								
103693685	LOC103693685								

103693688	LOC103693688	1.17	0	0.96	0	0	0	0	0
103693728	LOC103693728								
103693822	LOC103693822								
103693823	LOC103693823	0	0	0	0	0	0	0	0.5
103693919	LOC103693919								
103694036	LOC103694036								
103694046	LOC103694046	1	0	0	0	0	0	0	0
103694068	LOC103694068	0	0	0	0	1	0	0	0
103694070	LOC103694070	1	0	0	0	0	0	0	0
103694085	LOC103694085								
103694104	LOC103694104								
103694155	LOC103694155	0	0	0	0	1	0	0	0
103694165	LOC103694165								
103694201	LOC103694201								
103694215	LOC103694215	0	2	1	0	0	0	0	0
103694250	LOC103694250								
103694337	LOC103694337								
103694360	LOC103694360								
103694370	LOC103694370								
103694380	LOC103694380								
103694397	LOC103694397								
103694398	LOC103694398								
103694423	LOC103694423	0	0	0	0	0.71	1	0	0.44
103694484	LOC103694484								
103694488	LOC103694488								
103694495	LOC103694495								
103694517	LOC103694517								
103694544	Rbmy1j								
103694545	LOC103694545								
103694550	LOC103694550								
103694554	LOC103694554								
103694555	LOC103694555								
103694583	LOC103694583								
103694584	LOC103694584								
103694587	LOC103694587	0	0	0	0	1	0	0	0
103694591	LOC103694591								
103694599	LOC103694599								
103694600	LOC103694600								
103694601	LOC103694601								
103694602	LOC103694602								
103694603	LOC103694603								
103694604	LOC103694604								
103694605	LOC103694605								
103694606	LOC103694606								
103694614	LOC103694614								
103694622	LOC103694622								
103694624	LOC103694624								
103694627	LOC103694627								
103694636	LOC103694636								
103694637	LOC103694637								
103694640	LOC103694640								
103694726	LOC103694726								
103694730	LOC103694730	0	0	0.33	0	0	0	0	0
103694731	LOC103694731	0	0	0.33	0	0	0	0	0
103694733	LOC103694733								
103694745	LOC103694745								

103694747	LOC103694747								
103694768	LOC103694768								
103694775	LOC103694775								
103694776	LOC103694776								
103694825	LOC103694825								
103694826	LOC103694826								
103694827	LOC103694827								
103694829	LOC103694829								
103694832	LOC103694832								
103694833	LOC103694833								
103694836	LOC103694836								
103694837	LOC103694837								
103694840	LOC103694840								
103694842	LOC103694842								
103694845	LOC103694845								
103694848	LOC103694848								
103694849	LOC103694849								
103694853	LOC103694853								
103694854	LOC103694854								
103694860	LOC103694860	0	0	0	0	0	0	0	1.26
103694874	LOC103694874								
103694882	LOC103694882	0	0	0	0	0	0.47	0	0
103694883	LOC103694883								
103694884	LOC103694884								
103694889	LOC103694889								
103694891	LOC103694891								
103694892	LOC103694892								
103694893	LOC103694893								
103694897	LOC103694897	0	0	2.03	2.34	0	0	0	0
103694913	LOC103694913								
103695096	LOC103695096								
103695151	LOC103695151								
103695192	LOC103695192								
103695338	LOC103695338	0	0	1	1	0	0	0	0
108348032	LOC108348032								
108348036	LOC108348036								
108348037	LOC108348037								
108348038	LOC108348038								
108348039	LOC108348039								
108348042	LOC108348042								
108348050	LOC108348050								
108348053	LOC108348053	0	0	0	0	0	2	0	0
108348068	LOC108348068								
108348071	Qrfp								
108348072	LOC108348072								
108348075	LOC108348075								
108348077	LOC108348077	0	0	0	0	0	0	0	1.12
108348086	LOC108348086								
108348087	LOC108348087								
108348088	LOC108348088								
108348091	LOC108348091								
108348095	NEWGENE 1308171								
108348097	LOC108348097	0	0	0	0	0.38	0	0	0
108348103	LOC108348103								
108348105	LOC108348105								
108348110	LOC108348110								

108348116	LOC108348116	0	0	0	1	0	0	0	0
108348119	LOC108348119	0	0	0	0	3.85	0	0	0
108348126	NEWGENE 1565788								
108348130	LOC108348130								
108348132	LOC108348132								
108348133	LOC108348133	0	0	0	0	1	0	0	0
108348135	LOC108348135								
108348138	LOC108348138	0	0	0	0	0	1	1	1
108348146	LOC108348146								
108348152	LOC108348152								
108348163	LOC108348163	0	0	1	0	0	0	0	0
108348164	LOC108348164								
108348174	LOC108348174								
108348182	NEWGENE 1310011								
108348183	LOC108348183	0	0	0	0.22	0	0	0	0
108348196	LOC108348196								
108348202	LOC108348202	0	0.5	0	0	0	0	0	0
108348205	LOC108348205								
108348212	LOC108348212								
108348228	LOC108348228								
108348235	LOC108348235								
108348237	LOC108348237	0	0	0	0	1	0	1	0
108348238	LOC108348238								
108348243	LOC108348243								
108348279	LOC108348279								
108348324	LOC108348324	1.08	0	0	1.28	0	0	0	0
108348376	LOC108348376								
108348428	LOC108348428								
108348453	LOC108348453								
108348476	LOC108348476	0	1	0	1	0	0	0	0
108348739	LOC108348739	0	0	2	0	0	0	0	0
108348875	LOC108348875								
108348882	LOC108348882	0	0	0	1	0	0	0	0
108349003	LOC108349003								
108349071	LOC108349071								
108349258	LOC108349258								
108349399	LOC108349399								
108349419	LOC108349419								
108349459	LOC108349459	0	0	0	0	0.66	0	0	0
108349543	LOC108349543								
108349671	LOC108349671								
108349727	LOC108349727								
108349734	LOC108349734								
108349736	LOC108349736								
108349755	LOC108349755	0	1	0	0	0	0	0	0
108349761	LOC108349761	0	0	1	0	0	0	0	0
108349762	LOC108349762								
108349763	Gpr32								
108349764	Igsf22								
108349779	LOC108349779								
108349780	LOC108349780								
108349786	LOC108349786								
108349829	LOC108349829								
108349842	LOC108349842								
108349926	LOC108349926								
108350002	LOC108350002								

108350036	LOC108350036	0	0	0	1	0	0	0	0
108350113	LOC108350113								
108350184	LOC108350184								
108350189	LOC108350189								
108350190	LOC108350190								
108350198	LOC108350198								
108350204	LOC108350204								
108350225	LOC108350225								
108350226	LOC108350226								
108350227	LOC108350227								
108350228	LOC108350228								
108350275	NEWGENE 2324572								
108350296	LOC108350296	0	0	0	0	1	1	0	1
108350336	LOC108350336								
108350337	LOC108350337								
108350338	LOC108350338	0.33	0	0	0	0	0	0	0
108350339	Lcn1511								
108350366	LOC108350366								
108350385	LOC108350385	0	0	0	0	0	0	0	1
108350389	LOC108350389								
108350501	LOC108350501								
108350549	LOC108350549								
108350574	LOC108350574	0	0	0	0	1.79	0	1	0
108350575	LOC108350575								
108350577	LOC108350577								
108350578	LOC108350578	0	1	0	0	0	0	0	0
108350623	LOC108350623								
108350674	LOC108350674								
108350775	LOC108350775								
108351017	LOC108351017								
108351048	LOC108351048	0	0	0	1	0	0	0	0
108351082	LOC108351082	2.02	2.04	0	0	0	0	0	0
108351087	LOC108351087	0	0	1	0	0	0	0	0
108351094	LOC108351094	0	0	0	0	0	1	0	0
108351095	LOC108351095	0	0	2	0	0	0	0	0
108351099	LOC108351099								
108351130	LOC108351130	0	0	0	1	0	0	0	0
108351157	LOC108351157	0	0	0	0	1	0	0	0
108351350	LOC108351350								
108351365	LOC108351365	0	0	0	1	0	0	0	0
108351379	LOC108351379								
108351410	LOC108351410								
108351431	LOC108351431	0	0	0	0	0	0	3.14	1.45
108351565	LOC108351565								
108351583	LOC108351583								
108351667	LOC108351667								
108351811	LOC108351811	0	0	0	0	0	0	0	1.01
108351817	LOC108351817								
108351818	LOC108351818								
108351823	LOC108351823	0	0	0	1	0	0	0	0
108351911	LOC108351911	0	0	1	0	0	0	0	0
108351962	LOC108351962	0	0	0	0	1	3	0	0
108351982	LOC108351982								
108351990	LOC108351990								
108351994	LOC108351994	0	1	1	0	0	0	0	0
108352004	LOC108352004								

108352005	LOC108352005								
108352008	LOC108352008								
108352027	LOC108352027								
108352140	LOC108352140	0	0	0	0	1	0	0	0
108352170	LOC108352170	0	0	0	0	0	0	0	1.7
108352180	LOC108352180								
108352181	LOC108352181								
108352184	LOC108352184	0	0	0	0.5	0	0	0	0
108352189	LOC108352189	0	0	1.01	0	0	0	0	0
108352190	LOC108352190	0	0	1.07	1.07	0	0	0	0
108352221	LOC108352221								
108352322	LOC108352322	0	1	0	0	0	0	0	0
108352332	Hh1a2	0	0	0	0	0	0	1	0
108352358	LOC108352358	0	0	0	0	0	0	0	1
108352373	LOC108352373								
108352374	LOC108352374	0	0	1	0	0	0	0	0
108352378	LOC108352378								
108352388	LOC108352388								
108352398	LOC108352398								
108352480	LOC108352480								
108352488	LOC108352488								
108352616	LOC108352616								
108352635	LOC108352635	0	0	0	0	0	0	0	0.33
108352638	LOC108352638								
108352639	LOC108352639	0	0	0	1.3	0	0	0	0
108352748	LOC108352748								
108352750	LOC108352750								
108352854	LOC108352854								
108353077	LOC108353077								
108353078	LOC108353078								
108353092	LOC108353092								
108353098	LOC108353098	0	0	0	0	0	0	1	0
108353108	LOC108353108								
108353140	LOC108353140								
108353142	LOC108353142	3.94	0	0	0	0	0	0	0
108353202	LOC108353202								
108353251	LOC108353251	0	0	0	0	0	2.15	0	0.48
108353256	LOC108353256								
108353266	LOC108353266								
108353273	LOC108353273								
108353314	LOC108353314								
108353315	LOC108353315								
108353321	LOC108353321								
108353325	LOC108353325								
108353326	LOC108353326								
108353327	LOC108353327								
108353376	LOC108353376	0	0	0.33	0	0	0	0	0
108353386	LOC108353386								
108353418	LOC108353418								
108353421	LOC108353421								
108353422	LOC108353422								
108353425	LOC108353425	0.5	0.5	0.5	0	0	0	0	0
113901	Chia								
113914	Taar1								
113919	Gpx5	0	0	0	0	0	0	0	1
113983	Pitx1								

114109	Nkx2-5								
114213	Rax								
114498	Dmrt1								
114516	Gira3								
114595	Csnls2a								
114903	Lim2								
116469	Trpv5	0	0	0	0	1	0	0	0
116474	Pr12a1								
116553	Il13	0	0	1	0	0	0	0	0
116558	Il9								
116589	Serpinb5								
116592	Tff2								
116630	Csf2								
116700	Cga	1	0	1	0	0	0	0	0
117037	Spaml								
117061	Mmp10	0	0	0	0	1	1	0	0
117098	Pdha2								
117179	Cuzd1	0	0	1	0	0	0	0	0
117270	Tff1								
124451	Lhx5								
156873	Kcnk15	0	0	0	0	0	2.16	2.35	0
170578	Asz1								
170582	Fgf19								
170583	Fgf23	2	0	0	0	0	0	0	0
170633	Fgf3								
170700	Fgf6	0	0	0	0	0	1	0	0
170704	Hrh4								
170925	Slco6b1								
171016	Hrg								
171027	Svs5								
171054	Ccr4	0	0	1	0	0	0	0	0
171072	Sult1c2								
171074	Hdgf11	0	0	0.97	0.98	0	0	0	0
171080	Slc17a1	1	0	0	0	0	0	0	0
171101	Grp								
171149	Serpini2								
171290	Gzmc	0	1	0	0	0	0	0	0
171302	Foxe3	1.01	1	1	0	0	0	0	0
171385	Acmsd	0	0	0	0	0	0	1	0
171403	Spata19								
171406	Pr18a9								
171412	Defb22								
171518	Cyp2c22	1	0	0	0	0	0	0	0
171521	Cyp2c13								
171556	Pr15a1								
192155	Sftpb								
192224	Pr12b1								
192239	Svs3a								
192257	Ces2e	0	0	0	0	0	1	0	0
192271	Adam6	0	0	0	0	1	1	0	0
192274	Foxe1								
192646	Mtnr1b								
192675	Bsnd								
207113	Tex101								
24177	Afp								
24197	Alpi								

24257	Cgm4								
24269	Cpa1	0	0	0	0	0	2	0	0
24277	Crygc								
24279	Cryge								
24282	Pr13d4								
24283	Pr13b1								
24300	Cyp2b1	0	0	0	0	0	0	0	1
24306	Cyp4a2	0	0	0	1	0	0	0	0
24315	Pr18a2								
24360	Fabp1	0	0	1	0	0	0	0	0
24366	Fgb	1	0	0	0	0	0	0	0
24481	Ifnb1								
24497	Ii5	0	2	0	1	0	0	0	0
24505	Ins1	1	0	1	0	0	0	0	0
24506	Ins2	0	0	0	0	0	0	2	1
24523	Klk1								
24538	Lipc								
24548	Mbl1								
24581	Mycs	0	0	0	0	0	0	1	0
245916	Cst11								
24594	Klk1b3	0	0	0	0	1	0	0	0
245985	Prb3								
246043	Klrh1								
246145	Pbp2								
246147	Ctsq								
246186	Fgl1	0	0	2	0	0	0	0	0
246214	Lrit1	0	0	0	0	0	0	0	1
246219	Tas2r126								
246234	Slc34a3	0	0	1	0	0	0	0	0
246252	Ces2a	0	0	1	0	0	0	0	0
246305	Spag11a								
246328	Serpina4								
24656	Pr14a1								
24657	Pr16a1								
24677	Ppy								
24683	Pr1								
24685	Prm1								
24687	Prp15								
24691	Prss1	0	1	0	0	0	0	0	0
24694	Pth								
24711	Rbp3								
24714	Reg1a	0	0	0	1	0	0	0	0
24794	Serpina3c								
24802	Svs4	0	0	0	0	0	0	1	0
24813	Tat								
24829	Hist1h2ba	0	0	0	0	0	1.21	0	0
24833	Spink3								
24839	Tnp1								
24840	Tnp2	0	0	0	0	1	0	0	0
24860	Ucp1	0	0	0	1.46	0	0	0	0
24861	Ugt1a1	3.95	0	0	0	0	0	0	0
24881	Wnt1								
24894	Cyp2a1								
24895	Cyp2a2								
24899	Smcp	0	0	0	0	0	1	0	0
24902	Sult2a6								

24912	Sult2a1	1	0	0	0	0	0	0	0
24926	Ceacam3								
24937	Kap	0	0	0	0	0	0	1	0
24952	Gcg	0	0	0	0	0	0	2	0
25010	Scgb2a1	0	0	1	0	0	0	0	0
25011	Cyp2c12								
25013	Semg1								
25030	Andpro								
25040	Gip								
25052	Prss2								
25080	Apoa4	0	1	2	0	0	0	0	0
25221	Sry	0	0	0	0	0	0	0	0.99
25254	Dspp	0	0	0	1	0	0	0	0
25258	Glycam1	0	0	0	0	0	1	0	0
25279	Cyp24a1	0	1	0	2	0	0	0	0
252834	Gdf6	0	0	0	0	1	1	0	0
252886	Foxd4	1.01	0	0	0	0	0	0	0
252887	Olr1413	1	0	0	0	0	0	0	0
252899	Miox	0	0	0	0	0	0	0	1
252931	Cyp3a18								
25310	Cyct								
25325	Ii10	0	0	0	0	0	1	0	0
25331	Mat1a	0	0	0	0	2	0	0	1
25335	Mmp7								
25345	Prm2								
25350	Sftpd								
25354	Sstr5								
25373	Ahsg	0	0	0	1	0	0	0	0
25377	Ambp								
25401	Alx1	1	0	0	0	0	0	0	0
25411	Cnga2								
25422	Crybb2								
25428	Cyp7a1	0	0	0	0	0	1	0	0
25440	Fabp6								
25447	Fshb	1	0	0	1	0	0	0	0
25449	Fshr	0	0	0	0	0	0	3	1
25474	Lgals4	1	0	1	0	0	0	0	0
25504	Oxt								
25509	Pax6	0	1	0	0	0	0	0	0
25540	Sbp								
25548	Slc34a1	0	1	0	1	0	0	0	0
25552	Slc5a1								
25563	Tff3	0	0	0	0	1	0	0	0
25610	Csf3	0	0	0	1	0	0	0	0
25634	G6pc	0	0	0	1	0	0	0	0
25640	Hnf1b	0	0	0	0	0	1	0	0
25711	Gucy2c	0	0	0	0	0	0	4	0
25712	Ifng	1	0	0	0	0	0	0	0
25753	Chrng								
257634	Lhx1								
257643	LOC257643								
257651	Prmp5								
257652	Prb1								
259233	Gpx6								
266602	Spink1								
266607	Ffar1								

266682	Cyp3a2								
266704	Gzmf								
266717	Krt9								
266738	Prop1	0	0	0	0	1	0	0	0
266782	Pr13a1								
266804	Pr17b1								
282833	Zp4								
286759	Csn1s2b								
286892	Vom1r101								
286913	01r1278								
286933	0bp2b								
286953	Cyp2b3								
286956	Vom1r97								
286957	Vom1r102								
286959	01r1271								
286960	LOC286960								
286961	Slc22a24								
286964	Hsd17b6								
286981	Vom2r32								
286983	Vom2r40								
286989	Ugt2b7	0	0	0	0	0	1	0	0
287000	01r1361								
287002	01r1082								
287003	Tas2r123								
287006	Slco6c1	0	0	0	0	0	0	1	0
287077	01r1358	0	1	0	0	0	0	0	0
287080	01r1355								
287081	01r1365								
287082	01r1368								
287083	01r1372								
287084	01r1376								
287086	01r1378	0	0	0	0	0	0	1	0
287088	01r1375								
287090	01r1373								
287093	01r1382								
287108	Prss27	0	0	0	0	0	1	0	0
287130	Ptx4	0	0	0	0	0	2	0	0
287168	Hbz								
287185	Foxi1								
287232	01r1383								
287236	01r1385								
287237	01r1386								
287240	01r1389								
287245	01r1398								
287247	01r1401								
287259	01r1409								
287262	01r1407								
287287	I14								
287309	01r1423								
287310	01r1422	0	0	0	0	1	0	0	1
287313	01r1418								
287314	01r1416								
287316	01r1425								
287321	01r1432								
287322	01r1434								
287324	01r1436								

287325	01r1437								
287328	01r1439								
287329	01r1440								
287331	01r1443								
287336	01r1448								
287343	01r1454								
287347	01r1458								
287349	01r1461								
287363	01r1463	0	0	0	0	1	0	0	1
287469	Foxn1								
287481	01r1467	0	1	0	0	0	0	0	0
287484	01r1482								
287487	01r1475								
287489	01r1485								
287496	01r1492								
287501	01r1498								
287502	01r1499								
287506	01r1505								
287508	01r1507								
287509	01r1511								
287511	01r1512								
287513	01r1513								
287514	01r1514								
287516	01r1517								
287517	01r1519								
287520	01r1516								
287557	Spaca3								
287570	Gas212								
287613	01r1521	0	0	0.5	0	0	0	0	0
287614	01r1522	0	0	0.5	0	0	0	0	0
287624	Kif2b	0	0	0	1	0	0	0	0
287675	Krt24	1	0	0	0	0	0	0	0
287697	Krt35								
287698	Krt36								
287702	Krt17								
287730	Pyy	2	0	0	1	0	0	0	0
287741	FAM187A	0	0	4	0	0	0	0	0
287753	Spp12c	0	0	1	0	0	0	0	0
287783	RGD1559578								
287820	Otop2	2	0	1	0	0	0	0	0
287920	St6galnac1	0	0	1	0	0	0	0	0
287942	Crkl								
287968	01r1570								
287969	01r1569								
287970	01r1567								
287973	01r1566								
288006	Rtp1	0	0	0	0	0	0	1	1
288067	Csta								
288075	Stfa3	0	0	0	1	0	0	0	0
288136	RGD1565996								
288154	Hoxd13	0	0	0	0	1	1	0	0
288155	Evx2								
288184	01r1563								
288185	01r1562								
288186	01r1561								
288187	01r1559								

288190	01r1557								
288192	01r1553								
288196	01r1549								
288198	01r1537								
288199	01r1536								
288244	Ifitm7	0	0	0	1.2	0	0	0	0
288291	Tmprss15								
288297	Krtap15-1								
288360	Car15								
288378	Clec4m								
288396	Vom2r59								
288457	Gsx1								
288517	Cyp2w1	0	0	0	0	0	1	0	0
288521	LOC288521								
288736	Foxn4								
288789	01r875	0	0	0	1	0	0	0	0
288790	01r880								
288792	01r881								
288795	01r917								
288797	01r905								
288798	01r920								
288801	01r907								
288803	01r883								
288806	01r908								
288808	01r903								
288810	01r901								
288811	01r898								
288813	01r896								
288816	01r892								
288818	01r889								
288822	01r1072								
288823	01r1071								
288828	01r1063								
288829	01r1061								
288831	01r1059								
288835	01r1055								
288839	01r1051								
288840	01r1049								
288850	01r1029	0	0	0	0	0	0	0	1
288851	01r1024								
288854	01r1020								
288858	01r1016								
288861	01r1012								
288875	01r943								
288876	01r947								
288878	01r950								
288881	01r1002								
288886	01r1006								
288887	01r1007								
288891	01r1000								
289010	Zp3r	1	0	0	0	0	0	0	0
289055	F13b	0	0	0	0	0	0	1	0
289057	Cfhr1								
289239	01r1579	1	0	0	2	0	0	0	0
289240	01r1582								
289241	01r1583								

289251	Olr1589	0	0	0	0	1	0	0	0
289255	Olr1593	0	0	0	0	0	0	0	1
289260	Olr1600	0	0	0	0	0	0	1	0
289261	Olr1601								
289269	Becn2								
289295	Vom2r30	0	0	0	1	0	0	0	0
289329	Ccdc121	0	0	0	1	0	0	0	0
289334	Ccdc185	2	0	0	0	0	0	0	0
289407	Atp6v1g3	0	0	0	0	0	1	0	0
289433	Vom2r69								
289481	Gk2								
289525	Enam								
289526	Vcsa2	0	0	0	0	0	1	0	0
289530	Prr27								
289546	Tmprss11g								
289662	Apex211	0	0	0	1	0	0	0	0
289701	RGD1565560	0	0	0	0	0	3	1	0
289759	Myl7	0	0	0	0	0	1	0	0
289923	Olr1605								
290001	Olr1624								
290002	Olr1626								
290005	Olr1630								
290006	Olr1608								
290008	Olr1610								
290009	Olr1611								
290010	Olr1612								
290018	Olr1620								
290020	Olr1621								
290049	Olr1640								
290050	Olr1641								
290056	Olr1645								
290202	Olr1646								
290244	Mcpt3	0	0	0	1.01	0	0	0	0
290344	Adam28	0	0	0	0	0	1	0	0
290493	Oxgr1	0	0	0	0	1	0	0	0
290580	RGD1563346								
290583	RGD1564225								
290589	RGD1562641	0	0	0	0	1	0	0	0
290638	B3gnt3	0	0	0	0	0	0	1	0
290685	Tkt12	0	0	0	0	0	0	0	1
290757	F11								
290763	Adam26a								
290766	Triml2								
290767	Triml1								
290774	Adam24	1	0	0	0	0	0	0	0
290818	RGD1562638								
290856	Defa24								
290876	LOC290876	0	1	0	0	0	0	0	0
290911	RGD1564807								
290916	RGD1565806	0	0	0	0	0	0	0	1
290921	Gdf2								
290957	Olr1653								
290970	Cts7								
290972	Cts811								
290975	Ctsr	0	0	0	0	0	0	1	1
290981	RGD1308751								

290989	Catsper3	1	0	1	0	0	0	0	0
291077	RGD1307537	0	0	0	0	1	0	0	0
291161	01r1658	1	0	0	1	0	0	0	0
291172	01r1660								
291283	Akr1c2								
291287	Tuba13								
291328	Slc39a12								
291361	01r1662								
291468	Gykl1								
291470	Ftmt								
291585	Pudp								
29160	Amelx								
291608	RGD1563060	0	0	0	0	0	1	0	0
29170	Aqp6	0	0	0	0	1	1	0	0
29172	Aqp8	0	1	0	1	0	0	0	0
29174	Ctsj								
29188	Csn3								
291991	Tmed6								
29229	Spt1								
292311	Tt112	1	0	0	0	0	0	0	0
292324	01r387								
292417	Vom2r11								
292419	Fpr-rs3	0	0	0	0	0	1	0	0
292438	Vom2r2								
29245	Klk6								
292458	Raet1c								
292474	RGD1560633	0	0	0	0	1.21	1.24	0	1.27
292516	Act19b								
292531	Vom2r26	0	0	0	1	0	0	0	0
292560	01r4	0	0	0	0	0.5	0	0	0
292561	01r5								
292563	01r8								
292566	Zscan5b	1	0	0	0	0	0	0	0
292572	RGD1564651								
292574	Obox2								
292577	Nlrp9								
292583	Rfpl4a	0	0	0	0	1	0	0	2
292607	Vom1r53								
292625	Crxos1								
29265	Mcpt1	0	0	0	0	0	1	0	0
292666	Psg29								
292668	Ceacam11								
292688	Snrpd21	0	0	0	0	0	0	0	0.93
292697	Apoc2	0	1	2	0	0	0	0	0
292711	RGD1564380	0	0	0	0	2.03	0	0	1
292728	Cyp2b21								
292801	Scgb1b24								
292849	Klk11								
292851	Klk9	0	0	0	0	0	0	1	0
292852	Klk7	1	0	0	0	0	0	0	0
292855	Klk1c12								
292866	Klk1c8	0	0	0	0	0	0	0	1
292868	Klk1c9								
292872	Klk1c3	0	0	0	0	0	1	0	0
292873	Klk15								
292928	RGD1560730								

292934	Dbx1								
292948	RGD1560303	2	0	0	1	0	0	0	0
29295	Cyp2b12	0	0	0	0	1	0	0	0
29298	Cyp2c7	0	0	0	1	0	0	0	0
293048	Rhcg	0	1	0	1	0	0	0	0
293070	Olr11	0	0	0	0	0	0	0.5	0
293072	Olr10								
293075	Olr13								
293081	Olr19								
293083	Olr20								
293085	Olr23								
293091	Olr30								
29310	Mc3r								
29311	Msb								
293188	Olr48								
293189	Olr47								
293192	Olr45								
293193	Olr44								
293195	Olr41								
293198	Olr39								
293201	Olr62	0	0	0.5	0	0	0	0	0
293205	Olr56								
293210	Olr50								
293211	Olr49								
293214	Olr68								
293215	Olr70								
293218	Olr74								
293221	Olr78								
293222	Olr79								
293223	Olr80								
293224	Olr81								
293226	Olr83								
293227	Olr84								
293228	Olr85	0	0	0	0	0	0	0	1
293232	Olr91								
293233	Olr92	0	0	1	0	0	0	0	0
293234	Olr93								
293238	Olr97								
29324	Capza3								
293240	Olr98								
293242	Olr103								
293243	Olr104								
293244	Olr105								
293245	Olr106								
293246	Olr107								
293247	Olr108								
293250	Olr112	0	0	0	1	0	0	0	0
293251	Olr113								
293253	Olr115								
293255	Olr119								
293256	Olr120								
293257	Olr121								
293258	Olr122								
293260	Olr124								
293262	Olr126								
293263	Olr128								

293268	01r130								
293271	01r132								
293273	01r136								
293278	01r139								
293279	01r140								
293280	01r141								
293281	01r143								
293282	01r144								
293285	01r148								
293287	Ubqlnl								
293288	RGD1310717	0	0	0	1	0	0	0	0
293289	01r149								
293301	01r153								
293304	01r157	0	0	1	0	0	0	0	0
293312	01r165								
293314	01r167								
293315	01r168	0	0	0	0	0	0	0	1
293316	01r170								
293318	01r171								
293319	01r172								
293321	01r176								
293325	01r178								
293327	01r180								
293328	01r183								
293329	01r184								
293330	01r185								
293333	01r189								
293334	01r190								
293336	01r193								
293338	01r196								
293339	01r197	0	1	0	0	0	0	0	0
293340	01r200	0	0	0	0	0	0	1	0
293342	01r201	0	1	0	0	0	0	0	0
293350	01r203								
293351	01r204								
293353	01r206								
293355	01r208								
293358	01r211	0	1	0	0	0	0	0	0
293361	01r214	0	0	0.5	0	0	0	0	0
293362	01r215								
293364	01r217	0	0	0	0	0	1	0	0
293365	01r219								
293367	01r221								
293368	01r222								
293369	01r223								
293370	01r227								
293373	01r229								
293374	01r230								
293375	01r231								
293377	01r233								
293379	01r234								
293381	01r235								
293382	01r237								
293383	01r239								
293384	01r240								
293387	01r242								

293389	01r244								
29339	Apcs								
293390	01r245								
293391	01r246								
293392	01r247								
293394	01r251								
293398	01r252								
293399	01r263								
293400	01r262								
293402	01r259								
293421	01r285	0	0	0	0	0	0	0	1
293424	01r282								
293425	01r281								
293429	01r279								
293431	01r276								
293435	01r267								
293437	01r270								
293439	01r272								
293442	Abca15	0	1	0	0	0	0	0	0
29349	Fgf8								
293515	Ctf2	0	0	0	0	0	0	1	0
293537	Hmx3								
293538	Hmx2								
293573	Mmp21	0	0	0	0	0	0	1	1
29359	Pla2g10	0	0	0	1	0	0	0	0
293590	01r288								
293595	01r295								
293596	01r297								
293597	01r298								
293598	01r299								
293600	01r302								
293601	01r303								
293603	01r305								
293605	01r307								
293607	01r309								
293656	RGD1307603	0	0	0	1	0	0	0	0
293669	Cd248								
29368	Fgf17	0	0	0	0	0	1	0	0
293739	Ms4a10	0	1	0	0	0	0	0	0
29375	Uncx								
293759	01r321								
293761	01r323								
293762	01r324								
293763	01r325								
293764	01r326								
293765	01r327								
293769	01r332	1	0	0	1	0	0	0	0
293773	01r329								
293781	01r338								
293785	01r340								
293788	01r343								
293789	01r346								
293793	01r352								
293794	01r357								
293803	01r371								
293805	01r373								

293808	01r375								
293809	01r376								
293810	01r377								
293813	01r380								
293815	01r382								
293816	01r383								
293817	01r384	0	0	1	0	0	0	0	0
293847	Dusp9	1	1	0	1	0	0	0	0
293862	Fam50a								
293890	Mlana								
293918	Fmr1nb	0	0	1	0	0	0	0	0
293976	Dmrt3	1	0	0	0	0	0	0	0
29410	Neurog1								
294109	01r385								
294121	Taar2								
294122	Taar4	0	0	0	0	0	0	0	1
294123	Taar5								
294124	Taar6								
294125	Taar7a								
294126	Taar7b								
294130	Taar7h								
294131	Taar7g								
294133	Taar7e								
294134	Taar7d								
294138	01r1671								
294140	01r1668	0	0	0	0	1	0	0	0
294143	01r1673								
294150	01r1683								
294151	01r1684								
294152	01r1686								
294155	01r1704	0	2	0	0	0	0	0	0
294157	01r1702								
294158	01r1696								
294159	01r1695								
294161	01r1691								
294162	01r1690								
294164	01r1688								
294175	01r1714								
294183	01r1724	0	0	0	1	0	0	0	0
294186	01r1729	0	0	0	0	0	0	1	0
294245	Ly6g5c								
294268	Btn3a2	0	0	0	0	0	0	0	1
294328	Aire								
294342	Slc5a4b	0	1	0	0	0	0	0	0
294503	Nodal								
29478	Ndufs6	0	0	2.56	0	0	0	0	0
295047	Rexo111-ps1								
295076	Aadac12								
295180	Pglyrp3b								
295190	Rptn	0	2	1	0	0	0	0	0
295199	RGD1560661								
29535	Pdx1								
295351	Chi313								
295352	RGD1309110								
295362	Gstm61	0	0	0	0	1.88	1.07	1.06	0.7
295498	Adh6a								

295589	Tas2r134								
295711	0lr440								
295712	0lr441								
295713	0lr442								
295714	Fads211								
295715	0lr443								
295719	0lr447								
295720	0lr448								
295721	0lr450								
295723	0lr453								
295724	0lr454								
295725	0lr455	1	0	0	0	0	0	0	0
295729	0lr459								
295730	0lr461								
295732	0lr462								
295734	0lr464								
295735	0lr465								
295736	0lr466								
295739	0lr469								
295741	0lr470								
295743	0lr472								
295744	0lr473								
295746	0lr476								
295747	0lr477								
295748	0lr479								
295750	0lr484								
295751	0lr485								
295754	0lr488								
295758	0lr493								
295759	0lr495								
295763	0lr502								
295765	0lr510								
295766	0lr513								
295767	0lr514								
295768	0lr515	0	0	0	1	0	0	0	0
295769	0lr516								
295771	0lr517								
295772	0lr519	0	0	0	0	0	1	2	0
295776	0lr528								
295781	0lr526								
295786	0lr530								
295790	0lr539								
295792	0lr540								
295795	0lr550								
295797	0lr554								
295798	0lr555								
295799	0lr558								
295801	0lr560								
295806	0lr567								
295813	0lr575								
295814	0lr576								
295822	0lr588								
295824	0lr592								
295827	0lr597								
295828	0lr598								
295829	0lr602								

295834	01r607								
295835	01r609								
295836	01r610								
295839	01r614								
295843	01r619								
295848	01r631								
295852	01r639								
295858	01r651								
295862	01r655								
295863	01r657								
295864	01r658								
295865	01r659								
295869	01r663								
295870	01r664								
295875	01r668								
295876	01r669								
295878	01r672								
295880	01r673								
295881	01r674								
295884	01r678								
295885	01r679								
295890	01r684								
295891	01r686								
295892	01r687								
295896	01r694								
295900	01r702								
295907	01r713								
295910	01r718								
295914	01r721	0	0	0	1	0	0	0	0
295917	01r728	0	0	0	0	0	1	0	0
295919	01r731								
295999	Ankrd30a								
296001	01r748								
296003	01r750								
296004	01r752								
296005	01r754								
29601	Gja8								
296010	01r758								
296016	01r763								
296022	01r769								
296023	01r770								
296026	01r773								
296028	01r775								
296035	01r781								
296037	01r783								
296042	01r789								
296044	01r792								
296220	Cst11	0	0	0	0	0	1	0	0
296229	P22k15								
29623	Ugt2b37								
296230	RGD1563136								
296234	Cyss								
296235	LOC296235								
296307	Fer114	0	0	0	0	0	1	0	1
29632	Hsd3b2	0	0	1	0	0	0	0	0
296321	Bpi	0	0	1	1	0	0	0	0

296354	Svs3b								
296356	RGD1563818	0	0	0	0	0	0	0.6	0
296366	Wfdc3	1	0	0	1	0	0	0	0
296411	Fam209a	0	0	0	1	0	0	0	0
296455	Zswim2								
296504	Abo2								
29651	Aldh1a7	0	0	1.11	2.21	0	0	0	0
296535	Psx1	0	1	0	0	0	0	0	0
296541	Il36a								
296577	Glt6d1	0	0	0	0	0	0	1	0
296578	Lcn9	0	1	0	0	0	0	0	0
296661	Olr400								
296663	Olr397	0	0	0	0	0	1	0	0
296666	Olr403								
296667	Olr404								
296669	Olr406								
296672	Olr408								
296675	Olr411								
296677	Olr415								
296678	Olr416								
296679	Olr417								
296682	Olr420								
296684	Olr422	1	0	0	0	0	0	0	0
296685	Olr423								
296686	Olr424								
296687	Olr425								
296689	Olr428								
296690	Olr429								
296694	Olr434	0	0	0	0	0	3	1	0
29684	Klrc2	2	0	0	0	0	0	0	0
29689	Gabrd	0	0	1	0	0	0	0	0
29708	Gabra6	0	0	0	0	0	0	1	0
297081	Svs1								
297173	RSA-14-44	0	0	0	0	1	0	2	0
297418	Gkn1	0	0	0	0	0	0	1	0
297439	Vomlr100								
29749	Ppp3r2	1	0	0	0	0	0	0	0
297572	Cpamd8								
297645	Klrel	1	0	0	2	0	0	0	0
297671	RGD1559532								
297767	Rbpjl2								
297899	RGD1562036	0	0	0	0	1	0	0	0
298038	Olr853								
298039	Olr852								
298040	Olr851	0	0	1	0	0	0	0	0
298042	Olr850								
298044	Olr848								
298045	Olr847								
298046	Olr845								
298049	Olr841								
298109	RGD1566134	0	0	0	0	0	1.56	1.61	1.31
298164	Tex13c	0	1	0	0	0	0	0	0
298205	Ifna4	0	0	0	0	1	0	1	0
298210	Ifna1	0	0	0	0	0	0	1	0
298211	Ifna11	0	0	0	0	0	1	0	0
298213	Ifna2								

298232	Zfp353								
298331	RGD1566184								
298340	Slc6a14	0	0	1	1	0	0	0	0
298346	Rhox11								
298352	Rhox9								
298423	Cyp4a3								
298449	Klf17								
298474	Olr865								
298475	Olr866								
298483	Lao1	1	0	2	1	0	0	0	0
298595	Padi6								
298613	Pramef5								
298621	RGD1306186								
298623	RGD1308878	0	1	1	0	0	0	0	0
298671	Actrt2	0	0	0	0	0	0	0	1
298692	Tt1110	0	0	0	1	0	0	0	0
298724	Olr990								
298733	Olr840								
298734	Olr839	2.53	0	0	0	0	0	0	0
298892	RGD1565679	0	0	2	0	0	0	0	0
298954	Prps111	0	0	1	0	0	0	0	0
298959	Agr3	0	0	0	0	0	0	0	1
298963	Lrrc72	0	0	0	1	0	0	0	0
299007	Gpr33								
299061	Nkx2-8								
299172	RGD1565752								
299270	Serpina6	0	0	0	0	0	0	0	1
299274	Serpina9	0	0	2	0	0	0	0	0
299276	Serpina3m								
299277	LOC299277	1	0	1	2	0	0	0	0
299282	LOC299282	0	0	0	0	0	1.11	1.17	1.31
299306	RGD1564855	0	0.88	0	0	0	0	0	0
299499	Sp8								
299553	Olr1090								
299555	Morc2b	0	0	0	0	0	0	1	0
299570	Olr1092	0	0	0	0	0	0	0	1
299576	Olr1095								
299587	Casp14								
299588	Olr1086								
299589	Olr1085								
299593	Olr1078								
299596	Olr1075	0	0	0	0	0	0	0	1
299600	Odf312								
299648	Zfp494	0	0	0	1	0	0	0	0
299649	Vomlr108								
299683	Vom2r57	0	0	0	0	1.62	0	2	1
299766	Myf5								
299889	Dcstamp	0	0	0	1	0	0	0	0
299944	Slc22a22	0	0	0	1	0	0	0	0
299963	RGD1564515								
300024	LOC300024	1.03	0	0	0	0	0	0	0
300108	Pnpla5	0	0	0	0	1	0	0	0
300121	Smc1b	0	0	0	0	0	0	1	0
300150	Klhdc7b	0	0	0	1	0	0	0	0
300194	Olr1102	0	0	0	2	0	0	0	0
300205	Olr1111								

300248	Krt73								
300262	Hoxc12	1	0	0	0	0	0	0	0
300323	Zdhhc25								
300338	Mmp1b								
300339	Mmp1	0	0	0	0	0	1	0	0
300340	Mmp27	0	0	1	1	0	0	0	0
300341	Mmp20	0	1	1	0	0	0	0	0
300381	RGD1304745								
300389	Mbd311								
300392	Olrl124								
300395	Olrl139								
300400	Olrl130								
300405	Olrl145								
300407	Olrl146								
300408	Olrl147								
300411	Olrl151								
300414	Olrl155								
300425	Olrl169								
300524	Olrl196								
300529	Olrl204								
300538	Olrl214								
300540	Olrl217								
300548	Olrl222								
300551	Olrl226								
300552	Olrl227								
300554	Olrl229								
300557	Olrl232	0	0	0	0	0	1	0	0
300558	Olrl234								
300560	Olrl235								
300565	Olrl240								
300566	Olrl241								
300567	Olrl242								
300568	Olrl243								
300573	Olrl248								
300576	Olrl251								
300577	Olrl252								
300581	Olrl259								
300583	Olrl264								
300584	Olrl265								
300589	Olrl273								
300595	Olrl285								
300599	Olrl293								
300600	Olrl297								
300602	Olrl301								
300603	Olrl302								
300605	Olrl304								
300607	Olrl306								
300610	Olrl309								
300613	Olrl311								
300615	Olrl314								
300616	Olrl315								
300620	Olrl319								
300621	Olrl320								
300624	Olrl323								
300625	Olrl325								
300626	Olrl326								

300627	01r1327								
300630	01r1330								
300632	01r1332								
300634	01r1334								
300635	01r1335								
300637	01r1337								
300639	01r1339								
300640	01r1340								
300643	01r1341								
300790	Slc51b	1	0	1	0	0	0	0	0
300954	Sox14								
301015	Fbxw12								
301027	Prss42	0	0	0	1	0	0	0	0
301066	Ccr8								
301101	Dppa5								
301106	Trim42								
301114	Slc25a41								
301137	Vom2r79								
301165	LOC301165	0	0	0	0	0	0	0	2
301230	RGD1565959								
301284	Tfap2d								
301289	I117a								
301306	RGD1309049								
301468	Crygb								
301610	01r1344	0	0	0	0	0	1	0	0
301816	Ssty1	0	2	0	1	0	0	0	0
302027	01r1096	0	0	1	1	0	0	0	0
302041	01r956								
302044	01r959								
302045	01r962								
302172	RGD1563270								
302228	LOC302228								
302244	RGD1564712								
302254	01r886								
302311	RGD1564748								
302366	RGD1562871	0	0	0	0	0	0	1	0
302367	RGD1561552								
302368	Tent5d	0	0	0	0	0	0	1	0
302399	Zcchc13								
302426	Otud6a	0	0	0	0	0	1	0	0
302435	RGD1563590								
302438	Mageb11								
302441	Mageb6								
302442	Mageb5								
302447	RGD1563978								
302448	RGD1562980								
302488	Usp26								
302536	RGD1561661	0	2	1	1	0	0	0	0
302638	Magea8	0	0	0	0	0	0	0	1
302685	RGD1560203	0	1	0	1	0	0	0	0
302744	Mageb2								
302746	Mageb3								
302748	Mageb1								
302772	RGD1562485								
302773	RGD1563104								
302776	RGD1561230								

302780	Rbm31y								
302783	H2afb3								
302796	Actrt1								
302821	Olr1765								
302823	Olr1766								
302824	Olr1767								
302825	Olr1751								
302860	Gpr1121								
302867	Dusp21								
302879	Smptb	0	0	0	0	0	0	0	1
302958	Olr1369								
303181	Wnt3a								
303234	Ccdc42								
303296	Olr1504								
303479	Calcoco2								
303480	Hoxb13	0	0	0	0	0	1	0	0
303530	Krt16	0	0	0	0	0	1	0	0
303729	Enpp7								
303835	Rtp2								
303861	Cpn2								
304026	Olr1533								
304125	Cldn17	0	1	0	0	0	0	0	0
304195	Pcp2	1.13	1.13	0	0	0	0	0	0
304508	Oasl1d	0	0	0	0	0	0	0	1
304514	Tbx5								
304603	Apon	0	0	0	1	0	0	0	0
304610	Olr878								
304633	Olr1065								
304688	Serpinb3								
304689	Serpinb11	0	0	0	0	0	1	1	0
304985	Olr1576								
305123	Brdt	0	1	1	0	0	0	0	0
305711	Olr1606								
305844	Rnasel12								
306073	Kbtbd6								
306168	Sox21								
306540	Got111	0	0	0	0	0	0	1	0
306655	Irx4	0	0	0	0	0	1	0	0
306659	Irx1	0	0	1	0	0	0	0	0
306718	RGD1564657								
306720	Ctsm								
306798	Nutm2f	1	0	1	0	0	0	0	0
306883	Fam50b	1	0	0	0	0	0	0	0
306890	Serpinb9d	0	0	0	0	1	0	0	0
306929	Pr17a4								
307092	Akr1c1	1.01	0	0	0	0	0	0	0
307203	RGD1559726								
307563	Dsc3								
307727	LOC307727								
307767	Frem3	0	0	0	0	0	1	0	0
308015	Clca1	0	0	0	0	0	0	1	1
308129	Iyd	0	0	0	0	0	1	0	0
308169	Tcp10b								
308248	Vom2r4	0	0	0	0	0	1	0	0
308257	Vom2r6	1.42	0	0	0	0	0	0	0
308344	Fam71e2								

308353	RGD1564617								
308394	Psg16								
308562	Klk14	0	1	1	1	0	0	0	0
308564	Klk12								
308565	Klk8								
308717	Slc35d3	0	0	0	0	2	0	1	1
308853	Olr37								
308905	Ubqln3								
308919	Ovch2	0	1	0	0	0	0	0	0
309028	RGD1559891								
309114	Muc5b	0	0	0	0	1	0	0	0
309133	Mrgprg								
309221	Olr318	1	0	0	0	0	0	0	0
309222	Olr319								
309266	Pnma5								
309275	Trex2	0	0	0	0	0	2	0	0
309304	Pdcd1lg2	0	0	0	0	0	2	0	1
309389	Nkx2-3	0	0	2	0	0	0	0	0
309449	Elov13								
309528	Lipm								
309574	Olr1687								
309578	Olr1709								
309680	Dnmt31								
310575	Spr3								
310596	RGD1565369								
311031	RGD1564306								
311173	Olr561								
311175	Olr601								
311179	Olr698								
311180	Olr725								
311559	Bpifa5	1	0	0	1	0	0	0	0
312203	Klf14								
312273	LOC312273								
312317	Doxl2	0	0	0	0	0	0	1.08	0
313089	Slc7a13	0	0	0	0	0	0	1	0
313163	RGD1306195	0	0	0	0	1	0	0	0
313451	Rhox4g								
313484	Dmrtb1								
313485	Skint4								
313546	Olr856								
313596	Tfap2e	0	0	0	3	0	0	0	0
313686	Aadacl3								
313688	Aadacl4								
314459	Amn	0	0	0	0	0	2	2	0
314539	Macc1	2	1	1	0	0	0	0	0
314659	Act19								
314746	Usp44								
314848	Lrrc10								
314858	RGD1306282								
315075	Ly6d								
315095	Tssk5								
315323	Krt4								
315324	Krt78								
315337	Hoxc13	0	0	0	2	0	0	0	0
315347	Gtsf1								
315350	Irs4								

315452	Olr1121								
315571	Olr1280								
315572	Olr1283								
315573	Olr1307								
315650	Btg4	0	0	0	0	0	0	1	1
315915	Pih1d3								
315953	Cldn18	0	0	0	0	0	1	0	0
316000	Act111								
316142	Tes1								
316259	Opn5								
316265	Pgk2	0	0	0	1	0	0	0	0
316304	Lgsn	0	0	0	0	2	0	0	0
316409	Hsfy2								
316465	RGD1562431								
316633	Olr1346								
316777	Txndc2								
317272	RGD1563554								
317274	Mageb16								
317297	Magea9								
317310	Ct55	0	0	0	0	1	0	0	1
317314	RGD1561558								
317316	Plac1	0	0	1	0	0	0	0	0
317356	LOC317356	1.82	0	0	0	0	0	0	0
317456	LOC317456								
317471	Saxo11	0	0	0	2	0	0	0	0
317584	RGD1566225	0	0	0	0	1	0	0	0
317597	RGD1560585								
317604	RGD1566008								
317715	Gsc								
319104	Taar8a								
338443	Gpbar1	0	0	0	0	0	1.01	0	1.01
353306	Spata31a5								
360228	Wfdc21								
360229	Cox8c								
360395	Grpcb								
360506	RGD1311343	0	0	0	0	1	1	0	2
360508	Smim23								
360700	RGD1562683	0	0	0	3	0	0	0	0
360731	Tprg1								
360790	Upk3b								
360873	Gpa33								
360933	LOC360933	0	0	0	0	0	0	1.03	0
361012	Spetex-2E	1.27	2.75	0	0	0	0	0	0
361033	Olr1619								
361049	RGD1563302								
361205	Lect2	0	0	1	0	0	0	0	0
361510	Sult2a2								
361516	Igf13								
361523	Cyp2b2								
361538	Prodh2	1	0	0	0	0	0	0	0
361544	Etv2								
361551	Scgb1b30								
361638	Acsml								
361733	Ms4a8	1	0	0	0	0	0	0	0
361739	Tmc1	0	0	0	2	0	0	0	0
361969	Fga	0	0	0	0	0	0	1	0

362077	I11f10								
362085	Sohlh1								
362120	RGD1308742								
362231	Cst9l								
362267	Svs6								
362280	Tfap2c								
362346	Prss37								
362347	Try4								
362433	RGD1307916								
362450	Prp2								
362451	RGD1306750								
362525	Txndc8								
362527	Mup4	0	0	1	0	0	0	0	0
362821	01r1069								
362901	LOC362901	1	0	0	0	0	0	0	0
362915	Anxa13	0	0	2	0	0	0	0	0
362921	LOC362921	0	0	0	0	0	1.03	0	0
363041	Pate4								
363043	RGD1304554								
363044	RGD1560112								
363168	Lyz14								
363437	Rhox12								
363439	Rhox2								
363507	RGD1564845								
363508	Vgll1								
363542	12-Sep								
363546	01r1362								
363549	01r1381								
363585	01r1393	0	0	0	1	0	0	0	0
363606	01r1433	2	0	0	0	0	0	0	0
363608	01r1457								
363639	01r1481								
363640	01r1493								
363642	01r1509								
363678	Krtap3-3								
363710	01r1525								
363739	Krtap14l								
363741	Krtap7-1								
363761	01r1538								
363762	01r1540								
363763	01r1542								
363826	01r1568								
363856	Cd209	0	1	0	0	0	0	0	0
364021	Rgs12h								
364023	RGD1561635	1	0	0	0	0	0	0	0
364054	01r1581								
364086	Vom2r70	1	0	0	0	0	0	0	0
364129	RGD1562394	0	1	0	0	0	0	0	0
364140	Gsx2								
364275	01r1607								
364306	01r1643								
364359	LOC364359	0	1	0	0	0	0	0	0
364418	Nkx2-6	0	0	1	0	0	0	0	0
364513	Antxr1								
364599	Adam341								
364719	Prss16	0	0	0	0	0	1	0	0

364726	01r1657	0	0	0	0	1	0	0	0
364764	RGD1564347								
364774	Calml5								
364798	Potec								
364841	Pcdhb1	0	0	0	0	0	0	0	2
364906	Mrps211	0	0	0	0	0	1.36	0	0
364910	Sall3	0	1	1	0	0	0	0	0
364979	01r1667	0	0	1	0	0	0	0	0
365055	LOC365055								
365159	LOC365159								
365170	01r11								
365175	01r6	0	0	0	0	0.5	0	0	0
365184	Nlrp4b	0	0	0	0	0	0.58	1.06	0
365190	Vomlr54								
365213	Nanos2	0	0	0	0	0	1	0	0
365227	Upk1a								
365229	RGD1561430								
365265	Tmprss11b	0	0	0	0	1	0	0	0
365302	01r12								
365324	01r67								
365326	01r69	0	1	0	0	0	0	0	0
365327	01r75								
365328	01r82								
365329	01r87	0	0	0	0	1	0	0	0
365330	01r142								
365331	01r145								
365334	01r158								
365336	01r192								
365340	01r218	1	0	0	0	0	0	0	0
365341	01r220								
365342	01r224								
365385	01r311								
365413	01r361								
365523	01r1693								
365528	Trim40								
365547	RGD1561557	1	0	0	0	0	0	0	0
365549	RGD1563815								
365577	RGD1559810								
365791	LOC365791								
365854	Tdpoz1								
365885	01r390	0	0	0	0	0	1	0	0
365963	Lhx8								
366008	Lcn8								
366024	01r395								
366026	01r399								
366082	Hoxd12								
366099	01r482								
366100	01r522								
366102	01r532								
366103	01r536								
366104	01r541								
366105	01r542								
366108	01r577								
366109	01r578								
366111	01r690								
366112	01r705								

366113	01r710								
366114	01r722								
366115	01r724								
366118	01r736								
366120	01r741								
366121	01r742								
366122	01r744								
366123	01r745								
366151	01r777								
366152	01r791								
366158	Tmco5b	0	0	1	0	0	0	0	0
366213	Nkx2-4								
366219	Cst5								
366244	Gtsf11								
366362	01r838								
366441	Slc5a9	1	0	0	0	0	0	0	0
366456	01r857	0	0	0	0	0	0	1	0
366457	01r858								
366458	01r859								
366498	RGD1559644								
366567	Dna.jc5g								
366668	Gphb5	0	0	0	1	0	0	0	0
366793	01r879								
366797	01r916								
366798	01r921								
366799	01r927								
366803	01r937								
366804	01r960								
366810	01r987								
366816	01r1070								
366834	01r1081								
366843	01r1091								
366890	Glipr112								
366991	Krt82								
367012	Ddil								
367060	01r1230								
367064	01r1294								
367065	01r1295								
367067	01r1328								
367106	Foxb1								
367117	LOC367117								
367149	RGD1561847	1.06	0	0	0	0	0	0	0
367254	RGD1564447	0	0	0	0	0.35	0	0	0
367265	RGD1561618	0	0	0	1.15	0	0	0	0
367321	Slco6d1								
367391	Marco								
367454	LOC367454	0	1	0	0	0	0	0	0
367480	Vom2r78								
367515	LOC367515	0	0	0.99	1	0	0	0	0
367734	Hypm								
367797	RGD1563991	0	0	0	0	4.01	0	0	0
367830	LOC367830								
367858	LOC367858	0	3.49	0	0	0	0	0	0
367869	RGD1562039	0	0	0	0	0	0	0	1
367928	RGD1565430								
378939	Uts2b	1	0	0	0	0	0	0	0

379044	Qrfp								
396551	Ugt1a3								
396552	Ugt1a9								
399475	Adm2	0	0	0	0	0	0	1	0
399679	Aicda	0	0	0	0	1	0	0	3
404645	Mrgprx21	0	0	0	0	0	0	0	1
404783	Hyal4	1	0	1	0	0	0	0	0
404788	01r796								
404789	01r795								
404790	01r788								
404792	01r785								
404793	01r784								
404794	01r782								
404795	01r780								
404796	01r778								
404797	01r776								
404798	01r772								
404799	01r771								
404800	01r767								
404802	01r757								
404803	01r756								
404804	01r749								
404808	01r737								
404809	01r734								
404810	01r733								
404811	01r727								
404812	01r726								
404813	01r717								
404814	01r716								
404815	01r715								
404816	01r712								
404817	01r711								
404818	01r704								
404819	01r701								
404820	01r695								
404821	01r693								
404822	01r691								
404824	01r681								
404825	01r675								
404826	01r670								
404827	01r665								
404828	01r660								
404829	01r654								
404830	01r653								
404831	01r652								
404832	01r650								
404833	01r649								
404834	01r648	0	0	0	1	0	0	0	0
404835	01r646								
404839	01r641								
404840	01r640								
404841	01r636								
404842	01r635								
404843	01r634								
404844	01r633								
404846	01r625								

404847	01r624								
404848	01r623								
404849	01r621								
404852	01r613								
404853	01r608								
404855	01r604								
404856	01r594								
404858	01r590								
404859	01r587								
404860	01r586								
404861	01r584								
404862	01r582								
404863	01r581								
404866	01r569								
404867	01r566								
404868	01r563								
404869	01r562								
404870	01r559								
404871	01r557								
404872	01r551								
404874	01r537								
404875	01r535								
404876	01r533								
404877	01r529								
404878	01r527								
404879	01r518								
404880	01r508								
404881	01r507								
404882	01r505								
404884	01r500								
404885	01r496								
404887	01r486								
404888	01r483								
404889	01r481								
404890	01r480								
404891	01r475								
404892	01r456								
404893	01r436								
404895	01r32								
404896	01r29								
404897	01r25								
404898	01r24								
404899	01r16								
404901	01r14								
404902	01r1845								
404903	01r1067								
404904	01r1060								
404920	01r1014								
404924	01r996								
404929	01r982								
404938	01r954								
404948	01r922								
404951	01r906								
404956	01r877								
404958	01r1084								
404959	01r1083								

404960	01r1079								
404961	01r1076								
404962	01r1523								
404963	01r1520								
404967	01r1501								
404968	01r1496								
404969	01r1491								
404970	01r1490								
404971	01r1488								
404972	01r1486								
404973	01r1479	0	0	0	0.5	0	0	0	0
404974	01r1471								
404975	01r1470								
404976	01r1469								
404977	01r1468								
404978	01r1558								
404980	01r1555								
404981	01r1551								
404983	01r1541								
404986	01r278								
404988	01r271								
404989	01r268								
404992	01r241								
404994	01r213								
404995	01r209								
404998	01r164								
404999	01r160								
405001	01r150								
405003	01r137								
405004	01r125								
405006	01r111								
405007	01r110	0	1	0	0	0	0	0	0
405009	01r101								
405015	01r72								
405017	01r60								
405018	01r57								
405021	01r1351								
405022	01r1350								
405025	01r363								
405026	01r360								
405027	01r358								
405030	01r348								
405031	01r347								
405032	01r336	0	2	0	1	0	0	0	0
405034	01r330								
405036	01r322								
405039	01r310								
405040	01r306								
405041	01r289								
405043	01r7								
405044	01r1460								
405045	01r1459								
405046	01r1455								
405047	01r1453								
405049	01r1450								
405050	01r1449								

405051	0lr1442								
405053	0lr1435								
405054	0lr1431								
405056	0lr1424								
405057	0lr1421								
405059	0lr1415								
405060	0lr1414	0	0	0	0	0	1	0	0
405061	0lr1411								
405062	0lr1410								
405063	0lr1408								
405064	0lr1406								
405065	0lr1404	0	0	0	0	0	0	1	0
405071	0lr131								
405073	0lr1338								
405074	0lr1331								
405075	0lr1329								
405076	0lr1321								
405077	0lr1316								
405078	0lr1313								
405079	0lr1308								
405080	0lr1303								
405081	0lr1291								
405082	0lr1288								
405084	0lr1286								
405085	0lr1275	0	0	0	0	0	0	0.14	0
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405088	0lr1266								
405089	0lr1262								
405090	0lr1261								
405091	0lr1253								
405092	0lr1250								
405093	0lr1247								
405094	0lr1246								
405095	0lr1245								
405096	0lr1244								
405097	0lr1239								
405099	0lr1231								
405100	0lr1220	0	0	0	0	0	1	0	0
405101	0lr1213								
405105	0lr1202								
405106	0lr1201								
405107	0lr1199								
405108	0lr1194								
405111	0lr860								
405112	0lr427								
405113	0lr421								
405114	0lr418								
405115	0lr413								
405116	0lr409								
405117	0lr407								
405118	0lr401								
405119	0lr398								
405120	0lr396								
405121	0lr1642								
405122	0lr1639	1	1	0	0	0	0	0	0
405123	0lr1638	0	1	0	0	0	0	0	0

405124	01r1633								
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405126	01r1631								
405127	01r1622								
405128	01r1617								
405129	01r1616								
405130	01r1614								
405131	01r821								
405132	01r819								
405133	01r818								
405134	01r816								
405136	01r813								
405137	01r812								
405138	01r811								
405139	01r809								
405140	01r808								
405141	01r807								
405143	01r803								
405144	01r799								
405146	01r844								
405147	01r386								
405148	01r1380								
405150	01r1364								
405155	01r1186								
405158	01r1179								
405164	01r1166								
405165	01r1165								
405166	01r1163								
405167	01r1162	1	0	0	0	0	0	0	0
405168	01r1159	0	0	0	0	0	1	0	0
405169	01r1158	0	0	0	0	0	1	1	0
405171	01r1156								
405172	01r1149								
405173	01r1148								
405174	01r1144								
405175	01r1142								
405177	01r1135								
405178	01r1129								
405179	01r1126								
405180	01r1125								
405181	01r1122								
405182	01r1118								
405183	01r1117								
405185	01r1115								
405186	01r1710								
405188	01r1705	0	0	0	0	0	0	1	0
405189	01r1692								
405190	01r1689								
405191	01r1682								
405192	01r1680								
405193	01r1679								
405194	01r1678								
405196	01r1675								
405198	01r1670								
405202	01r1739	0	0	0	0	0	0.5	0	0
405203	01r1736	0	0	0	0.67	0	0	0	0

405204	01r1726	0	1	0	0	0	0	0	0
405205	01r1718								
405208	01r832								
405209	01r831								
405210	01r830								
405211	01r829	0	0	1	0	0	0	0	0
405212	01r827	0	0	0	0	1	0	0	0
405213	01r826	0	0	0	0	2	0	0	0
405214	01r825								
405215	01r824								
405218	01r1565	0	0	0	1	0	0	0	0
405219	01r1602								
405221	01r1598								
405222	01r1597								
405223	01r1591								
405227	01r392								
405230	01r790								
405231	01r786								
405232	01r779								
405233	01r774								
405234	01r768								
405237	01r753								
405238	01r735								
405239	01r714								
405242	01r666								
405243	01r661								
405245	01r611								
405246	01r606								
405248	01r583								
405249	01r556								
405251	01r499								
405252	01r491								
405253	01r490								
405255	01r463								
405257	01r36								
405258	01r27								
405261	01r17								
405277	01r894								
405280	01r1077								
405281	01r1500								
405285	01r1474								
405286	01r1472	0	0	0	0.5	0	0	0	0
405287	01r1535								
405290	01r260								
405291	01r255								
405293	01r194								
405294	01r179	0	0	0	0	1	0	0	0
405295	01r162								
405297	01r114								
405298	01r109								
405301	01r1352								
405303	01r339								
405304	01r308								
405305	01r1456								
405306	01r1451								
405307	01r1445								

405311	01r1305								
405312	01r1292								
405313	01r1279								
405314	01r1260								
405315	01r1237								
405316	01r1228								
405318	01r1219								
405319	01r1200								
405321	01r419								
405322	01r410								
405325	01r1635								
405326	01r1625								
405328	01r1609								
405329	01r820								
405330	01r810								
405331	01r806								
405332	01r802								
405333	01r1374								
405334	01r1370								
405337	01r1185								
405339	01r1172								
405340	01r1164								
405341	01r1160	0	0	0	1	0	0	0	0
405344	01r1132								
405345	01r1128								
405346	01r1119								
405351	01r828								
405352	01r823								
405353	01r1108								
405355	01r1590								
405356	01r766								
405357	01r689								
405362	01r1073								
405363	01r264								
405364	01r161								
405365	01r46								
405366	01r378								
405368	01r1417								
405371	01r1615								
405372	01r801	0	0	0	0	0	1	0	0
405373	01r1171								
405374	01r1681								
405375	01r1664	1	0	0	0	0	0	0	0
405378	01r53								
405383	01r1560								
405384	01r283								
405386	01r1405								
405387	01r1238								
405388	01r402								
405389	01r1629								
405390	01r1174								
405391	01r1143								
405392	01r205	0	0	0.5	0	0	0	0	0
405393	01r349								
405396	01r1249								
405398	01r1384								

405904	01r51								
405906	01r61	0	0	0.5	0	0	0	0	0
405907	01r77	1	0	0	0	0	0	0	0
405908	01r94								
405909	01r95								
405910	01r96								
405911	01r127								
405912	01r129								
405913	01r135								
405914	01r174								
405915	01r175								
405916	01r181								
405917	01r186								
405918	01r188								
405919	01r198								
405920	01r199								
405921	01r232								
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405933	01r367								
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405935	01r374								
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405937	01r446								
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405940	01r544								
405941	01r545								
405942	01r546								
405943	01r552								
405944	01r596								
405946	01r629								
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405950	01r677								
405951	01r696								
405952	01r697								
405953	01r707								
405954	01r709								
405955	01r720								
405956	01r747								
405957	01r760								
405961	01r862								
405963	01r964								
405964	01r984								
405965	01r1022								
405966	01r1064								
405967	01r1068								
405969	01r1137								

405970	01r1138								
405971	01r1195								
405972	01r1203								
405974	01r1225	0	0	0	0	1	1	1	1
405975	01r1233								
405977	01r1256								
405980	01r1318	0.99	0	0	0	0	0	0	0
405983	01r1391								
405984	01r1392								
405985	01r1394								
405986	01r1395								
405987	01r1396								
405988	01r1397								
405990	01r1399								
405991	01r1400								
405994	01r1515								
405995	01r1528								
405996	01r1529	0	0	0	0	0	0	0	1
405998	01r1531								
406000	01r1543								
406001	01r1545								
406002	01r1546								
406003	01r1547								
406004	01r1548								
406008	01r1694								
406010	01r1697								
406011	01r1699								
406012	01r1700								
406013	01r1701	0	0	0	0	0	0	0	1
406014	01r1707								
406015	01r1720	1	0	0	0	0	0	0	0
406016	01r1722	0	0	0	1	0	0	0	0
406021	01r1197								
406024	01r1347								
406035	01r1652	0	0	0	0	0	0	1	0
406044	01r444								
406045	01r468								
406046	01r471								
406050	01r595								
406053	01r637								
406194	RT1-T18	0	0	0	0	0	0	0.69	0
406199	Muc13								
407759	Kb23								
407761	Krt81	0	0	0	0	0	0	1	0
408030	01r1868								
408201	Ctsql2								
408202	Abhd12b								
408204	Prss58								
408205	Tryx5	0	0	1	0	0	0	0	0
408208	Mcpt411	0	0	0	0	0	1	0	0
408209	Mcpt113								
408210	Klk4	0	0	0	0	1	0	0	0
408211	Klk51	0	0	0	0	0	1	0	0
408214	Stfa211	1	0	0	0	0	0	0	0
408215	Stfa311								
408224	Slpil3								

408226	Wfdc15a								
408228	Wfdc9								
408231	Spink14								
408232	Spint5p								
408235	Spink6								
408236	Mug2	0	0	0	0	0	0	1	0
408237	Spink7								
408239	Mcpt114	1.02	1	0	0	0	0	0	0
408242	Klklc6								
408244	Prss45								
408245	Prss46								
408247	Try10								
414138	Lcn6	0	0	1	0	0	0	0	0
414785	RT1-M6-1	0	0	0	0	1.67	1.89	0	1.4
415052	Sfta2								
432393	Kprp								
442921	Prm3								
446171	Smgc								
450222	Clec4b2	0	0	1	0	0	0	0	0
450226	Ka11	0	0	0	0	0.99	0	0	0
450227	Krt33b								
450228	Krt31	0	2	0	0	0	0	0	0
450230	Krt32	0	0	0	0	0	1	0	0
494195	Ly49s4	0	0.99	0	0	0	0	0	0
494224	Fdcsp								
494225	Vomlr20	0	0	0	0	0	0	1	0
494226	Vomlr58								
494227	Vomlr79								
494228	Vomlr109								
494229	Vomlr21								
494230	Vomlr30								
494231	Vomlr6								
494234	Vomlr1								
494236	Vomlr4								
494237	Vomlr3								
494238	Vomlr80								
494239	Vomlr70								
494240	Vomlr76								
494241	Vomlr72								
494243	Vomlr71								
494245	Vomlr26								
494246	Vomlr5								
494248	Vomlr84	0	0	1	0	0	0	0	0
494251	Vomlr69								
494252	Vomlr22								
494253	Vomlr2								
494254	Vomlr44								
494255	Vomlr68								
494256	Vomlr40								
494258	Vomlr8	0	0	1	0	0	0	0	0
494260	Vomlr107								
494261	Vomlr41								
494262	Vomlr74								
494263	Vomlr67								
494264	Vomlr36								
494265	Vomlr94								

494266	Vomlr47								
494267	Vomlr50								
494268	Vomlr35								
494269	Vomlr49								
494270	Vomlr25								
494271	Vomlr73								
494272	Vomlr37								
494273	Vomlr78								
494274	Vomlr77								
494275	Vomlr96								
494276	Vomlr89								
494277	Vomlr56								
494278	Vomlr52	0	0	1	0	0	0	0	0
494279	Vomlr48								
494280	Vomlr43								
494281	Vomlr51								
494282	Vomlr61								
494283	Vomlr24								
494284	Vomlr32								
494286	Vomlr46								
494287	Vomlr45								
494288	Vomlr23	0	0	0	0	0	1	0	0
494289	Vomlr62								
494290	Vomlr59								
494291	Vomlr66								
494292	Vomlr29								
494293	Vomlr34								
494294	Vomlr98								
494295	Vomlr95								
494296	Vomlr57								
494297	Vomlr27								
494298	Vomlr19								
494299	Vomlr110								
494300	Vomlr11								
494301	Vomlr83	0	0	0	0	0	1	0	0
494302	Vomlr10								
494305	Vomlr15								
494306	Vomlr12								
494307	Vomlr38								
494308	Vomlr28								
494309	Vomlr106								
494310	Vomlr92								
494311	Vomlr63								
494312	Vomlr31								
494313	Vomlr81								
494314	Vomlr75								
494319	Taar3								
494321	Fam115e	0	1	0	0	0	0	0	0
494527	Scgb2b2								
494528	Scgb2b24								
494535	Taar7c								
494538	LOC494538								
497041	Ccdc7	0	0	0	0	0	1	0	0
497227	Muc19								
497229	Ang2								
497787	Vomlr93								

497873	Prss33	0	1	0	0	0	0	0	0
497937	Tmem102	0	0	0	0	0	0	1	0
497957	RGD1565611								
497995	Krtap1-5								
498033	Tex19.1								
498063	Fam243a	0	0	1	0	0	0	0	0
498073	Ccdc54	0	1	0	0	0	0	0	0
498074	Retnlb								
498075	Trat1	1	0	0	0	0	0	0	0
498096	Smc1	0	0	0	0	1	1.5	0	0.5
498146	Spdye4	0	0	0	0	0	1	0	0
498155	LOC498155								
498157	MGC112692								
498165	RGD1562319	0	1.25	0	0	0	0	0	0
498167	RGD1566138								
498198	Cyp3a73								
498209	Serpib3a	0	0	0	0	1	1	2	0
498246	Rgs13								
498284	Itln1								
498308	LOC498308								
498311	Fam71a								
498341	Smr3a								
498344	RGD1565664								
498456	Sntn								
498460	LOC498460								
498490	Olr1878	0	0	0	0	0	1	0	0
498575	Hesx1								
498622	Anxa10	0	0	0	0	0	0	0	1
498633	Helt								
498654	Adam5	0	0	0	0	0	0	1	1
498658	Defa9								
498660	Defb52								
498688	MGC114246								
498689	RGD1564827								
498719	Stmnd1	0	0	0	0	0	2	2	0
498750	LOC498750	0	0	0	0	3.36	0	0	0
498767	RGD1560860								
498789	RGD1564865	0	0	0	0	0	1	0	0
498790	Akr1c1211								
498791	Ucn3								
498854	Scgb3a2								
498855	RGD1559536								
498864	Fam170a								
498866	Znf474								
498914	RGD1564492	0	1.14	0.03	0	0	0	0	0
499097	RGD1565655								
499100	Dmrtc2								
499140	Clnd2								
499147	Izumo2	0	0	0	0	0.5	0.5	0	0.5
499149	Pth2	0	0	0	0	0	0	0	1
499150	Dkk11	0	0	1	0	0	0	0	0
499151	RGD1562492	1	0	0	0	0	0	0	0
499158	Ccdc179								
499222	RGD1562433								
499234	Nlrp14								
499235	LOC499235								

499237	RGD1562400								
499238	RGD1564933								
499256	RGD1559600	0	0	0	1	0	0	0	0
499276	LOC499276								
499297	RGD1562011								
499319	Ms4a13-ps1								
499345	Lipn	0	0	1	0	0	0	0	0
499353	Cyp2c24								
499363	RGD1564887								
499367	Calhm1								
499397	Olr1876								
499400	RT1-M5	0	1.01	0	1.04	0	0	0	0
499510	Spz1								
499516	Tmem174	0	0	1	0	0	0	0	0
499528	Ccno								
499530	LOC499530								
499541	LOC499541	0	0	1	0	0	0	0	0
499542	LOC499542	0	0	0	0	0	0	1	0
499544	LOC499544	0	0	0	0	0	0	0	0.98
499663	Lcelf								
499666	RGD1564972	0	0	0	0	0	1	0	0
499675	Hist2h2ac	0	0	0	0	4.56	0	0	0
499744	I136g	0	0	0	0	0	0	0	1
499756	Lcn10								
499764	Gbgt1								
499836	RGD1563263								
499857	RGD1561276								
499858	RGD1566059								
499860	Olr765								
499867	Phgr1	0	0	0	0	0	1	0	0
499906	RGD1559924	0	0	0	1	0	0	0	0
499924	Bpifb3	2	0	0	0	0	0	0	0
499951	Gata5	0	0	0	0	0	0	1	0
499952	Bhlhe23								
499953	Fndc11	0	0	0	0	0	0	0	1
500028	LOC500028								
500033	Tas2r71								
500048	Fezf1	1	0	0	0	0	0	0	0
500051	Hyal6	0	0	0	1	0	0	0	0
500060	Fam71f2								
500079	Stra8	0	0	0	0	1	1	0	0
500091	Tas2r138								
500092	Moxd2	0	0	0	0	1	0	0	0
500101	Tas2r144								
500119	RGD1563352								
500129	Hoxa13	0	0	0	1	0	0	0	0
500137	Neurod6	0	0	0	0	1	0	0	0
500197	Tex37								
500204	RGD1562515	0	1	0	0	0	0	0	0
500235	Emx1								
500237	Cml2	0.83	0	0	0.76	0	0	0	0
500239	Figla	0	0	0	0	0	0	0	1
500253	Dnajb8	0	0	0	0	0	1	0	0
500312	Vom2r50	0	1	0	0	0	0	0	0
500335	RGD1564770								
500347	Tas2r102								

500432	Spaca1	0	0	0	0	0	2	0	0
500458	Cylc2								
500460	LOC500460								
500473	LOC500473	0	0	0	0	0	1.56	1.61	1.31
500491	Ifna1611								
500505	RGD1560146	0	0	0	0	1	0	0	0
500511	Ube2u	0	0	0	0	0	0	1	0
500620	RGD1559683	1	0	0	1	0	0	0	0
500659	Fscb								
500702	LOC500702								
500780	Olr991								
500825	Ccer1	0	1	0	0	0	0	0	0
500836	I122	0	1	0	0	0	0	0	0
500876	LOC500876	0	0	0	1	0	0	0	0
500881	LOC500881								
500926	Or10ad1	0	0	0	0	0	4	0	0
500928	H1fnt								
500948	LOC500948								
500980	Tmem225								
500982	Bsx	0	1	0	0	0	0	0	0
501010	Spespl	1	1	1	1	0	0	0	0
501060	Prss44								
501106	Adgrf4								
501121	Cfc1								
501143	Boll								
501147	C2cd6	0	0	1	0	0	0	0	0
501180	Tex44								
501185	Mab2114	0	1	0	1	0	0	0	0
501283	Plin5	0	0	0	0	0	1	0	0
501389	LOC501389								
501507	RGD1560927	0	0	0	2	0	0	0	0
501516	RGD1562289	0	0	0	0	0	0	0	1.42
501587	RGD1565058								
501599	LOC501599								
501618	LOC501618								
501621	Nxf7								
501642	RGD1564955								
501653	RGD1565692	0	0	0	0	1.22	0	1.19	0
501655	Ctag2								
501698	LOC501698								
501720	Krtap2-4								
501721	RGD1561684								
501725	Krtap4-3								
501735	Gpr142								
501745	Cd300c	0	0	0	0	3.56	0	0	0
501765	Krtap13-2								
501767	RGD1562771								
501768	Krtap14								
501793	Vom2r58	0	0	0	0	1	0	0	0
501809	RGD1566324								
501816	Vom2r62								
501831	My110	0	0	0	1	0	0	0	0
501864	Mroh9								
501881	Vom2r68	1	0	0	0	0	0	0	0
501890	RGD1561699								
501893	RGD1562932	0	0	0	0	0	0	0	1

501896	RGD1565660	0	0	0	1	0	0	0	0
501898	RGD1559654								
501899	RGD1561226								
501900	RGD1559999								
501901	LOC501901	0	0	0	0	0	0	0	1
501902	RGD1562423								
501903	RGD1561977								
501904	RGD1563483								
502004	Gzmb11	1	1	1	0	0	0	0	0
502042	Cphx1	1	0	0	0	0	0	0	0
502047	RGD1565329								
502056	RGD1559508	0	0	0	0	1	0	1	0
502057	RGD1560429								
502058	RGD1562508	1	0	0	0	0	0	0	0
502060	RGD1563356								
502122	Pr12c1								
502128	Pom12112								
502163	RGD1561114								
502180	RGD1561935	0	0.33	0	0	0	0	0	0
502213	Vom2r3	0	0	0	0	0	0	1	0
502251	RGD1561185	0.81	0	0	0	0	0	0	0
502286	Vom2r25								
502295	RGD1564236	0	0	0	0	0	0	0	1
502338	Mrgprb2								
502353	RGD1561870	0	0	0	0	0	0	1	1
502357	Or51t1	0	0	0	0	0	0	0	1
502358	LOC502358								
502359	Hbe2								
502412	RGD1562885	0	1	0	0	0	0	0	0
502418	RGD1559903								
502510	Ttc231								
502533	RGD1561998								
502549	RGD1563451								
502566	RGD1564313	0	0	0	0	0	0	1.21	0
502588	LOC502588								
502611	Lcn3								
502612	RGD1564133	0.33	0	0	0	0	0	0	0
502647	Pramel7								
502648	Pramel6	0	0	0	0	1	0	0	0
502660	LOC502660								
502679	Cst13								
502725	RGD1562636								
502755	RGD1562066								
502756	Tas2r143	0	0	0	0	0.62	0	0	0
502757	Tas2r135								
502758	Olr437								
502846	Foxi3								
502857	Noto								
502875	Hlfoo	0	0	0	0	0	0	1	0
502891	Vom2r51								
502939	Sdr16c6								
502959	RGD1561246	0	0	0	0	0	0	0	1
502962	RGD1564897								
502968	Zfp352	2	0	0	0	0	0	0	0
502969	Cyp2j16	0	1.01	1.03	0	0	0	0	0
502976	RGD1561212	1	0	0	0	0	0	0	0

502995	Oog1								
502996	Oog3								
503116	LOC503116	0	0	1.56	0	0	0	0	0
503124	Zscan4f								
503127	Vom2r56								
503139	Glipr111								
503162	RGD1565410	0.62	0	0	1.03	0	0	0	0
503228	Iqcf5								
503229	Iqcf6								
503254	Lyg1								
503269	Rab17								
503423	Rhox8								
503441	mageb111								
503442	Mageb7	0	0	0	0	0	0	0	1
503444	RGD1559970	0	0	0	0	1	0	1	0
503459	RGD1565129								
503464	Pramel								
503465	Pramel3	0	0	0	0	0	1	0	0
503466	RGD1566159								
503650	Klri2	0	1	1	1	0	0	0	0
503662	Ly49s5								
50572	Slcola1								
50585	Bpifa2								
50682	Lipf	0	0	0	0	1	1	1	0
53950	Pr13d1								
54193	Pbsn	0	0	0	0	1	0	0	0
54240	Chrnd	0	0	0	0	0	1	1	0
54254	Gata4	0	0	1	0	0	0	0	0
54256	Gja6	0	0	0	0	0	1	0	0
54258	Cxcr1								
54270	Mcpt4								
54276	Neurod2								
54303	Bpifa2f								
56821	Olr414								
57021	Adam3a								
57029	Adam18	0	0	0	0	1	0	0	0
57298	Gstm31	1.14	0	0	0	0	0	0	0
57300	Aadac								
574523	Ugt1a5	0	0	0	0	0	0	0	3.44
58937	Pr13c1								
58947	Hgfac	0	0	0	0	1	0	0	0
59088	Pr18a4								
59110	Aipl1								
59313	Psgb1								
59325	Ereg								
60329	Neurog3								
60353	Acrv1								
60372	Pga5	0	0	0	0	0	1	0	0
60446	Crx								
60451	Olr1654	0	0	0	0	0	1	1	1
60570	Npvf								
60576	Treh	0	1.99	0	0	0	0	0	0
60671	Gulo	1	0	0	1	0	0	0	0
613220	Defa11								
613221	Defa10	0	0	0	0	0	0	0	0.98
613223	Defa6								

613224	Defa8								
613267	Entpd8	2	0	0	0	0	0	0	0
619560	Rup2	2	0	1	0	0	0	0	0
619575	Sohlh2								
63866	Asic5	0	1	0	1	0	0	0	0
63867	Ugt2a1								
64029	Cabs1	0	0	0	0	0	1	0	0
64042	Nmur2								
641519	Defb29								
641555	Odam								
641620	Defb51								
641621	Defb23	0	0	0	0	1	0	0	0
641624	Defb5								
641626	Defb13								
641627	Defb14	0	0	0	0	0	0	0	2
641628	Defb28								
641629	Defb26								
641630	Defb11	0	0	0	0	0	1	0	0
641631	Defb2								
641632	Defb24	0	0	0	0	0	0	0	1
641633	Defb9								
641635	Defb10								
641636	Defb21								
641637	Defb40								
641639	Defb50								
641641	Defb20	0	0	0	0	0	1	0	0
641643	Defb12								
641645	Defb15								
641646	Defb39								
641647	Defb33								
641650	Defb41								
641651	Defb43								
641652	Defb44								
641653	Defb49								
641655	Defb18								
641656	Defb30	0	1	0	0	0	0	0	0
641657	Defb42								
641658	Defb17								
641659	Tpcr12								
64361	Pr17a3								
64368	Pr18a7								
64389	Defb4								
64509	Tpbpa	0	0	1	0	0	0	0	0
64535	Fgfbp1	0	1	0	0	0	0	0	0
64568	Galp	0	0	0	0	0	0	0	1
64571	Vax1	1	1	1	0	0	0	0	0
64647	Hist1h2b1								
64822	Fabp9								
65024	Chrna9	0	0	0	0	1	0	1	0
65039	Lcn1	1	0	1	0	0	0	0	0
65051	Serpina5								
65140	Olr226								
65182	Oprpn								
65185	Sult1c3								
65192	Slc27a2	0	0	0	0	0	0	0	1
65202	Slc13a2	0	0	0	0	1	1	0	0

65270	Abo3	0	0	0	0	0	0	1.04	0
652921	Defb37								
652922	Defb38								
652926	Rhoxf10								
652927	Ggtall1	0	0	0	1	0	0	0	0
654517	Crispl								
66019	Cdx2								
66029	Ido1	0	0	1	0	0	0	0	0
664710	Teddm1								
678740	Vom2r1								
678749	Dgat2l6								
679520	Awat1	0	0	1	0	0	0	0	0
679557	Vom2r42								
679574	LOC679574								
679593	Vom2r43								
679682	Eras								
679691	Vom2r5								
679702	LOC679702								
679727	LOC679727								
679783	Tmem211	0	0	0	0	0	0	0	1
679789	Olfr1330-ps1								
679802	Saxo1								
679803	LOC679803								
679825	Rrlt	0	0	0	0	0	0	0.9	0
679873	LOC679873								
679989	Tcp1lx2								
680000	Prame								
680050	Tbpl2								
680060	Krtap3-2								
680071	Krtap3-1								
680104	Krtap1-3								
680112	LOC680112	1	0	0	0	0	0	0	0
680136	Krtap2-4l								
680149	Gngt1								
680152	Krtap2-1								
680160	LOC680160								
680164	Tex35								
680174	Svall								
680188	Tas2r139								
680190	LOC680190								
680273	LOC680273	0	0	0	1	0	0	0	0
680328	Krtap9-1								
680342	Clbn34b								
680358	Olfr1873								
680370	Clbn34d	0	0	0	0	0	1	0	0
680377	LOC680377								
680396	LOC680396								
680442	LOC680442								
680452	Arrdc5								
680454	Krtap31-1								
680619	Trapla								
680703	Krtap16-5								
680718	Cts8								
680728	Casp16	1	1	0	2	0	0	0	0
680734	Ankrd65								
680754	Obp2a								

680819	LOC680819								
680865	Tex13b	0	0	2	0	0	0	0	0
680885	LOC680885								
680912	Kcnu1								
680913	LOC680913								
680955	LOC680955								
681066	Fth117e								
681067	LOC681067	0	2	0	0	0	0	0	0
681069	Pilrb								
681070	Fcamr								
681077	LOC681077								
681079	Vom2r64								
681107	LOC681107	0	1	0	0	0	0	0	0
681167	Samt3								
681194	Lypd4								
681210	MGC94891								
681241	LOC681241								
681263	Gje1								
681303	LOC681303	0	0	1	0	0	0	0	0
681344	Spink9								
681354	Mett121c11	1	1	1	1	0	0	0	0
681375	Lcn4								
681382	LOC681382								
681385	LOC681385	0	1	0	0	0	0	0	0
681407	Rnf148								
681470	LOC681470								
681817	G6pc2								
682042	LOC682042								
682076	Mnx1	0	0	0	0	0	0	1	0
682138	Ddx43	0	0	0	0	0	0	0	1
682526	LOC682526	0	0	0	0	0	0	0.07	1
682831	LOC682831								
682934	Slc22a16								
682974	Hsd3b3	0	1	1	0	0	0	0	0
683212	LOC683212								
683849	LOC683849								
683850	LOC683850								
683961	LOC683961	0	0	0	0	0	0	0	0.3
684085	Nr2e1								
684107	LOC684107								
684158	Rd3	0	0	0	0	0	0	1	0
684170	LOC684170								
684171	LOC684171								
684179	LOC684179	0	0	0	0	1	0	0	0
684208	LOC684208								
684365	LOC684365								
684372	Prr23a	0	1	0	0	0	0	0	0
684376	LOC684376								
684381	Prr23d2								
684395	LOC684395								
684403	LOC684403	0	0	0	0	0	0	0.5	0
684444	LOC684444								
684466	LOC684466								
684471	LOC684471								
684539	LOC684539								
684589	Krtap26-1								

684683	LOC684683								
684709	LOC684709								
684797	LOC684797	0	0	0	0	0	0	0	1.63
684932	LOC684932	0	1	0	0	0	0	0	0
685069	LOC685069								
685161	Eppin	0	1.34	1.25	0	0	0	0	0
685170	Wfdc8	0	0	0	0	0	0	1	0
685171	LOC685171								
685199	LOC685199								
685201	Wfdc16								
685222	Cyp2b15								
685226	LOC685226	0	1.16	0	0	0	0	0	0
685279	LOC685279	0	0	0	0	1.7	0	0	0
685291	LOC685291	1.22	0	0	0	0	0	0	0
685304	Krtap19-5								
685321	LOC685321								
685391	LOC685391								
685406	LOC685406	0	1	0	0	0	0	0	0
685501	LOC685501								
685544	LOC685544								
685557	Vom2r7								
685560	Mogat3	0	0	0	0	0	1	1	0
685600	LOC685600								
685621	Prr20e	1	1	0	0	0	0	0	0
685641	Vom2r8								
685655	LOC685655								
685667	LOC685667								
685700	LOC685700	0	0	0	0	0	0	1	0
685701	Fam122c								
685716	LOC685716								
685722	Znrd1as								
685723	Cib3								
685747	LOC685747								
685762	LOC685762								
685774	Samt4								
685782	LOC685782								
685785	LOC685785								
685789	LOC685789								
685790	LOC685790	0	0	0	1	0	0	0	0
685793	LOC685793								
685819	Samt2								
685827	LOC685827								
685840	Ifn13								
685846	Adam34								
685880	Vom1r99								
685907	LOC685907								
685912	Sprr1b								
685945	Vom1r104								
685964	LOC685964								
686031	LOC686031	0	0	1	0	0	0	0	0
686032	Smlr1								
686042	LOC686042								
686048	Btn15	0	0	0	0	0	1	0	1.38
686095	LOC686095								
686125	Lce11								
686142	LOC686142	0	0	0	0	0	1	0	0

686143	LOC686143								
686145	Vom2r48								
686209	LOC686209								
686254	Psors1c2								
686641	LOC686641								
686677	LOC686677								
686680	Ms4a5								
686683	LOC686683								
686720	LOC686720								
686748	LOC686748								
686787	Olr1874	0	0	0	0	0	0	0	1
686841	Tex33								
686900	LOC686900								
686967	LOC686967	1	0	0	0	0	0	0	0
687065	LOC687065								
687082	LOC687082								
687088	LOC687088								
687092	LOC687092								
687097	LOC687097								
687119	LOC687119	0	0	0	1	0	0	0	0
687364	Asb17								
687631	LOC687631								
687880	LOC687880								
687881	LOC687881								
687893	LOC687893								
687896	LOC687896								
688171	LOC688171								
688176	LOC688176								
688282	LOC688282	1	0	0	1	0	0	0	0
688308	Tspan10								
688320	LOC688320	1	0	1	0	0	0	0	0
688321	LOC688321								
688335	LOC688335								
688392	Vom2r49								
688413	Lcelm	0	0	0	0	0	1	0	0
688433	Dydc1	0	0	0	0	0	0	0	1
688481	Efcab9	0	0	0	0	1	0	1	0
688657	LOC688657								
688702	LOC688702								
688755	LOC688755								
688794	Vomlr65								
688802	Mcidas								
688819	Cib4	0	0	0	0	0	0	0	1
688823	Cdc20b								
688828	LOC688828								
688842	LOC688842								
688848	Tsgal3								
688887	Cfhr2								
688924	LOC688924	0	0	0	0	0	1	0	0
688951	Cd209c								
689002	LOC689002								
689004	Clec4g	0	0	0	1	0	0	0	0
689060	Vom2r71								
689072	Vom2r72	0	1	0	0	0	0	0	0
689077	Spaca7								
689101	Khdc1b	0	1	1	0	0	0	0	0

689103	Best4								
689178	Muc11								
689199	Aphh								
689220	LOC689220								
689271	LOC689271	0	0	0	0	1.13	0	0	1.15
689349	Catsper1								
689396	LOC689396								
689403	Vom2r65								
689408	LOC689408	1.48	0	0	1.59	0	0	0	0
689412	LOC689412								
689425	Clps12								
689462	Cnbd1	0	0	0	1	0	0	0	0
689485	Vom2r67	1.58	1.43	0	0	0	0	0	0
689515	Clrn2	0	0	0	1	0	0	0	0
689569	LOC689569								
689570	Spink13								
689587	LOC689587	0	0	0	0	0	2	0	0
689589	LOC689589								
689594	Zar11								
689599	LOC689599								
689600	LOC689600								
689604	Stath								
689618	LOC689618	0	0	1	0	0	0	0	0
689629	LOC689629								
689670	Vom2r73								
689725	LOC689725								
689748	Tmem213								
689754	Ces3a								
689766	LOC689766	0	0	0	0	0	1	1	0
689798	LOC689798								
689801	Skint1								
689817	Klrb1	1	0	0	0	0	0	0	0
689840	LOC689840								
689858	Magea4								
689872	RGD1564999	0	0	0	0	0	1	0	0
689947	Crygf	0	0	0	1	0	0	0	0
689962	Ccdc182								
689968	LOC689968								
689975	Dppa1								
690127	LOC690127								
690140	LOC690140								
690191	LOC690191	0	0	0	0	1	2	0	0
690198	Fpr-rs4								
690206	LOC690206	0	0	0	0	0	1	0	0
690230	Fpr-rs6								
690284	LOC690284	0	0	0	0	0	0	1	0
690299	LOC690299	0	0	0	0	0	0	1.02	0
690326	Lpal2	0	0	0	0	0	2	0	0
690334	Tas2r130								
690348	LOC690348	1	1	0	0	0	0	0	0
690352	LOC690352	2	1	0	0	0	0	0	0
690383	Cyp3a71-ps	1	0	0	0	0	0	0	0
690386	LOC690386	0	1	0	0	0	0	0	0
690402	Bpifa3								
690410	LOC690410	0	0	0	0.01	0	0	0	0
690418	LOC690418								

690425	LOC690425								
690431	LOC690431								
690433	Rnf186								
690448	Tas2r120								
690460	LOC690460								
690472	Tas2r124								
690478	LOC690478								
690481	Tas2r125								
690572	Tas2r109								
690575	Tc11a								
690617	LOC690617								
690666	Tmem92	0	0	0	0	0	0	2	0
690758	Vom2r22	0	0	0.97	0	0	0	0	0
690764	LOC690764								
690767	Olrl875								
690816	Vom2r24								
690821	LOC690821								
690849	Or7e24								
690894	Ifna5	1	0	0	0	0	0	0	0
690971	Ofcc1	0	0	0	0	0	1	0	0
691014	Dppa311	0	0	0	0	0	0	0	1
691030	LOC691030	0	0	1	0	0	0	0	0
691051	Pramef27								
691058	Travl2-3	0	0	0	0	1	0	0	0
691074	LOC691074								
691086	Nlrp4f								
691099	Tex19.2	0	1	0	0	0	0	0	0
691110	LOC691110	0	0	0	0	0	0	1	0
691120	Spaca4	0	1	1	0	0	0	0	0
691139	Pramef17								
691150	Pramef20								
691157	Pramef12								
691162	LOC691162								
691196	LOC691196								
691223	Pifo								
691244	Rhox13								
691272	LOC691272								
691275	Adad2	0	0	0	0	0	1	0	0
691286	LOC691286								
691325	LOC691325								
691368	LOC691368								
691398	Foxb2	0	0	0	1	0	0	0	0
691408	Sbk3								
691411	Sbk2	0	0	0	0	0	4	0	0
691442	Vom2r55								
691469	Pr15a2								
691488	Hist3h2bb	0	0	0	0	1.49	0	0	1.91
691495	LOC691495								
691520	LOC691520								
691551	LOC691551	0	0	0	0	0	0	0	1
691552	Pr13d2								
691560	Vom2r29								
691592	LOC691592								
691642	LOC691642	0	0	0	0	1	0	0	0
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691763	Vom2r33								

691791	Vom1r55								
691813	Pla2g4c11	0	0	0	0	0	0	0	3.38
691850	LOC691850								
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691895	LOC691895								
691918	LOC691918								
691952	Terb2								
691997	Pebp4								
78979	Tas2r119								
78980	Tas2r118								
78981	Tas2r107								
78982	Tas2r114								
78983	Tas2r121								
78984	Tas2r13								
78985	Tas2r105								
79243	Hsd17b2								
79254	Akap4								
81712	Retn1a								
81760	Grk1	0	0	0	0	0	1	0	0
81806	Serpina7	0	0	0	0	0	1	0	0
81916	Pdzklip1	0	0	0	0	1	1	0	0
83687	Defb1								
83711	Inhbe	0	0	0	0	0	0	1	0
84017	Hmga2	0	0	1	0	0	0	0	0
84028	Pnliprpl								
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84377	Pr17d1								
84385	Nr1i2								
84605	Sval2	0	1	0	0	0	0	0	0
85271	Zp1	1	0	0	0	0	0	0	0
94106	Vegp2	0	0	0	0	1	0	0	0
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317418	Tsr2	16.73632	3.11E-50	3.05E-48
100912618	LOC100912618	10.69827	7.31E-14	1.77E-12
100910581	LOC100910581	9.114038	5.79E-53	6.00E-51
300802	Aph1b	8.77101	7.20E-44	5.97E-42
103691556	LOC103691556	7.608251	6.94E-62	8.58E-60
102550456	LOC102550456	7.14204	1.47E-17	4.65E-16
108349606	LOC108349606	6.691153	1.47E-13	3.43E-12
100909868	LOC100909868	6.64655	0.07437523	0.18403
100911233	LOC100911233	6.417167	1.39E-11	2.65E-10
100912399	LOC100912399	6.383284	2.33E-11	4.34E-10
684969	Potef	6.285874	9.69E-11	1.68E-09
100910616	Hmgn5	5.972627	5.74E-09	7.99E-08
108348106	LOC108348106	5.585249	3.53E-07	3.78E-06
100909795	LOC100909795	5.500306	7.73E-07	7.81E-06
100911564	LOC100911564	5.395698	1.93E-06	1.82E-05
100361265	LOC100361265	5.305012	7.18E-11	1.26E-09
690146	RGD1584023	5.005396	3.66E-05	2.68E-04
297402	RGD1560795	4.968016	4.69E-05	3.36E-04
102552708	LOC102552708	4.87749	8.35E-05	5.64E-04
100911713	LOC100911713	4.742541	1.86E-04	0.001166
100911814	LOC100911814	4.613866	3.77E-04	0.002199
207119	Rin1	4.575583	4.61E-04	0.002611
24421	Gstal	4.548662	5.29E-04	0.002944
100910240	LOC100910240	4.526255	5.92E-04	0.003253
81828	Zp2	4.462125	2.17E-06	2.03E-05
100911804	LOC100911804	4.262719	0.00199569	0.009441
100912489	LOC100912489	4.256166	0.00524757	0.021618
100912564	LOC100912564	4.256166	0.00524757	0.021618
502913	Hist2h4a	4.256166	0.00524757	0.021618
100361850	LOC100361850	4.172618	0.00289503	0.013034
100909964	LOC100909964	4.172618	0.00289503	0.013034
103692699	LOC103692699	4.172618	0.00289503	0.013034
103694404	LOC103694404	4.101989	0.00382032	0.016506
108348231	LOC108348231	4.009889	0.00538735	0.022098
498911	Mt4	4.002693	0.00552941	0.02254
108351339	LOC108351339	3.997273	0.00563845	0.022892
364991	Slc25a36l1	3.968952	3.86E-11	6.98E-10
103691102	C1H19orf84	3.810048	0.01064264	0.039005
24346	Ces1c	3.810048	0.01064264	0.039005
362629	Il22ra1	3.810048	0.01064264	0.039005
685849	LOC685849	3.810048	0.01064264	0.039005
24856	Ttr	3.78929	1.20E-15	3.36E-14
300054	Foxh1	3.597242	0.02011236	0.065803
114105	Cxc12	3.587656	0.02065653	0.067237
25110	Klrd1	3.587656	0.00106496	0.005458
103691013	LOC103691013	3.585249	0.02079491	0.067595
679149	LOC679149	3.510488	7.87E-06	6.59E-05
108348195	LOC108348195	3.495828	0.02646138	0.081612
103690061	LOC103690061	3.477778	0.02773473	0.084853

260324	Ly49i2	3.435653	0.03088562	0.09224
689484	Frg111	3.420102	0.06173203	0.159653
100910107	LOC100910107	3.403231	0.03348706	0.098359
102551539	LOC102551539	3.360245	0.00124595	0.006249
286914	Vom2r27	3.339121	0.00369571	0.016062
100912038	LOC100912038	3.333252	0.0396503	0.112506
102552324	LOC102552324	3.324621	0.04046405	0.114228
24620	Reg3g	3.324621	0.04046405	0.114228
24933	Klra22	3.324621	0.04046405	0.114228
299279	RGD1565462	3.324621	0.04046405	0.114228
305840	Rnase10	3.324621	0.04046405	0.114228
366568	Slc30a3	3.324621	0.00375915	0.016295
494210	Ly49i7	3.324621	0.04046405	0.114228
503651	Klri1	3.324621	0.00375915	0.016295
300303	LOC300303	3.262816	0.11722967	0.257662
500338	Klrc3	3.214484	1.01E-04	6.72E-04
60333	Msln	3.200231	1.58E-76	2.33E-74
100912262	LOC100912262	3.179282	1.19E-07	1.38E-06
103692449	LOC103692449	3.002693	0.11300224	0.250831
302964	Bicd12	3.002693	0.01331961	0.046915
108352634	LOC108352634	2.997532	3.61E-05	2.65E-04
100911251	LOC100911251	2.909584	8.45E-04	0.004468
319105	Taar8c	2.891662	0.22438716	0.407461
100912019	LOC100912019	2.884614	3.35E-04	0.00198
289926	RGD1565725	2.810048	0.02507391	0.078239
294197	Olr1743	2.810048	0.02507391	0.078239
498109	Polr2h	2.633756	2.79E-71	3.87E-69
295041	Stoml3	2.625791	4.85E-07	5.06E-06
100909830	LOC100909830	2.587656	4.32E-06	3.81E-05
100911818	LOC100911818	2.587656	0.04714733	0.129123
29680	Cyp11a1	2.587656	0.04714733	0.129123
364680	Barx1	2.587656	0.04714733	0.129123
366035	Wdr38	2.587656	0.04714733	0.129123
367944	Zic3	2.587656	0.04714733	0.129123
100364561	LOC100364561	2.580496	0.04693479	0.12867
293347	Gvinp1	2.580002	0.02651439	0.081749
100909439	LOC100909439	2.566871	0.00131882	0.006572
100911156	LOC100911156	2.467362	0.18994911	0.362883
304954	Uap112	2.463465	2.34E-10	3.93E-09
315294	Wnt10b	2.462125	2.19E-04	0.00135
100910678	LOC100910678	2.453735	4.34E-09	6.17E-08
100360880	Fosb	2.453222	8.98E-100	1.73E-97
690082	LOC690082	2.335269	0.12277235	0.266979
100365810	LOC100365810	2.332842	1.65E-13	3.84E-12
100362810	LOC100362810	2.324621	0.08842822	0.209038
171371	Xc11	2.324621	0.08842822	0.209038
289250	Olr1588	2.324621	0.08842822	0.209038
29531	Hpd	2.324621	0.08842822	0.209038
297698	Erp27	2.324621	0.08842822	0.209038
300458	Npsr1	2.324621	0.08842822	0.209038
305999	Nkx3-1	2.324621	0.08842822	0.209038
307556	Ccdc178	2.324621	0.08842822	0.209038
361342	Cplx4	2.324621	0.08842822	0.209038
83790	Cyp2c23	2.324621	0.08842822	0.209038
299656	RGD1560291	2.31128	0.00898128	0.033878
108349682	LOC108349682	2.311142	3.06E-24	1.35E-22

100911168	LOC100911168	2.295599	7.82E-06	6.55E-05
502301	Vom2r36	2.271726	0.09898613	0.226913
100909443	LOC100909443	2.248589	0.02613907	0.080788
499322	Fam111a	2.231648	2.03E-81	3.22E-79
25453	Gdnf	2.225086	8.63E-05	5.81E-04
108350810	LOC108350810	2.219924	0.11009609	0.245467
100912070	LOC100912070	2.211169	8.70E-04	0.004584
406159	Btnl7	2.206566	0.06082356	0.157732
494206	Ly49sil	2.198066	6.54E-10	1.03E-08
102553785	LOC102553785	2.176887	0.00706872	0.027729
499886	LOC499886	2.173237	0.01252515	0.044604
29183	Areg	2.172618	0.02828065	0.086039
29683	Klrc1	2.162968	0.12320029	0.267604
100911728	LOC100911728	2.154458	0.05956939	0.155177
360649	RGD1359290	2.139575	1.54E-94	2.75E-92
287562	Cc112	2.118171	2.43E-04	0.001487
501741	RGD1565046	2.112598	0.00176522	0.008487
292918	Otog	2.105981	0.03947267	0.112119
290209	LOC290209	2.097851	0.02146585	0.069338
103690198	LOC103690198	2.08994	0.00355053	0.015516
690784	LOC690784	2.079936	0.1439799	0.298346
103690084	LOC103690084	2.079215	0.00229231	0.010638
304197	RGD1564571	2.073083	0.00114373	0.005801
100360950	LOC100360950	2.065645	0.03463859	0.100917
102549227	LOC102549227	2.057876	0.13270341	0.282037
116637	Cc14	2.026304	0.00161329	0.007832
100909671	LOC100909671	2.023409	0.12154501	0.264975
102550845	LOC102550845	2.012889	0.09698045	0.223499
302676	RGD1564836	2.006296	0.16406574	0.327873
100359930	LOC100359930	2.002693	0.16508786	0.329087
102551168	LOC102551168	2.002693	0.16508786	0.329087
102557108	LOC102557108	2.002693	0.04962794	0.134333
103692315	LOC103692315	2.002693	0.04962794	0.134333
103694885	LOC103694885	2.002693	0.16508786	0.329087
108348236	LOC108348236	2.002693	0.16508786	0.329087
108353019	LOC108353019	2.002693	0.16508786	0.329087
287480	Olr1466	2.002693	0.16508786	0.329087
294196	Olr1742	2.002693	0.16508786	0.329087
297894	Matn1	2.002693	0.16508786	0.329087
303817	RGD1560559	2.002693	0.16508786	0.329087
306307	Rgr	2.002693	0.16508786	0.329087
309583	Olr1733	2.002693	0.32630757	0.522054
315451	Muc16	2.002693	0.16508786	0.329087
367032	Olr1193	2.002693	0.04962794	0.134333
405142	Olr804	2.002693	0.16508786	0.329087
499660	Sprrla	2.002693	0.16508786	0.329087
500245	Bmp10	2.002693	0.16508786	0.329087
500359	RGD1561551	2.002693	0.16508786	0.329087
501177	Gpr55	2.002693	0.01620053	0.05519
64573	Trpc2	2.002693	0.16508786	0.329087
680315	Fsip2	2.002693	0.16508786	0.329087
680523	Tmem236	2.002693	0.01620053	0.05519
682837	Muc5ac	2.002693	0.16508786	0.329087
686106	Ccdc144b	2.002693	0.16508786	0.329087
103694586	LOC103694586	1.999967	3.64E-04	0.002128
102553148	Cfap58	1.988194	0.33103741	0.527207

309467	Ccdc147	1.988194	0.33103741	0.527207
362935	Ly6a1	1.984904	0.16597777	0.330032
103690008	LOC103690008	1.923004	0.00653293	0.026007
100910308	LOC100910308	1.919407	5.32E-75	7.73E-73
494207	Ly49si2	1.912839	7.86E-05	5.35E-04
100910243	LOC100910243	1.908301	0.25976946	0.449224
54242	Cpa3	1.899934	5.77E-31	3.38E-29
108351097	LOC108351097	1.885297	0	0
303886	Muc20	1.877162	0.02744258	0.084128
309225	Olr337	1.877162	0.02744258	0.084128
103690049	LOC103690049	1.872356	0.04658102	0.127829
681126	Krt83	1.856689	0.07596981	0.186979
100910750	LOC100910750	1.826387	2.74E-04	0.001655
100909897	LOC100909897	1.812108	0.08568234	0.20472
25305	Cort	1.810048	0.08615087	0.205491
296846	Hepacam2	1.810048	0.08615087	0.205491
100910095	LOC100910095	1.802924	0.35791043	0.554901
690680	Vom2r15	1.796751	0.20960002	0.387971
689790	Clec2d11	1.795241	6.41E-06	5.46E-05
100912499	Lilra3	1.792135	0.00329641	0.014549
684526	LOC684526	1.784693	0.44562033	0.6383
100912642	LOC100912642	1.766675	0.03326185	0.097864
303782	Vpreb1	1.759382	0.00145952	0.007192
192267	Obp1f	1.742541	0.04551969	0.125677
100912379	LOC100912379	1.739659	0.03235869	0.095828
25680	Clps	1.739659	0.04598674	0.126691
289515	Epgn	1.739659	0.04598674	0.126691
29165	Gzmk	1.739659	0.04598674	0.126691
310611	Pglyrp4	1.739659	0.04598674	0.126691
502585	Cd160	1.739659	0.04598674	0.126691
171118	Ces2c	1.738216	0.04622197	0.127211
288398	RGD1562451	1.730219	0.17898716	0.34766
24828	Hist1h2aa	1.722706	0.09609782	0.22219
108352834	LOC108352834	1.707565	0.26076494	0.45021
100910915	LOC100910915	1.705947	0.02578088	0.079941
306748	Cxcl14	1.697574	5.58E-67	7.33E-65
497084	Spetex-2B	1.671618	0.30200304	0.499015
365807	Vom2r47	1.659806	0.21642564	0.397668
108348150	LOC108348150	1.653335	2.37E-09	3.49E-08
100910579	LOC100910579	1.645901	0.15247901	0.310153
102556085	LOC102556085	1.638419	0.00872898	0.03305
100911090	LOC100911090	1.624856	3.93E-23	1.65E-21
498067	RGD1565472	1.622302	6.24E-04	0.003418
292615	Vom2r35	1.620932	0.29297269	0.488673
108348438	LOC108348438	1.605078	4.57E-06	4.01E-05
405976	Olr1254	1.602155	0.55172741	0.731985
751812	Ras12-9	1.596534	0.28377072	0.477675
103690165	LOC103690165	1.591379	0.2433529	0.431492
498169	RGD1561730	1.589944	2.58E-06	2.38E-05
103689998	Nupr111	1.588134	0.00116277	0.005886
100360197	Rad51ap2	1.587656	0.30578262	0.502232
100365184	Prdm14	1.587656	0.30578262	0.502232
100912573	Ms4a6e	1.587656	3.26E-06	2.95E-05
102552016	LOC102552016	1.587656	0.14752971	0.302998
102553208	LOC102553208	1.587656	0.30578262	0.502232
103690566	LOC103690566	1.587656	0.30578262	0.502232

108349482	LOC108349482	1.587656	0.04053815	0.114369
108349722	LOC108349722	1.587656	0.30578262	0.502232
116562	Ii2	1.587656	0.30578262	0.502232
246073	Foxi2	1.587656	0.30578262	0.502232
24835	Tnf	1.587656	0.01212276	0.043439
25569	Trh	1.587656	0.30578262	0.502232
25593	Hcrtr1	1.587656	0.04053815	0.114369
266708	Gzma	1.587656	0.30578262	0.502232
288602	Ervfrd-1	1.587656	0.07609406	0.1872
290227	Rec8	1.587656	0.14752971	0.302998
290338	Adamdec1	1.587656	0.30578262	0.502232
292848	Klk13	1.587656	0.30578262	0.502232
293594	Olr292	1.587656	0.30578262	0.502232
294793	Ugt3a2	1.587656	0.14752971	0.302998
301088	Ccr111	1.587656	0.30578262	0.502232
304784	Slc26a9	1.587656	0.30578262	0.502232
310303	Kcnmb3	1.587656	0.30578262	0.502232
311558	Bpifb6	1.587656	0.14752971	0.302998
315601	Foxr1	1.587656	0.14752971	0.302998
360268	Sult1e1	1.587656	0.30578262	0.502232
360719	Hgd	1.587656	0.07609406	0.1872
362576	RGD1305347	1.587656	0.30578262	0.502232
362623	Catsper4	1.587656	0.14752971	0.302998
365384	Olr286	1.587656	0.30578262	0.502232
502961	RGD1559679	1.587656	0.30578262	0.502232
54282	Padi1	1.587656	0.30578262	0.502232
683282	LOC683282	1.587656	0.30578262	0.502232
685666	Vom2r9	1.587656	0.30578262	0.502232
690212	Slc16a5	1.587656	0.30578262	0.502232
691033	LOC691033	1.587656	0.30578262	0.502232
78976	Kiss1r	1.587656	0.14752971	0.302998
81924	Cyp8b1	1.587656	0.30578262	0.502232
83630	Pax4	1.587656	0.30578262	0.502232
100910172	LOC100910172	1.575583	0.15148799	0.308566
691998	Nlrp1b	1.573442	0.30653465	0.502492
100361056	LOC100361056	1.552969	0.0348651	0.101437
103690132	Hoxa1	1.551961	0.06617645	0.168156
25192	Klrb1b	1.546264	0.07202827	0.17967
108349143	LOC108349143	1.534767	0.01075667	0.039291
100909648	LOC100909648	1.534707	0.18214187	0.352136
59113	Kmo	1.533208	0.00329158	0.014531
102546312	LOC102546312	1.531243	0.29845648	0.495045
100912336	LOC100912336	1.526255	0.00586687	0.023695
687560	LOC687560	1.526255	0.00586687	0.023695
305811	Rcor2	1.525546	3.07E-17	9.53E-16
502966	RGD1560539	1.523525	0.14049918	0.293561
103694886	LOC103694886	1.519176	0.00779458	0.030105
687553	Foxl1	1.517267	0.01052691	0.038689
100360307	Fam83g	1.505194	0.01905184	0.062955
679784	Slc17a4	1.505194	0.01905184	0.062955
304407	Cldn4	1.486893	0.03435019	0.100276
363215	Prss39	1.485542	0.0211085	0.068381
309209	Vwce	1.479498	3.28E-05	2.44E-04
305858	Otx2	1.470405	1.65E-05	1.30E-04
685860	Lrr1	1.462125	0.06493755	0.165804
288456	RGD1560801	1.4463	0.36263489	0.559085

685245	Ears211	1.431034	4.73E-05	3.39E-04
108353403	LOC108353403	1.429024	0.00421884	0.017935
366992	Kb15	1.421646	0.06983749	0.17533
103693626	LOC103693626	1.420149	0.12450739	0.26949
24235	C4bpa	1.417731	0.1240479	0.268908
288596	Trim50	1.417731	0.1240479	0.268908
363768	Zp1d1	1.417731	0.1240479	0.268908
494193	Klra2	1.417731	0.1240479	0.268908
685963	LOC685963	1.411425	6.57E-19	2.23E-17
108352618	LOC108352618	1.406128	0.02280109	0.072556
364629	Tpte2	1.396691	0.03092844	0.092339
100360774	LOC100360774	1.39433	0.38205618	0.578859
301595	Ugt1a8	1.387221	5.85E-04	0.003219
498335	Cxc113	1.381765	1.03E-33	6.57E-32
289337	Tlr5	1.381205	8.23E-18	2.65E-16
25370	Adora3	1.374838	0.04329619	0.120623
300124	Pkdrej	1.365263	0.02496669	0.078007
365962	Slc44a5	1.365263	0.02496669	0.078007
691519	LOC691519	1.365192	6.14E-05	4.28E-04
102550614	LOC102550614	1.364514	0.07979904	0.194096
100360872	Mcpt111	1.357849	1.39E-50	1.37E-48
308428	Irgc	1.35633	0.0116837	0.042079
108352174	LOC108352174	1.354587	0.13090762	0.279218
292850	Klk10	1.349144	0.48478222	0.672985
108352465	LOC108352465	1.337366	8.79E-05	5.91E-04
108349728	LOC108349728	1.334806	0.11439349	0.253152
100911485	LOC100911485	1.33016	6.59E-06	5.59E-05
680920	LOC680920	1.32834	0.0413736	0.116167
102547118	LOC102547118	1.324621	0.24828608	0.436843
170570	Acot12	1.324621	0.10252344	0.232988
245921	Acvrlc	1.324621	0.24828608	0.436843
25430	Dio1	1.324621	0.24828608	0.436843
25735	Hnf4a	1.324621	0.24828608	0.436843
289038	Mgat4e	1.324621	0.04553359	0.125688
291558	RGD1562699	1.324621	0.24828608	0.436843
29180	Uts2	1.324621	0.02094109	0.067937
293741	Ms4a12	1.324621	0.00983462	0.036568
29589	Pou3f4	1.324621	0.24828608	0.436843
296323	Arhgap40	1.324621	0.24828608	0.436843
298881	Nt5c1b	1.324621	0.24828608	0.436843
353218	Tnfsf9	1.324621	0.02094109	0.067937
66022	Kcns2	1.324621	0.04553359	0.125688
680875	LOC680875	1.324621	0.24828608	0.436843
681033	Prss41	1.324621	0.10252344	0.232988
85259	Cnga1	1.324621	0.24828608	0.436843
288995	Gpr39	1.318839	0.41679574	0.612632
289309	Kif28p	1.316025	0.24971775	0.438208
353303	Col23a1	1.314906	0.08718079	0.207027
170847	Kcnj15	1.309009	5.86E-35	4.00E-33
685181	LOC685181	1.307797	0.10200795	0.232108
59327	Twist2	1.297141	6.94E-09	9.57E-08
686129	LOC686129	1.294459	0.54557437	0.726504
102547956	LOC102547956	1.288423	0.09341722	0.217657
304922	Fmo6	1.287657	0.07610674	0.187195
103689957	LOC103689957	1.284574	0.0024643	0.011325
170896	Ucn2	1.282801	0.03783679	0.108207

303496	Tbx21	1.282801	0.03783679	0.108207
301012	Col7a1	1.279534	4.83E-12	9.67E-11
316153	Sult1c2a	1.271726	0.43738303	0.631345
315870	Tbx18	1.268185	7.13E-53	7.34E-51
102547504	LOC102547504	1.265728	0.0842417	0.202433
94168	Spp2	1.265728	0.0842417	0.202433
689519	LOC689519	1.262929	0.03733821	0.107062
103691744	LOC103691744	1.24379	1.59E-04	0.00101
103690230	LOC103690230	1.23743	0.08315841	0.200399
689346	LOC689346	1.235354	0.45345467	0.644914
192107	Prss8	1.22807	0.06362416	0.163415
108348553	LOC108348553	1.226434	0.0093855	0.035166
246758	Allc	1.225086	0.19865917	0.373786
292165	Wdr63	1.225086	0.19865917	0.373786
294562	Pou5f1	1.225086	0.0690942	0.173923
301075	Topaz1	1.225086	0.19865917	0.373786
315190	Upk3a	1.225086	0.0690942	0.173923
365226	Ovol3	1.225086	0.0690942	0.173923
365362	Abca14	1.225086	0.19865917	0.373786
499278	Fam24a	1.225086	0.19865917	0.373786
361938	Intu	1.224401	0.01007343	0.037281
102553715	LOC102553715	1.221327	3.61E-11	6.56E-10
100910018	LOC100910018	1.221228	0.27948398	0.472967
310738	Ngf	1.220873	2.30E-07	2.54E-06
691194	Mrgprb3	1.220347	0.00302082	0.013537
24695	Pthlh	1.218422	4.05E-05	2.94E-04
685125	LOC685125	1.211411	0.45100699	0.642777
311120	RGD1565767	1.209851	0.22800234	0.412414
108352192	LOC108352192	1.209144	0.40494228	0.602039
102550375	LOC102550375	1.206118	0.05401584	0.143477
103690398	NEWGENE_1565505	1.204327	0.02152055	0.069438
108349753	LOC108349753	1.204327	0.02152055	0.069438
100911964	LOC100911964	1.203741	0.45235774	0.644124
690171	LOC690171	1.198372	0.11529623	0.254469
103690344	LOC103690344	1.196231	0.46868662	0.659339
311013	Arsj	1.19032	0.00235947	0.010915
246075	Prlhr	1.18989	0.01538765	0.052994
688900	Slfn1	1.188087	5.01E-05	3.56E-04
50669	Prf1	1.187118	0.01781717	0.059646
114122	Vcan	1.186785	3.60E-98	6.72E-96
102555951	LOC102555951	1.185131	0.0117125	0.042167
60584	Lif	1.181031	0.00196971	0.009334
362443	Klrb1a	1.177191	0.04971323	0.134392
103690099	LOC103690099	1.17646	0.05295075	0.141042
25660	Cd28	1.175743	3.61E-06	3.24E-05
25656	Guca2a	1.172618	0.15918846	0.320497
501738	Cd3001b	1.172618	0.15918846	0.320497
25583	Cryba1	1.163886	0.08091422	0.196407
25661	Fn1	1.163254	0	0
287813	Igsf7	1.162422	7.91E-09	1.08E-07
100912132	LOC100912132	1.161004	0.33266453	0.528715
292793	Sbsn	1.151557	3.79E-23	1.60E-21
29220	Thbs4	1.151461	0	0
293779	Glyat	1.145975	0.01876497	0.062239
353253	Kir3dl1	1.142741	0.48856885	0.676171
140944	Slc28a3	1.140197	0.12803855	0.274744

25047	Fcer1a	1.140197	0.12803855	0.274744
29391	Tsx	1.140197	0.12803855	0.274744
300846	Tinag	1.140197	0.12803855	0.274744
690479	Bpifb5	1.138411	1.77E-16	5.18E-15
298478	Olr869	1.136445	0.20469687	0.381677
360707	RGD1310935	1.131641	0.29009655	0.485235
100911660	LOC100911660	1.126563	3.03E-07	3.28E-06
103690044	LOC103690044	1.12005	0.46922947	0.659713
286912	Krt20	1.118171	0.1033756	0.234366
304918	Zbtb37	1.118171	0.00478743	0.019982
685440	Nek5	1.118171	0.1033756	0.234366
690948	LOC690948	1.11647	0.0015106	0.007401
103690125	NEWGENE_1590969	1.108371	0.14121895	0.294419
683163	Tnfsf8	1.102229	0.08374872	0.201515
685157	LOC685157	1.10149	7.70E-07	7.79E-06
108348270	LOC108348270	1.097063	0.17821718	0.346979
100910180	LOC100910180	1.095803	0.80151025	0.89835
362445	Clec2d2	1.094751	0.00982183	0.036527
308099	Fndc1	1.089188	5.11E-97	9.36E-95
25542	Cc13	1.086271	0.01623497	0.055263
25694	Has2	1.085434	1.34E-14	3.46E-13
25627	Cma1	1.08192	4.80E-07	5.02E-06
108352430	C12H7orf61	1.07725	0.03464923	0.100932
103690078	LOC103690078	1.076694	0.43321472	0.627659
310926	LOC310926	1.075839	6.01E-64	7.63E-62
366545	Atp6v1e2	1.073083	0.04526762	0.125117
501183	Rbm44	1.073083	0.04526762	0.125117
405968	Olr1105	1.069808	0.0038413	0.016582
108351574	LOC108351574	1.067765	0.00759274	0.029415
102552860	LOC102552860	1.067746	0.00159694	0.007771
292777	Tbcb	1.066854	6.88E-07	7.02E-06
362262	Emilin3	1.064978	2.53E-04	0.001541
25292	Apoc1	1.06447	0.20975502	0.388145
363071	Stra6	1.064219	2.18E-22	8.89E-21
314467	Rd31	1.061587	0.03035387	0.090923
367264	Stat4	1.059277	0.00182394	0.008739
311783	I136rn	1.057635	0.14773953	0.3032
309775	Nepn	1.057141	0.00151575	0.007423
681124	Dnase112	1.055038	0.07226444	0.180141
679564	Lypd6	1.053319	0.0204816	0.066805
497856	Rmi2	1.047087	0.01388998	0.04853
266771	Vomlr90	1.044514	0.03191619	0.094739
501028	RGD1560917	1.044123	0.02312929	0.073428
102547294	Iqcn	1.038317	1.17E-04	7.69E-04
25253	Dpp4	1.036951	2.10E-45	1.78E-43
287131	Ccdc154	1.036759	0.04101488	0.115398
84007	C3ar1	1.035826	7.47E-15	1.95E-13
689757	LOC689757	1.033905	0.11873442	0.260188
500224	Lbx2	1.03168	0.31978519	0.514776
313019	Tent5b	1.030745	0.00103358	0.005326
103690024	LOC103690024	1.029066	0.05011317	0.135147
108349825	LOC108349825	1.02654	0.51043751	0.696567
306079	LOC306079	1.024323	0.12309292	0.267462
501031	RGD1560775	1.024069	2.31E-05	1.76E-04
102553500	LOC102553500	1.020615	0.39872216	0.595955
102553456	LOC102553456	1.020352	0.39535107	0.592638

304729	Gli2	1.017748	1.14E-12	2.44E-11
108348191	LOC108348191	1.01624	0.33378865	0.529839
305431	Stk32b	1.015077	1.70E-10	2.89E-09
681871	LOC681871	1.013473	0.23655349	0.423497
287561	Cc17	1.010267	9.09E-09	1.23E-07
103693367	LOC103693367	1.005924	0.38100271	0.577999
100912450	LOC100912450	1.003655	5.51E-10	8.78E-09
100911615	LOC100911615	1.00272	3.09E-22	1.24E-20
100328908	Zfp831	1.002693	0.15226763	0.309889
100359775	Bpifa6	1.002693	0.55892771	0.736459
100361314	Prr9	1.002693	0.55892771	0.736459
100361371	Smco2	1.002693	0.55892771	0.736459
100365683	Nr2e3	1.002693	0.40851153	0.604985
100909643	LOC100909643	1.002693	0.55892771	0.736459
100909960	LOC100909960	1.002693	0.55892771	0.736459
100911044	LOC100911044	1.002693	0.40851153	0.604985
100911639	LOC100911639	1.002693	0.55892771	0.736459
100912524	LOC100912524	1.002693	0.55892771	0.736459
102547412	LOC102547412	1.002693	0.55892771	0.736459
102548161	LOC102548161	1.002693	0.1912683	0.364398
102551309	LOC102551309	1.002693	0.55892771	0.736459
102554838	LOC102554838	1.002693	0.31140847	0.506514
102554931	LOC102554931	1.002693	0.55892771	0.736459
103689938	LOC103689938	1.002693	0.40851153	0.604985
103690003	LOC103690003	1.002693	0.90694961	0.960297
103690116	LOC103690116	1.002693	0.4473948	0.639639
108349946	LOC108349946	1.002693	0.55892771	0.736459
108349954	LOC108349954	1.002693	0.55892771	0.736459
108351843	Vsig1012	1.002693	0.55892771	0.736459
108352945	LOC108352945	1.002693	0.55892771	0.736459
117232	Barhl1	1.002693	0.31140847	0.506514
117518	Cc117	1.002693	0.55892771	0.736459
140936	Rcvrn	1.002693	0.55892771	0.736459
171028	Atp12a	1.002693	0.55892771	0.736459
171179	Glyat12	1.002693	0.55892771	0.736459
171496	Atp2c2	1.002693	0.24245603	0.430363
171528	Gzmb	1.002693	0.24245603	0.430363
24217	Atp4b	1.002693	0.55892771	0.736459
24792	Agxt	1.002693	0.55892771	0.736459
24903	Kng2	1.002693	0.40851153	0.604985
25086	Cyp2e1	1.002693	0.24245603	0.430363
25206	Gucylb2	1.002693	0.55892771	0.736459
252859	Mlnr	1.002693	0.12203946	0.265779
25483	Msx2	1.002693	0.55892771	0.736459
25658	Gckr	1.002693	0.15226763	0.309889
25726	Mc5r	1.002693	0.02876037	0.087178
286976	Gcnt3	1.002693	0.40851153	0.604985
289533	Ugt2a3	1.002693	0.55892771	0.736459
289720	Psap11	1.002693	0.40851153	0.604985
290055	Olr1644	1.002693	0.55696876	0.736068
291754	Dsg4	1.002693	0.40851153	0.604985
291846	Prss54	1.002693	0.55892771	0.736459
293197	Olr40	1.002693	0.55892771	0.736459
29323	Slc6a18	1.002693	0.55892771	0.736459
293305	Olr159	1.002693	0.55892771	0.736459
29646	Adh4	1.002693	0.1912683	0.364398

299829	RGD1559995	1.002693	0.24245603	0.430363
304990	Olr1595	1.002693	0.55892771	0.736459
306365	Potem	1.002693	0.55892771	0.736459
308190	Cyp26c1	1.002693	0.31140847	0.506514
312316	Dox11	1.002693	0.00419471	0.017852
313149	Cfap221	1.002693	0.55892771	0.736459
313152	Ifnk	1.002693	0.55892771	0.736459
313545	Tmem125	1.002693	0.24245603	0.430363
315947	Nme9	1.002693	0.55892771	0.736459
317221	Rt13	1.002693	0.01940073	0.063859
360486	Linc00514	1.002693	0.40851153	0.604985
361412	Adamts18	1.002693	0.03509934	0.101885
361707	Tsga10ip	1.002693	7.87E-04	0.004198
362604	Tlr12	1.002693	0.04291438	0.119699
363993	Gpr25	1.002693	0.40851153	0.604985
364304	Rnase1	1.002693	0.55892771	0.736459
364729	Nme8	1.002693	0.55892771	0.736459
364973	Best2	1.002693	0.55892771	0.736459
365564	Atoh7	1.002693	0.55892771	0.736459
405038	Olr312	1.002693	0.55892771	0.736459
405207	Olr837	1.002693	0.24245603	0.430363
405216	Olr1104	1.002693	0.55892771	0.736459
494499	Gsta5	1.002693	0.31140847	0.506514
497651	Rnase11	1.002693	0.55892771	0.736459
497970	Heatr9	1.002693	0.55892771	0.736459
498275	Fcrlb	1.002693	0.31140847	0.506514
498943	RGD1561415	1.002693	0.40851153	0.604985
499000	Zdhhc11	1.002693	0.1912683	0.364398
499721	Clca41	1.002693	0.40851153	0.604985
500409	Esrp1	1.002693	0.55892771	0.736459
500513	RGD1562532	1.002693	0.55892771	0.736459
500598	Tnfrsf18	1.002693	0.1912683	0.364398
501084	RGD1559960	1.002693	0.55892771	0.736459
57305	Uts2r	1.002693	0.55892771	0.736459
641640	Defb36	1.002693	0.31140847	0.506514
64621	Akp3	1.002693	0.55892771	0.736459
65050	Barhl2	1.002693	0.55892771	0.736459
65132	Cldn7	1.002693	0.55892771	0.736459
679834	Meig1	1.002693	0.55892771	0.736459
680620	Pou5f2	1.002693	0.55892771	0.736459
681290	LOC681290	1.002693	0.07954966	0.193663
682006	Tmem247	1.002693	0.55892771	0.736459
684545	Nlrp2	1.002693	0.55892771	0.736459
685227	Wfdc11	1.002693	0.55892771	0.736459
686140	Fam47e	1.002693	0.40851153	0.604985
687403	Acp7	1.002693	0.55892771	0.736459
687866	Myo1h	1.002693	0.55892771	0.736459
688389	LOC688389	1.002693	0.55892771	0.736459
688750	Cd209f	1.002693	0.40851153	0.604985
689437	LOC689437	1.002693	0.55892771	0.736459
689524	Wdr64	1.002693	0.31140847	0.506514
690227	Vom2r77	1.002693	0.55892771	0.736459
691352	LOC691352	1.002693	0.55892771	0.736459
691693	LOC691693	1.002693	0.56689729	0.736966
691982	Tmem95	1.002693	0.15226763	0.309889
78974	Six3	1.002693	0.55892771	0.736459

291615	Pabpc2	0.997134	0.03630374	0.104647
503122	Cyp4f40	0.996619	0.52672435	0.710444
362951	RGD1309808	0.996384	0.0067944	0.026846
103693700	LOC103693700	0.99618	0.54116606	0.722909
108352309	LOC108352309	0.995534	0.5602752	0.73569
25276	Sycp1	0.995462	0.56225637	0.733637
108351325	LOC108351325	0.994232	0.4492367	0.640973
108350933	LOC108350933	0.986771	0.10049589	0.229462
499413	Hsf2bp	0.981935	0.03285963	0.09689
83584	Casp6	0.979103	7.29E-05	5.00E-04
100363268	LOC100363268	0.977174	3.62E-06	3.25E-05
54271	Tpsab1	0.973547	0.00475855	0.019879
292594	Lilrb4	0.973149	1.21E-06	1.18E-05
102555622	LOC102555622	0.972062	0.5386903	0.720714
25008	Lta	0.969862	0.42666137	0.621759
171178	Adh7	0.969526	0.00840434	0.032063
81503	Cxcl1	0.967928	0.01017483	0.037576
103693258	LOC103693258	0.965219	0.54544639	0.726435
108351354	LOC108351354	0.965172	0.25833113	0.447713
108348142	LOC108348142	0.961456	1.13E-05	9.18E-05
102552889	LOC102552889	0.961324	0.0054651	0.02234
103693048	LOC103693048	0.959625	0.09881056	0.226592
100910117	LOC100910117	0.954961	0.00966817	0.036033
102546376	LOC102546376	0.95399	0.00679363	0.026849
103694543	LOC103694543	0.952288	0.40097142	0.59805
299685	Bpifc	0.950984	0.01465682	0.050817
108348094	NEWGENE_1306399	0.950844	5.58E-17	1.71E-15
102548194	LOC102548194	0.949582	0.26391252	0.454203
365395	C1cf1	0.949254	4.79E-05	3.43E-04
499377	Plekhs1	0.947637	0.04667716	0.128038
303148	Slc36a3	0.946523	0.26341618	0.453677
100910264	LOC100910264	0.94611	0.5547422	0.734399
103690020	LOC103690020	0.944258	1.53E-05	1.21E-04
310550	Dchs2	0.9438	0.0064768	0.025838
100910669	LOC100910669	0.942712	2.02E-08	2.59E-07
100912416	LOC100912416	0.941461	5.05E-04	0.002831
501568	RGD1560207	0.941293	0.06004629	0.15612
192203	Fap	0.937105	4.31E-13	9.60E-12
296499	Dlx2	0.935579	0.07382476	0.183036
498491	Tlr11	0.935579	0.07382476	0.183036
59300	Nat8f1	0.932662	6.50E-04	0.003545
679594	LOC679594	0.930679	0.09780693	0.224913
498894	RGD1560813	0.928806	0.16620466	0.33038
81737	Ntf3	0.928693	0.09103961	0.213476
500534	Ccdc24	0.92768	0.07342463	0.182317
286986	Vom2r75	0.92545	0.43944885	0.632792
303856	Atp13a5	0.924691	5.96E-05	4.17E-04
679817	Ces1a	0.924691	0.02046157	0.066751
501998	Cbln3	0.923589	0.03567284	0.103219
103690038	LOC103690038	0.923016	9.38E-12	1.83E-10
291555	Atp8b1	0.922867	1.24E-11	2.38E-10
108351613	LOC108351613	0.92095	0.41619887	0.612038
688996	Kcnk16	0.916963	0.00725154	0.028324
24237	C6	0.916279	5.20E-12	1.04E-10
25194	Gnrh1	0.91523	0.0302798	0.090758
361873	Cxadr11	0.914983	0.15612611	0.315851

297756	LOC297756	0.912066	0.38895902	0.586054
114768	Uox	0.909584	0.14006953	0.292936
500931	Fam186b	0.909584	0.14006953	0.292936
100911599	LOC100911599	0.909584	5.87E-09	8.17E-08
81508	Bhmt	0.908358	0.01149966	0.041527
103694556	LOC103694556	0.908056	0.67941217	0.82095
103694557	LOC103694557	0.908056	0.67941217	0.82095
113918	Slc6a20	0.905045	6.93E-43	5.64E-41
100910720	LOC100910720	0.903337	0.12820009	0.274921
310836	Abca4	0.903158	5.19E-04	0.002897
24617	Serpine1	0.902676	2.12E-23	9.03E-22
29403	Asgr2	0.901764	3.31E-10	5.41E-09
60378	Lypd3	0.900814	0.01553671	0.053411
192262	C1s	0.89992	5.16E-243	#####
100363289	LOC100363289	0.897431	0.00198803	0.009409
29132	Atpla4	0.89658	1.63E-05	1.28E-04
499754	Ccdc183	0.895778	0.17508755	0.342795
680522	Hist1hlb	0.895778	0.17508755	0.342795
316620	Mlph	0.895778	0.05514584	0.145929
690955	Lilrb3b	0.895236	3.76E-10	6.09E-09
687345	LOC687345	0.894964	0.09081072	0.213044
287140	Prss34	0.891662	0.00807122	0.030997
501416	LOC501416	0.890211	7.39E-14	1.79E-12
407756	Btla	0.889483	2.15E-04	0.001325
309767	Rsph4a	0.887514	0.47109805	0.661608
25553	Slc6a4	0.887216	0.00974914	0.036278
292401	Smoc2	0.883278	5.46E-73	7.64E-71
362119	C5	0.882399	0.01178399	0.042401
102549995	LOC102549995	0.881678	0.63879359	0.793441
498012	Ace3	0.881423	0.18101751	0.350639
108348047	LOC108348047	0.880365	5.43E-21	2.05E-19
366270	Edn3	0.878958	1.83E-05	1.43E-04
405224	Olr1587	0.878365	0.13897957	0.291409
100361556	LOC100361556	0.877162	0.22042591	0.402513
289236	Vsig8	0.877162	0.22042591	0.402513
296130	Gpat2	0.877162	0.22042591	0.402513
311446	Haol	0.877162	0.22042591	0.402513
315829	Fam83b	0.877162	0.22042591	0.402513
363913	Fzd10	0.877162	0.08310059	0.200285
365402	RGD1566289	0.877162	0.22042591	0.402513
108351831	LOC108351831	0.877049	0.01612278	0.054979
316018	Rtp3	0.873672	0.22177791	0.404072
299343	Tdrd9	0.873316	0.27649787	0.469039
29142	Vnn1	0.869427	0.04117926	0.115775
685590	LOC685590	0.869374	1.14E-06	1.12E-05
499949	Apcdd11	0.869044	0.12281458	0.26704
501072	Acaalb	0.868472	0.3000959	0.496726
363677	Gjd3	0.86519	0.10243619	0.232887
102551486	LOC102551486	0.863879	0.10287937	0.233532
685394	Ar114ep1	0.863807	0.01723436	0.058073
298579	Pla2g2d	0.862891	7.69E-10	1.21E-08
365855	RGD1563667	0.862068	0.08308928	0.200283
494201	Oas1e	0.861949	0.22066663	0.402663
108350568	LOC108350568	0.85943	0.21638608	0.397672
24470	Hsd3b5	0.85732	0.49844523	0.684814
316137	Adgre1	0.856659	2.07E-36	1.48E-34

362741	Pax9	0.851835	5.65E-08	6.82E-07
294093	Ankrd22	0.85069	0.28018493	0.473669
680678	Tcf24	0.85069	0.28018493	0.473669
108349232	LOC108349232	0.849842	0.13809461	0.289936
103690108	LOC103690108	0.848043	2.65E-144	#####
102551365	LOC102551365	0.846574	0.00270622	0.012292
689008	Fbn2	0.845692	1.47E-14	3.78E-13
25293	Aqp4	0.841721	7.55E-10	1.19E-08
170672	Nphs2	0.838167	0.01579632	0.054098
305340	Rbm47	0.83727	2.39E-04	0.001465
108351322	LOC108351322	0.832768	0.01432594	0.049833
117249	Dnah3	0.832768	0.15738484	0.317638
311956	Wdr86	0.832768	0.15738484	0.317638
313018	Kdf1	0.831191	0.2382108	0.425225
103690143	LOC103690143	0.830512	0.50639358	0.693084
83497	Ocln	0.828025	5.39E-13	1.19E-11
108349777	LOC108349777	0.827877	0.28712773	0.481623
100909612	LOC100909612	0.826443	0.50877807	0.695248
688583	LOC688583	0.825318	3.22E-06	2.92E-05
102550582	LOC102550582	0.821098	0.18989133	0.362882
300718	Sh2d7	0.820723	0.00803489	0.030895
100909893	LOC100909893	0.819829	0.03388128	0.099318
297584	Clec4a2	0.818269	0.020905	0.067837
108353009	LOC108353009	0.81741	0.21380298	0.394123
108353010	LOC108353010	0.81741	0.21380298	0.394123
24186	Alb	0.817138	0.01300278	0.046029
307049	RGD1564062	0.81694	0.21728725	0.398674
304966	Fcgr3a	0.815066	3.12E-05	2.33E-04
684440	Tlr8	0.815066	3.88E-09	5.57E-08
24646	Abcb1b	0.815005	9.25E-04	0.004835
102554231	LOC102554231	0.814283	0.311202	0.506481
290681	Nat3	0.814121	0.09595195	0.221988
108348048	LOC108348048	0.814001	1.40E-294	#####
502160	Lvrn	0.813152	5.70E-20	2.02E-18
29252	Gzmm	0.812869	8.96E-05	6.01E-04
25314	Emp1	0.81064	4.75E-176	#####
102546579	LOC102546579	0.810048	0.36108753	0.55767
102548061	LOC102548061	0.810048	0.19649782	0.371039
24886	Tbxas1	0.810048	1.35E-06	1.31E-05
252898	Acox2	0.810048	0.19649782	0.371039
288322	Lipi	0.810048	0.36108753	0.55767
303236	Odf4	0.810048	0.36108753	0.55767
680246	Tdgf1	0.810048	0.36108753	0.55767
687030	Muc3	0.810048	0.36108753	0.55767
89810	Opnlmw	0.810048	0.36108753	0.55767
89814	Tnfsf4	0.810048	0.19649782	0.371039
302369	Tbx22	0.810048	0.06776148	0.171315
100909441	LOC100909441	0.809677	2.32E-105	#####
296510	Sp5	0.809673	0.0322953	0.095655
60327	F13a1	0.808412	1.48E-24	6.71E-23
291669	RGD1564574	0.807724	0.03975673	0.112758
114020	Nat8f5	0.807471	1.17E-05	9.45E-05
296149	Sirpb3	0.807009	0.1119517	0.249079
494199	Oas1f	0.806895	7.59E-10	1.19E-08
501668	Dmrtcla	0.806656	2.41E-06	2.24E-05
688913	Dcun1d2	0.805431	2.80E-20	1.01E-18

303384	Mmp28	0.805381	6.20E-07	6.37E-06
24370	Foxg1	0.804358	0.12866596	0.275764
287136	Prss29	0.804148	0.00738108	0.028735
24190	Aldob	0.79916	0.04999307	0.134956
679787	Clec5a	0.798528	1.18E-07	1.36E-06
103691544	LOC103691544	0.796884	0.55551354	0.734756
100362113	LOC100362113	0.796612	7.36E-19	2.49E-17
689081	LOC689081	0.796242	0.08286637	0.199973
102555392	LOC102555392	0.795574	0.36211091	0.558571
103694226	LOC103694226	0.795574	0.36211091	0.558571
360918	Pf4	0.792274	1.95E-04	0.001214
25616	Rln1	0.791189	0.14036277	0.293308
363458	Col4a6	0.791189	0.03705339	0.106422
681341	LOC681341	0.789247	0.16562632	0.329505
108348812	LOC108348812	0.786607	0.21741927	0.398801
113892	Nat8f3	0.786179	2.57E-23	1.09E-21
24231	C2	0.785237	2.50E-54	2.63E-52
405349	Olr1737	0.785102	0.44530119	0.638035
291760	Dsc2	0.784053	0.01280836	0.045459
308350	Lilrb3	0.782728	1.24E-05	1.00E-04
305269	Stap1	0.782634	0.00111637	0.005677
309288	Rorb	0.782581	0.03452184	0.100684
29268	Tpsb2	0.782568	0.00139151	0.006891
306889	RGD1564786	0.780702	0.04479448	0.124053
100361444	Angptl8	0.780301	0.2469359	0.435574
117064	Vip	0.780301	0.2469359	0.435574
360417	Ptprq	0.780301	0.2469359	0.435574
690393	Tex12	0.779504	0.00726995	0.028384
685025	LOC685025	0.779435	0.00744824	0.028926
25432	Drd4	0.779215	0.30376165	0.500835
116487	Tgfb1	0.776824	9.72E-262	#####
313504	Foxd2	0.775644	1.45E-15	4.02E-14
292301	Tbxt	0.775283	0.0333176	0.09799
689210	Spdef	0.775283	0.0333176	0.09799
100912068	LOC100912068	0.774579	5.72E-08	6.89E-07
366452	Ptch2	0.771633	5.58E-21	2.10E-19
100911796	LOC100911796	0.770402	0.0707723	0.17714
689458	LOC689458	0.769308	0.05166036	0.138165
293591	Scart1	0.768228	0.17395471	0.341262
25236	Gpc3	0.767987	8.51E-172	#####
100361947	Zfp42	0.767477	0.19661137	0.371143
246266	Aspg	0.765836	3.30E-07	3.56E-06
298605	Tmem82	0.764534	0.0402947	0.113944
29139	Dcn	0.762996	0	0
108348208	LOC108348208	0.762211	0.04975503	0.134466
102547257	LOC102547257	0.762207	0.15201257	0.309535
293154	Folr2	0.762133	3.02E-13	6.83E-12
102547688	LOC102547688	0.762112	0.02501138	0.078102
117027	Ccr3	0.761685	0.12472369	0.269836
501570	RGD1565785	0.761685	0.02991875	0.089931
497796	LOC497796	0.761485	0.12310858	0.267466
685357	Baiap212	0.760123	0.00590344	0.02381
108348044	LOC108348044	0.759157	2.79E-06	2.56E-05
100909455	LOC100909455	0.755524	8.03E-05	5.45E-04
293744	Ms4a7	0.754766	0.00146412	0.007211
309666	Ubash3a	0.754766	2.39E-04	0.001462

108349172	LOC108349172	0.754014	0.57223264	0.741322
298861	Ptrhd1	0.753434	4.44E-30	2.52E-28
301227	Trem2	0.752101	2.24E-11	4.18E-10
116649	Kcnj4	0.751732	4.92E-04	0.002763
306454	Cldn22	0.749006	1.21E-04	7.92E-04
102546424	LOC102546424	0.748444	0.00215215	0.010073
24653	Pla2g4a	0.748419	1.48E-06	1.43E-05
681092	Pou6f2	0.74815	0.00662036	0.026301
89829	Socs3	0.747764	2.83E-23	1.20E-21
689257	Adgrd1	0.746801	6.31E-17	1.92E-15
313831	Vit	0.746679	2.54E-34	1.68E-32
295279	Fcgr1a	0.745987	6.35E-12	1.26E-10
448830	Ly96	0.745667	1.41E-06	1.36E-05
108348113	Egfl1	0.744793	0.00571458	0.023166
25021	Itgam	0.743518	9.03E-12	1.77E-10
407760	Krt86	0.742541	0.40798354	0.604861
108351105	LOC108351105	0.740611	7.79E-08	9.25E-07
103690152	LOC103690152	0.739996	0.03664718	0.105525
102551208	Tctex1d4	0.739659	0.47556598	0.665502
102555817	LOC102555817	0.739659	0.47556598	0.665502
103692827	LOC103692827	0.739659	0.47556598	0.665502
108348722	LOC108348722	0.739659	0.47556598	0.665502
108351813	LOC108351813	0.739659	0.21655688	0.397851
24443	Hdc	0.739659	0.00187171	0.008932
25069	Tnfrsf8	0.739659	0.31298719	0.507954
25294	Azgp1	0.739659	0.15360742	0.311832
290595	LOC290595	0.739659	0.47556598	0.665502
301266	Adgrf1	0.739659	0.31298719	0.507954
304000	Igsf5	0.739659	0.31298719	0.507954
305307	Cwh43	0.739659	0.47556598	0.665502
367306	RGD1561755	0.739659	0.6438161	0.797339
498036	Csnka2ip	0.739659	0.47556598	0.665502
498300	LOC498300	0.739659	0.47556598	0.665502
499277	RGD1560958	0.739659	0.21655688	0.397851
499765	Cfap77	0.739659	0.47556598	0.665502
64572	Vax2	0.739659	0.47556598	0.665502
685102	Nkx6-3	0.739659	0.47556598	0.665502
689108	Slc25a31	0.739659	0.47556598	0.665502
84475	Cxcr3	0.739659	0.15360742	0.311832
102551737	LOC102551737	0.739659	0.05907733	0.154275
296500	Dlx1	0.739659	0.00759655	0.029421
498345	Tmprss11f	0.739659	0.00759655	0.029421
25239	Apod	0.736333	0	0
100359752	LOC100359752	0.735589	5.62E-04	0.003108
100364500	LOC100364500	0.73547	7.20E-21	2.68E-19
294257	Cfb	0.734606	4.76E-12	9.55E-11
108349608	LOC108349608	0.733414	7.96E-05	5.41E-04
498241	RGD1564614	0.73044	0.4717331	0.662158
361266	Akr1c12	0.730073	0.00830827	0.031748
689907	Ankrd61	0.728518	0.0389493	0.110814
315039	Osr2	0.725954	2.26E-11	4.21E-10
29509	Slc22a6	0.725159	3.15E-04	0.001869
681236	Cd79a1	0.725101	0.05600296	0.147828
100909794	LOC100909794	0.724417	0.0807339	0.195995
170635	Dhrs9	0.722585	0.09807641	0.225383
24500	I19r	0.722585	0.09807641	0.225383

394266	Gjb2	0.721917	1.23E-20	4.52E-19
117029	Ccr5	0.721805	2.76E-11	5.12E-10
103694534	LOC103694534	0.721645	0.50723048	0.693681
100365773	LOC100365773	0.720922	0.02587472	0.080167
102555624	LOC102555624	0.719071	0.18550201	0.356929
300520	Vsig2	0.7189	0.13554206	0.28579
686581	Tmprss11a	0.7189	0.13554206	0.28579
498638	Msr1	0.718272	1.77E-13	4.09E-12
66021	Cybb	0.717021	3.62E-13	8.09E-12
65129	Cldn1	0.716612	2.30E-94	4.06E-92
305355	Tlr10	0.715987	0.13719147	0.288358
100910688	LOC100910688	0.715295	1.18E-04	7.71E-04
499271	Itgax	0.71493	4.07E-06	3.61E-05
498022	RGD1559482	0.713768	4.04E-05	2.94E-04
282586	Muc6	0.713187	0.06368698	0.163554
298017	Actl7a	0.713187	0.18977878	0.362721
308716	I120ra	0.713187	0.18977878	0.362721
304988	Mnda	0.712211	6.62E-07	6.76E-06
24379	Gad1	0.710804	7.55E-05	5.16E-04
293490	Gdpd3	0.709912	0.00590172	0.023808
295012	RGD1563562	0.709071	0.41589781	0.611832
363143	Gnat1	0.708962	0.08692665	0.20694
687532	LOC687532	0.708497	0.08715951	0.207002
408229	Slpil2	0.70679	0.24591199	0.434291
292406	Thbs2	0.705935	1.34E-75	1.96E-73
24536	Lepr	0.704721	1.78E-32	1.10E-30
305842	Rnase6	0.704586	0.23785636	0.424911
25383	Apobec1	0.703702	5.38E-08	6.51E-07
296179	Fermt1	0.703395	0.16487692	0.32908
108348111	LOC108348111	0.703133	6.66E-06	5.65E-05
299599	Theg	0.703133	0.27109625	0.462699
305236	Cxcl11	0.703133	0.27109625	0.462699
140586	Sox9	0.700891	6.11E-09	8.48E-08
362431	Clec4a3	0.700255	7.42E-08	8.83E-07
500697	RGD1565693	0.700231	0.23086756	0.416016
362430	Clec4a1	0.699617	3.51E-10	5.71E-09
100912590	LOC100912590	0.699356	2.41E-07	2.65E-06
364858	Stk32a	0.697839	0.01240615	0.044263
680346	LOC680346	0.693887	0.05003233	0.135005
24494	I11b	0.693009	0.011105	0.0404
685351	LOC685351	0.692353	0.3663386	0.562383
499536	Ccdc152	0.692238	0.01243202	0.044339
316638	Sned1	0.69138	6.75E-98	1.25E-95
100361584	Ano2	0.690749	0.10560624	0.237936
306127	Acod1	0.690454	0.10058723	0.229561
297666	Klra5	0.690418	0.04760337	0.13011
59323	Erbb4	0.689535	5.66E-04	0.003128
108351351	LOC108351351	0.68944	0.56548006	0.736129
681319	Ido2	0.68832	0.05748154	0.150915
304021	Col8a1	0.686845	6.32E-25	2.92E-23
84397	Tnfaip6	0.686831	3.49E-04	0.002054
685007	Unc93a	0.685105	0.01706857	0.057565
171339	Dnah1	0.684332	1.49E-04	9.50E-04
679841	Dnd1	0.683736	0.22596209	0.409657
498781	RGD1561231	0.683418	5.48E-10	8.74E-09
64552	Mpeg1	0.682384	6.84E-52	6.86E-50

114099	Cysltrl	0.682231	3.02E-05	2.26E-04
688858	LOC688858	0.682201	0.39935264	0.596523
103690021	NEWGENE_1589866	0.681632	0.27837791	0.471451
690912	Fam124b	0.681632	0.27837791	0.471451
100359656	LOC100359656	0.680765	0.4014032	0.598343
103690541	Fam237a	0.680765	0.4014032	0.598343
29151	Ucn	0.680765	0.4014032	0.598343
295449	Arhgef38	0.680765	0.09330106	0.21744
310090	Ddx4	0.680765	0.4014032	0.598343
500705	Efcab11	0.680765	0.14611416	0.301098
103692570	LOC103692570	0.677302	0.02224393	0.071247
266778	Vom2r44	0.676398	5.33E-04	0.002961
81682	Lum	0.676214	2.00E-271	#####
54250	Fgf2	0.674639	0.00432411	0.018297
100362830	LOC100362830	0.674299	0.04427722	0.122853
24233	C4a	0.673382	2.11E-31	1.27E-29
24330	Egr1	0.673238	3.35E-39	2.54E-37
500362	Lmtd1	0.670118	0.1284481	0.275329
85272	Bmp7	0.668956	4.01E-11	7.23E-10
266685	Ugt2b17	0.668878	0.09768148	0.224706
102553099	LOC102553099	0.668647	0.01317081	0.046503
360747	Spag6	0.668086	0.41125787	0.606975
308762	Tt1113	0.667957	2.57E-04	0.001559
312701	Cd163	0.667795	7.70E-20	2.70E-18
503462	Trmt2b	0.667509	0.01873949	0.062177
302586	LOC302586	0.666378	0.28709785	0.481615
301365	I118r1	0.665658	0.07298583	0.181535
365391	Trpm5	0.665658	0.02810133	0.08563
361221	No18	0.665623	3.52E-07	3.77E-06
299737	Ntn4	0.665104	1.03E-25	4.95E-24
317181	SrpX2	0.664697	4.37E-06	3.86E-05
298765	Zfp3612	0.663795	0.01804517	0.060293
503146	RGD1561812	0.662811	0.17065035	0.336652
300384	Naalad2	0.662618	0.0100333	0.037158
474143	Clec4a	0.662618	0.0100333	0.037158
103693375	LOC103693375	0.662069	0.57870069	0.746249
266684	Cyp2d1	0.660358	0.00274543	0.012452
287231	RGD1559575	0.660092	1.30E-08	1.73E-07
24826	Tg	0.659806	0.06462451	0.165249
299242	Gpr65	0.658739	0.03770593	0.107889
679975	Gpr183	0.656802	4.22E-05	3.05E-04
103693234	LOC103693234	0.656726	0.05294579	0.141048
691382	Hus1b	0.65647	0.31702709	0.511676
103690097	LOC103690097	0.655745	0.061947	0.160014
292902	Slc6a16	0.65477	0.34178052	0.538463
314711	Spic	0.65477	0.17881049	0.347565
315074	RGD1308195	0.65477	0.34178052	0.538463
366990	RGD1305207	0.65477	0.34178052	0.538463
500088	Rab19	0.65477	0.34178052	0.538463
688111	Hsf5	0.65477	0.05726188	0.150421
114523	Ntn1	0.65477	2.84E-14	7.16E-13
307838	Chst4	0.65441	0.09294144	0.216814
100912787	LOC100912787	0.653281	0.1324681	0.281726
103690032	LOC103690032	0.651816	0.34044716	0.53714
100910606	LOC100910606	0.651786	0.73735652	0.857952
310869	Rrh	0.651552	0.08480883	0.203398

171452	Rab3i11	0.651471	1.02E-12	2.19E-11
685158	Cfap299	0.651221	0.02982298	0.089728
494209	Ly49si3	0.650824	0.06725324	0.170211
64033	Ccnd2	0.65078	1.31E-12	2.77E-11
316061	Slc22a14	0.650392	0.05077265	0.136394
406865	Mpig6b	0.650392	0.05077265	0.136394
103694852	LOC103694852	0.649365	0.32070193	0.515859
103690035	LOC103690035	0.649333	0.3377893	0.53463
140594	Syt14	0.649332	1.35E-04	8.69E-04
689931	Mgarp	0.649056	0.08791915	0.208235
445442	Thbs1	0.64886	5.44E-30	3.07E-28
84386	Slpi	0.648856	0.00254246	0.011643
316207	RGD1307182	0.648561	0.03193273	0.094773
296952	Kcp	0.648423	1.36E-06	1.32E-05
64668	Mbl2	0.646344	0.30379993	0.500854
94341	Kcnj13	0.646	2.91E-07	3.16E-06
311425	Adam33	0.645371	1.34E-09	2.03E-08
315979	Col6a6	0.643573	2.37E-38	1.77E-36
316559	Slc19a3	0.642797	0.00200903	0.009487
103690109	LOC103690109	0.642183	0.29146486	0.486925
64825	N5	0.641883	0.00103101	0.005314
102552784	LOC102552784	0.641527	0.39477803	0.592105
313060	Spocd1	0.640123	0.29318733	0.488945
680270	Ccdc83	0.640123	0.29318733	0.488945
690888	Oosp2	0.640123	0.29318733	0.488945
303566	LOC303566	0.640123	0.13713159	0.28828
686596	LOC686596	0.640123	0.13713159	0.28828
100360801	Ddx60	0.63795	3.62E-06	3.25E-05
114247	Slfn4	0.636201	1.81E-26	8.98E-25
100910790	LOC100910790	0.635951	0.28620323	0.480538
287098	Cldn6	0.635322	0.37752859	0.574605
686050	LOC686050	0.634962	0.12043636	0.263131
362417	I117re	0.633826	0.00169969	0.008203
361821	Col6a2	0.633438	2.32E-181	#####
361289	Colec12	0.632999	3.54E-22	1.41E-20
299699	Aldh112	0.632582	5.18E-05	3.67E-04
298566	Clqa	0.632217	2.22E-31	1.33E-29
29200	Inhba	0.631974	3.29E-06	2.97E-05
297411	Tprkb	0.631612	2.42E-17	7.54E-16
100911422	LOC100911422	0.631601	0.01033744	0.038103
100365733	Tmem262	0.630725	0.38396597	0.580644
294795	Caps1	0.630725	0.2529681	0.441512
102554774	LOC102554774	0.630499	0.50407528	0.690705
81523	Myoc	0.629576	0	0
100360841	LOC100360841	0.627225	0.29180591	0.487239
303666	Cd300c2	0.627006	0.03182063	0.094514
103689965	LOC103689965	0.626995	3.03E-33	1.92E-31
691499	Zfp469	0.626584	1.41E-11	2.68E-10
100912350	LOC100912350	0.626021	0.03151242	0.093803
312677	Ccdc77	0.625898	6.78E-12	1.34E-10
311426	Siglec1	0.625028	2.97E-10	4.88E-09
362550	Ror1	0.623635	3.19E-08	3.99E-07
367332	RGD1566007	0.62328	0.49628786	0.682588
26296	Tfec	0.622421	0.02964252	0.089326
554353	Gpr34	0.62227	3.01E-05	2.25E-04
688925	LOC688925	0.621764	0.39560747	0.592835

311835	Ddx31	0.621221	1.24E-12	2.62E-11
301232	RGD1561662	0.620194	5.74E-04	0.003165
310683	Itga10	0.619365	0.00343926	0.015113
102555239	LOC102555239	0.617272	0.31267474	0.50775
50621	Slc23a1	0.61567	0.16647729	0.329992
100912948	LOC100912948	0.615284	0.32484065	0.520363
691249	LOC691249	0.615172	0.34939164	0.546095
24188	Aldh1a1	0.615009	3.91E-56	4.25E-54
89843	Cxadr	0.614471	3.07E-84	5.04E-82
353227	Zbtb16	0.614271	4.32E-28	2.30E-26
100270669	Riad1	0.613831	0.10916693	0.243881
314652	RGD1564744	0.613732	0.12362787	0.26841
689936	Gpr81	0.613419	0.00403962	0.017289
100911562	LOC100911562	0.613183	0.28434668	0.478391
102556253	Tdrd15	0.612591	0.00756716	0.02934
100910978	LOC100910978	0.612193	3.35E-13	7.52E-12
60449	Gnb3	0.611903	0.01046237	0.038504
361734	Ms4a4a	0.611679	0.0645857	0.165216
499991	Steap4	0.611093	1.10E-36	7.88E-35
306761	F12	0.610376	0.12771446	0.274265
366189	Tgm3	0.610376	0.12771446	0.274265
64352	Gstm5	0.61022	9.84E-04	0.005105
494200	Oaslh	0.610111	0.45309271	0.644544
312279	Epha1	0.609883	0.16609837	0.330203
680866	Tmem45a	0.608286	0.09328377	0.217426
295703	Serping1	0.607832	2.86E-177	#####
287392	Tekt3	0.607392	2.76E-04	0.001665
102553405	LOC102553405	0.606994	9.16E-06	7.58E-05
313233	Galnt12	0.606765	0.01954622	0.06426
690416	Rbbp8nl	0.605244	0.08296428	0.200083
102554393	Adamts13	0.604463	0.00130543	0.006513
102557539	LOC102557539	0.604307	0.64117226	0.795202
286926	Tfpi2	0.604144	0.01232097	0.044017
102550277	LOC102550277	0.604116	1.69E-04	0.001068
290403	Rubcn1	0.602155	0.001122	0.005701
685567	Ppil6	0.601847	0.03581386	0.103517
60423	Slc28a2	0.601222	1.97E-09	2.92E-08
24988	RT1-M2	0.599688	0.42577775	0.620994
304382	RGD1561143	0.599208	0.04095711	0.115286
317590	Magec2	0.598752	0.30517837	0.502084
103692555	LOC103692555	0.598091	0.01171541	0.04217
291653	Pcdhb6	0.597902	4.67E-04	0.002641
100363472	LOC100363472	0.597673	0.32752433	0.523165
24329	Egfr	0.596643	4.74E-29	2.59E-27
108348197	LOC108348197	0.595588	0.19962068	0.375114
102555503	LOC102555503	0.595518	0.01152707	0.041602
24521	Kcnj1	0.594505	0.00811145	0.031121
311252	Pamr1	0.593997	6.30E-12	1.25E-10
103692301	LOC103692301	0.592409	0.57561458	0.74378
311797	Fam166a	0.591976	0.22189365	0.404205
301489	Pi15	0.591938	0.00441522	0.018628
307414	MGC108823	0.591901	1.83E-07	2.04E-06
80899	Slc21a4	0.590058	0.52192427	0.70627
317227	Tlr13	0.589617	5.51E-07	5.72E-06
687424	Dtx1	0.588519	1.63E-26	8.15E-25
311406	Dusp2	0.587656	0.10409096	0.235469

100360476	Sh2d3a	0.587656	0.20230271	0.378306
100360666	Lrtml	0.587656	0.74991263	0.866237
100360795	Tmco2	0.587656	0.65214304	0.802356
100363367	Dthd1	0.587656	0.65214304	0.802356
102546838	LOC102546838	0.587656	0.65214304	0.802356
102547963	LOC102547963	0.587656	0.74991263	0.866237
102549011	LOC102549011	0.587656	0.65214304	0.802356
103691649	LOC103691649	0.587656	0.52379324	0.707794
103693455	LOC103693455	0.587656	0.65214304	0.802356
108349768	LOC108349768	0.587656	0.65214304	0.802356
108351090	LOC108351090	0.587656	0.52379324	0.707794
108352613	LOC108352613	0.587656	0.65214304	0.802356
114552	Bc12l10	0.587656	0.52379324	0.707794
140927	Selenbp1	0.587656	1.19E-05	9.65E-05
170637	Samsn1	0.587656	0.00278808	0.012634
171459	Gp2	0.587656	0.65214304	0.802356
24254	Cel	0.587656	0.23299843	0.418885
24898	Slc6a3	0.587656	0.65214304	0.802356
24938	Grpr	0.587656	0.65214304	0.802356
286911	Prss3	0.587656	0.65214304	0.802356
287346	Fam183a	0.587656	0.65214304	0.802356
287751	Lyz16	0.587656	0.65214304	0.802356
287885	Sectmla	0.587656	0.17625976	0.344471
289687	Gba3	0.587656	0.65214304	0.802356
290425	RGD1306441	0.587656	0.65214304	0.802356
293426	Nlrp10	0.587656	0.65214304	0.802356
29394	Gcm1	0.587656	0.65214304	0.802356
294394	Gprc6a	0.587656	0.65214304	0.802356
296138	Acox1	0.587656	0.65214304	0.802356
298394	Olr836	0.587656	0.65214304	0.802356
300250	Krt1	0.587656	0.313459	0.508417
300549	Olr1223	0.587656	0.65214304	0.802356
300676	Ttc36	0.587656	0.65214304	0.802356
301154	Vom2r76	0.587656	0.43492832	0.628874
301233	Gucala	0.587656	0.65214304	0.802356
303477	Igf2bp1	0.587656	0.52379324	0.707794
304690	Serpinb13	0.587656	0.65214304	0.802356
306441	Spata4	0.587656	0.65214304	0.802356
309584	RT1-M4	0.587656	0.65214304	0.802356
310327	Qrfpr	0.587656	0.65214304	0.802356
310902	LOC310902	0.587656	0.65214304	0.802356
319106	Taar8b	0.587656	0.65214304	0.802356
319107	Taar9	0.587656	0.65214304	0.802356
360750	Ccl25	0.587656	0.65214304	0.802356
361979	Tsacc	0.587656	0.65214304	0.802356
362727	Efcab10	0.587656	0.20230271	0.378306
363784	Tigit	0.587656	0.65214304	0.802356
367201	RGD1562392	0.587656	0.65214304	0.802356
405023	Olr1345	0.587656	0.74991263	0.866237
405066	Olr1388	0.587656	0.74991263	0.866237
499287	Ano9	0.587656	0.43492832	0.628874
500243	Asprv1	0.587656	0.52379324	0.707794
501056	Tmem89	0.587656	0.65214304	0.802356
554302	Tas2r108	0.587656	0.52379324	0.707794
58850	Nr0b1	0.587656	0.65214304	0.802356
58980	Slc13a1	0.587656	0.52379324	0.707794

679942	Angptl1	0.587656	0.00435779	0.018415
680244	Tmem139	0.587656	0.65214304	0.802356
681682	Ct45a9	0.587656	0.65214304	0.802356
688155	B4galnt2	0.587656	0.26950711	0.460833
690037	Izumolr	0.587656	0.23299843	0.418885
117253	Dnah11	0.586122	1.74E-12	3.63E-11
498564	Itgbl1	0.584474	3.63E-48	3.39E-46
102552068	LOC102552068	0.584383	0.09396384	0.218503
171356	Foxc2	0.583879	6.52E-11	1.14E-09
108348188	LOC108348188	0.58354	0.49381516	0.680761
29169	Vtn	0.583254	4.20E-47	3.79E-45
116662	Ecm1	0.583108	3.96E-27	2.03E-25
302668	Ace2	0.582503	1.03E-09	1.58E-08
502534	RGD1560162	0.582031	0.61312447	0.773872
680910	LOC680910	0.581299	7.96E-05	5.41E-04
25641	Igfbp6	0.581286	3.76E-170	#####
309810	RGD1304770	0.581162	0.24976507	0.438251
362268	Rbpjl	0.58082	0.05215874	0.139283
688022	LOC688022	0.58046	0.65572513	0.802641
154516	Ugt1a7c	0.579953	6.25E-08	7.50E-07
246239	Slc15a3	0.579703	1.93E-06	1.83E-05
311547	Foxs1	0.578939	6.49E-16	1.84E-14
296371	Pltp	0.578919	4.62E-43	3.80E-41
301562	Col4a4	0.577808	0.02851329	0.086664
360857	Rgs16	0.577314	1.69E-07	1.90E-06
289048	Lhx9	0.575668	0.00869605	0.032952
108348162	Thpo	0.574999	0.28444591	0.478515
314322	Fos	0.574093	1.20E-13	2.82E-12
302756	Ppp4r3c	0.573156	0.66097951	0.806171
287435	Cd68	0.573145	1.10E-10	1.89E-09
103690057	LOC103690057	0.573003	3.88E-09	5.57E-08
311785	Psd4	0.572593	9.29E-05	6.20E-04
25556	I11r11	0.572453	9.42E-05	6.28E-04
361493	Lilrb3l	0.571041	1.43E-04	9.16E-04
293686	Slc22a20	0.570977	0.09630959	0.22237
294932	Spata16	0.570977	0.09630959	0.22237
361834	Cabcocol	0.570582	0.00444167	0.018723
353317	Acsm4	0.570295	0.12246547	0.266463
686932	Cdhr3	0.570034	0.00237304	0.01097
685645	Ces2j	0.569734	0.72037998	0.846943
24176	Adrb2	0.569226	0.00160861	0.007817
300920	Cl1dn2	0.56921	0.07679768	0.188505
303505	Plxdc1	0.569089	6.54E-10	1.03E-08
25752	Cd6	0.56904	0.02651459	0.081737
500594	LOC500594	0.569013	0.07063725	0.176872
316399	Ccdc150	0.568291	0.0298286	0.089731
100361909	Ear1	0.567752	0.09868334	0.226355
100911256	LOC100911256	0.567039	0.21723333	0.398652
500046	Cped1	0.56699	4.76E-17	1.46E-15
100911993	LOC100911993	0.566866	0.05109221	0.137146
100911545	LOC100911545	0.566604	6.35E-09	8.80E-08
84382	Tcf4	0.566368	4.95E-17	1.52E-15
310444	P2ry13	0.566054	1.27E-04	8.23E-04
308569	Acp4	0.565781	0.06455457	0.165181
317614	Map7d3	0.565773	1.41E-04	9.08E-04
498609	Lpar2	0.56563	0.04262398	0.119098

59107	Ltbp1	0.565406	6.88E-20	2.42E-18
24932	Cd4	0.564913	1.21E-45	1.03E-43
83727	Fbn1	0.564754	7.16E-132	#####
100911854	LOC100911854	0.56411	0.1945652	0.368669
686539	Islr	0.562453	4.74E-61	5.82E-59
25060	Hk3	0.562121	0.02191652	0.070376
292746	Fcgbp11	0.562073	0.31829807	0.513162
24963	Hspa11	0.559822	3.06E-04	0.001823
310663	Tnfaip812	0.559822	8.56E-08	1.01E-06
100911041	Tmem45a1	0.559248	1.23E-06	1.20E-05
294119	Moxd1	0.559087	0.21342934	0.393605
498572	Spert	0.559087	0.07848383	0.191656
100910196	LOC100910196	0.557061	0.09693339	0.223417
302993	Sox8	0.556976	1.85E-07	2.07E-06
108349185	LOC108349185	0.556127	1.58E-09	2.38E-08
140589	Gli1	0.555982	4.35E-26	2.11E-24
690686	LOC690686	0.555575	0.27102895	0.462646
405110	Olr868	0.555234	0.713777	0.843136
66020	Gapdhs	0.555234	0.10093716	0.230139
102554096	LOC102554096	0.555007	0.09175667	0.214866
64512	Fzd2	0.554717	1.23E-23	5.29E-22
307106	Sfmbt2	0.55289	0.0256979	0.079736
100912428	LOC100912428	0.552784	0.22450109	0.407629
108350583	LOC108350583	0.551298	8.61E-04	0.004539
309212	Ptgdr2	0.551286	0.17035137	0.336166
100911692	LOC100911692	0.55107	0.07180594	0.179186
681364	LOC681364	0.551033	0.37533161	0.572267
116642	Slc28a1	0.550181	0.28505544	0.479223
302538	Syt15	0.550181	0.28505544	0.479223
287450	Slc16a11	0.549928	3.57E-59	4.26E-57
290361	Dok2	0.549521	0.00149636	0.007351
100912012	Clec3b	0.549316	3.60E-20	1.29E-18
367216	Ncr2	0.54891	0.64751888	0.800311
360565	Spata22	0.547014	0.14891523	0.304776
60567	Syt10	0.547014	0.14891523	0.304776
500877	LOC500877	0.546834	0.18056387	0.349902
307403	Csflr	0.54645	1.11E-55	1.19E-53
308445	Cyp2s1	0.545624	1.13E-11	2.17E-10
313589	Rspo1	0.545153	5.98E-04	0.003284
294706	Cd180	0.544843	0.00173562	0.008362
363104	Cd109	0.544843	1.25E-04	8.14E-04
363938	Oas2	0.544587	0.01561613	0.053597
103693640	LOC103693640	0.543687	0.00519847	0.021444
362336	Fam180a	0.543461	4.78E-10	7.67E-09
103690834	LOC103690834	0.543262	0.33212873	0.528327
363653	Efcab5	0.543262	0.33212873	0.528327
102552204	LOC102552204	0.542802	0.012851	0.045594
304608	Mmp19	0.542006	6.08E-11	1.07E-09
100910474	LOC100910474	0.541779	0.54734799	0.728357
498757	Aoah	0.541113	0.05917683	0.154429
25646	Otx1	0.540789	0.80367258	0.89982
116676	Aldh1a2	0.540543	1.16E-07	1.35E-06
360814	Rasa11	0.54035	0.10554143	0.237874
360704	Hmgn1	0.540277	1.82E-32	1.12E-30
499174	Cers3	0.540213	0.14020418	0.293073
24303	Cyp2d3	0.539675	0.18455634	0.355505

83837	Bambi	0.538897	1.34E-07	1.54E-06
289129	Tdrd5	0.538746	0.06686254	0.169447
317468	Tlr7	0.538624	8.45E-07	8.48E-06
499249	Plekha7	0.538468	4.27E-08	5.24E-07
366859	Glt8d2	0.538361	3.31E-06	2.99E-05
498650	Rab11fip1	0.538139	8.03E-07	8.08E-06
65053	Rassf9	0.537731	0.04295644	0.119799
309621	RT1-Ba	0.53633	4.96E-32	3.02E-30
102549803	Nat8f4	0.533886	3.79E-05	2.77E-04
103693165	LOC103693165	0.533255	0.16473685	0.328938
365901	Gnat2	0.533208	0.39005613	0.587057
685479	S100a7a	0.533208	0.39005613	0.587057
79438	Igfals	0.533208	0.39005613	0.587057
295631	Pla2r1	0.532945	0.00105359	0.00541
362634	Clqc	0.532836	1.92E-28	1.03E-26
294337	Col6a1	0.532481	8.66E-130	#####
299038	Spin4	0.532161	0.00324602	0.01438
685868	Otogl	0.53182	0.44332611	0.636162
315179	Efcab6	0.531803	0.01111112	0.040411
685277	Ildr2	0.531803	0.01111112	0.040411
303692	St6galnac2	0.53103	9.91E-10	1.53E-08
287910	Ccl6	0.53087	2.72E-08	3.43E-07
108348057	NEWGENE_1591402	0.530648	1.29E-13	3.04E-12
362734	Stxbp6	0.530126	1.08E-15	3.03E-14
293561	Rnf152	0.530107	4.26E-11	7.67E-10
56822	Cd86	0.52994	0.09703112	0.223588
266603	Aldh1a3	0.529624	2.03E-06	1.91E-05
312705	C1r	0.529598	7.44E-99	1.40E-96
292414	Vom2r10	0.528762	0.42198434	0.6174
294027	Col117a1	0.528762	0.15575689	0.315205
310553	Tlr2	0.527784	4.98E-05	3.54E-04
361832	Bicc1	0.527437	5.58E-34	3.60E-32
25389	Atf3	0.527238	8.17E-16	2.30E-14
497931	Pik3r5	0.52696	0.00762309	0.029502
500902	RGD1565356	0.526954	0.03633199	0.104713
311373	Trim69	0.526706	0.02374744	0.07509
80848	Cubn	0.526492	4.23E-06	3.74E-05
171040	I111	0.526255	0.25859617	0.447867
361576	Tulp2	0.526255	0.25859617	0.447867
688542	LOC688542	0.52588	0.41479701	0.610731
103689945	LOC103689945	0.525792	1.86E-42	1.50E-40
287467	Pitpnm3	0.525669	5.35E-09	7.49E-08
108350811	LOC108350811	0.524142	0.39345925	0.590685
292263	Fbxo5	0.52404	0.0095445	0.035663
680813	Cfap47	0.523525	0.17803885	0.346809
317219	P2ry10	0.523061	0.14989585	0.306207
444985	Dnmt3b	0.5227	0.00389721	0.016762
64357	Cd200r1	0.522411	0.02334636	0.073982
100361043	Dytn	0.522067	0.12515187	0.270424
89830	Ptch1	0.521803	3.53E-58	4.12E-56
307415	RGD1309362	0.520933	1.05E-17	3.33E-16
303378	S1fn13	0.520864	1.83E-26	9.06E-25
24571	Muc1	0.520542	0.06413395	0.164281
102555634	LOC102555634	0.520093	0.00486285	0.020252
295660	RGD1564400	0.519488	1.10E-07	1.29E-06
291327	Mrc1	0.518346	3.17E-24	1.40E-22

293065	Tmc3	0.517267	0.03806341	0.108716
24931	Cd8b	0.517267	0.46335719	0.653943
259235	Sdr9c7	0.517267	0.20402588	0.380687
290753	Lrp2bp	0.517267	0.29969611	0.496323
296198	Banf2	0.517267	0.46335719	0.653943
364031	Tnfsf18	0.517267	0.46335719	0.653943
365748	Bhlhe22	0.517267	0.07244923	0.180507
501158	Spag16	0.517267	0.46335719	0.653943
690105	Kncn	0.517267	0.46335719	0.653943
79111	Slc27a5	0.517267	0.46335719	0.653943
361312	RGD1563159	0.517018	0.10181723	0.231812
102556463	LOC102556463	0.515927	0.12897964	0.27625
315101	Zfp7	0.515769	0.00162027	0.007856
102551683	LOC102551683	0.515342	0.12130424	0.264602
100912342	LOC100912342	0.515056	0.04477623	0.124038
25746	I12rb	0.514903	0.04689555	0.128581
25026	Adm	0.513687	2.92E-05	2.19E-04
305947	Kcnrg	0.512642	0.00214974	0.010064
691993	Scimp	0.511707	0.16248192	0.325357
114482	Nek2	0.511509	0.03245728	0.096031
691533	Lilra5	0.511273	5.76E-04	0.003175
102547665	LOC102547665	0.509225	0.22334917	0.406118
503568	Slc13a4	0.508597	4.33E-27	2.21E-25
685692	Gcsam	0.507518	0.0310238	0.092595
140914	Olr1	0.507485	0.01952859	0.064224
102552882	LOC102552882	0.506998	0.13094254	0.279261
360655	Cd300le	0.506867	2.65E-04	0.001607
498072	Hmgb211	0.506541	2.36E-06	2.19E-05
83508	Timeless	0.506356	4.14E-04	0.002381
679155	Zbtb7c	0.506356	3.70E-06	3.31E-05
245978	Cklf	0.506126	0.0098194	0.036525
100363228	LOC100363228	0.505923	0.03046509	0.091228
362464	Arntl2	0.505406	0.0260684	0.080649
102550588	LOC102550588	0.505231	0.00384684	0.016598
117284	Lrrc7	0.505194	0.18570244	0.357261
288821	Neurod4	0.505194	0.18570244	0.357261
499204	Ddias	0.505194	0.10505467	0.236945
680671	Glis3	0.505194	0.34938394	0.546127
292077	Sult5a1	0.505066	3.30E-12	6.71E-11
298947	Pik3cg	0.504776	5.38E-08	6.51E-07
282836	Cthrc1	0.504091	8.25E-04	0.004369
361095	Zic5	0.503665	0.01884165	0.062429
292060	Irf8	0.503545	4.66E-08	5.68E-07
108348074	LOC108348074	0.503411	2.25E-92	3.94E-90
305974	Scara5	0.503063	4.26E-35	2.93E-33
108349944	LOC108349944	0.502821	0.37843993	0.575578
297695	Wbp11	0.502801	1.51E-27	7.87E-26
103692302	LOC103692302	0.50272	0.24728451	0.435987
364396	Ar111	0.501683	0.0031873	0.014169
100912609	LOC100912609	0.501434	0.08744614	0.207502
246245	Fmo2	0.501284	2.49E-18	8.22E-17
100911932	LOC100911932	0.500872	4.77E-07	4.99E-06
108348067	LOC108348067	0.500872	4.77E-07	4.99E-06
102551901	LOC102551901	0.5005	0.21446846	0.395063
29569	Pcolce	0.50038	6.23E-47	5.55E-45
24153	A2m	0.500359	7.00E-66	9.07E-64

117517	C7	0.499992	2.74E-34	1.81E-32
65154	Wispl	0.499812	2.07E-06	1.94E-05
29687	Clqb	0.499497	1.73E-20	6.30E-19
155012	Cfh	0.49926	2.94E-33	1.87E-31
64195	Clec10a	0.49853	1.09E-11	2.11E-10
102550729	LOC102550729	0.498475	0.11888632	0.260431
100363178	Tmigd3	0.497621	0.09282412	0.2167
266714	Myo7a	0.496958	0.01049765	0.038589
363974	Nckap5	0.496633	0.11670656	0.256927
100912756	LOC100912756	0.496278	0.36192025	0.55839
690097	LOC690097	0.496269	0.00645428	0.025754
502129	Hist1h2ai	0.495237	0.30095959	0.497852
25267	Pdgfra	0.495148	7.00E-33	4.41E-31
103691841	LOC103691841	0.494284	0.31213316	0.507346
287788	Abca9	0.494128	1.55E-23	6.61E-22
29269	Mcpt8	0.49406	0.01021795	0.037684
29485	Slc7a3	0.49335	0.19354589	0.367286
365245	Saa4	0.493138	0.59415792	0.758631
103690030	LOC103690030	0.493124	0.0013263	0.006602
365977	Dusp1411	0.492886	0.31362163	0.508594
685324	LOC685324	0.492451	0.02918872	0.088266
50654	Ctss	0.49227	7.21E-22	2.84E-20
84403	Gjb6	0.492156	2.75E-05	2.08E-04
685899	Svepl	0.491741	1.92E-07	2.13E-06
298657	Car6	0.490794	0.02161034	0.069645
50563	Gja5	0.490794	0.02161034	0.069645
117264	P2ry6	0.49005	9.81E-04	0.005095
108349506	LOC108349506	0.489232	0.3843288	0.581008
308586	Sec1	0.488832	0.16078798	0.322949
498988	RGD1559962	0.488431	0.1798112	0.348941
100361913	LOC100361913	0.488321	0.00387785	0.016692
103690068	LOC103690068	0.488321	0.00387785	0.016692
24268	Cp	0.488293	1.70E-42	1.37E-40
154985	Cyp26a1	0.48812	0.56062865	0.735799
25100	Foxa3	0.48812	0.41054085	0.607187
25343	Pdc	0.48812	0.41054085	0.607187
295186	Crnn	0.48812	0.56062865	0.735799
295541	Msh4	0.48812	0.56062865	0.735799
298225	Ifne	0.48812	0.56062865	0.735799
301132	Cd70	0.48812	0.56062865	0.735799
304073	Cldn14	0.48812	0.19319478	0.366912
306251	Itih1	0.48812	0.56062865	0.735799
307036	Armc4	0.48812	0.56062865	0.735799
316413	Als2cr12	0.48812	0.15404797	0.312643
361725	Scgb2a2	0.48812	0.56062865	0.735799
362675	Tp73	0.48812	0.56062865	0.735799
64673	Pip	0.48812	0.41054085	0.607187
296947	Fscn3	0.48812	0.24449853	0.432838
246262	Sema3d	0.487294	1.17E-12	2.50E-11
114522	Stag3	0.486565	0.28156936	0.475187
684762	LOC684762	0.485701	0.05985165	0.155742
361096	Zic2	0.485635	1.35E-07	1.54E-06
102553193	LOC102553193	0.484391	0.4571627	0.648444
246208	Ifi47	0.484226	2.86E-09	4.16E-08
108349573	LOC108349573	0.483944	0.6315254	0.788165
300870	Tent5a	0.483635	7.54E-09	1.03E-07

155183	Skap2	0.48357	3.93E-14	9.80E-13
63851	Fgf14	0.482839	1.66E-05	1.30E-04
100360940	LOC100360940	0.482521	0.20141231	0.377104
81686	Mmp2	0.482309	2.84E-68	3.84E-66
100361997	Ect212	0.481643	0.38481301	0.581509
102550330	LOC102550330	0.480437	0.24438287	0.432714
494194	Klra1	0.480277	6.61E-04	0.003595
100909709	LOC100909709	0.479475	0.05518696	0.145997
116593	Upb1	0.479131	0.22126775	0.403451
100912971	LOC100912971	0.478698	0.12407578	0.268892
499847	Prrg4	0.478597	2.18E-12	4.48E-11
301287	Pkhd1	0.478427	0.04163702	0.1167
100364958	LOC100364958	0.478376	0.17293689	0.34
298850	Cenpa	0.478031	0.10330455	0.234358
338457	Tlr9	0.478031	0.10330455	0.234358
685646	Ropn11	0.478031	0.10330455	0.234358
117512	C9	0.477778	0.719155	0.846444
100101439	Vom2r21	0.477473	0.76698649	0.877629
24934	Klrk1	0.477374	0.02580436	0.079975
360546	Efnb3	0.477232	0.01331522	0.046917
58965	Ramp1	0.477012	5.77E-10	9.16E-09
108349832	LOC108349832	0.476625	0.63907424	0.793634
29725	Baat	0.476625	0.28195179	0.47558
498399	Sec1414	0.476181	0.36100303	0.557789
57301	Ccr1	0.474856	0.0026372	0.01201
296621	Phyhd1	0.474751	4.93E-05	3.52E-04
291359	Ly86	0.474243	4.43E-04	0.002521
100361866	LOC100361866	0.473477	0.08679562	0.206731
102547271	LOC102547271	0.473223	0.23522596	0.421596
306081	Pcdh20	0.473144	0.02189544	0.070332
502208	Slc38a8	0.472486	0.1600096	0.321725
100363196	Zfp791	0.472179	0.07024898	0.176062
102554031	LOC102554031	0.472179	0.20051823	0.376429
25674	G1ra1	0.472179	0.36538557	0.561508
494235	Vomlr82	0.472179	0.36538557	0.561508
691485	LOC691485	0.472179	0.36538557	0.561508
309622	RT1-Bb	0.470577	2.92E-16	8.41E-15
25022	Fgfr2	0.470125	3.47E-11	6.33E-10
100912845	LOC100912845	0.469336	0.57402061	0.742224
289076	Rgs18	0.469104	7.32E-05	5.01E-04
100363111	C2cd4d	0.469011	0.02980474	0.089687
108348115	Rps19	0.468844	0.00191113	0.009099
305843	Ang	0.467765	0.21990597	0.401968
102554047	LOC102554047	0.467518	0.01235922	0.04412
100909521	LOC100909521	0.467235	0.00116551	0.005897
100910912	LOC100910912	0.466949	0.01654689	0.056094
309837	Adamts14	0.46664	1.49E-06	1.43E-05
298972	Smarcell	0.466229	0.25579712	0.444616
108350026	LOC108350026	0.466169	0.02502133	0.07812
311934	Ns5atp4	0.46609	7.61E-04	0.00408
291076	Eci3	0.465715	1.25E-09	1.90E-08
102551034	Crocc2	0.465665	0.1325103	0.281737
24773	Sftpa1	0.465665	0.1325103	0.281737
84352	Colla2	0.465503	0	0
399684	Vkorc111	0.465333	4.95E-27	2.52E-25
29209	Casq2	0.465037	9.23E-04	0.004828

361735	Ms4a6a	0.464828	0.00316285	0.014074
100912218	LOC100912218	0.463391	8.95E-05	6.00E-04
116491	Kcnk6	0.462821	3.83E-04	0.002227
108350705	LOC108350705	0.462576	0.04953849	0.134167
100912943	LOC100912943	0.462125	0.48785136	0.675596
113911	Gucy2d	0.462125	0.48785136	0.675596
301229	Trem1	0.462125	0.32655187	0.522269
171164	Gbp2	0.460315	1.18E-23	5.08E-22
64316	Srpx	0.459822	1.31E-15	3.65E-14
309108	Lmntd2	0.459193	0.48921519	0.676672
294054	Cc2d2b	0.458387	0.2565177	0.445543
499588	Gpr160	0.457532	0.00371319	0.016127
315174	Scubel	0.456748	3.95E-26	1.93E-24
364255	Spetex-2C	0.45586	0.28573883	0.479927
113959	C5ar1	0.455486	1.55E-06	1.48E-05
315920	Vsig1	0.455206	0.29287273	0.488613
64545	Icos	0.455206	0.29287273	0.488613
682408	Cdsn	0.45507	5.84E-07	6.04E-06
688822	Tbx10	0.455014	6.42E-04	0.003504
305354	Tlr1	0.454711	0.06048766	0.157075
315259	Prickle1	0.45463	2.39E-16	6.94E-15
501346	LOC501346	0.45407	1.43E-13	3.34E-12
108350017	Mindy4b	0.4538	0.03254455	0.096244
313352	Dmrtal	0.453355	0.06274791	0.161644
499864	RGD1563680	0.4533	0.02747785	0.084202
315759	Igdcc3	0.453183	4.66E-05	3.35E-04
58949	Ptafr	0.453149	5.36E-08	6.50E-07
171099	Rasd2	0.452946	0.00164508	0.007964
362966	Nfam1	0.451856	8.29E-05	5.61E-04
498256	Ier5	0.451842	6.07E-08	7.29E-07
102548397	LOC102548397	0.451512	0.14319373	0.297461
310540	Fam198b	0.45106	1.38E-30	7.97E-29
25119	Mr1	0.450506	8.30E-05	5.61E-04
360757	Medag	0.450468	3.79E-09	5.45E-08
303380	S1fn2	0.450353	1.81E-11	3.42E-10
307805	Cenpt	0.45018	0.15670469	0.316618
25677	Mak	0.450152	0.42908791	0.62403
293052	Isg20	0.450152	0.03642618	0.104937
293676	Ctsw	0.450152	0.26344133	0.453679
29458	Neurod1	0.450152	0.42908791	0.62403
29634	Ldhc	0.450152	0.42908791	0.62403
367345	Clu11	0.450152	0.42908791	0.62403
498286	Slamf1	0.450152	0.42908791	0.62403
499746	Stpg3	0.450152	0.42908791	0.62403
303377	S1fn5	0.449345	1.50E-51	1.49E-49
113937	Clec2d	0.44897	0.18036458	0.349623
690102	Hist2h2ab	0.448789	0.59736924	0.760996
499532	Tmem267	0.447359	0.00103418	0.005326
29260	Tlr4	0.446656	7.70E-06	6.46E-05
83826	Nr5a1	0.4463	0.23755698	0.424655
290655	Cr1f1	0.445765	3.49E-14	8.72E-13
60350	Cd14	0.445075	2.06E-04	0.001276
299016	Npas3	0.444531	0.00997634	0.036972
361954	Veph1	0.444203	0.03440861	0.100416
360717	Gramd1c	0.444103	0.03279238	0.096707
102551086	LOC102551086	0.443266	0.3802719	0.577304

108349261	LOC108349261	0.443266	0.21467054	0.395263
108352163	LOC108352163	0.443266	0.21467054	0.395263
288478	Rsph10b	0.443266	0.3802719	0.577304
691937	Strc	0.443266	0.3802719	0.577304
499229	Gvin1	0.443176	0.01096254	0.039958
287571	Taf15	0.442289	5.23E-11	9.32E-10
499263	Gsg11	0.442115	0.00721834	0.028211
292657	Slc1a5	0.440951	1.29E-04	8.37E-04
685215	LOC685215	0.440502	0.01457023	0.050554
681180	LOC681180	0.440289	0.03312296	0.09753
84032	Col3a1	0.440059	0	0
81658	Gabrp	0.439748	0.33677579	0.533513
685781	Ddr2	0.439475	3.15E-31	1.87E-29
363767	Abi3bp	0.439144	5.68E-48	5.26E-46
291354	Enkur	0.438792	0.17622365	0.344435
292890	Tsks	0.438792	0.33889868	0.535406
307917	Klhdc4	0.438792	0.0324802	0.096083
100910833	LOC100910833	0.437848	0.25135833	0.439548
690930	Ms4a6c	0.437766	0.26469771	0.45502
308797	Cemip	0.437764	9.30E-14	2.22E-12
683415	Prss55	0.43763	0.08920571	0.210289
290350	Loxl2	0.436467	7.77E-07	7.85E-06
690492	Cd33	0.43643	0.01558048	0.053532
24891	Abcb4	0.435989	8.86E-04	0.004657
84348	Ackr3	0.435846	3.18E-11	5.84E-10
309925	Fam81b	0.435671	0.21381376	0.394085
360553	Vmol	0.435653	0.30333033	0.500557
24546	Slco2a1	0.435573	4.44E-06	3.91E-05
103692126	NEWGENE_1587253	0.435542	0.15262397	0.310348
289104	Prg4	0.434174	0.0012199	0.006132
100158223	Zfp786	0.434003	4.76E-04	0.002688
100359478	Tstd1	0.433714	0.00527327	0.02171
685719	Dand5	0.433328	0.27242848	0.464328
689374	Tkt11	0.433328	0.12064271	0.26343
100910940	Evi2b	0.433044	0.00340551	0.014975
108353135	LOC108353135	0.431945	0.57451871	0.742566
114097	Ltc4s	0.431945	0.02190884	0.070363
296872	Eda2r	0.431724	0.24136691	0.429129
64522	Slc5a2	0.430977	0.22267334	0.405199
171163	Slc6a13	0.430897	1.65E-07	1.87E-06
171547	Crispld2	0.430505	3.04E-56	3.32E-54
100910838	LOC100910838	0.43037	0.08003447	0.19452
474348	Sspo	0.430115	0.03421832	0.10006
360626	Krt19	0.429508	0.00216652	0.010128
363265	Col4a3	0.429463	0.00638114	0.02551
108351300	Rt11	0.429103	0.00454892	0.019129
291912	Nod2	0.428457	0.0642363	0.164477
292884	Zfp473	0.427999	0.05884624	0.153819
290604	RGD1564958	0.427492	0.08245875	0.199293
24699	Ptprc	0.427426	2.99E-08	3.76E-07
287527	Serpinf2	0.427191	0.16476551	0.328961
291604	Dcp2	0.427015	0.08706308	0.207161
79128	Dab2	0.426646	8.98E-22	3.51E-20
24387	Gfap	0.426249	6.35E-19	2.16E-17
685433	Evi2a	0.426192	3.40E-05	2.51E-04
300228	Limal	0.425934	1.30E-13	3.05E-12

309729	Rtkn2	0.425513	0.04932853	0.133769
294809	Adamts12	0.425225	4.35E-11	7.80E-10
361060	Ebf2	0.424868	8.58E-14	2.05E-12
299750	RGD1565753	0.42482	0.74959206	0.866208
362792	Pld4	0.424568	8.23E-11	1.43E-09
680422	Fam115c	0.42365	0.00251377	0.011528
303412	Rnf43	0.423558	0.00386349	0.016651
501153	Zdbf2	0.423465	0.0612084	0.158557
100911733	LOC100911733	0.423059	0.62764813	0.784972
288593	Ccl24	0.421897	0.00417167	0.017794
83717	Omd	0.42189	1.01E-07	1.19E-06
116718	Pex12	0.421277	2.52E-07	2.77E-06
366126	Spi1	0.420976	5.16E-05	3.66E-04
500818	Rfx4	0.420919	0.01837917	0.061162
282817	Pycard	0.420613	0.01321225	0.046641
361206	Slc25a48	0.420056	9.75E-05	6.48E-04
100911813	LOC100911813	0.419506	0.11537772	0.25462
108350249	LOC108350249	0.419488	5.26E-04	0.002932
25494	Nid1	0.419143	1.16E-219	#####
102553611	LOC102553611	0.419123	0.15531385	0.314508
24763	Acsm3	0.418887	0.06167663	0.159553
282634	Pxmp4	0.418716	2.70E-13	6.12E-12
291861	Nlrc5	0.418445	7.44E-05	5.09E-04
291654	Pcdhb5	0.418303	0.00405123	0.017327
108348099	NEWGENE_1359268	0.417828	0.0202514	0.066201
100361672	Zc2hc1b	0.417731	0.70315284	0.837207
100911528	LOC100911528	0.417731	0.70315284	0.837207
102551806	LOC102551806	0.417731	0.39416198	0.59139
103691796	LOC103691796	0.417731	0.70315284	0.837207
108352224	LOC108352224	0.417731	0.39416198	0.59139
171161	Csap1	0.417731	0.50923518	0.695599
293609	Olr315	0.417731	0.70315284	0.837207
294241	Ly6g6c	0.417731	0.09670595	0.223001
298567	Cela3b	0.417731	0.70315284	0.837207
299637	Tle6	0.417731	0.58994795	0.755205
303741	Fscn2	0.417731	5.10E-05	3.62E-04
304815	Elf3	0.417731	0.70315284	0.837207
308325	Nlrp5	0.417731	0.70315284	0.837207
310616	Creb3l4	0.417731	0.70315284	0.837207
317051	Hhip12	0.417731	0.58994795	0.755205
362879	Myrf1	0.417731	0.70315284	0.837207
363681	Hspb9	0.417731	0.58994795	0.755205
367901	Btk	0.417731	0.03386311	0.099295
497859	Atf7ip2	0.417731	0.70315284	0.837207
498102	Gmnc	0.417731	0.39416198	0.59139
498152	LOC498152	0.417731	0.70315284	0.837207
498608	Yjefn3	0.417731	0.58994795	0.755205
499573	LOC499573	0.417731	0.70315284	0.837207
500061	Fam71f1	0.417731	0.70315284	0.837207
500906	Cyth4	0.417731	3.98E-07	4.22E-06
60464	Fgf16	0.417731	0.70315284	0.837207
679870	Capns2	0.417731	0.28111272	0.474711
680486	Dazl	0.417731	0.70315284	0.837207
686084	LOC686084	0.417731	0.39416198	0.59139
688328	Znf750	0.417731	0.70315284	0.837207
691446	Tmem190	0.417731	0.2062804	0.383803

81753	Pth2r	0.417731	0.50923518	0.695599
84494	Trpc4	0.417731	0.04769361	0.130188
24418	Grm5	0.417731	0.31335311	0.508353
294430	Calhm6	0.417731	0.31335311	0.508353
680520	LOC680520	0.417443	0.43607938	0.630084
683469	LOC683469	0.416829	0.44703258	0.639505
29279	Meox2	0.416578	1.04E-04	6.89E-04
305494	Aebp1	0.416372	1.77E-57	2.03E-55
367333	LOC367333	0.416036	0.36600971	0.56224
312495	Cyp26b1	0.415117	8.99E-09	1.22E-07
364206	Plek	0.414921	4.62E-04	0.002617
80900	Slco1a5	0.414776	0.58939962	0.754883
100910781	LOC100910781	0.414772	0.21873691	0.400369
304825	Crb1	0.414671	0.01773256	0.059436
25584	F3	0.414531	8.62E-10	1.34E-08
246249	Arhgap4	0.414395	5.65E-06	4.88E-05
364867	Ticam2	0.414324	0.02474619	0.077439
171056	Cx3cr1	0.41372	0.00373128	0.016198
308028	Slc2a12	0.413695	0.00357907	0.015627
100912139	LOC100912139	0.412977	0.59204324	0.757047
306664	Adamts16	0.412713	6.36E-06	5.43E-05
79209	Frk	0.412135	0.00648725	0.025874
287899	Adamts2	0.411952	1.47E-24	6.66E-23
293624	Irf7	0.411363	1.78E-11	3.37E-10
81782	Soat1	0.411192	1.70E-13	3.93E-12
29152	Mstn	0.411158	0.00546195	0.022337
103690106	LOC103690106	0.411069	0.01081132	0.039467
298069	Coll5a1	0.410708	5.06E-46	4.38E-44
289201	Lmx1a	0.410676	0.0019809	0.00938
103693666	Zbed6	0.409923	9.49E-23	3.92E-21
309526	Ifit3	0.409813	0.00318056	0.014149
100910957	LOC100910957	0.409712	7.30E-13	1.58E-11
60589	Epha8	0.409603	0.00405135	0.017323
24947	Gabra3	0.409306	1.00E-17	3.20E-16
58919	Ccnd1	0.408796	2.92E-35	2.02E-33
289237	Slamf8	0.408751	0.02578493	0.07994
25051	Gpllr	0.408537	0.4757578	0.665355
308113	Cnksr3	0.408378	9.16E-08	1.08E-06
114005	Epm2a	0.40795	0.02383116	0.075305
499520	Shisa12b	0.40795	0.19198867	0.36546
108351679	LOC108351679	0.407721	0.33046257	0.526798
681266	LOC681266	0.407375	0.55256933	0.732796
299330	RGD1305298	0.407004	0.17330907	0.340627
100911180	LOC100911180	0.406805	0.01773832	0.059435
84400	Pre1p	0.406538	2.37E-43	1.95E-41
25703	Rbp4	0.406091	6.16E-10	9.73E-09
301155	St6gal2	0.406049	0.00360587	0.015722
317553	Il1rap11	0.406049	0.09285849	0.2167
25300	Cd247	0.405893	0.16266166	0.325614
108351349	LOC108351349	0.405839	0.58085922	0.747919
353252	Rdh10	0.405781	2.30E-05	1.76E-04
690865	Pcdh15	0.40553	0.18890015	0.361605
292138	Eno4	0.405219	0.00259486	0.011851
499415	Icoslg	0.404831	2.10E-21	8.04E-20
294051	Dntt	0.404792	0.26033686	0.449716
501467	LOC501467	0.404448	0.00443933	0.018718

360524	Zcchc10	0.404056	1.53E-04	9.77E-04
365212	Micb	0.403231	0.13414975	0.284223
690547	Adam30	0.402866	0.2888216	0.483697
316062	Slc22a13	0.40263	0.3000334	0.496709
94339	Mmp23	0.402301	1.27E-04	8.23E-04
54301	Slc14a1	0.402297	4.59E-04	0.002603
100911379	LOC100911379	0.401686	0.26401268	0.454212
24508	Irf1	0.401624	7.03E-08	8.39E-07
315388	Tmprss6	0.401243	0.16217991	0.324872
83820	Sycp2	0.401243	0.16217991	0.324872
102552169	LOC102552169	0.40122	0.15937052	0.320745
291813	Cmtm3	0.400901	3.79E-07	4.03E-06
680338	Clec12a	0.400857	0.01680745	0.056765
308954	Pdzd9	0.400688	0.00211908	0.009945
303948	Nepro	0.400325	5.39E-04	0.002993
299190	LOC299190	0.400243	0.63907333	0.793684
102551354	LOC102551354	0.400182	0.0316053	0.094006
64043	Gcnt1	0.399627	1.54E-08	2.03E-07
25211	Lyz2	0.399535	1.83E-188	#####
25404	Cav1	0.399281	5.70E-100	1.12E-97
367056	Ccdc15	0.398994	0.00911359	0.034316
361239	Bph1	0.398622	1.22E-05	9.84E-05
498582	Wdfy4	0.398622	0.00100669	0.005207
293619	Pkp3	0.398363	0.34898862	0.545823
102554913	LOC102554913	0.397756	0.67628994	0.81871
497194	Rnase13	0.397553	0.12520925	0.270517
171112	Wfdc1	0.397198	7.91E-11	1.38E-09
108351645	LOC108351645	0.397077	0.71859976	0.846313
362800	Itgb8	0.396945	2.57E-131	#####
362376	Herc6	0.396585	7.22E-07	7.35E-06
500015	Samd91	0.396547	1.14E-13	2.69E-12
102555289	LOC102555289	0.396534	0.01055737	0.038771
500047	Wnt16	0.396503	7.39E-10	1.16E-08
690826	LOC690826	0.395665	0.01738529	0.058519
64169	Necab1	0.395611	4.01E-35	2.77E-33
25346	Ros1	0.395462	0.32130313	0.516433
100912585	LOC100912585	0.395364	4.25E-06	3.76E-05
100912365	LOC100912365	0.395011	0.40715861	0.60392
287059	RGD1565166	0.395011	0.40715861	0.60392
29585	Gjb3	0.395011	0.40715861	0.60392
315806	Prtg	0.395011	0.40715861	0.60392
499260	Otoa	0.395011	0.40715861	0.60392
548326	Fcmr	0.394688	1.93E-05	1.49E-04
316976	Etfbkmt	0.394312	3.82E-04	0.00222
64513	Pawr	0.394202	0.00701792	0.027569
364688	Sycp21	0.393884	0.10662367	0.239746
171104	Gper1	0.393483	0.05025351	0.135286
500118	Fam221a	0.393483	0.05025351	0.135286
293840	Pnma3	0.393139	0.13516589	0.285329
306247	I117rb	0.39295	7.89E-05	5.37E-04
361752	Pde6c	0.39264	0.11686473	0.257097
63840	Per2	0.3922	5.85E-10	9.27E-09
314626	Adamts15	0.392085	5.07E-09	7.16E-08
100169747	Phykp1	0.392018	0.01173625	0.042237
308108	Zfp541	0.391736	0.18316006	0.353459
25164	Cdkn2b	0.391645	2.57E-09	3.75E-08

305909	Cenpj	0.391062	1.29E-10	2.21E-09
689710	Hegl	0.391043	1.05E-18	3.54E-17
102549694	LOC102549694	0.390686	2.77E-05	2.08E-04
84358	Efna2	0.390353	0.06966677	0.174948
501712	Slfn3	0.390224	0.05424167	0.143957
366124	Agbl2	0.389716	0.29762889	0.494145
498666	Tnfsf13b	0.389716	0.14076494	0.293987
289440	Ephx4	0.389716	0.00132633	0.0066
363018	Cep295	0.389321	5.73E-13	1.26E-11
309499	Myof	0.389205	3.17E-15	8.58E-14
361839	Ctnna3	0.388684	3.01E-08	3.78E-07
246774	Gimap5	0.388515	0.01096268	0.039951
296959	Cpa2	0.388244	0.00745498	0.02894
291549	Oacyl	0.388149	0.00428796	0.018184
85250	Col5a2	0.387495	1.24E-85	2.05E-83
24373	Fst	0.387357	0.03494178	0.101598
361383	Adgre5	0.387273	4.21E-08	5.17E-07
313479	Orc1	0.387001	0.01251512	0.044576
297077	Tmem176a	0.386656	3.14E-200	#####
312688	Usp18	0.38648	3.27E-04	0.001938
295356	Slc16a4	0.386022	0.01030055	0.037974
360604	Spata20	0.386022	0.17026421	0.336064
362572	Artn	0.386022	0.09304281	0.216997
690743	Mkl1	0.385866	3.81E-04	0.002218
309653	Fgd2	0.385583	2.49E-04	0.001518
364674	Tifab	0.38549	0.00660226	0.02624
310392	Slc7a11	0.385488	0.00101565	0.005243
29197	I118	0.385413	0.07279276	0.181173
499566	Car13	0.385189	3.23E-08	4.04E-07
296257	Cst7	0.385163	0.13117116	0.279561
406161	C4b	0.385108	6.04E-09	8.40E-08
297891	Tssk3	0.38498	0.21471656	0.395214
100361180	LOC100361180	0.384784	0.389075	0.586183
307401	Pde6a	0.384564	0.24733604	0.435997
245960	Alg10	0.384508	7.48E-07	7.59E-06
314349	Ston2	0.384417	1.34E-04	8.64E-04
100363116	LOC100363116	0.383863	0.02787316	0.085085
65030	Ephx2	0.383401	0.00433182	0.018325
687615	Morn3	0.383297	0.14403616	0.298398
171360	Vsx2	0.382777	0.20385103	0.380473
84012	Slc1a6	0.382724	0.08692951	0.206921
54264	Mafb	0.381865	2.49E-04	0.001514
103694857	LOC103694857	0.381235	0.00318638	0.014169
100362748	Cfap74	0.381205	0.5281112	0.711156
108351075	LOC108351075	0.381205	0.5281112	0.711156
497083	Xkr5	0.381205	0.27450928	0.466601
498365	Tmem156	0.381205	0.5281112	0.711156
500673	Six6os1	0.381205	0.5281112	0.711156
681249	Fam72a	0.381205	0.5281112	0.711156
691215	LOC691215	0.381205	0.27450928	0.466601
291936	Hhip	0.381205	0.20702647	0.384665
361419	Dnaaf1	0.381205	0.37227718	0.568657
685004	Itga9	0.380835	1.34E-08	1.78E-07
102546678	LOC102546678	0.380773	4.59E-23	1.92E-21
291069	Ppp1r3g	0.379929	0.06370694	0.163561
363656	Bhlha9	0.379257	0.00946826	0.035434

314997	Fer116	0.379033	0.05311857	0.141409
102547060	LOC102547060	0.378202	0.22883682	0.413393
102554658	LOC102554658	0.378202	0.22883682	0.413393
498547	Epstil	0.377733	0.02540126	0.079034
311642	Sulf2	0.377326	3.16E-40	2.44E-38
310810	Frrs1	0.377301	0.00208207	0.009786
79557	Chrna1	0.377285	0.00666066	0.026428
102556148	LOC102556148	0.377114	0.03304914	0.097358
25582	Agrp	0.377089	0.30548745	0.502505
688019	Thap2	0.376977	8.87E-08	1.05E-06
100912596	LOC100912596	0.376463	0.33103644	0.527272
100911365	LOC100911365	0.376336	3.62E-08	4.48E-07
102553140	LOC102553140	0.376097	0.16138729	0.323573
500995	RGD1564937	0.37542	0.56375028	0.734932
171064	Igsf6	0.37517	0.02589732	0.080197
305309	Slc10a4	0.374662	0.10628981	0.239221
307616	Cmt2a	0.374662	0.41935089	0.614798
316254	Tdrd6	0.374662	0.41935089	0.614798
102550127	LOC102550127	0.374347	0.03001526	0.090178
302396	Nexmif	0.374338	0.0043498	0.018389
310843	Sec24d	0.374053	2.56E-13	5.82E-12
313993	Grhl1	0.373787	0.01671968	0.056559
100909548	LOC100909548	0.373593	2.77E-42	2.21E-40
361537	Tyrobp	0.373062	6.76E-06	5.72E-05
305427	Otop1	0.372877	0.01814625	0.060567
300067	Sh3bp1	0.372847	0.00194002	0.009214
100911428	LOC100911428	0.372837	0.26505098	0.455504
414783	RT1-CE4	0.372767	9.22E-09	1.25E-07
500638	Fam110c	0.372661	0.22970323	0.414467
291847	Ccdc113	0.371927	0.34106942	0.537988
301271	Ptchd4	0.371927	0.09914617	0.227061
314126	Baz1a	0.37113	8.81E-05	5.92E-04
307988	Vwa2	0.371081	0.15050403	0.307169
499429	Tbata	0.371081	0.01276482	0.045322
499656	RGD1564171	0.371081	0.15050403	0.307169
286985	Vom2r31	0.370835	0.30409906	0.501131
114243	Nox1	0.370774	0.30651476	0.502503
287776	Cep112	0.370325	0.00385156	0.016614
246247	Fmo4	0.370238	0.00721451	0.028202
102551484	LOC102551484	0.370131	0.35027873	0.546987
362049	Unc5c	0.370099	2.26E-06	2.11E-05
116597	Opcml	0.370051	1.38E-21	5.34E-20
685275	LOC685275	0.370023	0.36992597	0.566247
365194	Cabp5	0.370013	0.48355358	0.672063
100910717	LOC100910717	0.370004	1.73E-04	0.001092
303953	Abhd10	0.369898	0.00302688	0.013558
103689991	Ect2l	0.369495	0.44723825	0.639559
29373	Bmp2	0.369121	0.0790398	0.192692
100362909	Tex52	0.368856	0.60699896	0.76925
499537	Fyb1	0.36848	7.32E-04	0.003937
24410	Grin2b	0.367964	3.42E-08	4.26E-07
266761	Cyp4v3	0.367724	1.29E-07	1.48E-06
100911319	LOC100911319	0.367155	9.08E-33	5.69E-31
498368	LOC498368	0.366907	1.55E-04	9.88E-04
100360518	Hsh2d	0.366713	0.13550562	0.285761
299639	Ankrd24	0.366311	5.26E-04	0.002933

102555341	LOC102555341	0.365944	0.0345928	0.100829
298693	Isg15	0.365791	8.72E-04	0.00459
313063	Rad54b	0.365442	0.1300501	0.277762
288905	I127ra	0.365339	0.38031172	0.577272
117274	Nr0b2	0.365263	0.61399924	0.774412
25378	Amh	0.365263	0.61399924	0.774412
282839	Mc2r	0.365263	0.61399924	0.774412
298602	Srarp	0.365263	0.47566554	0.665275
365868	Hormad1	0.365263	0.25939902	0.448747
685839	Dnajb7	0.365263	0.61399924	0.774412
685936	Pfn3	0.365263	0.61399924	0.774412
681408	Prr19	0.365263	0.3823362	0.579145
308995	Itgal	0.364699	0.00133956	0.006661
305101	RGD1304622	0.364454	1.42E-04	9.13E-04
361430	Piezol	0.364314	5.27E-11	9.38E-10
171299	Foxd1	0.364029	5.89E-04	0.003239
100360238	LOC100360238	0.363985	0.34143329	0.538161
102556346	LOC102556346	0.363691	0.00672106	0.026606
100911881	LOC100911881	0.363676	5.49E-06	4.75E-05
363551	Zg16b	0.36366	0.6156543	0.775421
289247	Olr1584	0.363623	0.32091912	0.516034
60587	Dusp4	0.363575	0.00892755	0.033702
302931	Eef2kmt	0.363342	0.01725679	0.058128
102547811	LOC102547811	0.363306	0.00141382	0.006996
366988	Bin2	0.363096	0.0047653	0.019902
171369	Cd40	0.363058	0.06651286	0.168808
502316	Zfp566	0.362793	0.00154375	0.007535
292071	Cdt1	0.362737	0.03296117	0.097129
360997	Abcg314	0.362546	4.12E-10	6.64E-09
361319	Spink5	0.362214	0.30072074	0.497587
100362023	LOC100362023	0.362069	0.44187854	0.63485
292843	Siglec5	0.3619	0.00225031	0.010453
308906	Trim5	0.361348	3.20E-08	4.00E-07
80338	Zbtb10	0.361271	4.16E-04	0.002389
499975	Fam126a	0.361147	8.78E-04	0.004619
100361272	Ankub1	0.361147	0.23949058	0.426949
363130	Astel	0.360951	8.12E-04	0.004306
293677	Efemp2	0.360823	1.55E-10	2.63E-09
100912199	LOC100912199	0.360741	0.47837551	0.667643
498330	Aff1-as1	0.360741	0.72299503	0.848499
288369	Pex11g	0.360245	0.1328849	0.282297
287745	Plcd3	0.360148	4.51E-07	4.74E-06
499022	Qk	0.359828	2.92E-14	7.34E-13
102551435	LOC102551435	0.359561	0.08329596	0.200654
307810	Esrp2	0.359463	0.61503523	0.775154
192228	Haus1	0.359251	0.00416376	0.017772
679937	Dram1	0.359149	0.00145667	0.007183
29455	Gdf15	0.358984	0.51192659	0.697749
25683	Col12a1	0.358931	6.64E-35	4.51E-33
501116	LOC501116	0.358843	1.00E-34	6.73E-33
690246	LOC690246	0.358837	0.85160362	0.926629
108348131	NEWGENE_620180	0.358364	2.11E-05	1.63E-04
83578	Pdxk	0.357537	0.00429164	0.018196
313834	Prkd3	0.357494	1.89E-14	4.83E-13
500571	Kif17	0.357358	0.14575493	0.300715
500564	Ldlrap1	0.357288	0.00257694	0.011778

311821	Agpat2	0.357226	0.02760012	0.084509
103692025	LOC103692025	0.357211	0.01376265	0.048173
100362342	LOC100362342	0.356802	0.03199792	0.094907
171108	P2ry14	0.356772	0.00172825	0.008329
305450	Sh3bp2	0.356701	6.32E-04	0.003455
299313	Uxt	0.356626	1.42E-09	2.14E-08
266610	Fadd	0.35633	0.11511999	0.254242
29482	Slc1a2	0.35633	0.43081639	0.625087
296344	Mybl2	0.35633	0.11511999	0.254242
316019	Ccrl2	0.35633	0.17240961	0.339279
295669	Cybrd1	0.356302	9.96E-10	1.54E-08
100912689	LOC100912689	0.355901	0.58309176	0.749729
502901	Clec9a	0.355872	0.02997461	0.090085
171577	Epcam	0.355617	0.31828371	0.513183
679730	LOC679730	0.355297	4.35E-04	0.002482
353316	Gsdme	0.354947	3.61E-05	2.65E-04
113984	Nr2f2	0.354816	5.00E-47	4.49E-45
500561	Themis2	0.354768	0.06505462	0.166037
246248	Fmo5	0.354537	0.05841852	0.15289
288364	Qtrt2	0.354292	0.00119955	0.00605
306548	Hook3	0.354231	6.41E-06	5.46E-05
102552895	LOC102552895	0.354202	3.20E-09	4.63E-08
103690896	LOC103690896	0.354166	0.32046723	0.515634
78964	Npffr2	0.354166	0.32046723	0.515634
300696	Ttc12	0.35389	0.00192861	0.009169
367195	LOC367195	0.353538	0.34702227	0.54373
361084	Lmo7	0.353392	6.31E-11	1.11E-09
690286	Hlf	0.353219	3.57E-04	0.002093
306950	Slc17a2	0.353191	0.24466911	0.432979
103690168	LOC103690168	0.35299	0.53694909	0.719192
365851	RGD1564513	0.352859	0.65342793	0.802407
296156	Cpxml	0.352636	9.24E-07	9.23E-06
679640	Cntln	0.352028	3.42E-05	2.52E-04
79242	Hpgd	0.351852	0.47782652	0.667219
362508	Spag8	0.351843	0.09313344	0.217156
500696	RGD1563496	0.351285	0.23814124	0.42518
288937	Serpnb8	0.350941	0.0796787	0.193878
691932	Tgm711	0.350617	0.54493096	0.725952
296078	Pak6	0.350617	0.00553421	0.022545
362402	Fgd5	0.350501	4.80E-08	5.84E-07
108350822	LOC108350822	0.350489	0.20422221	0.380904
498011	Mrc2	0.350359	1.21E-10	2.09E-09
314785	Tmtc3	0.350336	5.61E-15	1.48E-13
363093	Mns1	0.349712	0.00598573	0.024076
293746	Ms4a4c	0.349188	0.32294332	0.518151
24210	Asgr1	0.349144	0.12842876	0.275318
290646	Pde4c	0.348986	1.92E-07	2.13E-06
102549509	LOC102549509	0.348818	0.3512289	0.547932
361749	I133	0.34867	2.63E-46	2.30E-44
117242	Tenm2	0.348301	7.10E-15	1.86E-13
500896	Wdr97	0.347829	0.27093658	0.462613
108348118	LOC108348118	0.347726	4.91E-41	3.86E-39
289881	Dr1	0.347095	4.44E-10	7.14E-09
252917	Nr1d1	0.346867	2.85E-27	1.47E-25
103689941	LOC103689941	0.346688	4.00E-06	3.56E-05
293449	Vwa3a	0.346648	0.19345473	0.367223

291130	Dcdc2	0.346226	0.00131919	0.006572
100362083	Zfp866	0.346141	0.00802221	0.030859
100125363	Fbxl13	0.346042	0.36553915	0.561608
29665	P2rx7	0.345923	2.16E-15	5.92E-14
299818	Llph	0.345752	0.00740287	0.028791
117267	Slc26a2	0.345358	9.29E-07	9.27E-06
296409	Cass4	0.34525	0.06401769	0.164138
310257	Samd7	0.344697	0.47752346	0.666894
363096	Dnaaf4	0.344613	0.09651846	0.222676
364405	Scara3	0.344496	2.37E-18	7.82E-17
108349054	LOC108349054	0.344371	0.63299656	0.789174
500624	Mfsd2b	0.34403	0.27043972	0.46193
24689	Prps2	0.343895	1.49E-18	4.99E-17
24837	Tnnt2	0.34373	0.06703728	0.169777
155268	Cldn16	0.34373	0.32761124	0.523216
315564	Robo3	0.34373	0.16622808	0.329635
362076	I136b	0.34373	0.32761124	0.523216
502201	Lrrc29	0.34373	0.32761124	0.523216
83517	Fcna	0.343349	0.0117918	0.042421
29473	Aoc3	0.343228	9.93E-14	2.37E-12
305139	Gbp6	0.343196	0.01454525	0.050486
25693	Slc18a1	0.342969	0.10465076	0.236314
100359714	Phf6	0.342927	6.63E-16	1.87E-14
316400	Pgap1	0.342889	7.07E-04	0.003816
64086	Csnk1g1	0.342769	0.00608172	0.0244
29348	Fgf7	0.342665	6.45E-11	1.13E-09
363205	RGD1562107	0.34218	0.21308678	0.39324
287818	Cd3001f	0.341762	0.1055722	0.237887
315658	Zc3h12c	0.341445	4.73E-06	4.14E-05
100909950	LOC100909950	0.341148	0.644556	0.797944
84588	Cldn11	0.340731	1.29E-10	2.21E-09
103691072	LOC103691072	0.340231	0.43946808	0.632772
298532	Tekt2	0.339728	0.44162288	0.634842
301086	Xcr1	0.339728	0.44162288	0.634842
444986	I122ra2	0.339728	0.27651797	0.46899
502380	Pfpl	0.339534	0.30312927	0.500398
140898	Arhgef5	0.339174	0.00943457	0.035329
361226	Cd83	0.338852	4.01E-06	3.57E-05
360635	Etv4	0.33885	9.62E-06	7.93E-05
367218	Runx2	0.338691	0.00120531	0.00607
288054	Ccdc14	0.338579	7.97E-04	0.004247
24968	Psmb8	0.338545	4.94E-05	3.52E-04
501736	Cd300a	0.337831	0.12581343	0.271177
29501	Slc12a4	0.337717	8.13E-24	3.54E-22
103694906	LOC103694906	0.337697	0.5174071	0.702303
295425	Usp53	0.337672	2.19E-18	7.25E-17
102554161	LOC102554161	0.337669	0.03902674	0.110968
116740	B3gnt5	0.337391	1.23E-06	1.21E-05
305491	Ankrd36	0.337112	0.40108461	0.598172
103694879	LOC103694879	0.337055	0.02903573	0.087901
680990	Gdpd4	0.336927	5.01E-05	3.56E-04
108350654	LOC108350654	0.336882	0.00672328	0.026604
498084	LOC498084	0.336544	0.16815057	0.332651
363984	Ikbke	0.336471	5.78E-04	0.003184
501740	RGD1562156	0.336344	0.59886947	0.762296
79425	C1cnka	0.336173	0.54219401	0.723571

25668	Cd38	0.336118	6.31E-04	0.003452
24930	Cd8a	0.336117	0.39251481	0.589825
100361923	Ikzf4	0.335971	0.1342348	0.284277
108350921	LOC108350921	0.335828	0.09612389	0.222197
680434	Dqx1	0.335747	8.99E-04	0.004718
108348140	LOC108348140	0.335745	0.15144972	0.308587
108349748	LOC108349748	0.335468	0.21285914	0.392896
103690070	LOC103690070	0.335391	0.646411	0.799513
66023	Gfra4	0.335269	0.07044713	0.176465
309478	Zfp518a	0.335013	7.40E-06	6.23E-05
29504	Slc22a3	0.334315	0.10157549	0.231372
308787	Adamts13	0.333934	1.94E-08	2.50E-07
303903	Parp14	0.333752	1.62E-11	3.08E-10
56826	Adap2	0.333661	0.00121918	0.00613
294981	Spry1	0.333197	8.94E-04	0.004696
83783	Sult1a1	0.332935	1.08E-17	3.43E-16
100361830	Tram2	0.332614	0.03832226	0.109291
360733	Rtp4	0.3326	4.76E-04	0.002688
307376	Onecut2	0.332577	6.42E-13	1.40E-11
500442	Dnail	0.332399	0.13784066	0.289499
100912108	Nupr1	0.332396	6.39E-09	8.85E-08
84481	Arid4b	0.332242	1.05E-13	2.51E-12
140860	Slco2b1	0.332086	7.07E-13	1.54E-11
311984	Gsap	0.332064	2.06E-04	0.001276
298189	Bnc2	0.331945	1.40E-16	4.11E-15
685325	Ddo	0.331778	0.45901189	0.650292
500089	Tas2r137	0.331642	0.0275434	0.084376
103689946	LOC103689946	0.331525	0.43685522	0.631061
361673	Ifitm3	0.331504	2.36E-21	9.00E-20
64519	Entpd1	0.331435	7.52E-07	7.62E-06
108351043	LOC108351043	0.331255	0.72030574	0.846908
85419	Lyst	0.33085	1.24E-18	4.16E-17
366078	Sp9	0.330381	0.80848384	0.90266
305897	Nfatc4	0.330343	0.00290051	0.013053
361641	Ears2	0.329877	0.01417044	0.049383
497892	Sgcd	0.329701	0.00101719	0.005249
299933	Dscc1	0.329504	0.18925713	0.362033
312257	Dennd2a	0.329473	9.40E-14	2.25E-12
499843	LOC499843	0.329456	0.32796421	0.523648
100912042	LOC100912042	0.329312	0.00353229	0.015454
100911034	LOC100911034	0.329198	2.23E-19	7.74E-18
314870	Irak3	0.329133	3.32E-07	3.57E-06
103691893	LOC103691893	0.329039	0.55873287	0.737785
295649	Figf	0.328828	6.55E-05	4.54E-04
308990	LOC308990	0.328716	0.08616326	0.205456
296129	Ast1	0.32868	0.1509165	0.307813
685046	Erich4	0.32868	0.1509165	0.307813
296953	Irf5	0.32859	0.00116739	0.005905
298884	Gen1	0.328542	0.05332929	0.141871
25156	Vav1	0.328094	0.02837542	0.086286
287569	Slfn14	0.327991	0.33224257	0.528353
499240	LOC499240	0.327709	0.10953636	0.244534
117271	Hrk	0.327533	0.0168616	0.056918
362339	Creb3l2	0.326398	8.74E-13	1.89E-11
313866	Plekhh2	0.326153	5.85E-05	4.10E-04
501872	Cd84	0.325802	4.82E-06	4.21E-05

79212	Slc6a1	0.325412	5.18E-06	4.51E-05
29694	Gabrr1	0.325327	0.11824529	0.259475
54297	Rgs8	0.324885	0.00532124	0.021893
100365935	Cep851	0.324863	1.38E-06	1.33E-05
102546892	Prrtlb	0.324621	0.63418891	0.789988
103691253	LOC103691253	0.324621	0.16535075	0.329094
103694522	LOC103694522	0.324621	0.73651711	0.857682
171398	Ust5r	0.324621	0.73651711	0.857682
24207	Apoc3	0.324621	0.40983851	0.60636
24409	Grin2a	0.324621	0.37335107	0.569909
24777	Slc10a1	0.324621	0.40983851	0.60636
25298	Cck	0.324621	0.37335107	0.569909
288751	Lrrc43	0.324621	0.63418891	0.789988
290359	Npm2	0.324621	0.63418891	0.789988
295277	Hist2h4	0.324621	0.73651711	0.857682
295475	Neurog2	0.324621	0.63418891	0.789988
303572	Meioc	0.324621	0.56004027	0.735635
365363	Ern2	0.324621	0.50098651	0.687512
365542	RT1-D0b	0.324621	0.22506972	0.408389
366261	Spo11	0.324621	0.73651711	0.857682
367080	Ankk1	0.324621	0.56004027	0.735635
499589	Lrrc34	0.324621	0.63418891	0.789988
499658	Pglyrp3	0.324621	0.73651711	0.857682
499715	LOC499715	0.324621	0.73651711	0.857682
60325	Serpib2	0.324621	0.73651711	0.857682
64827	Crisp3	0.324621	0.73651711	0.857682
664630	Slc6a19	0.324621	0.73651711	0.857682
681112	Il20	0.324621	0.73651711	0.857682
686008	Tnfrsf22	0.324621	0.63418891	0.789988
688730	Gpr84	0.324621	0.56004027	0.735635
691311	LOC691311	0.324621	0.73651711	0.857682
81779	Sctr	0.324621	0.63418891	0.789988
89776	Slc22a7	0.324621	0.73651711	0.857682
102550256	LOC102550256	0.324621	0.4518298	0.643685
307919	Snai3	0.324621	0.4518298	0.643685
100911302	LOC100911302	0.324064	0.11507935	0.254197
314618	Arhgap45	0.323826	6.15E-06	5.25E-05
245920	Cxcl10	0.323443	0.00871082	0.032995
100910483	LOC100910483	0.323353	0.19744498	0.372163
689421	Sntb2	0.323315	0.01276124	0.045318
501026	Sh3bgrl2	0.323196	0.07994584	0.194404
29432	Pak2	0.322779	2.79E-06	2.56E-05
81773	Rps10	0.322746	1.59E-27	8.23E-26
102556297	LOC102556297	0.322352	0.12035091	0.263035
689153	Chn3	0.322267	0.44587704	0.638428
499933	Dsn1	0.322237	0.024439	0.076692
108348169	LOC108348169	0.321877	0.0520424	0.139011
299783	Glipr1	0.321817	0.01672929	0.056561
302977	Rnf151	0.321644	0.10082357	0.22999
25720	Tcf12	0.321288	7.29E-17	2.21E-15
498741	Mboat1	0.321098	1.70E-09	2.55E-08
365299	Bnc1	0.321078	0.09998947	0.228635
298159	Dcaf1212	0.321019	0.73917715	0.859624
405098	Olr1236	0.321019	0.73917715	0.859624
116466	Wnt2b	0.320647	3.09E-05	2.31E-04
83470	Bmp1	0.320356	3.05E-21	1.16E-19

89788	Gna15	0.31955	0.07728813	0.189319
497904	Meikin	0.31955	0.74101596	0.859898
83469	Lrp4	0.319429	1.43E-10	2.45E-09
103692111	LOC103692111	0.319065	0.3481012	0.544972
100360487	Fam131a	0.318862	4.15E-05	3.01E-04
316415	Fam126b	0.318738	9.28E-10	1.44E-08
113955	Gpnmb	0.318425	3.45E-08	4.29E-07
289235	Slamf9	0.318308	0.01264515	0.044981
102552659	LOC102552659	0.31783	0.00800856	0.030819
117539	I110ra	0.317664	0.00503197	0.020833
100366216	LOC100366216	0.317421	0.02063675	0.067196
499973	Atg9b	0.317416	0.58175915	0.748521
297176	Mad211	0.317161	0.00216439	0.01012
25118	Itgal	0.316802	0.00161138	0.007827
257649	Cenpf	0.316802	0.08409133	0.202212
498583	Frmpd2	0.316802	0.31860492	0.51344
100360475	Galnt15	0.316557	0.09135682	0.214114
296468	Birc7	0.316354	0.54016325	0.722025
682431	Iqcc	0.316276	0.01247709	0.044466
362598	Sh3d21	0.316193	0.0967864	0.223159
291015	Ogn	0.315743	1.92E-45	1.63E-43
79129	Cyba	0.31559	2.27E-05	1.74E-04
297073	Rarres2	0.315051	2.00E-16	5.82E-15
102553986	LOC102553986	0.3148	0.0189663	0.062765
289747	Osm	0.314637	0.3807099	0.577762
301082	Cdcp1	0.314637	0.3807099	0.577762
688297	Pde6g	0.314637	0.3807099	0.577762
84024	Pon1	0.314637	0.3807099	0.577762
315309	Tfcp2	0.314551	1.63E-08	2.14E-07
500527	Lurap1	0.314052	9.89E-04	0.005127
100359680	Lpcat2	0.313915	1.33E-07	1.53E-06
500386	RGD1564405	0.313304	0.23703876	0.424007
24309	Dbp	0.313232	4.61E-15	1.22E-13
362415	Tt113	0.313187	0.00473767	0.019804
102553858	LOC102553858	0.313033	0.41821693	0.61401
680609	Ebi3	0.313026	0.07685552	0.188599
103690914	LOC103690914	0.312806	0.19052861	0.36348
316711	Gtf2a11	0.312549	0.11325365	0.251242
287451	Slc16a13	0.312431	5.90E-05	4.13E-04
29520	Padi3	0.312378	0.17344622	0.34065
100912479	LOC100912479	0.312285	0.5995507	0.762857
679572	Romo1	0.312215	5.00E-06	4.36E-05
25570	Trhr	0.312021	0.27380481	0.465882
499885	Itpripl1	0.311948	0.0028123	0.012713
291649	Pcdhb10	0.311851	0.03360586	0.098602
313625	Myom3	0.311738	0.01882067	0.06237
25464	Icam1	0.311508	4.54E-05	3.27E-04
102550664	LOC102550664	0.311408	0.28024083	0.473617
498176	Bri3bp	0.311325	0.09284058	0.216711
100911403	Ms4a4e	0.311246	0.02566535	0.07966
311071	Zeb2	0.311104	1.73E-46	1.52E-44
361122	Ankle1	0.310951	0.11875106	0.260195
100359517	LOC100359517	0.310816	0.88291161	0.946474
362801	Garem2	0.310816	0.46148952	0.652371
363782	Cfap44	0.310816	0.46148952	0.652371
685067	LOC685067	0.310781	1.33E-06	1.29E-05

306204	Flnb	0.310531	1.69E-30	9.72E-29
171498	Sgk3	0.310266	0.00523844	0.02159
361051	Phf11	0.310085	0.02144677	0.0693
315191	Fbln1	0.309756	5.47E-11	9.72E-10
103690317	LOC103690317	0.309452	7.02E-05	4.83E-04
360539	Slc47a1	0.309259	0.00418459	0.017829
308346	Tmem150b	0.30909	0.17890707	0.347611
499935	Tti1	0.309061	3.85E-11	6.98E-10
306264	Ankrd28	0.308964	5.48E-23	2.28E-21
682865	Rab42	0.308596	0.07076419	0.177143
100365450	LOC100365450	0.307548	0.51232291	0.697989
25525	Pspn	0.307548	0.35411962	0.55102
499265	RGD1563217	0.307548	0.35411962	0.55102
293947	Arhgap18	0.307525	3.33E-04	0.001964
361617	Arap1	0.307105	1.06E-20	3.90E-19
266715	Fzd3	0.307104	6.31E-04	0.003452
100910478	LOC100910478	0.306902	0.12711023	0.27326
317237	Uprrt	0.306848	5.98E-05	4.18E-04
295619	Ermm	0.306847	0.11655343	0.256694
300236	Smagp	0.306847	0.11655343	0.256694
297758	Terf1	0.306748	1.02E-04	6.77E-04
85311	Plala	0.306474	0.02824241	0.08595
24298	Cyp21a1	0.306432	0.00101415	0.005237
103690031	LOC103690031	0.306276	5.24E-05	3.71E-04
361914	LOC361914	0.306219	0.17820228	0.346985
289712	Evc	0.305936	4.73E-05	3.39E-04
308068	Nkd2	0.305762	1.17E-05	9.50E-05
308232	Zfp51	0.305705	0.05560322	0.146834
686611	Sinhcaf	0.305408	0.01144054	0.041384
24783	Slc9a2	0.305293	0.10286029	0.233545
361105	Plac9	0.305256	0.00418066	0.017824
366733	Diras3	0.305256	0.38781518	0.584979
286963	Cyp2d5	0.305175	0.62600172	0.783685
680177	Prr22	0.305054	0.0286057	0.086903
367714	Rp2	0.304966	7.20E-04	0.003882
100911109	LOC100911109	0.304932	0.30712528	0.502898
363577	Itk	0.304722	0.17874178	0.347538
361135	1-Mar	0.304585	0.02814769	0.08573
78962	Per3	0.304542	9.70E-11	1.68E-09
100912009	LOC100912009	0.304512	0.01244521	0.044369
102553010	LOC102553010	0.304411	2.54E-95	4.56E-93
100364132	Zfp300	0.304349	0.07423372	0.183799
100360287	Zfp952	0.304077	0.00207732	0.009766
689853	Clec2e	0.303878	0.15507502	0.314092
500666	Dact1	0.303123	9.49E-05	6.33E-04
57022	Adam4	0.302975	0.21639055	0.397642
297590	Vom2r52	0.302786	0.11824898	0.259453
360692	RGD1563888	0.302726	5.63E-04	0.003113
499801	Ifih1	0.302254	4.97E-05	3.54E-04
83585	Gda	0.302254	3.02E-16	8.70E-15
192208	Slc38a5	0.302254	0.26050612	0.449967
501861	Axdnd1	0.302254	0.42624518	0.621295
102548694	LOC102548694	0.302254	0.13662055	0.287539
108350448	LOC108350448	0.302254	0.57370888	0.74235
25704	I12ra	0.302254	0.57370888	0.74235
314416	Ak7	0.302254	0.57370888	0.74235

501046	Bfsp2	0.302254	0.57370888	0.74235
58813	Nt5e	0.302217	3.09E-06	2.81E-05
363292	Ing5	0.301838	0.00117054	0.005918
307212	Cndp1	0.301466	5.91E-07	6.11E-06
310833	Arhgap29	0.30119	1.24E-09	1.89E-08
361746	Rfx3	0.300646	6.24E-05	4.34E-04
311170	Slc43a3	0.30051	5.10E-11	9.11E-10
29731	Kcna3	0.300237	0.03817433	0.108967
100362547	Aplg2	0.300187	3.91E-04	0.002265
257646	Frmd6	0.299894	1.75E-18	5.84E-17
311764	Zfp217	0.299865	3.72E-04	0.002173
25166	Casp1	0.299854	0.03387164	0.099305
24649	Pim1	0.299675	0.02503284	0.07813
689232	Nxn12	0.299675	0.11306834	0.25089
497979	Tmem100	0.299512	9.26E-06	7.65E-05
498226	Pm20d1	0.299468	0.04920979	0.133542
287719	Ifi35	0.299332	1.83E-04	0.001144
311910	Zbtb26	0.299331	3.25E-04	0.001928
100910265	Cdr1	0.299286	4.46E-04	0.002537
117955	Slc4a7	0.299227	1.11E-06	1.10E-05
103693664	LOC103693664	0.299048	0.47536662	0.665639
103690154	LOC103690154	0.299042	2.57E-06	2.38E-05
408240	Mcpt812	0.298961	0.08290987	0.199977
108352965	LOC108352965	0.2989	0.00102292	0.005275
312474	Gcfc2	0.298626	0.00111022	0.005655
305142	Abcg313	0.298443	5.78E-11	1.02E-09
286972	Ptar1	0.298432	0.0342917	0.100151
100361818	Nfatc1	0.298427	1.64E-08	2.14E-07
414788	RT1-T24-3	0.298394	6.43E-06	5.47E-05
24230	Tspo	0.298149	0.00125394	0.006285
25651	Selp	0.298149	0.14906279	0.30493
290755	Ccdc110	0.298149	0.60996449	0.771622
315882	Zic4	0.298149	0.47064835	0.661122
103690160	LOC103690160	0.297545	1.66E-04	0.001051
685116	Gbp3	0.2975	0.1167337	0.256957
100363368	Poteh	0.297409	0.1450607	0.299803
689069	Parvg	0.297141	0.02564674	0.079616
309368	Lama2	0.296943	5.23E-58	6.08E-56
108349516	LOC108349516	0.296808	0.1241819	0.268969
306970	Hist1h2an	0.29679	0.38477058	0.581491
302705	Mbtps2	0.296692	2.26E-06	2.11E-05
690507	LOC690507	0.29646	0.61600322	0.77545
310839	Fnbp11	0.296425	0.00475789	0.01988
100910033	LOC100910033	0.296308	0.38352689	0.58021
361448	Ginml	0.295869	1.47E-09	2.22E-08
83575	Cpz	0.295475	5.12E-04	0.002866
79429	Pdgfc	0.295247	0.08379989	0.201588
315263	Adamts20	0.295231	3.85E-12	7.82E-11
361747	Spata61	0.2952	0.06325575	0.162732
103690110	Zfp78	0.295048	0.0739235	0.183245
294410	Man1a1	0.294773	9.52E-09	1.29E-07
305584	Rel	0.29472	0.05771688	0.151428
102552482	LOC102552482	0.294291	0.00705856	0.027706
24553	Met	0.294105	0.00492257	0.020447
102553620	LOC102553620	0.294051	0.41976365	0.615285
25273	Smo	0.294033	2.95E-07	3.20E-06

100910879	LOC100910879	0.293614	0.69981503	0.8354
100365872	Eif4ebp3	0.293595	0.01104031	0.040188
303742	Faap100	0.293454	1.52E-04	9.71E-04
314196	L2hgdh	0.293107	0.0448437	0.124153
108348165	NEWGENE_2813	0.293059	0.0327056	0.09654
689174	Zbtb34	0.292849	0.0319371	0.094757
102555942	LOC102555942	0.29281	0.14678672	0.302124
690538	Scai	0.292773	0.00124102	0.006228
108349109	LOC108349109	0.292672	0.22783273	0.412185
83722	Plk2	0.292659	1.54E-11	2.93E-10
303538	Dhx58	0.2926	0.00631202	0.02526
688637	LOC688637	0.292285	3.28E-09	4.74E-08
24612	Omp	0.2922	0.36625899	0.562396
292684	Rsph6a	0.2922	0.52290554	0.707171
296472	Srms	0.2922	0.52290554	0.707171
317324	MGC114492	0.2922	0.65144808	0.803031
366206	Otor	0.2922	0.65144808	0.803031
498691	Cts113	0.2922	0.65144808	0.803031
29363	Cxcr5	0.292042	0.25083072	0.438787
310855	Gstcd	0.291814	0.02033704	0.066413
502902	Clec7a	0.29179	0.00715031	0.027997
293186	Lyve1	0.291708	1.16E-05	9.40E-05
290027	Parp2	0.291677	3.72E-05	2.72E-04
171575	Dnase2	0.291418	2.15E-06	2.01E-05
289211	Fcgr2b	0.291354	0.05907313	0.154285
79431	Bhlhe40	0.291198	2.58E-07	2.82E-06
315750	Lct1	0.291107	0.62206646	0.779886
108351334	LOC108351334	0.290926	0.64811816	0.800688
365661	Erbin	0.29069	1.05E-18	3.53E-17
81678	Itpr2	0.290496	1.33E-05	1.06E-04
498089	Dtx3l	0.290347	4.07E-08	5.02E-07
102556967	LOC102556967	0.290202	3.47E-06	3.12E-05
499723	Col24a1	0.290043	3.44E-10	5.62E-09
102547029	LOC102547029	0.289916	0.00484828	0.020196
306110	Klf12	0.289897	6.21E-09	8.61E-08
361433	Cpne7	0.289769	9.99E-04	0.005172
103694881	LOC103694881	0.289574	0.8329277	0.916254
294188	Olr1731	0.289574	0.8814251	0.945253
363464	Piga	0.289476	0.02062328	0.067186
304960	Olfml2b	0.28932	8.53E-14	2.05E-12
362429	Mfap5	0.289263	6.29E-09	8.71E-08
25147	Cyp19a1	0.288982	0.51449392	0.700346
366792	Mettl7b	0.288928	0.16592983	0.329971
102554034	LOC102554034	0.28881	6.54E-06	5.56E-05
314654	Myo1f	0.288765	9.14E-04	0.004791
102555644	LOC102555644	0.28828	0.00567624	0.02303
58917	Hpx	0.288096	0.40131873	0.598334
690467	LOC690467	0.288058	0.02602853	0.080564
303612	Polg2	0.287574	0.07763194	0.18999
301255	Spats1	0.287282	0.30909357	0.504213
305604	Efemp1	0.286911	2.15E-25	1.01E-23
29415	Slpr2	0.286893	6.19E-07	6.37E-06
65191	Gabre	0.28667	0.33847041	0.535041
103694855	LOC103694855	0.286578	0.01260786	0.044856
499469	LOC499469	0.286559	0.29757621	0.494144
685664	Dnal1	0.286351	4.61E-05	3.31E-04

295337	Bcl2l15	0.286339	0.43512134	0.629081
367313	Col6a3	0.286307	9.75E-21	3.61E-19
309902	Tet1	0.286087	0.09437641	0.219115
499697	Trmt13	0.286027	0.00314	0.013982
85251	Col18a1	0.285729	6.00E-22	2.38E-20
313994	Klf11	0.285693	9.25E-06	7.64E-05
170632	Fgf11	0.285573	0.07220997	0.180099
315760	Parp16	0.285569	0.00696486	0.027406
310405	Maml3	0.285379	0.00872401	0.033038
100911104	LOC100911104	0.285368	0.16931369	0.334535
313370	Hook1	0.28535	0.00103423	0.005325
156117	Casp12	0.285247	0.0342153	0.100066
289287	Gpr137b	0.285154	1.20E-26	6.02E-25
24273	Cryaa	0.285093	0.37207802	0.568444
252959	Dnah12	0.285093	0.37207802	0.568444
25450	Gabbr1	0.285093	0.07423263	0.18382
59320	Adcy10	0.285093	0.37207802	0.568444
499253	Itiprip12	0.285001	0.00628462	0.025161
103690137	LOC103690137	0.284591	0.03996849	0.11319
315348	Nckap11	0.284174	3.41E-05	2.52E-04
362133	Lypd6b	0.284106	0.23849235	0.425668
498528	Shisa2	0.284106	0.23849235	0.425668
499241	Scube2	0.283713	0.15915168	0.320491
679566	Alkal2	0.283713	0.15915168	0.320491
25148	Egr3	0.283317	6.00E-06	5.15E-05
155696	Dcbld2	0.283097	1.27E-25	6.03E-24
102546590	LOC102546590	0.283012	0.38076493	0.57773
502217	Raet1d	0.28297	0.57142984	0.740534
100124593	Cxcr6	0.282801	0.58615068	0.752062
24448	Hrh1	0.282801	0.00467067	0.019567
298398	Fam221b	0.282801	0.58615068	0.752062
316384	Cavin2	0.282601	1.72E-07	1.93E-06
296072	Spred1	0.282491	8.52E-17	2.56E-15
81646	Creb1	0.282194	7.24E-14	1.76E-12
500124	LOC500124	0.281977	0.14097171	0.294193
312358	Prr15	0.281808	0.00734198	0.028618
304485	Hvcn1	0.281671	0.02211955	0.070885
100361655	LOC100361655	0.281669	0.20954986	0.387916
84492	Tec	0.281461	6.57E-05	4.55E-04
312510	Tial	0.281453	1.36E-09	2.06E-08
65190	Rsad2	0.281342	4.81E-04	0.002709
313782	Fbxl12	0.281229	0.00921994	0.034661
361112	Vstm4	0.28075	0.00330295	0.014575
307986	Nhlrc2	0.280376	5.58E-09	7.78E-08
294711	Ppwd1	0.28037	7.05E-05	4.86E-04
499762	Med22	0.280279	1.62E-05	1.27E-04
102549817	LOC102549817	0.280231	0.03051204	0.091339
54257	Grik2	0.280047	2.21E-05	1.69E-04
299897	Trps1	0.279731	5.26E-04	0.002932
317676	Lat2	0.279701	0.09227941	0.215772
298138	Rasef	0.279655	0.04804114	0.130874
498492	Ccnblip1	0.27949	0.29846095	0.494966
681217	Zfp862	0.279392	2.55E-04	0.001551
497894	Zfp62	0.279161	3.03E-06	2.76E-05
500131	Creb5	0.279064	1.67E-05	1.31E-04
685136	Spint3	0.279025	0.56364255	0.734943

362863	LOC362863	0.278958	0.0430387	0.119993
367323	Nudt12	0.278571	1.77E-08	2.29E-07
681694	Liph	0.278393	0.37649407	0.573259
286915	Vom2r53	0.278328	0.53281351	0.71496
305311	Txk	0.278328	0.53281351	0.71496
679957	Gpr18	0.278328	0.53281351	0.71496
367039	Dock6	0.278197	9.20E-12	1.80E-10
362050	Gbp5	0.278111	2.47E-05	1.88E-04
100912604	LOC100912604	0.277949	0.06457134	0.165202
298185	Frem1	0.277174	0.01879042	0.062302
290046	Hrnnp	0.277009	2.54E-15	6.93E-14
498331	Ptpn13	0.276973	1.48E-17	4.66E-16
103693267	LOC103693267	0.27689	0.06788711	0.17161
117240	Heph	0.276868	0.00830639	0.031747
317391	Shroom4	0.276754	0.00974485	0.036269
282825	Zfp161	0.276624	1.07E-05	8.72E-05
305112	Vom2r66	0.276346	0.58366956	0.750168
25441	Fcer1g	0.276289	3.29E-07	3.55E-06
315651	RGD1562811	0.276258	0.1756208	0.34361
306934	Ripor2	0.276213	5.57E-05	3.92E-04
296654	Gsn	0.276133	8.73E-114	#####
500112	Gimap8	0.275738	0.00211889	0.009947
25316	Ms4a2	0.275712	0.32629821	0.522083
314615	Prtn3	0.275712	0.48762321	0.675697
360591	Prr11	0.275712	0.22928348	0.413788
310207	Sema5a	0.275411	3.80E-59	4.49E-57
681309	Thbs3	0.27541	0.00164049	0.007946
306819	Kdmlb	0.274888	7.58E-05	5.18E-04
103690058	LOC103690058	0.274733	0.33954446	0.536115
304500	Acad10	0.274728	0.00149762	0.007355
363113	Syncrip	0.274717	3.69E-20	1.32E-18
306469	Cfap97	0.274708	2.01E-04	0.001246
312727	Tspan11	0.274085	1.99E-05	1.54E-04
296616	Cercam	0.274075	0.00103931	0.005348
303130	Fstl4	0.273995	0.44844978	0.64045
500113	Gimap7	0.273995	0.18921713	0.361993
690368	Tmem253	0.273995	0.44844978	0.64045
294770	Card6	0.27389	1.41E-06	1.37E-05
685881	LOC685881	0.273809	0.40325915	0.600287
103693723	LOC103693723	0.273723	0.28598187	0.480208
100910554	LOC100910554	0.273595	0.68681143	0.826247
100911456	LOC100911456	0.273543	0.07424758	0.183809
314111	Klh115	0.273242	0.02420706	0.07624
315306	Mettl7a	0.273036	2.55E-09	3.73E-08
306825	Mylip	0.272853	4.37E-07	4.60E-06
78972	Zfp354c	0.272803	0.00927593	0.034844
25056	Rbp1	0.272644	1.10E-04	7.23E-04
60442	Lin7c	0.272627	0.00291179	0.013094
114002	Ndst2	0.272557	7.08E-05	4.87E-04
361710	Sipal	0.272523	1.20E-12	2.56E-11
305967	Kif13b	0.272282	1.98E-31	1.20E-29
360518	Gfpt2	0.272242	4.72E-05	3.38E-04
307428	Tnfaip8	0.272148	0.00554151	0.022565
315863	Ube3d	0.272083	0.08597583	0.205215
303905	Parp9	0.272076	2.79E-08	3.51E-07
64021	Gpr173	0.27188	0.17232311	0.339144

364837	Gypc	0.271813	9.34E-04	0.004873
691138	Spx	0.271131	0.74790191	0.86478
81750	Pros1	0.271064	2.14E-08	2.74E-07
83580	Thbd	0.27079	8.78E-10	1.36E-08
314360	Galc	0.270755	1.24E-09	1.89E-08
29141	Gal	0.270711	0.0181348	0.060539
308768	Ticrr	0.270627	0.33074228	0.527068
301056	Ctdspl	0.27029	5.15E-08	6.26E-07
310448	Igsf10	0.270243	0.01321305	0.046635
303310	Hic1	0.270166	0.00652792	0.026004
311592	RGD1563354	0.269929	1.20E-12	2.56E-11
315824	Bmp5	0.269524	0.00304664	0.013633
102551899	LOC102551899	0.269369	0.12670044	0.272656
502389	Npm3	0.269208	0.04679866	0.128353
287285	Shroom1	0.269126	0.0442891	0.122868
79049	Secisbp2	0.26911	2.33E-04	0.001428
140587	Sox5	0.268582	0.00350551	0.015355
294804	Rai14	0.26847	4.46E-08	5.45E-07
100910278	LOC100910278	0.268388	0.5682749	0.738052
499866	Fam98b	0.268296	0.33232284	0.528349
100360380	LOC100360380	0.268241	4.90E-05	3.50E-04
311886	Cntrl	0.268038	7.26E-05	4.98E-04
317204	Pcdh11x	0.267932	0.1511383	0.308117
498282	Arhgap30	0.267705	0.03223466	0.095505
295672	Fkbp7	0.267605	5.13E-04	0.002868
117036	Lamc1	0.267435	4.14E-67	5.51E-65
364514	Shld2	0.267341	8.11E-04	0.004302
171146	Kcnh5	0.266936	0.05334677	0.141898
102553031	LOC102553031	0.26673	0.44483717	0.637754
81507	Bmpr1a	0.266727	8.31E-15	2.16E-13
314275	Slc39a9	0.266693	1.57E-05	1.24E-04
363328	Ticam1	0.266639	0.04423011	0.122758
80881	Serp1	0.266632	2.41E-22	9.77E-21
361487	Zfp52	0.266534	0.05325605	0.141716
94196	Rnf138	0.266525	7.85E-04	0.004191
308444	Axl	0.266233	3.28E-15	8.85E-14
360579	Cc19	0.26623	0.28150648	0.475123
293566	Cpxm2	0.266132	8.23E-09	1.12E-07
306226	Dux4	0.266068	0.00109316	0.005577
100362915	Zfp648	0.265728	0.76051163	0.873553
100363433	Srrm5	0.265728	0.66642109	0.810653
102551929	LOC102551929	0.265728	0.66642109	0.810653
102554659	LOC102554659	0.265728	0.22640406	0.410146
117551	Cc122	0.265728	0.76051163	0.873553
171397	UST4r	0.265728	0.76051163	0.873553
24528	Lalba	0.265728	0.76051163	0.873553
24616	Pah	0.265728	0.66642109	0.810653
266787	Eaf2	0.265728	0.76051163	0.873553
297419	Gkn2	0.265728	0.66642109	0.810653
306956	Btn1a1	0.265728	0.76051163	0.873553
309620	Btn12	0.265728	0.76051163	0.873553
310152	Slc45a2	0.265728	0.66642109	0.810653
314537	Abcb5	0.265728	0.76051163	0.873553
361994	Bnpl	0.265728	0.76051163	0.873553
366531	Ttc39d	0.265728	0.76051163	0.873553
500531	Armhl	0.265728	0.49550853	0.682058

502900	Clec12b	0.265728	0.49550853	0.682058
50546	Insl6	0.265728	0.76051163	0.873553
60448	Htr1f	0.265728	0.49550853	0.682058
678704	Atp13a3	0.265728	0.14379224	0.298217
685355	L1td1	0.265728	0.66642109	0.810653
687483	Tmem217	0.265728	0.66642109	0.810653
689704	Vsx1	0.265728	0.76051163	0.873553
690918	Tmem215	0.265728	0.66642109	0.810653
282821	Has1	0.265728	0.45528896	0.646509
293743	Ms4a14	0.265728	0.54211485	0.723567
29586	Gjb5	0.265728	0.36049239	0.557361
303563	Nags	0.265728	0.59753772	0.761058
309208	Lrrc10b	0.265728	0.54211485	0.723567
407781	Btnl3	0.265728	0.54211485	0.723567
79225	Hes5	0.265728	0.12749713	0.273969
291647	Pcdhb14	0.26532	0.13913744	0.291579
360903	Fgfr11	0.265212	0.00331764	0.014629
501150	RGD1562029	0.265186	0.05457699	0.144625
114517	Itga6	0.265022	2.24E-55	2.39E-53
25615	Sdc2	0.264947	1.45E-21	5.61E-20
289419	Nuak2	0.26473	0.03504271	0.101798
25473	Lamb2	0.264729	1.38E-38	1.03E-36
298184	Zdhhc21	0.264695	4.63E-09	6.56E-08
29528	Vamp3	0.264468	1.82E-15	5.00E-14
367832	Zfx	0.264415	1.61E-07	1.82E-06
246775	Tnfsf10	0.264342	0.00327949	0.014488
364594	Tlr3	0.264279	0.00248922	0.011426
100909408	Zfp397	0.26398	9.99E-05	6.63E-04
361269	Fam208b	0.263859	4.09E-06	3.63E-05
361474	Ipcef1	0.263855	0.03006802	0.09028
689613	Mtmr11	0.263804	2.90E-04	0.001732
100912235	Mast4	0.262878	2.42E-05	1.84E-04
685009	Rnf169	0.262822	7.61E-06	6.39E-05
679845	Shc4	0.262791	1.10E-11	2.13E-10
102551014	LOC102551014	0.262709	0.39040203	0.587392
58838	Sh2b3	0.262635	3.45E-06	3.11E-05
304498	Wdr66	0.262627	0.20723384	0.384938
25408	Cd80	0.262507	0.09819367	0.225558
311111	Nostrin	0.262453	0.10279884	0.233489
286921	Akr1b8	0.262409	0.02709755	0.083211
287423	Hes7	0.262305	0.32547746	0.521207
100912481	LOC100912481	0.262283	2.96E-11	5.47E-10
306816	Zfp169	0.262213	0.02606673	0.080657
289437	Glmn	0.262097	1.29E-05	1.03E-04
290326	Pbk	0.26208	0.2750379	0.467062
297483	Shq1	0.261989	0.07709461	0.189112
316421	Aox2	0.261951	0.55054395	0.731026
360627	Fkbp10	0.261444	1.44E-06	1.39E-05
114507	Slc5a3	0.261428	0.15612706	0.315819
316527	Wnt10a	0.261428	0.31594226	0.510574
100910714	LOC100910714	0.261408	0.65455531	0.80317
300796	Snx22	0.261349	0.22525348	0.408606
289864	Prorsd1	0.261295	0.08726409	0.207199
316982	Resf1	0.261263	5.13E-09	7.23E-08
100910885	LOC100910885	0.261193	0.00958174	0.035788
287949	Scarf2	0.261124	2.44E-05	1.86E-04

24790	Sp1	0.261107	1.86E-13	4.28E-12
360905	Mtf2	0.261031	4.81E-05	3.43E-04
103690888	LOC103690888	0.261005	0.81496628	0.907026
286993	Taok1	0.260952	1.92E-08	2.47E-07
499668	Lingo4	0.260773	0.04289849	0.119672
291978	Dus2	0.260761	4.96E-04	0.002788
64702	Trim17	0.260761	0.18806639	0.360371
311401	Sppl2a	0.260726	2.90E-09	4.21E-08
305449	Mfsd10	0.260557	3.33E-04	0.001965
301083	RGD1566368	0.260553	0.15466132	0.31342
363144	Cdhr4	0.26019	0.07858557	0.191855
367645	Pif1	0.259937	0.39258603	0.589839
294789	Ranbp31	0.259785	7.01E-05	4.83E-04
114208	Skil	0.259745	3.74E-10	6.06E-09
500068	Ssmem1	0.259535	0.21334802	0.39357
310806	Cdc14a	0.259419	3.99E-05	2.90E-04
366474	Coll16a1	0.259395	1.27E-29	7.10E-28
64459	Masp2	0.259364	0.00113432	0.005758
502086	RGD1564308	0.259209	0.29956687	0.496195
679346	Tarbp1	0.259074	0.02428303	0.076416
310807	Sass6	0.25895	0.02468794	0.077282
171380	Cyp2t1	0.258819	0.01877867	0.062274
315610	Jaml	0.258803	0.23040726	0.415344
363185	Foxp4	0.258743	8.98E-06	7.44E-05
309129	Fcho2	0.25856	2.18E-06	2.04E-05
305350	RGD1565119	0.258496	0.76712125	0.877678
246240	Ripk3	0.25769	0.10593023	0.238567
307660	Ces5a	0.25769	0.10593023	0.238567
313069	Rbm12b	0.257578	0.00145697	0.007183
24747	RT1-M3-1	0.257309	2.50E-04	0.001523
501552	Fancb	0.257266	0.08484185	0.203426
362418	Irak2	0.25714	0.01560861	0.053581
309131	Slc22a18	0.257115	0.119164	0.26083
294375	Reep3	0.257052	1.30E-23	5.58E-22
690419	Zfp70911	0.257	9.43E-04	0.004913
302377	RGD1560455	0.256961	0.52203729	0.706323
25094	Mitf	0.256946	5.86E-04	0.003225
192281	Oas1a	0.256894	0.0156019	0.053587
365583	Dse	0.256678	4.16E-06	3.68E-05
310416	Nhlrc3	0.256663	1.41E-05	1.12E-04
102557607	LOC102557607	0.25645	0.50303266	0.689773
287761	Prr29	0.25645	0.3435698	0.540009
100363145	Stab1	0.256329	1.69E-09	2.53E-08
307206	Neto1	0.256221	0.06153669	0.159213
25380	Anxa1	0.256109	4.08E-19	1.40E-17
100359529	Immp21	0.255909	0.08565702	0.204711
307618	Cdh5	0.255864	1.74E-07	1.95E-06
108348298	LOC108348298	0.255842	0.04098062	0.115336
305064	Ptpn14	0.255813	2.47E-09	3.63E-08
360711	Cip2a	0.255693	0.08578742	0.204919
299858	Lrp1	0.25568	1.94E-52	1.98E-50
313922	Asx12	0.255559	1.50E-07	1.70E-06
414792	RT1-CE10	0.255435	4.47E-11	8.00E-10
501588	Tex11	0.255402	0.43269232	0.627093
171414	Pmfbp1	0.255359	0.03642325	0.104944
113940	Gmfg	0.255273	0.02959029	0.089197

308865	Atg16l2	0.255267	7.23E-04	0.003891
24615	SI00a4	0.255006	2.70E-20	9.75E-19
362442	A2ml1	0.25488	0.21825595	0.39972
499126	Igflr1	0.254673	0.13558815	0.285808
286979	Zfp455	0.254663	0.06909713	0.173884
299285	Clmn	0.25464	1.15E-05	9.36E-05
103694306	LOC103694306	0.254396	0.01183865	0.042557
500688	Adam411	0.25434	0.07531603	0.185899
310588	Tchh	0.254232	0.39893713	0.59623
361478	Pnlcd1	0.254232	0.23290101	0.418769
59316	Nxph4	0.254232	0.14400936	0.298374
304807	Rabif	0.25421	0.02573004	0.079809
81762	Rock1	0.254052	2.16E-13	4.93E-12
301333	Ptpn18	0.253878	0.09704873	0.223602
303285	Traf4	0.253684	0.00770765	0.029806
679900	RGD1564247	0.25368	0.09199395	0.215184
361630	Tead1	0.253583	1.66E-22	6.76E-21
259241	Nr1d2	0.253524	5.97E-17	1.82E-15
290432	Setsip	0.253167	0.58371767	0.750128
360886	Ahctf1	0.253135	5.10E-12	1.02E-10
116463	Akr1b7	0.253125	0.53954994	0.721559
681086	Pigf	0.253113	4.45E-04	0.002532
503429	Mpc11	0.252252	0.04018881	0.113695
287715	Wnk4	0.252115	7.34E-07	7.47E-06
64025	Cd244	0.252053	0.34768549	0.544635
500557	Nkain1	0.252001	0.00682594	0.026949
363457	Col4a5	0.251228	0.00404606	0.017308
301455	Pard3b	0.250867	0.02404742	0.07585
79252	Adamts1	0.250766	3.79E-07	4.03E-06
103689927	LOC103689927	0.250745	0.04729062	0.129404
103692168	LOC103692168	0.250742	0.74763584	0.86463
100363146	Fam228b	0.250621	0.30497067	0.501959
287366	Pld6	0.250621	0.60801013	0.769943
289001	Map3k19	0.250621	0.60801013	0.769943
290729	Neil3	0.250621	0.60801013	0.769943
303537	Zfp385c	0.250621	0.60801013	0.769943
58978	Slcolb2	0.250435	0.12540431	0.270724
688708	LOC688708	0.250345	1.04E-04	6.87E-04
684529	Ctso	0.250118	0.00166187	0.008029
317599	Atp11c	0.250097	1.31E-05	1.05E-04
108348302	LOC108348302	0.250054	0.01074329	0.039264
503164	Apol9a	0.250041	0.03839975	0.109447
306259	RGD1564325	0.249723	0.79274912	0.893262
313774	Clqtnf12	0.249675	0.04738782	0.129614
574531	Lair1	0.249654	0.2308958	0.416027
50677	Ptpro	0.249531	3.68E-05	2.70E-04
316440	Ino80d	0.249494	5.01E-09	7.08E-08
688324	Ccdc57	0.249333	0.05007334	0.135058
102556989	LOC102556989	0.249333	0.53046727	0.712917
29344	Zfp3611	0.249306	2.18E-16	6.36E-15
117542	Baiap2	0.249195	1.10E-07	1.29E-06
103690007	LOC103690007	0.248723	0.00121844	0.006128
315578	Jhy	0.248604	0.05593745	0.147675
363425	Cav2	0.248574	1.74E-14	4.45E-13
103690827	Yy2	0.248104	0.11894809	0.260507
303090	Irgm	0.248091	0.00650743	0.025938

25599	Cd74	0.24809	7.49E-34	4.82E-32
362056	Spata1	0.247908	0.05303729	0.141233
56764	Samd13	0.247806	0.35172493	0.548571
114121	Ccn11	0.247783	1.31E-09	1.98E-08
191568	Naip6	0.247695	0.27740205	0.470029
307351	Tubb6	0.247568	5.87E-06	5.05E-05
360487	RGD1561157	0.247545	0.09591169	0.221949
302812	Zfp280c	0.247517	1.32E-04	8.51E-04
309986	Zcchc9	0.247355	2.88E-09	4.18E-08
102548693	Zfp28	0.247074	0.0050295	0.020828
361878	Tent2	0.246953	4.04E-05	2.93E-04
84423	Nrtn	0.24693	0.20005368	0.375779
362696	Ttc7a	0.246815	3.04E-04	0.001813
103690063	LOC103690063	0.246694	0.00360908	0.015732
303016	Crebrf	0.246528	4.01E-15	1.07E-13
311549	Xkr7	0.246303	9.40E-12	1.83E-10
100911069	Mtfr2	0.246147	0.14222238	0.296122
691907	Pla2g4f	0.246096	0.04240779	0.118529
297682	Dusp16	0.24604	2.76E-04	0.001665
291377	Rttt	0.245778	0.04006555	0.113431
290644	Ifi30	0.245776	5.18E-05	3.67E-04
499602	Abhd18	0.245314	0.02002948	0.065622
315852	Ttk	0.245264	0.29078555	0.486089
362491	Ripk2	0.2452	3.49E-04	0.002051
64036	Cd55	0.24519	1.09E-81	1.74E-79
316580	Sp140	0.245017	0.00536324	0.022028
84410	Klf5	0.244951	6.00E-12	1.19E-10
83500	Slc22a8	0.244666	0.17990524	0.349052
108353270	LOC108353270	0.244516	0.32241919	0.517616
296115	Secisbp21	0.244478	2.20E-103	#####
103690092	LOC103690092	0.2443	0.30786188	0.502419
114709	Ifitm2	0.244188	7.37E-10	1.16E-08
690005	Zcchc3	0.244187	0.00108054	0.005525
363062	Dixdc1	0.244069	1.74E-04	0.001093
690329	Lrrn4c1	0.243998	0.01817855	0.060643
314584	Zfp563	0.243847	0.01303465	0.046125
100361631	Tmem35b	0.243701	0.47434722	0.664651
259226	Ppp1r14d	0.243701	0.67956994	0.821011
500904	Ncf4	0.243701	0.05837965	0.152851
102555975	LOC102555975	0.243701	0.55912543	0.735067
498079	Cd96	0.243701	0.55912543	0.735067
58962	Hpgds	0.243701	0.40874719	0.60491
100362641	Zfp945	0.24361	0.00401189	0.017189
288022	Ccdc50	0.243279	1.25E-17	3.96E-16
310864	Manba	0.243279	4.84E-04	0.002722
303101	Maml1	0.243104	4.06E-04	0.002341
301434	Clk1	0.24307	2.39E-19	8.29E-18
25619	Plau	0.243052	0.02163317	0.069689
306460	Enpp6	0.242912	0.21487968	0.395361
103694120	LOC103694120	0.242897	0.77059662	0.879646
288559	Sap25	0.242697	0.06526203	0.16641
116831	Fxyd3	0.242579	0.02602859	0.080552
83819	Slc26a5	0.242364	0.2592701	0.448646
362557	Ndc1	0.24233	8.37E-06	6.98E-05
108348090	LOC108348090	0.242252	0.00272941	0.012385
102555832	LOC102555832	0.242137	0.13276758	0.282111

108348216	LOC108348216	0.242135	0.46140171	0.652368
305835	Peli2	0.242078	1.69E-13	3.93E-12
25186	Efnb1	0.241982	7.28E-11	1.27E-09
102548800	LOC102548800	0.24196	0.47664565	0.666108
294141	Clic2	0.241927	0.00969151	0.036099
252971	Socs1	0.2417	0.1932998	0.366965
684773	LOC684773	0.241637	0.62586914	0.783622
295274	Hist2h2be	0.241607	0.00667714	0.026487
25491	Nes	0.241564	9.45E-35	6.38E-33
681355	LOC681355	0.241533	0.00806838	0.030993
299236	Flrt2	0.241492	1.95E-06	1.84E-05
307475	Gpr151	0.24148	0.38306461	0.579972
309724	Tmem26	0.241378	0.00702216	0.02758
60382	Arfip1	0.241333	7.97E-10	1.25E-08
100910577	LOC100910577	0.241288	0.00183846	0.008797
308582	Tead2	0.241205	0.10021045	0.228975
89783	Laptm5	0.241001	2.09E-11	3.91E-10
29175	Ctsk	0.240792	7.84E-05	5.35E-04
60460	Hspa2	0.240728	6.02E-20	2.13E-18
360420	Rdh7	0.240712	0.85432675	0.928108
310019	Utp15	0.240555	3.27E-07	3.54E-06
308003	Rab11fip2	0.240295	9.53E-05	6.35E-04
116689	Ptpn6	0.240286	0.00390276	0.016778
316767	Ddx11	0.240232	0.04650671	0.127754
686091	Ccdc13	0.240193	0.23183112	0.417278
100912456	Lilrb1	0.239911	0.36820193	0.564333
294521	Ak9	0.239733	0.51710017	0.702012
497906	Ccdc69	0.239733	0.51710017	0.702012
501043	I120rb	0.239733	0.19509797	0.369348
289865	Clhc1	0.239733	0.26183656	0.451528
498769	Edaradd	0.239383	0.41199854	0.607739
498366	Fam114a1	0.239159	2.28E-08	2.90E-07
103689975	LOC103689975	0.239139	0.08456445	0.203017
102554737	LOC102554737	0.239134	0.67644634	0.818795
58808	Mpp4	0.239134	0.29681228	0.493349
689537	Calr4	0.238868	0.05237843	0.139752
366174	Catsper2	0.238862	0.03242956	0.095978
102554874	LOC102554874	0.238855	0.64292813	0.79655
363463	Mospd2	0.238829	5.54E-08	6.68E-07
291577	Chsy3	0.238761	0.15663874	0.316585
291047	Gcm2	0.238685	0.33964213	0.536181
25707	Cntf	0.238646	7.34E-18	2.38E-16
314814	Nav3	0.238534	4.19E-04	0.002405
497078	Xk	0.238468	1.10E-05	8.98E-05
103690025	NEWGENE_1305243	0.238465	0.04310296	0.120137
25537	Rock2	0.238322	6.13E-21	2.30E-19
293545	Gpr139	0.238071	0.12656719	0.272462
317322	Gpc4	0.237983	8.25E-05	5.58E-04
362261	Lpin3	0.237945	0.0199571	0.065419
363455	Chrd11	0.237721	0.00157132	0.007658
312113	Stard8	0.237374	3.13E-06	2.84E-05
50552	Zfp292	0.237305	3.21E-06	2.91E-05
84586	Fgl2	0.237298	1.33E-56	1.46E-54
317435	Shroom2	0.237219	6.09E-17	1.86E-15
293294	Trim6	0.237159	0.61768334	0.776641
316326	Neurl3	0.237159	0.48025936	0.668949

688276	Tmc8	0.237159	0.1580171	0.318459
287060	Sec14l5	0.237159	0.00106385	0.005455
366031	Crb2	0.237111	0.41653111	0.612338
29588	Pou3f2	0.237062	1.48E-05	1.18E-04
100912656	LOC100912656	0.23693	0.36188887	0.558387
414779	RT1-CE2	0.236789	4.45E-04	0.002534
296532	Spopl	0.236731	4.29E-09	6.12E-08
100911549	LOC100911549	0.236667	0.69853002	0.834756
362817	Cdk2	0.236524	0.02579643	0.079963
360920	Mob1b	0.236475	0.00103417	0.005327
315646	Fdxacb1	0.236412	0.03989839	0.113025
362477	Rgs20	0.236215	0.03938079	0.111875
316583	B3gnt7	0.236057	0.16793258	0.332392
360595	Rnft1	0.236013	8.08E-05	5.49E-04
304388	Cldn15	0.235998	0.05052379	0.135869
363035	Zbtb44	0.235961	1.21E-05	9.81E-05
287738	Higd1b	0.235893	0.36340711	0.559913
303534	Ttc25	0.235893	0.36340711	0.559913
499300	Ptprcap	0.235893	0.36340711	0.559913
298301	Mroh7	0.23555	0.03317027	0.09764
108353166	LOC108353166	0.2355	0.01001333	0.037095
310808	Slc35a3	0.235354	9.30E-04	0.004857
307740	Sall1	0.235354	0.44750738	0.63968
365948	Bank1	0.235354	0.44750738	0.63968
24592	Nf1	0.235251	1.64E-20	5.98E-19
308222	Wdr27	0.23511	0.01047361	0.038537
304833	Trove2	0.234943	5.41E-05	3.82E-04
498922	Cbln1	0.234867	0.1785569	0.347392
65044	C1galt1	0.234757	8.24E-09	1.12E-07
102551633	LOC102551633	0.234701	0.12357769	0.268332
100361645	LOC100361645	0.234563	1.57E-04	9.99E-04
102550397	LOC102550397	0.234555	0.01016673	0.037561
63883	Kcne3	0.234462	0.06329703	0.162794
306164	Tgds	0.234424	0.00598983	0.024087
304646	Mgat4d	0.234364	0.13657113	0.287467
246215	Tpcn1	0.234149	5.10E-26	2.47E-24
312846	Rassf8	0.234043	1.50E-08	1.98E-07
25575	Scgbla1	0.234019	0.56693067	0.73696
29393	Colla1	0.233999	1.36E-235	#####
116677	F2r11	0.233721	0.13162642	0.280405
296972	Akr1b10	0.233663	0.0049125	0.020414
691810	Pla2g4c	0.233616	0.84617163	0.923092
500076	Agbl3	0.233449	0.01484723	0.051375
500133	Nod1	0.233448	1.29E-07	1.48E-06
29735	Slc16a7	0.233437	9.85E-06	8.10E-05
287388	Zswim7	0.233177	0.18010524	0.349298
499156	Gas2	0.232964	5.58E-07	5.79E-06
494338	Trim25	0.232909	0.00428748	0.018186
291105	E2f3	0.23277	0.01403887	0.049005
100912062	LOC100912062	0.232587	0.28127895	0.474823
192177	Unc13d	0.23248	0.04803815	0.130885
100912536	Styx	0.232308	2.23E-05	1.71E-04
289595	Nfx11	0.232232	0.00119795	0.006045
191572	Ahnak	0.232217	8.02E-171	#####
366896	Tbc1d15	0.232111	1.24E-09	1.89E-08
688649	LOC688649	0.231965	0.00369418	0.016059

294892	tGap1	0.231894	0.29466248	0.490889
100911700	LOC100911700	0.231549	0.17691938	0.345441
366029	Zbtb6	0.231264	1.27E-04	8.23E-04
298247	Mysm1	0.231117	1.33E-09	2.02E-08
25157	Plagl1	0.231009	2.19E-08	2.80E-07
100361083	LOC100361083	0.230962	0.01200133	0.043077
313033	Xkr8	0.230901	0.07556827	0.186256
25601	Oprm1	0.230891	0.00874129	0.033084
108351703	LOC108351703	0.230724	0.3542028	0.551082
362772	Btbd7	0.230688	4.00E-10	6.46E-09
691277	LOC691277	0.230608	0.72516425	0.849893
691379	Ice2	0.230471	0.00491032	0.02041
63879	Xiap	0.230446	3.04E-13	6.85E-12
100911949	LOC100911949	0.230384	0.35455227	0.551445
102548478	LOC102548478	0.23033	0.05939205	0.154842
294269	RT1-Da	0.230252	7.22E-09	9.90E-08
117063	Ptpn2	0.230147	0.0020394	0.009606
311936	Rnf32	0.230147	0.0020394	0.009606
308406	Six5	0.230121	7.80E-04	0.004168
102550424	LOC102550424	0.230104	0.45254768	0.644201
64355	Lsr	0.230104	0.01752858	0.058918
288093	Arhgap31	0.230091	7.61E-09	1.04E-07
81813	Klf10	0.229927	5.26E-05	3.72E-04
25514	Lyplal	0.229696	2.07E-10	3.49E-09
338477	Sla	0.229202	0.24266288	0.430469
311166	Clp1	0.229082	0.01777736	0.059534
680915	Mbd4	0.229062	0.00216079	0.010106
690358	Prdm11	0.228926	0.00690144	0.027185
316130	Plin3	0.228843	3.81E-05	2.78E-04
686081	B3galt2	0.228433	0.00156193	0.007616
305081	Cd34	0.228417	3.93E-04	0.002277
498185	Slc8b1	0.228268	2.85E-05	2.15E-04
500011	Samd9	0.228169	2.91E-10	4.80E-09
300880	Cep162	0.228113	0.00669573	0.026539
24413	Nr3c1	0.227958	1.54E-14	3.95E-13
315120	Card10	0.227937	0.00179997	0.008633
315912	Tbc1d8b	0.22776	7.30E-04	0.003929
305342	N4bp2	0.227464	0.0037783	0.016354
29630	Psmel	0.227356	5.25E-09	7.36E-08
498130	Stard13	0.227232	1.02E-13	2.42E-12
309757	Sirt1	0.227166	6.61E-05	4.57E-04
309186	Fermt3	0.226924	0.01286525	0.045627
362171	Prr51	0.226785	0.15330888	0.311342
315959	Msl2	0.226774	1.79E-06	1.71E-05
303272	Pipox	0.226734	0.19648073	0.37108
498206	Tnfrsf11a	0.226708	0.02414875	0.076132
501203	Myl12a	0.226664	4.37E-12	8.82E-11
360589	Ints2	0.226623	0.00105983	0.005439
363269	Sp100	0.226619	0.11461827	0.253472
100911779	LOC100911779	0.226384	0.02241595	0.071617
690559	Zfp758	0.226125	0.00240242	0.011087
690374	Trim47	0.226058	0.01771587	0.059401
361632	Pik3c2a	0.225962	6.66E-12	1.32E-10
246284	Atrx	0.22594	6.08E-15	1.60E-13
246115	Plpp2	0.225819	0.05379441	0.142949
306926	RGD1563300	0.22574	0.72369453	0.848954

306873	Rreb1	0.225479	2.00E-04	0.001245
170520	Cygb	0.225477	2.57E-06	2.37E-05
100359945	Zfp267	0.225337	5.95E-06	5.12E-05
100911215	LOC100911215	0.225086	0.7788272	0.88464
100911925	LOC100911925	0.225086	0.7788272	0.88464
103690241	LOC103690241	0.225086	0.7788272	0.88464
291752	Dsg3	0.225086	0.69123571	0.829239
299908	Gsdmc	0.225086	0.7788272	0.88464
300913	Il1rap12	0.225086	0.69123571	0.829239
363658	Cct6b	0.225086	0.49149449	0.678888
369018	Ldhal6b	0.225086	0.7788272	0.88464
65054	Aqp9	0.225086	0.62665342	0.784037
108348429	LOC108348429	0.225086	0.53000741	0.712576
171151	Slc25a21	0.225086	0.53000741	0.712576
365323	Olr63	0.225086	0.10666857	0.239819
85483	Ciita	0.225086	0.13725049	0.28845
100910540	LOC100910540	0.225065	0.02225366	0.071254
362160	Celf1	0.224997	6.34E-15	1.67E-13
309380	Lox14	0.224838	0.18658115	0.358282
311352	Adal	0.224435	0.00553185	0.022545
691172	Uevld	0.224302	0.15110864	0.30809
85490	Col5a1	0.224266	2.25E-30	1.29E-28
100362733	Irgm2	0.223608	8.75E-06	7.27E-05
29146	Jagl	0.223484	2.51E-10	4.18E-09
297824	Dpy1914	0.223371	2.75E-05	2.08E-04
300711	Atm	0.223281	5.39E-07	5.60E-06
103692719	LOC103692719	0.223278	0.00272574	0.012372
24517	Junb	0.223265	6.09E-07	6.27E-06
298322	Lonrf3	0.223255	0.14082731	0.294021
313587	Zc3h12a	0.22314	0.09804119	0.225343
29345	Serpinh1	0.223084	2.69E-45	2.26E-43
297989	Ddx58	0.223072	2.78E-04	0.001673
499342	Cd274	0.223067	3.50E-09	5.04E-08
100910807	LOC100910807	0.222743	3.13E-04	0.001861
361100	Top2b	0.222732	3.37E-11	6.16E-10
310190	Otulinl	0.22273	0.00498658	0.020677
315883	Plscr2	0.222678	0.05546434	0.146589
302946	Glis2	0.222591	1.89E-05	1.46E-04
140433	Lama5	0.222484	3.79E-06	3.40E-05
303242	Dnah2	0.222475	0.31402906	0.508475
303382	Ras110b	0.222424	0.04641645	0.127598
304037	Ar113b	0.222172	7.03E-05	4.84E-04
316732	Smchd1	0.222161	3.04E-08	3.81E-07
307940	Disc1	0.222074	0.00812736	0.031163
100361376	Kank2	0.221812	5.47E-12	1.09E-10
502541	Lor	0.221703	0.37803927	0.575061
302703	Klh134	0.221417	0.00536207	0.022028
494320	Ccdc8	0.221308	0.00597789	0.024054
316052	Eomes	0.22107	0.6866598	0.826117
305083	Zfp281	0.220989	0.00399009	0.017107
301264	Cyp39a1	0.220946	0.03563685	0.103178
300060	Apol11a	0.220873	0.4312847	0.625433
287918	Mett123	0.220473	0.03700449	0.106345
288010	Lpp	0.220321	1.61E-10	2.73E-09
100910056	LOC100910056	0.220192	1.81E-04	0.001138
306891	Serpinblb	0.220186	1.94E-26	9.59E-25

103690131	LOC103690131	0.220153	0.61923266	0.777716
64803	P2ry12	0.220075	0.0229976	0.073108
360817	Med131	0.219911	7.99E-10	1.25E-08
89828	Ch11	0.219891	1.80E-14	4.59E-13
114123	Sardh	0.219674	4.30E-04	0.002458
100188934	Ctxn3	0.219672	7.66E-06	6.43E-05
289054	Aspm	0.219512	0.07221657	0.180092
102546864	LOC102546864	0.219505	0.49683833	0.683074
246296	Lrrc15	0.219505	0.49683833	0.683074
140935	Afap1	0.219372	3.83E-04	0.002227
315675	Gldn	0.219362	8.21E-14	1.97E-12
361727	Tmem216	0.219358	0.00348269	0.015276
66015	Adamts4	0.219309	0.02002108	0.065606
500246	Arhgap25	0.219078	0.00893776	0.033727
378467	Tmem159	0.219045	2.27E-04	0.001397
25291	Anxa3	0.219034	0.0017915	0.008594
252878	Tnfsf15	0.219011	0.35810037	0.555105
689377	Rab20	0.219011	0.02438146	0.076599
25242	Arnt	0.218968	1.57E-05	1.23E-04
100910284	LOC100910284	0.218823	0.18794064	0.360238
292734	Ltbp4	0.218808	7.36E-11	1.28E-09
85246	Gas7	0.218742	8.67E-65	1.11E-62
83472	Ugdh	0.218702	4.06E-06	3.60E-05
171334	I112rb2	0.218688	0.01799557	0.060159
29464	Slc6a6	0.218665	1.25E-05	1.00E-04
367304	Ap1s3	0.218647	0.17329747	0.340639
690035	LOC690035	0.218543	0.00419396	0.017853
367251	Ankrd39	0.218541	0.04405548	0.122344
100360552	Fzd7	0.218519	0.06051725	0.15713
497940	LOC497940	0.218422	0.02568234	0.0797
361787	RT1-T24-1	0.218263	0.26481266	0.455177
316098	Exosc7	0.218199	0.03517212	0.102065
246306	Rmt1	0.218189	0.68027737	0.821448
287249	Cnot6	0.218068	1.17E-11	2.25E-10
29712	Kcnj2	0.218029	0.0350694	0.101845
252963	I113ra1	0.218	1.94E-10	3.28E-09
100911047	LOC100911047	0.217983	0.56828825	0.738019
315958	Stag1	0.217919	5.80E-06	5.00E-05
78947	Gcs1	0.217813	0.00152266	0.007447
300679	Mpz12	0.217783	0.01531451	0.05279
266680	St18	0.217679	0.4782176	0.667668
689268	LOC689268	0.217617	0.02837581	0.086274
292947	Arfgef3	0.217549	2.14E-15	5.89E-14
316370	Kdelc1	0.217477	0.00394063	0.016922
306128	Cln5	0.217474	0.00324173	0.014365
315508	Ncapd3	0.217432	0.00282199	0.012745
310352	Jade1	0.217198	1.48E-04	9.49E-04
103689974	LOC103689974	0.217137	0.78261341	0.887036
298468	Olr855	0.217137	0.84531364	0.922737
309533	Sorcs1	0.217136	1.02E-21	3.98E-20
81811	Thpo	0.217125	0.62601075	0.783645
316775	Ankrd12	0.217088	2.81E-11	5.21E-10
102548320	LOC102548320	0.216916	2.07E-04	0.001283
83511	Slc6a2	0.216818	0.58133863	0.748131
100910852	LOC100910852	0.216703	0.54382347	0.725187
500116	Tra2a	0.216689	5.46E-15	1.44E-13

361650	Hirip3	0.216614	0.00287356	0.012953
691375	Serpine3	0.216495	0.41884216	0.614549
25402	Casp3	0.2164	0.00148961	0.007323
288077	Hcls1	0.2164	0.03755945	0.107583
361875	Atp6ap11	0.216351	0.10827908	0.242381
679028	Rbpj	0.216334	5.17E-10	8.27E-09
306974	Zkscan8	0.216311	5.13E-06	4.46E-05
498843	Pcdhb2	0.216153	0.24412292	0.432415
500853	Rgs22	0.216097	0.3612719	0.557661
314988	Zhx2	0.215777	3.95E-04	0.002288
103690050	LOC103690050	0.215719	1.71E-04	0.001078
289150	Cenpl	0.215687	0.03959418	0.112363
679539	LOC679539	0.215593	0.14780531	0.30327
100911730	LOC100911730	0.215551	6.19E-18	2.01E-16
246143	Nradd	0.2155	0.17808625	0.346866
300852	Mto1	0.215475	0.00465485	0.019522
680576	Tet3	0.21543	8.64E-06	7.18E-05
102553278	LOC102553278	0.215337	0.01891027	0.062623
59086	Tgfb1	0.21513	9.42E-04	0.004911
102548514	LOC102548514	0.214768	4.52E-04	0.002565
100363520	LOC100363520	0.214667	0.15404956	0.312613
362489	Runx1t1	0.214622	1.07E-04	7.08E-04
364398	Trim13	0.214512	0.00176737	0.008496
171091	Zbp1	0.214502	0.10977609	0.244926
100909712	LOC100909712	0.214472	0.37260724	0.568979
288227	Bace2	0.214452	7.37E-07	7.48E-06
301033	Lrrc2	0.214378	0.01292953	0.045821
310132	Osmr	0.214364	1.33E-06	1.29E-05
102549174	LOC102549174	0.214197	0.63500103	0.790276
108350391	LOC108350391	0.214197	0.63500103	0.790276
108350547	LOC108350547	0.214197	0.63500103	0.790276
108350563	Fam180b	0.214197	0.63500103	0.790276
312793	Gsg1	0.214197	0.63500103	0.790276
498328	Pkd2	0.21416	5.50E-06	4.76E-05
288204	Crybg3	0.214097	4.45E-07	4.68E-06
680155	Fam208a	0.214071	3.34E-08	4.16E-07
103689928	LOC103689928	0.214038	0.30019353	0.496844
684297	Kdm7a	0.213931	1.22E-05	9.85E-05
314836	Zfc3h1	0.213865	2.89E-11	5.35E-10
366669	Syne2	0.213854	1.12E-13	2.66E-12
296936	Iqub	0.213748	0.18917411	0.361947
140928	Pde11a	0.213696	0.00546459	0.022343
315072	Mroh4	0.213636	0.64930512	0.801791
24165	Ada	0.21359	0.0240162	0.075777
89789	Lbr	0.213301	0.02309335	0.073376
116711	Ceacam9	0.21326	0.37416761	0.570721
311723	Sox18	0.21317	0.03692362	0.106209
497932	Pik3r6	0.213167	0.13424451	0.284234
171296	Myo9a	0.213033	6.97E-13	1.52E-11
252916	Rab38	0.212826	0.06684755	0.169454
100363372	LOC100363372	0.212571	0.07271612	0.181054
312248	Ubn2	0.212419	3.36E-10	5.49E-09
304798	Mdm4	0.212386	1.96E-17	6.11E-16
360202	Ston1	0.212281	5.71E-07	5.92E-06
29734	Hspa13	0.212276	2.88E-05	2.16E-04
246759	Cxcl9	0.212147	0.22251244	0.404984

299356	Syne3	0.211904	0.00100948	0.005216
116640	Tnc	0.211856	3.35E-14	8.40E-13
498828	RGD1563861	0.211773	0.77106042	0.880017
305633	Antxr2	0.211753	2.40E-10	4.02E-09
50557	Pten	0.21174	2.74E-12	5.60E-11
24750	RT1-N3	0.211696	0.00292642	0.013151
367733	Rpgr	0.211527	0.01906751	0.062991
500035	LOC500035	0.211507	0.23514092	0.421523
81511	Lat	0.21128	0.47138161	0.661811
363326	Dennd1c	0.211163	0.09784	0.224962
103693583	LOC103693583	0.211047	0.22814903	0.412601
103693647	LOC103693647	0.211011	0.91334485	0.964494
303970	Bbx	0.210948	0.00946352	0.035423
499874	Mga	0.210898	1.02E-07	1.20E-06
364785	Suv39h2	0.210687	0.00701593	0.027567
287924	Yars2	0.210541	0.02970297	0.089452
100362725	Cdk15	0.210385	0.18324615	0.353589
288167	Senp7	0.210359	1.43E-04	9.18E-04
366140	Fjx1	0.210325	0.03109232	0.092741
303946	Usf3	0.210192	6.57E-06	5.57E-05
245975	Setd4	0.210137	1.16E-05	9.43E-05
310233	Zfp704	0.2101	3.85E-04	0.002237
306574	Slc25a15	0.210041	0.00635825	0.025434
501559	Bclaf3	0.209981	0.00122032	0.006132
309684	Itgb2	0.209955	0.02099817	0.068058
56817	Kcnip2	0.209883	0.00674291	0.026676
691306	Tmem202	0.209851	0.21375073	0.394084
315055	Dennd3	0.209779	0.02244845	0.071709
360835	Cdh19	0.209624	4.13E-23	1.73E-21
63880	Dnajc3	0.209594	1.36E-04	8.76E-04
360764	Zfp655	0.209578	1.48E-07	1.69E-06
298686	Ccn12	0.209574	1.65E-15	4.56E-14
29591	Tgfbr1	0.209518	1.03E-06	1.02E-05
24771	Sdc4	0.209501	1.02E-07	1.19E-06
307726	Chd9	0.209417	4.49E-12	9.03E-11
100360057	LOC100360057	0.209347	0.68839617	0.827318
117515	2-Sep	0.209266	4.19E-26	2.04E-24
314319	Prox2	0.209144	0.58800689	0.753581
498115	Ccdc188	0.209144	0.44360657	0.636469
689897	Crygs	0.209144	0.58800689	0.753581
171043	Fbxo32	0.209144	0.25048327	0.438461
298429	Rad541	0.209144	0.31083186	0.506095
690895	Zfp426	0.209035	1.59E-05	1.25E-04
314964	Phf2011	0.209009	1.45E-08	1.92E-07
29302	Itgb3	0.20897	0.01255238	0.044684
680586	Rc3h1	0.208942	2.39E-13	5.44E-12
361317	Rbm27	0.208942	6.16E-05	4.30E-04
363795	Lmln	0.208803	1.16E-06	1.13E-05
690155	LOC690155	0.208649	6.47E-04	0.003528
304127	Bach1	0.208412	0.00153958	0.007526
296653	Phf19	0.208368	0.23859456	0.425671
361597	Fes	0.208067	0.08363583	0.201269
317218	Itm2a	0.208035	1.28E-12	2.70E-11
304832	Cdc73	0.207983	0.01852918	0.061581
315084	Gsdmd	0.207983	0.01852918	0.061581
361856	Tube1	0.207936	0.07869696	0.192078

303141	Rapgef6	0.207859	4.22E-08	5.18E-07
24446	Hgf	0.207854	0.0414744	0.116364
288652	Rilpl2	0.207854	0.00393602	0.016906
25424	Ctse	0.207808	0.20534954	0.382482
360482	Tfap4	0.207678	0.02778117	0.084913
288604	Tmem270	0.207513	0.41824937	0.614011
316021	Epm2aip1	0.207282	1.47E-44	1.23E-42
680611	Bcl3	0.207246	0.00897599	0.033864
303250	Ybx2	0.207052	0.21678588	0.398061
100364016	LOC100364016	0.207034	0.25049326	0.438438
108348215	LOC108348215	0.206973	0.69685134	0.83343
494322	Pms1	0.206881	0.00796741	0.030692
24575	Mx1	0.206796	7.38E-04	0.003972
317165	LOC317165	0.206741	0.32328368	0.518523
311655	Mocs3	0.206707	0.02230534	0.071336
116744	Lpar1	0.206617	2.91E-16	8.40E-15
287464	Dhx33	0.206597	0.00494045	0.020517
305509	Adcy1	0.206554	6.39E-15	1.68E-13
108353169	LOC108353169	0.206489	0.20677238	0.384456
360625	Krt12	0.206227	0.54751221	0.728423
679342	LOC679342	0.206227	0.39497013	0.592206
296787	Sema3c	0.206072	7.13E-17	2.16E-15
117025	Rhbd11	0.206065	0.02346811	0.074306
500595	Smim1	0.206059	0.0273245	0.083813
365018	Zcchc14	0.206056	1.03E-05	8.47E-05
361946	Supt20h	0.206034	2.70E-08	3.41E-07
500501	Caap1	0.205841	0.00337107	0.014834
29558	Fcgrt	0.205829	1.28E-08	1.71E-07
690422	Tedc1	0.205734	0.0023676	0.010947
445269	C5ar2	0.205578	0.0505497	0.13592
29407	Tas1r1	0.20551	0.44753492	0.639599
25322	Hsd17b1	0.205455	0.3208452	0.516046
499772	Ier51	0.20534	0.01388715	0.048537
361585	Ube3a	0.205224	1.31E-11	2.52E-10
207122	Pkn2	0.205214	2.19E-07	2.42E-06
171068	Pou2f1	0.205046	0.01008688	0.037316
25197	St6gal1	0.204768	2.60E-10	4.32E-09
252889	Tmed7	0.204643	1.12E-15	3.14E-14
362391	Mxd1	0.204636	0.00307778	0.013744
59328	Smad5	0.204579	5.37E-08	6.51E-07
498944	Tsnaxip1	0.20444	0.5839595	0.750287
29436	Tfpi	0.204367	3.47E-05	2.56E-04
294806	Clqtnf3	0.204327	0.5118849	0.697767
497955	Tlcd2	0.204327	0.42179149	0.617307
681178	Pcgf5	0.204327	0.0141205	0.049227
85471	Gata3	0.204327	0.5118849	0.697767
503257	Nemp2	0.204327	0.10813417	0.242199
100360087	LOC100360087	0.204326	3.12E-05	2.33E-04
100911305	LOC100911305	0.204217	0.08095014	0.196432
316403	Mars2	0.204217	0.08095014	0.196432
305477	Dusp18	0.204162	1.36E-10	2.33E-09
298655	H6pd	0.204064	9.86E-05	6.55E-04
685081	LOC685081	0.203986	0.44219966	0.635024
363126	Nphp3	0.203869	0.08676979	0.206696
207120	Nudt6	0.203833	0.09921004	0.227153
498850	Pcdhga12	0.203777	0.08653319	0.206209

295171	Sh3d19	0.203741	6.30E-20	2.22E-18
689949	Zfp185	0.203741	0.28481066	0.47896
363674	Stac2	0.203606	0.33515249	0.531738
310258	Phc3	0.20349	6.83E-14	1.66E-12
312952	Impad1	0.203472	6.43E-06	5.47E-05
100360522	LOC100360522	0.203421	1.04E-05	8.51E-05
307452	RGD1305704	0.203283	3.36E-06	3.03E-05
291610	Spry4	0.203114	9.76E-06	8.04E-05
305353	Tlr6	0.202913	0.00909289	0.034251
296311	Cnbd2	0.202794	0.03427342	0.100159
25567	Tnr	0.202704	7.66E-04	0.004101
301676	Foxn2	0.202621	1.27E-05	1.02E-04
100912393	LOC100912393	0.202582	0.61390116	0.774442
364993	Pskh1	0.202179	0.09620053	0.222226
678739	Phka2	0.202179	0.09620053	0.222226
302582	Klf8	0.202085	0.01525314	0.052617
116510	Timp1	0.20204	5.07E-10	8.12E-09
306278	Lrrc18	0.202002	0.59435566	0.758731
364241	Kcnk5	0.202002	0.04630879	0.127413
685823	Xpnpep3	0.202001	0.00498369	0.020669
54349	Aox1	0.201915	2.22E-06	2.07E-05
303991	Hoxd10	0.201908	0.02293751	0.072953
60447	Clock	0.201755	2.97E-10	4.88E-09
100134827	Hiatl3	0.201722	1.13E-07	1.31E-06
301164	Kat2b	0.201682	1.39E-12	2.93E-11
170841	Mutyh	0.20164	0.10101863	0.230297
287657	Gpr179	0.201629	0.46420977	0.65488
290722	Cep44	0.20162	0.02399216	0.075713
309243	Vps13a	0.201606	1.04E-10	1.79E-09
360899	Sertad4	0.201597	0.00192127	0.009143
103690006	LOC103690006	0.20157	4.27E-06	3.78E-05
360596	Msi2	0.201567	7.00E-09	9.63E-08
301624	D2hgdh	0.201526	7.98E-04	0.004247
116663	Dusp6	0.201519	2.98E-04	0.001776
192280	Ppplr3b	0.201416	0.02814173	0.085726
684015	Ankmy1	0.201411	0.05440779	0.144277
312678	Kdm5a	0.20139	1.75E-08	2.27E-07
303132	Aff4	0.20134	5.23E-24	2.29E-22
100910385	LOC100910385	0.201325	0.20824502	0.386326
619382	Acap2	0.201291	1.25E-09	1.91E-08
314543	Gulp1	0.201256	6.61E-07	6.76E-06
310358	Plcx3	0.201254	1.58E-04	0.001007
301431	Nif311	0.201238	6.55E-04	0.003567
100912658	LOC100912658	0.201195	0.34899928	0.545795
287472	Tlcl1	0.201116	0.00309003	0.013792
307169	Mast1	0.201056	0.13479373	0.28489
313304	Stag2	0.200946	2.53E-12	5.18E-11
83618	Rest	0.200868	0.00174465	0.008395
292994	Tjp1	0.200755	1.02E-16	3.05E-15
100911515	LOC100911515	0.200715	0.00321232	0.014254
102551403	LOC102551403	0.200699	0.01086727	0.039649
307251	Rnf165	0.200633	0.55291281	0.733047
361975	Lrba	0.200633	6.87E-05	4.74E-04
308937	Wee1	0.20059	1.98E-05	1.53E-04
308021	Syde2	0.200559	0.00431555	0.018277
24914	Lox	0.200554	1.30E-04	8.41E-04

309922	Rhobtb3	0.200522	2.26E-08	2.89E-07
292073	Galns	0.200118	0.00262889	0.011981
307429	Dmxl1	0.200086	4.51E-12	9.07E-11
100364265	LOC100364265	0.199957	1.62E-13	3.78E-12
313417	Wdr78	0.19992	0.01299751	0.046028
313609	Pdik11	0.199869	0.01118355	0.040624
293654	Doc2g	0.199847	0.29349597	0.489331
81810	Tgfbr2	0.199775	2.24E-26	1.11E-24
64022	Btc	0.19973	0.51659902	0.701757
311144	Itga4	0.199454	0.03030521	0.090792
500727	Cdca4	0.199397	0.01792605	0.059969
29428	Celf2	0.19927	2.76E-12	5.64E-11
102553088	LOC102553088	0.199091	0.48426517	0.672463
310859	Tet2	0.19906	3.26E-05	2.42E-04
140585	Ryk	0.199051	6.74E-06	5.71E-05
117050	Arl5a	0.199028	1.53E-16	4.48E-15
103692066	LOC103692066	0.198911	1.41E-04	9.08E-04
103690114	LOC103690114	0.19885	0.03525307	0.102245
103690163	LOC103690163	0.19885	0.03525307	0.102245
24807	Tacr1	0.19885	0.22853986	0.413072
29650	Adam10	0.198845	3.02E-19	1.04E-17
364529	Calr3	0.198721	0.14139666	0.29466
59105	Milr1	0.198516	0.36816862	0.564328
362191	Dph6	0.198464	0.01043374	0.038406
308431	Phldb3	0.198418	0.27650073	0.469002
361400	Nfatc3	0.198384	1.97E-07	2.19E-06
310418	Frem2	0.198358	0.17843571	0.347298
367846	Sp3	0.198342	1.58E-06	1.51E-05
305448	Dok7	0.198288	0.06370208	0.163571
315131	Kdelr3	0.198234	7.30E-06	6.15E-05
314393	Trip11	0.198075	3.04E-11	5.61E-10
365266	Atp10a	0.197917	0.01767154	0.059273
116598	Pdia4	0.197791	1.90E-11	3.58E-10
100911572	LOC100911572	0.197787	0.05950079	0.155104
58952	Cpq	0.197777	1.59E-08	2.08E-07
317213	Brwd3	0.197682	0.01294141	0.045855
302248	Nid2	0.197639	1.49E-12	3.13E-11
100909697	Slc25a51	0.197635	1.25E-06	1.22E-05
81722	Ager	0.197605	0.20651309	0.384011
690489	Cys1	0.197536	0.0164281	0.05581
64366	Calu	0.197531	4.02E-23	1.69E-21
680317	Endou	0.19751	0.36165329	0.558114
304893	Rasa12	0.197439	3.81E-07	4.05E-06
500797	Misp	0.197422	0.18804389	0.360364
295568	Hl1f	0.197382	1.36E-04	8.76E-04
313308	Thoc2	0.19736	5.95E-08	7.16E-07
361680	Lsp1	0.197356	0.00279172	0.012644
315593	Tmem136	0.197341	0.34258575	0.539263
361153	Fam149a	0.19733	3.70E-04	0.00216
266762	Mrgprf	0.197221	0.0011774	0.005951
499856	Fibin	0.197132	0.04511132	0.124821
24941	Atp7a	0.197002	1.91E-06	1.80E-05
297480	Foxp1	0.196834	2.81E-04	0.001687
25096	Pld1	0.196719	1.02E-05	8.36E-05
100361079	LOC100361079	0.196635	0.17863646	0.34744
296102	E113	0.196631	3.86E-06	3.45E-05

499401	Znrclas1	0.196554	0.03558303	0.103053
315843	Phip	0.19633	4.38E-06	3.86E-05
25466	Illrap	0.196325	0.00713634	0.02796
288174	Nit2	0.196082	5.38E-04	0.002986
116967	Magt1	0.196013	0.00490186	0.020383
690745	1-Mar	0.195983	0.01742136	0.058599
304786	Elk4	0.195969	5.49E-07	5.70E-06
24459	Hoxc4	0.195932	0.01442266	0.050142
25603	Marcks	0.195912	8.04E-14	1.94E-12
170630	Fgf12	0.195909	7.25E-47	6.42E-45
171070	Ptpn21	0.195908	0.0022228	0.010345
80897	Erap1	0.195884	6.19E-08	7.43E-07
171135	Slc31a1	0.195855	0.00131871	0.006573
499797	RGD1560248	0.195624	3.26E-15	8.80E-14
293173	Far1	0.195507	5.19E-20	1.85E-18
498097	Wdr53	0.195413	0.02195315	0.070458
303019	Neur11b	0.195338	0.38504191	0.581763
24367	Fgg	0.195338	0.79339402	0.893512
246263	Acsm2	0.195338	0.79339402	0.893512
287668	Lrrc3c	0.195338	0.79339402	0.893512
291853	Drc7	0.195338	0.71109129	0.841477
294255	Slc44a4	0.195338	0.52117456	0.705607
29440	Slc26a4	0.195338	0.79339402	0.893512
298702	Icam4	0.195338	0.79339402	0.893512
304379	Zan	0.195338	0.71109129	0.841477
363072	Tbcd21	0.195338	0.79339402	0.893512
363493	Taf71	0.195338	0.71109129	0.841477
686660	LOC686660	0.195338	0.79339402	0.893512
688510	Ripor3	0.195338	0.28020165	0.473635
689918	Sox30	0.195338	0.79339402	0.893512
80840	Gpr12	0.195338	0.79339402	0.893512
501174	Pid1	0.195338	0.08233584	0.199046
103694869	LOC103694869	0.195335	5.63E-04	0.003113
108353281	LOC108353281	0.195147	0.54372266	0.725103
313340	Dennd4c	0.195009	9.48E-06	7.83E-05
303638	Abca8a	0.194989	6.35E-77	9.52E-75
499539	Lmbrd2	0.194894	9.21E-07	9.21E-06
499690	Tmem167b	0.19488	0.00502542	0.020815
192350	Cdk12	0.194748	2.39E-05	1.82E-04
499255	Knop1	0.19472	0.01720195	0.057974
311030	Stam2	0.194715	1.75E-04	0.001099
290029	Pnp	0.194686	1.34E-08	1.78E-07
83515	Ptbp3	0.194662	2.21E-12	4.53E-11
363268	Fbxo36	0.194561	0.13320398	0.282817
315291	Ccnt1	0.194504	4.14E-04	0.002383
302697	Eif1ax	0.194381	2.19E-12	4.52E-11
114861	Scpep1	0.194361	5.53E-09	7.71E-08
103693699	LOC103693699	0.194353	0.18281315	0.353004
362591	Mtf1	0.194338	6.14E-05	4.29E-04
287170	Snrnp25	0.194271	0.01049003	0.038568
364994	Dpep3	0.194256	0.70305858	0.837592
305850	Rpgrip1	0.194203	0.13533501	0.285559
317439	Wwc3	0.19409	4.45E-06	3.91E-05
502715	Lrrc17	0.194087	0.07593734	0.186948
315297	Nckap51	0.194027	5.69E-10	9.05E-09
100910258	LOC100910258	0.194017	0.17878397	0.347585

64630	Snap23	0.193956	0.00596435	0.024005
24890	Esr1	0.193835	0.062422	0.16087
100910771	LOC100910771	0.193787	0.21869161	0.400325
500441	RGD1561916	0.193742	0.29676301	0.49331
103692307	LOC103692307	0.193684	7.64E-05	5.22E-04
170636	Pnma1	0.193636	0.31249675	0.507677
290686	Tma16	0.193636	0.01336146	0.047045
29227	Nfib	0.193619	1.23E-05	9.95E-05
681429	Rps271	0.193569	0.00878333	0.03321
498533	Fam167a	0.193478	0.01064637	0.038992
310969	Ifi44	0.193425	5.39E-05	3.81E-04
360868	Sft2d2	0.193386	1.03E-04	6.83E-04
309003	Zfp646	0.193381	1.67E-04	0.001056
363930	Selplg	0.193377	0.103631	0.234763
406163	Gpsm3	0.193377	0.03563254	0.103181
378947	Bst2	0.193363	0.0019001	0.009054
691920	Stard9	0.193318	4.70E-07	4.92E-06
360254	Brca2	0.193143	0.04730549	0.129426
25252	Dlg1	0.193101	5.67E-05	3.99E-04
302965	Tnfrsf12a	0.192893	0.06052373	0.157104
680723	Tmem88b	0.192866	0.02721204	0.083522
363872	Zscan25	0.192851	0.05358984	0.142445
64566	Wnt5a	0.192795	0.01009217	0.037321
100126191	Rab1b	0.192782	1.33E-09	2.02E-08
689296	Mis18bp1	0.192745	0.06855756	0.172892
691921	LOC691921	0.192664	0.25683535	0.445932
108349511	LOC108349511	0.192495	0.51869439	0.703599
266773	Zfp709	0.192487	0.00149779	0.007354
294601	S1f1	0.192335	0.02345719	0.074284
361935	Spata5	0.192296	0.02440319	0.07663
59266	Hcn4	0.192282	0.00586487	0.023695
100174910	LOC100174910	0.192266	0.03475518	0.10121
289883	Tmed5	0.192236	8.69E-05	5.85E-04
315745	Fem1b	0.192202	6.90E-05	4.76E-04
116509	Slc6a9	0.192081	0.07130685	0.178197
501658	Vma21	0.191822	7.05E-08	8.41E-07
361197	Ercc612	0.191812	3.92E-05	2.85E-04
687707	LOC687707	0.191727	0.49233308	0.679702
24986	RT1-Ha	0.191663	0.84740777	0.9237
299805	Cnot2	0.191662	1.62E-08	2.13E-07
290705	Nek1	0.191542	1.37E-08	1.82E-07
304336	RGD1566386	0.191511	0.02923979	0.088364
307901	Tlhc1	0.191477	0.01680014	0.05675
295297	Etv3	0.191439	4.93E-05	3.51E-04
313790	Lacc1	0.191361	4.05E-06	3.60E-05
300944	Xrn1	0.191322	1.74E-05	1.36E-04
500789	Gipc3	0.191227	0.06963893	0.174924
24483	Igf2	0.191151	3.03E-05	2.26E-04
308821	Rab30	0.191149	4.19E-08	5.16E-07
312974	Chd7	0.191078	0.00251633	0.011537
100359865	Hrct1	0.190927	0.01075229	0.03929
499742	LOC499742	0.190811	1.64E-04	0.001037
305828	Socs4	0.190707	0.11059068	0.246454
102551085	Xrcc3	0.190641	0.00743015	0.028873
102552551	Smim6	0.190562	0.39670127	0.59396
108348175	LOC108348175	0.190556	1.14E-19	4.01E-18

309465	Gsto2	0.190469	0.02276522	0.072466
24974	RT1-A2	0.190438	1.07E-16	3.18E-15
114845	Klf3	0.190382	1.46E-05	1.16E-04
282587	Cttnbp2	0.190369	2.37E-04	0.001454
681766	Stpg4	0.19032	0.56313866	0.734386
317253	Nhs12	0.190266	6.04E-04	0.003312
81717	Ctbp2	0.190234	0.00599481	0.024097
288106	Ccdc191	0.190152	0.16396742	0.327746
310946	Lrrc40	0.190099	1.20E-05	9.69E-05
103690064	LOC103690064	0.190093	1.23E-07	1.42E-06
291787	Rbbp8	0.190089	3.95E-05	2.87E-04
361149	Ankrd37	0.189972	0.33373485	0.52993
308594	Ccdc114	0.189779	0.43855769	0.632273
299907	Ext1	0.189743	9.68E-05	6.44E-04
497923	Zfp286a	0.189732	0.04927096	0.133651
54248	Dgkb	0.189668	8.99E-05	6.02E-04
685487	Znrf3	0.189656	0.22599904	0.409685
65032	Htr7	0.189581	0.12784388	0.274497
294429	Ranbp2	0.189578	1.06E-17	3.36E-16
316238	Rsph9	0.189462	0.28744039	0.481978
365038	Samd5	0.189394	0.23717081	0.424203
300743	Lman11	0.189106	0.60619014	0.768635
301000	Uba7	0.189106	0.03354091	0.098472
307900	Kcng4	0.189054	0.00448465	0.018892
362798	Ncapg2	0.188988	0.06573728	0.167308
100362123	Rex2	0.188952	0.02959382	0.089194
361253	Sugct	0.188912	0.15145204	0.308558
309106	Sigirr	0.18879	0.26159779	0.451198
102556425	LOC102556425	0.188747	0.12383373	0.268673
363985	Slc41a1	0.188619	2.63E-06	2.43E-05
100910882	LOC100910882	0.188556	1.88E-13	4.33E-12
408223	Usp54	0.188555	1.71E-08	2.22E-07
108351267	LOC108351267	0.188448	0.34282848	0.539512
293997	Kazald1	0.188439	0.27497327	0.466994
304592	Orai2	0.188409	4.28E-08	5.25E-07
299811	Cpsf6	0.188267	1.43E-12	2.99E-11
360640	Map3k14	0.188249	0.04121699	0.115864
103692234	LOC103692234	0.188249	0.89175099	0.951611
100911548	LOC100911548	0.188238	0.10052516	0.229474
100911986	LOC100911986	0.188178	0.29090451	0.486245
312115	Col28a1	0.187984	1.48E-12	3.11E-11
24864	Pgc	0.187908	0.41646895	0.612341
291539	Psmg2	0.187892	0.00212188	0.009956
501647	Fam122b	0.18788	0.04591405	0.126564
24603	Npr1	0.187836	0.13999327	0.292889
25333	Mgp	0.187831	2.38E-16	6.92E-15
295985	Mettl15	0.187767	0.05118285	0.137331
100359879	Tmem91	0.187725	0.19033428	0.363364
689499	Stum	0.187611	0.00367409	0.015983
192205	Prok1	0.187575	0.56592216	0.736352
360272	Slit2	0.187469	1.17E-09	1.79E-08
100364165	Nktr	0.187441	6.37E-14	1.56E-12
363073	Glce	0.187439	2.79E-13	6.31E-12
311328	Rmdn3	0.187359	6.11E-06	5.23E-05
25749	Clcn5	0.187269	0.00135525	0.006727
29427	Aif1	0.187235	0.03576723	0.103445

313387	Usp1	0.187178	0.00345397	0.015171
311182	Nup160	0.187177	0.00309955	0.013828
688765	LOC688765	0.187124	0.07569806	0.186503
108348125	LOC108348125	0.187118	0.07564214	0.18639
361394	Lrrc36	0.187118	0.23996418	0.427353
29503	Slc22a2	0.187118	0.52993567	0.712555
302976	Noxol	0.187118	0.83872161	0.919547
103691225	LOC103691225	0.187032	0.80576241	0.900678
365238	LOC365238	0.186958	0.06326052	0.162722
171120	Jmjd1c	0.186919	2.41E-08	3.05E-07
689102	Chml	0.186893	0.12948846	0.276873
140938	Psmc3ip	0.186847	0.16761903	0.33184
311088	Cob111	0.186824	1.78E-04	0.001119
361941	RGD1359508	0.186816	0.19139436	0.364547
311093	Csrnp3	0.186799	0.12816793	0.274914
309798	Gcc2	0.186793	9.11E-08	1.07E-06
363231	Rftn2	0.186644	0.01511477	0.052196
360560	RGD1304728	0.186517	0.00203258	0.009579
311854	Tor1b	0.186454	0.00203904	0.009607
297910	Slc26a7	0.186405	0.14148746	0.294817
102555377	LOC102555377	0.186359	0.00890799	0.033635
295293	Pear1	0.186346	3.53E-07	3.78E-06
361104	Zcchc24	0.186275	2.20E-12	4.53E-11
303060	Pwpp2a	0.186155	4.69E-04	0.002652
307645	Adgrg5	0.186139	0.4694317	0.659705
690693	Ddx19b	0.186063	8.95E-05	6.01E-04
293849	Zfp275	0.185947	9.55E-04	0.004972
315346	Itga5	0.185915	0.00914095	0.034398
294019	Calhm2	0.185842	0.07362616	0.182746
102551340	LOC102551340	0.185791	0.00149237	0.007335
304850	Rnf2	0.185676	3.61E-04	0.002114
65261	Myo1c	0.185626	3.03E-09	4.39E-08
363484	Chic1	0.185562	8.56E-05	5.77E-04
306137	Rbm26	0.185557	1.37E-05	1.09E-04
691981	Spem1	0.185557	0.56798577	0.737928
81685	Mlh1	0.185423	0.03396407	0.09953
298908	Kcnf1	0.185312	0.00171271	0.008262
499716	Dnajb14	0.185145	0.00205426	0.00966
304061	Brwd1	0.185129	5.68E-06	4.90E-05
100359523	LOC100359523	0.185029	0.13177169	0.280621
103693812	LOC103693812	0.185002	0.77557557	0.882895
315804	Rfx7	0.184985	1.04E-05	8.50E-05
500592	Tnfrsf25	0.184897	0.09851901	0.226114
308790	Mex3b	0.184798	0.03697182	0.106316
114520	Strn3	0.184729	1.64E-08	2.14E-07
24361	Fancc	0.184612	0.00409629	0.0175
292064	Banp	0.184555	4.11E-06	3.64E-05
103692905	LOC103692905	0.184512	0.03816325	0.108952
305467	Sfi1	0.18439	3.21E-06	2.91E-05
291635	Pcdhga7	0.184236	5.63E-05	3.96E-04
366595	Syp11	0.184233	3.59E-07	3.84E-06
688790	Pmp2	0.184222	3.65E-47	3.31E-45
294074	Cep55	0.18414	0.35899742	0.555907
499110	Zfp780b	0.184107	0.01588414	0.05434
65218	Agap2	0.184023	0.00108724	0.005553
25426	Cyp11b1	0.183863	2.58E-06	2.39E-05

100361383	Ecm2	0.18382	0.02837352	0.086294
498407	Purb	0.183771	6.49E-05	4.50E-04
299706	Nup37	0.18371	0.0470874	0.129014
306571	Kat6a	0.183702	1.81E-07	2.03E-06
108350588	LOC108350588	0.183697	0.14694455	0.302351
295340	Rplp011	0.183686	0.89495819	0.953644
303443	Stxbp4	0.183657	0.00620929	0.02487
25667	Bmp3	0.183501	0.37877659	0.57586
361147	Primpol	0.183434	0.02437963	0.076606
29360	Selenop	0.183371	9.61E-47	8.47E-45
289229	Vangl2	0.183311	0.20746889	0.385262
316516	Tmbim1	0.183311	1.59E-07	1.80E-06
24811	Tap1	0.183274	0.00310243	0.013837
307449	Mcc	0.183266	0.71963708	0.846802
365581	Edar	0.183266	0.61171751	0.773018
291078	Prpf4b	0.183213	1.32E-10	2.25E-09
100529260	Ankhd1	0.183159	1.74E-07	1.95E-06
296968	Lrguk	0.18302	0.00505239	0.020909
310968	Ifi441	0.182901	0.15801375	0.318486
102553002	Zscan22	0.182826	0.00165505	0.008002
503053	LOC503053	0.182763	0.1940665	0.367981
366791	Rdh5	0.182602	0.29619457	0.492752
685451	Gng13	0.182571	0.71287706	0.842491
362597	Evalb	0.182514	0.01626027	0.055319
499360	Slf2	0.182459	8.04E-05	5.45E-04
282822	Trpc7	0.182283	0.68779467	0.826856
313418	Mier1	0.182279	1.74E-07	1.95E-06
310399	Naa15	0.18227	4.71E-12	9.45E-11
689065	LOC689065	0.182268	0.61001998	0.771641
299940	Sntb1	0.182216	2.01E-07	2.24E-06
298316	Nkrf1	0.182174	0.02134609	0.068998
58868	Fzd1	0.182153	1.48E-05	1.17E-04
29497	Ptbp1	0.182082	5.35E-09	7.49E-08
298487	Cldn19	0.182066	3.04E-24	1.35E-22
171436	Mk1	0.182054	5.40E-05	3.81E-04
304007	Cep97	0.181963	0.00296645	0.013309
59296	Dnase2b	0.181871	0.65001557	0.802304
361838	Hnrnp3	0.181761	2.93E-04	0.00175
295588	Rnd3	0.181722	1.90E-04	0.001186
102554881	LOC102554881	0.181663	0.50373226	0.690509
361415	Dynlrb2	0.181663	0.50373226	0.690509
691221	Faxdc2	0.181653	4.35E-07	4.58E-06
25124	Stat1	0.181609	3.47E-12	7.06E-11
308738	Chd2	0.181602	2.83E-10	4.67E-09
365770	Bbs12	0.181553	0.13350878	0.283275
685202	Efcc1	0.181487	9.76E-04	0.005068
499356	Blnk	0.181399	0.12971544	0.277141
361388	Gab1	0.181389	1.11E-13	2.63E-12
102555274	Zfp853	0.181352	0.12198864	0.26573
303963	Dzip3	0.181297	8.30E-07	8.35E-06
100359861	Smim15	0.181257	1.13E-04	7.39E-04
114110	Flt4	0.181231	0.2364265	0.423349
316344	Rev1	0.181186	6.86E-04	0.003712
498289	Opn3	0.181031	0.02403866	0.075835
299012	Arhgap5	0.180896	7.08E-12	1.39E-10
314824	Osbpl8	0.180887	3.99E-10	6.46E-09

29335	Oprk1	0.180879	0.00961144	0.035864
102553845	LOC102553845	0.180806	0.63522804	0.790352
362739	Ppp2r3c	0.180779	2.17E-05	1.67E-04
64679	Tgm4	0.180729	0.63009478	0.787102
361245	Cmahp	0.180695	0.5734029	0.742434
102555453	LOC102555453	0.180631	2.49E-10	4.16E-09
680111	Rbl1	0.180611	0.24817405	0.436908
298878	Osr1	0.180597	0.15953946	0.320983
294519	Cep57l1	0.18048	0.01020002	0.037625
25663	Il1r1	0.180462	0.00401725	0.017205
362728	Twistnb	0.180397	0.00380903	0.016468
317494	Nhs	0.180373	0.00561826	0.022829
100910046	LOC100910046	0.180241	2.74E-04	0.001654
300125	Ttc38	0.180225	0.00238351	0.011013
89824	Chi3l1	0.180176	0.03270067	0.096556
64046	Mrell1a	0.18008	0.00161621	0.00784
315798	Zfp280d	0.179986	4.56E-06	4.01E-05
312781	Lrp6	0.179953	3.29E-06	2.97E-05
304092	Son	0.179905	1.64E-35	1.14E-33
314119	Zxdb	0.179637	0.00577725	0.023395
312855	Ppfibp1	0.179637	3.76E-09	5.42E-08
246301	Ascl3	0.179571	0.66339292	0.808208
501996	Il25	0.179571	0.66339292	0.808208
83476	Cyr61	0.179538	1.94E-04	0.001208
499877	Ubr1	0.179487	2.97E-06	2.71E-05
29433	Pak3	0.17945	9.14E-09	1.24E-07
25690	Ahr	0.179436	1.07E-04	7.03E-04
310812	Plppr5	0.179358	0.14309462	0.29732
309460	Sh3pxd2a	0.179317	1.68E-29	9.29E-28
313325	Lad1	0.179298	0.06754947	0.17087
361598	Iqgap1	0.179281	1.35E-12	2.85E-11
259171	Dclrelc	0.179274	0.02871236	0.087074
296074	Fsip1	0.179231	0.40870575	0.604943
291463	Ppic	0.17909	0.0035477	0.015507
313373	Cyp2j10	0.179057	0.00805733	0.030957
298476	Olr867	0.179016	0.92791908	0.973944
115769	Tjp2	0.178964	1.01E-06	9.99E-06
317673	Bbc3	0.178916	0.14960866	0.305817
691042	Sbf2	0.178826	1.01E-08	1.36E-07
301261	Enpp4	0.178818	3.91E-11	7.06E-10
114560	Rap2a	0.178796	0.15560799	0.315004
688133	Mbtd1	0.178755	0.00194089	0.009216
266670	Riox2	0.178728	0.04960726	0.134315
314787	Cep290	0.178676	0.00808967	0.031056
304721	Pdxdc1	0.17865	4.45E-05	3.21E-04
311494	Rin2	0.178632	3.13E-05	2.33E-04
681849	Mlip	0.178623	3.88E-12	7.87E-11
102549548	LOC102549548	0.178415	0.65868031	0.804603
81818	Vim	0.178395	2.37E-136	#####
309362	Dnmbp	0.178383	0.00723262	0.028261
310086	Mier3	0.178303	0.00195224	0.00926
502017	Dpm3	0.17808	0.00833022	0.031819
301476	Ikzf2	0.178067	0.05470655	0.144928
56759	Rnase4	0.178066	4.83E-04	0.002722
301556	Dock10	0.17806	3.70E-10	6.00E-09
287662	Pcgf2	0.178006	0.01305295	0.046164

362466	Bicd1	0.177953	1.09E-06	1.08E-05
362341	Zc3hav11	0.177935	0.14122602	0.294369
290500	Ggact	0.177904	0.01898655	0.06281
361308	Kif20a	0.177866	0.11459962	0.253461
25262	Itpr1	0.177836	0.01478743	0.051205
691002	Dhdh	0.177811	0.06741101	0.170588
361091	Uggt2	0.17778	0.00813869	0.031194
686412	Sall4	0.17778	0.61700935	0.776306
306459	Stox2	0.177641	3.98E-07	4.22E-06
360519	Rasgef1c	0.177609	6.53E-04	0.003557
103690170	LOC103690170	0.177597	0.56799956	0.737896
361753	Noc3l	0.177546	0.00162737	0.007884
501699	Myo15a	0.177527	0.25218548	0.44063
117057	Myo1b	0.177367	5.00E-06	4.36E-05
103694069	LOC103694069	0.177315	0.0995859	0.227904
501795	Prr36	0.177298	0.2414947	0.429276
308708	Ttc23	0.177191	0.00947726	0.03544
498846	Pcdhga2	0.177144	9.56E-04	0.004979
140583	Chek1	0.177118	0.15798339	0.318458
81809	Tgfb2	0.177031	5.64E-04	0.003114
293024	Akap13	0.177028	8.70E-11	1.51E-09
266767	Slc17a8	0.177022	0.18267844	0.352887
500582	RGD1565622	0.177013	0.12225257	0.266122
300225	Fmn13	0.177012	0.00429218	0.01819
500057	Zfp800	0.176981	0.02631816	0.08125
24337	ErbB2	0.176913	6.14E-04	0.003364
103694506	LOC103694506	0.176861	0.00962324	0.035901
309164	Ovol1	0.176799	0.33527695	0.531714
364395	Clqtnf9	0.176723	0.57719678	0.744991
60662	Fgf5	0.176723	0.57719678	0.744991
498333	Bmp2k	0.176647	1.51E-05	1.20E-04
361646	LOC361646	0.176631	0.00204866	0.009639
25029	Calcr1	0.17659	5.10E-04	0.002856
363016	RGD1309534	0.176365	0.00142455	0.00704
246755	Bcas1	0.176341	5.19E-09	7.29E-08
294273	RT1-DMb	0.176155	0.03495006	0.101591
83685	Capn6	0.176153	0.06033821	0.156772
102551819	LOC102551819	0.176099	0.08796177	0.208284
362526	Dnajc25	0.176025	0.17291409	0.339991
498831	RGD1562608	0.176006	0.00686036	0.027068
309349	Slitrk2	0.176001	2.56E-07	2.80E-06
103694558	LOC103694558	0.175902	0.02610991	0.080725
114206	Tmf1	0.175876	1.85E-08	2.39E-07
304486	Tctn1	0.175848	1.56E-05	1.23E-04
689909	Ccdc62	0.175786	0.05825538	0.15261
311658	Nfatc2	0.17575	0.00719881	0.028152
362106	Fubp3	0.175725	1.06E-04	7.02E-04
360840	Srgap2	0.17571	1.11E-08	1.49E-07
497886	Clqtnf2	0.175698	0.01048126	0.038543
361247	Hist1h2bd	0.17564	0.89723373	0.954947
84021	Irs3	0.175617	0.14726379	0.302779
58948	Dlg3	0.175563	0.01839492	0.061204
287275	Sec24a	0.175446	3.12E-05	2.33E-04
501194	Ppip5k2	0.175439	0.00461898	0.019393
361927	Fxr1	0.175354	8.61E-04	0.00454
103692848	LOC103692848	0.175185	0.46765285	0.658664

289777	Figl1	0.175161	0.48261907	0.671303
363170	Zkscan7	0.175115	0.06574182	0.167297
313765	Slc35e2b	0.175081	1.89E-06	1.79E-05
362342	Hipk2	0.175031	1.15E-06	1.13E-05
171100	Angpt12	0.175022	3.40E-05	2.51E-04
680076	Asb14	0.175005	0.51212882	0.697924
303208	Specc1	0.17497	2.66E-04	0.001613
246304	Cep350	0.174883	4.74E-05	3.39E-04
25306	Cpd	0.174757	3.03E-10	4.96E-09
294667	Poc5	0.174741	0.00433369	0.018329
303403	Med13	0.174727	4.26E-04	0.002438
360629	Nt5c3b	0.174725	0.00145735	0.007183
56266	Cyp4f1	0.1747	0.48345912	0.672079
312903	Tram1	0.174582	3.62E-10	5.87E-09
79238	Hmgcl	0.174518	0.04745128	0.129731
64640	Rpl30	0.174505	1.20E-09	1.84E-08
305987	Dock5	0.174504	6.42E-11	1.13E-09
301085	Fyco1	0.174492	0.0011187	0.005688
310315	Ccdc39	0.174456	0.02152587	0.069438
296456	Itgav	0.174407	1.09E-25	5.20E-24
305605	Ccdc88a	0.174311	5.92E-05	4.14E-04
58820	Zfp148	0.174248	9.90E-08	1.16E-06
114202	Mpp3	0.174117	0.0302875	0.090767
310363	Fbxo4	0.174116	0.19842667	0.37357
287990	Vps8	0.174103	3.69E-07	3.94E-06
117255	Ptpn12	0.174065	1.68E-07	1.89E-06
689933	Syce3	0.174062	0.35448863	0.551391
310538	Fnip2	0.173979	5.88E-04	0.003234
25181	Bgn	0.173803	7.64E-18	2.47E-16
362366	Fkbp14	0.173778	0.00245134	0.011274
361348	Mro	0.173771	0.14352088	0.297946
259237	Dock9	0.173663	8.88E-15	2.31E-13
309557	Epb4112	0.173562	1.27E-21	4.92E-20
103691999	LOC103691999	0.173544	0.63456899	0.7901
497903	Sowaha	0.173494	0.23606397	0.422859
192242	Akr1d1	0.173426	0.19381757	0.367655
29412	Adrala	0.173393	0.207876	0.385905
308666	Cyfip1	0.173339	3.22E-09	4.66E-08
689253	Nbeal1	0.173206	0.0065282	0.025999
84050	Enpp2	0.173181	9.50E-05	6.33E-04
100363275	Adgra2	0.173114	6.89E-09	9.50E-08
312566	Adamts9	0.173109	0.00780269	0.03013
116996	I116	0.172977	6.12E-06	5.24E-05
360760	Pan3	0.172729	2.67E-06	2.46E-05
100362170	Zfp964	0.17265	0.10006172	0.228773
103690962	LOC103690962	0.172618	0.45969243	0.650869
108352495	LOC108352495	0.172618	0.80533312	0.9007
117182	Hsd17b3	0.172618	0.72743889	0.85138
291165	Nkap1	0.172618	0.72743889	0.85138
302516	Nyx	0.172618	0.72743889	0.85138
304577	Ung	0.172618	0.27039051	0.461929
308810	Ccdc81	0.172618	0.80533312	0.9007
311613	L3mbt11	0.172618	0.25873681	0.448008
315085	Naprt	0.172618	0.02228328	0.071301
364620	Poteg	0.172618	0.80533312	0.9007
691416	Aknad1	0.172618	0.80533312	0.9007

691992	Gp1ba	0.172618	0.72743889	0.85138
303735	Rnf213	0.17258	1.89E-06	1.79E-05
501157	Rpe	0.172382	1.97E-05	1.52E-04
313228	Invs	0.172326	0.00992143	0.036826
311146	Itprid2	0.172317	1.12E-23	4.84E-22
295263	Gabpb2	0.172245	0.12622663	0.271883
306506	Pragl	0.172184	0.01822761	0.060785
494344	Ier2	0.172169	0.02023016	0.066143
100362347	Fnip1	0.172064	2.99E-04	0.001782
317420	Wnk3	0.171974	0.17079132	0.336825
24514	Jak2	0.171972	1.11E-04	7.27E-04
309381	Pyroxd2	0.171728	0.00927919	0.03485
295347	Rap1a	0.171709	4.39E-09	6.23E-08
114483	Cdk6	0.171702	0.00901514	0.033985
306022	Fndc3a	0.17165	1.78E-08	2.31E-07
63843	P2ry4	0.171646	0.11555971	0.254962
108348149	LOC108348149	0.171637	2.43E-04	0.001487
361948	Nbea	0.171503	1.83E-04	0.001144
292085	Nup133	0.171314	0.00668714	0.026516
500069	Cep41	0.171271	0.05932802	0.154718
300983	Abhd14b	0.171254	4.54E-04	0.002579
103692172	NEWGENE_1562258	0.171157	0.06593271	0.167671
293971	RGD1564433	0.171104	0.78981005	0.891479
362401	Tmem43	0.17108	9.22E-07	9.22E-06
79126	Cfi	0.171051	0.00880264	0.033276
689926	Smim5	0.170987	0.03609235	0.104164
315121	Cdc42ep1	0.170969	4.83E-07	5.04E-06
297942	Pnlsr	0.170893	1.21E-12	2.58E-11
310749	Rsbnl	0.170872	6.79E-04	0.003679
266792	Zscan26	0.1708	6.56E-06	5.57E-05
361300	Mocos	0.17076	0.00554558	0.022577
64469	Slc30a4	0.170754	8.22E-05	5.57E-04
363013	Tmem123	0.170731	0.00148709	0.007316
24907	Dmd	0.170708	2.66E-20	9.63E-19
66027	Drp2	0.170703	1.22E-51	1.22E-49
64475	P4ha1	0.170686	4.68E-10	7.51E-09
117108	B3gat1	0.170638	0.43837511	0.632154
362630	Srsf10	0.170479	7.78E-08	9.24E-07
289625	Klb	0.170421	0.46251453	0.653117
681292	Shld1	0.170421	0.29878561	0.495332
25478	Man2a1	0.170412	0.00136292	0.00676
302424	Eda	0.170403	0.00618152	0.024764
686240	Naa16	0.170359	0.00376449	0.016309
309307	RGD1311595	0.170337	4.14E-04	0.002381
689284	Rp138	0.170302	3.43E-11	6.26E-10
100910069	LOC100910069	0.170228	0.0116272	0.0419
315903	U2surp	0.170198	1.70E-08	2.21E-07
102551957	LOC102551957	0.170162	0.72349688	0.848879
497943	Gltpd2	0.170159	0.57608087	0.74408
114635	Trafdl1	0.17012	7.02E-07	7.15E-06
297508	Nampt	0.170041	6.20E-05	4.32E-04
103689969	Kdm6a	0.169901	0.00296522	0.013306
362132	Epc2	0.169616	0.00115121	0.005834
276720	Kcnj14	0.169525	0.09050954	0.212521
361714	Rasgrp2	0.169512	0.13213543	0.281207
303247	Tnk1	0.169423	0.27927817	0.472661

313270	Megf9	0.169397	1.22E-15	3.40E-14
287406	Adprm	0.169384	0.00214627	0.010056
299103	Klhl28	0.169336	0.00120195	0.006059
29695	Gabrr2	0.169322	0.76570728	0.876745
81516	Smad7	0.169275	0.09424352	0.218886
306810	Susd3	0.169052	0.41849063	0.614128
362893	Arhgap9	0.169024	0.12418341	0.268942
307016	Arhgap12	0.168979	9.42E-07	9.39E-06
292139	Shtn1	0.168924	1.67E-05	1.31E-04
362971	Mpped1	0.168896	0.13603277	0.286618
312896	Trpa1	0.168855	3.97E-11	7.16E-10
290212	Efs	0.168776	0.00218552	0.010202
360829	Ankle2	0.168649	3.89E-04	0.002255
366016	Nup188	0.1684	0.00149936	0.007356
500988	Ddx6	0.168369	6.77E-14	1.65E-12
303824	Igf2bp2	0.168345	0.16848934	0.333182
29388	Tnni1	0.168279	0.46529121	0.656114
684996	Mplkip	0.168255	0.02484736	0.077704
315045	Pop1	0.168159	0.15003908	0.306401
684293	Syt14	0.168068	0.00110083	0.005613
313592	Col8a2	0.167934	1.53E-06	1.47E-05
29618	Btg1	0.167866	2.43E-07	2.67E-06
313128	Casp8ap2	0.167849	0.01611081	0.054958
100360982	Relb	0.167799	0.04984265	0.134646
84426	Wnt4	0.167753	0.39988831	0.596902
308820	Ccdc90b	0.167631	0.00859722	0.032649
315594	Oaf	0.167619	7.97E-09	1.09E-07
300838	Tmod3	0.1676	9.24E-04	0.004831
293118	Prcp	0.167561	0.00706755	0.02773
116667	Map3k1	0.167538	0.00613317	0.024591
294343	Zfp280b	0.167528	0.17871803	0.347528
54223	Adcy4	0.167504	0.13440803	0.284391
360463	Mpv17	0.167447	0.00218143	0.010193
24605	Nras	0.167416	3.19E-11	5.86E-10
365352	Mical2	0.167295	1.27E-07	1.46E-06
287550	Tp53i13	0.167229	0.03950621	0.112197
498305	Spata17	0.16708	0.52107865	0.705577
681008	Bend4	0.166923	0.00157326	0.007665
63852	Pter	0.166852	0.09658954	0.222786
103694513	LOC103694513	0.166813	0.44346487	0.636313
367034	Zfp266	0.166691	5.50E-11	9.77E-10
25324	Htr4	0.166579	0.03030355	0.090801
108351576	LOC108351576	0.166549	0.09795999	0.225184
100911761	LOC100911761	0.166529	0.50583675	0.69267
293749	Ms4a6b1	0.166414	0.24162969	0.429476
100125361	Zfp867	0.166192	0.1646477	0.328795
363261	Mogat1	0.166192	0.46802364	0.658942
103694559	Usp9y	0.166192	0.83737023	0.919071
59264	Ltb4r	0.166192	0.67522925	0.81779
679600	Xaf1	0.166192	0.09375135	0.218142
365984	St6galnac5	0.166093	0.23868479	0.425752
498605	Lrrc25	0.166057	0.08739585	0.207434
25526	Ptgds	0.166038	1.71E-32	1.06E-30
310362	RGD1305938	0.165972	1.91E-09	2.85E-08
298977	Zfp277	0.165968	0.01123207	0.040753
291423	Setbp1	0.165949	0.00644713	0.02573

108351806	Znf660	0.165866	0.29833677	0.494889
684173	Traf5	0.165829	0.31910088	0.514108
362956	Triobp	0.165801	3.74E-06	3.35E-05
156767	Tnfrsf1b	0.165794	0.17854254	0.347399
498697	Klh13	0.165752	0.36603453	0.562188
313111	Klh132	0.165471	4.28E-04	0.002451
309338	Cstf2t	0.165468	0.00282887	0.01277
103694018	LOC103694018	0.165374	0.22110961	0.40324
684901	Zfp449	0.165316	0.02278242	0.072509
500393	Vxn	0.165299	0.42914477	0.623945
499016	Tulp4	0.165272	4.81E-09	6.80E-08
313138	Orc3	0.165209	2.97E-04	0.001773
499929	Tgif2	0.165143	0.02898419	0.087773
292771	Sipa113	0.165131	2.74E-04	0.001654
64547	Bcl2l11	0.165022	0.06383117	0.163814
360674	Bahcc1	0.165001	0.0050449	0.020882
311266	Qser1	0.164965	1.89E-05	1.47E-04
306957	Btn2a2	0.164882	0.25838891	0.447731
360714	Gtpbp8	0.164878	0.11838478	0.259601
100911674	LOC100911674	0.164838	0.04966902	0.134348
84114	Agps	0.164784	3.32E-04	0.00196
690115	Dnhd1	0.164773	0.00950647	0.035528
360851	RGD1566099	0.164751	0.09030408	0.212169
316351	Npas2	0.16475	0.32065266	0.515867
100359823	Tmem167a	0.164689	4.24E-09	6.06E-08
691254	LOC691254	0.164676	0.00578135	0.023402
102555474	LOC102555474	0.164638	0.38023398	0.577338
767613	Gpr17	0.164624	0.32659467	0.52225
363476	Yipf6	0.164624	1.71E-11	3.23E-10
363294	Twsg1	0.164594	4.36E-06	3.85E-05
108351541	LOC108351541	0.164525	0.22840125	0.4129
502084	Rwdd4	0.164424	7.02E-04	0.003794
690366	Vangl1	0.16441	0.00310811	0.013856
29502	Slc20a2	0.164408	6.16E-06	5.26E-05
305923	Zdhhc20	0.164277	3.95E-04	0.002287
309008	Inpp5f	0.1642	7.32E-14	1.77E-12
291540	Cep76	0.164099	0.01376391	0.048169
680280	Gas2l3	0.164079	4.52E-09	6.41E-08
81515	Lyn	0.163927	0.04440044	0.123141
81708	Aldh6a1	0.163911	9.01E-09	1.22E-07
64467	Entpd2	0.163859	1.23E-14	3.17E-13
89809	Rfc1	0.163629	4.52E-07	4.75E-06
494339	Zfp799	0.163612	0.01393884	0.048674
108348366	LOC108348366	0.163562	0.23161377	0.417045
502285	Vom2r80	0.163561	0.54944926	0.730031
60630	Unc5b	0.163408	0.00615699	0.024676
53982	Zfp260	0.163397	4.54E-05	3.27E-04
100909682	LOC100909682	0.163358	0.46232754	0.65295
306066	Tdrd3	0.163291	0.00550155	0.022441
690661	Zfp40	0.163271	0.00829287	0.031708
301570	Sp110	0.163158	0.00863891	0.032788
363490	RGD1561958	0.163158	0.63162532	0.788187
171122	Rab29	0.16308	0.01016604	0.037565
83498	Hnrnpab	0.163063	4.87E-13	1.08E-11
81742	Pdelc	0.162945	1.35E-11	2.57E-10
304885	Fam20b	0.162883	5.84E-10	9.26E-09

500686	Ccdc177	0.16284	0.24216598	0.430189
684024	Dusp28	0.162801	0.09040545	0.212328
64047	Lrat	0.162796	0.40545035	0.60209
362484	Plekhf2	0.162777	0.00959718	0.035832
297520	I117rc	0.162771	0.10438248	0.235932
315211	Zbed4	0.162762	0.02311761	0.073404
692004	Siah3	0.162565	0.35404413	0.551015
25425	Ctsh	0.162532	2.94E-14	7.39E-13
303764	RGD1310429	0.16251	1.11E-04	7.30E-04
361032	Armh4	0.16247	1.98E-07	2.21E-06
84584	Ncoa3	0.16241	1.21E-04	7.90E-04
360914	Plac8	0.162384	0.16742514	0.331525
296086	Ndufaf1	0.162382	6.55E-04	0.003567
361552	Wtip	0.16235	0.03586771	0.103626
688618	Gxylt2	0.16235	0.42770416	0.62285
171287	Epha7	0.162327	0.03402032	0.099634
308900	rnf141	0.162297	2.35E-13	5.36E-12
100364769	LOC100364769	0.162258	0.53270871	0.714971
498690	Ctla2a	0.162215	0.22730745	0.411469
500846	LOC500846	0.1622	0.39079561	0.587891
306994	Yae1	0.162197	0.00274436	0.01245
103690779	LOC103690779	0.162149	0.11513336	0.254228
682206	LOC682206	0.162059	0.00425161	0.018054
500316	Acrbp	0.162049	0.33923605	0.535851
108348081	LOC108348081	0.16204	0.01421635	0.049515
29547	Homer2	0.162029	0.07643321	0.187828
304135	Adamts5	0.162006	0.00303129	0.013574
103693051	LOC103693051	0.161989	0.78615232	0.888931
361501	Isoc2b	0.161976	0.19076374	0.363855
308668	Nipa1	0.16192	4.24E-09	6.05E-08
684538	Echdc3	0.161892	0.52750538	0.711044
171434	Phldb1	0.161863	6.03E-13	1.32E-11
102555826	Clec20a	0.16186	0.00795335	0.030662
364018	Ncf2	0.16182	0.35352956	0.550529
81517	Mdk	0.161801	0.00610109	0.024472
291984	Dpep2	0.1616	0.53172846	0.714058
307924	Zfp276	0.16149	0.01484541	0.051378
363210	Phf3	0.161421	6.81E-06	5.76E-05
306183	Farpl	0.161417	9.19E-05	6.14E-04
108349781	Hs3st4	0.161391	0.23317846	0.418951
300665	Hinfp	0.161362	0.01331914	0.046923
60331	Atxn3	0.161355	4.35E-05	3.15E-04
497942	Cxcl16	0.161338	0.00451943	0.019013
366205	Flrt3	0.161285	0.0061696	0.024721
303173	Zfp39	0.161278	0.09757362	0.22454
171159	Zhx1	0.161271	1.59E-09	2.39E-08
310695	Kirrel1	0.161271	3.11E-10	5.09E-09
117261	Slc15a1	0.161179	0.48569581	0.673811
361564	Fam71e1	0.161175	0.17392863	0.341246
296117	Galk2	0.161115	0.00134449	0.00668
688442	LOC688442	0.161109	0.09397363	0.218499
315914	Morc4	0.16103	0.02630983	0.08125
308265	Lats1	0.160989	1.69E-05	1.32E-04
257650	LOC257650	0.160979	0.13506312	0.285206
501127	Rfx8	0.160955	0.24338235	0.431504
687266	Fpgs	0.160937	0.01066512	0.039046

25724	Itgb4	0.160861	1.08E-62	1.35E-60
310638	Ash11	0.160856	2.91E-11	5.38E-10
314800	Acss3	0.160812	0.22993101	0.414721
289378	Tatdn3	0.160758	0.03677111	0.105818
361505	Cdc42ep5	0.160758	0.17159175	0.338124
291044	Nedd9	0.160726	0.00100531	0.005201
361183	Ankrd10	0.160689	2.27E-05	1.74E-04
102548730	LOC102548730	0.160686	0.46170286	0.652551
501854	Rab7b	0.160584	0.01190334	0.042757
362325	Mdfic	0.160522	0.00141977	0.00702
690435	LOC690435	0.160477	0.81672679	0.907924
406170	Sapcd1	0.160474	0.21168414	0.390993
102556352	LOC102556352	0.160464	0.12369465	0.268494
27080	Hbp1	0.160421	3.22E-07	3.48E-06
360492	Jpt2	0.16038	0.00280842	0.012702
689914	Trabd2b	0.160265	0.00730892	0.028501
102552069	LOC102552069	0.160261	0.72752429	0.851323
102553085	LOC102553085	0.160261	0.72752429	0.851323
289089	Ivns1abp	0.160259	7.56E-25	3.47E-23
294213	RT1-M1-4	0.160235	0.68067819	0.821776
29527	Ptgs2	0.160235	0.68067819	0.821776
498580	Tmem273	0.160235	0.68067819	0.821776
103689954	LOC103689954	0.160146	0.02086155	0.067742
293967	Smc5	0.160124	8.75E-05	5.88E-04
81651	Cspg4	0.159954	3.28E-05	2.44E-04
293935	Prrg3	0.159943	2.36E-04	0.001448
685933	LOC685933	0.15993	0.03989643	0.113036
100360061	LOC100360061	0.159913	0.75148098	0.86726
100909786	LOC100909786	0.159913	0.75148098	0.86726
100909537	Iqck	0.159777	8.01E-05	5.44E-04
360521	Rufy1	0.159777	0.00366135	0.015935
303336	Wsb1	0.159708	1.71E-08	2.22E-07
362472	Cspp1	0.159702	0.00173853	0.008372
299339	Tnfaip2	0.159663	0.13359065	0.283354
362514	Tstd2	0.159641	1.75E-04	0.001104
58921	Foxm1	0.159622	0.13890043	0.291339
64012	Rad50	0.159479	1.92E-05	1.49E-04
29498	Pts	0.159396	0.04115386	0.115721
54308	Slk	0.159258	1.64E-08	2.14E-07
192178	Tnrc6b	0.159231	4.51E-09	6.40E-08
102551257	LOC102551257	0.159214	0.09001593	0.211753
79213	Slc6a11	0.159198	0.26660913	0.45781
299996	Matn2	0.159117	9.37E-26	4.51E-24
300173	Gxylt1	0.159114	2.52E-04	0.001531
303634	Gna13	0.159075	0.01184377	0.042567
309375	Marveld1	0.159038	2.36E-05	1.79E-04
64088	Snx16	0.158947	2.74E-05	2.07E-04
502710	Kmt2c	0.158939	2.55E-09	3.73E-08
116680	Ptpru	0.158933	0.0153092	0.052781
365894	Trim33	0.158929	3.69E-05	2.70E-04
296084	Ino80	0.158865	2.40E-04	0.001465
114102	Cdh23	0.158813	0.50342906	0.690167
364653	Wdr17	0.158564	0.16809934	0.332584
59295	Nucb2	0.158544	1.10E-05	8.96E-05
361776	Ccdc172	0.158443	0.04387307	0.121873
293783	Lpxn	0.158344	0.11305163	0.250882

314740	RGD1565866	0.158344	0.47853297	0.667814
29459	Rbbp9	0.158266	0.02510934	0.07833
50556	Exoc6	0.158233	2.40E-05	1.82E-04
108352059	NEWGENE_6497122	0.158211	0.07722931	0.189272
619580	Ctps2	0.158116	3.57E-07	3.82E-06
24212	Atpla2	0.158054	1.85E-41	1.47E-39
309187	At13	0.158023	2.35E-07	2.59E-06
100360777	Mroh8	0.158013	0.31116166	0.506459
293104	Eed	0.157914	0.01071878	0.039197
315217	Plxnb2	0.1579	7.06E-08	8.41E-07
298250	Fggy	0.157845	0.05955826	0.155212
303803	Klh124	0.157804	4.49E-07	4.72E-06
29631	Bet1	0.157797	0.00353459	0.015457
102553158	LOC102553158	0.157759	0.48400781	0.672449
102555672	LOC102555672	0.157691	0.00793998	0.030623
366980	Arid2	0.157645	1.21E-04	7.90E-04
301059	Myd88	0.15762	0.02160507	0.069646
298366	Ttc39a	0.157536	0.13518332	0.285334
688400	Edi13	0.157501	1.26E-16	3.73E-15
313969	Fam84a	0.157416	0.56397038	0.735068
108348168	Rlim	0.157276	2.78E-07	3.03E-06
361871	Rfesd	0.157249	0.00241989	0.011156
54410	Enpp3	0.157064	0.01359926	0.047733
103693189	LOC103693189	0.15703	3.91E-06	3.49E-05
360993	Ppp4r3b	0.156965	1.57E-05	1.24E-04
300811	Bnip2	0.156951	2.04E-06	1.92E-05
299117	Nin	0.156947	2.63E-04	0.001597
317627	Baz2b	0.156932	6.02E-05	4.21E-04
298941	Lamb1	0.156909	9.96E-24	4.32E-22
503306	Sowahc	0.156893	3.95E-06	3.52E-05
498013	Ern1	0.156885	0.01648079	0.05593
314764	Eea1	0.156861	2.72E-06	2.50E-05
64681	Mvp	0.15683	4.45E-06	3.91E-05
310689	Lrrc71	0.156762	0.06666469	0.169126
688611	Cetn4	0.156606	0.17070075	0.336681
108348078	LOC108348078	0.156579	1.51E-06	1.45E-05
309995	Xrcc4	0.156573	0.03728695	0.106931
363982	Yod1	0.156569	0.23097493	0.416131
293750	Ms4a6b	0.156563	0.00594293	0.023934
301436	Kctd18	0.156531	0.0021941	0.010237
690893	Oosp1	0.156524	0.41274564	0.608605
303801	Lamp3	0.156499	0.4810604	0.66982
102548230	Znf235	0.156427	0.19713234	0.371795
100909664	LOC100909664	0.15633	0.05132048	0.137604
317517	Ptchd1	0.156317	0.4579133	0.649171
691280	LOC691280	0.156291	0.00323738	0.014349
688555	Atg10	0.156186	0.1346598	0.28467
60338	Fxyd5	0.156168	0.00502077	0.020801
102548101	LOC102548101	0.156101	0.01755438	0.058984
313474	Eps15	0.156081	2.22E-18	7.32E-17
64709	Nucks1	0.155904	4.31E-10	6.94E-09
685610	Zfp59	0.15583	0.03149538	0.093797
117538	Wipf1	0.155824	2.69E-06	2.48E-05
498940	Ces2h	0.155811	0.63101875	0.787894
363122	Ppp2r3a	0.15576	1.19E-04	7.79E-04
361764	Sema4g	0.155743	6.05E-05	4.23E-04

64044	Casp8	0.155735	0.19721692	0.371881
25296	Bmp4	0.155609	0.23747893	0.424555
25672	Nr3c2	0.155574	8.73E-04	0.004597
100911395	Agbl4	0.155561	0.33742845	0.53428
50554	Smad4	0.155557	1.72E-05	1.34E-04
316395	Hecw2	0.155516	0.00183896	0.008798
298020	Tmem245	0.15546	5.54E-15	1.46E-13
302288	Fem1c	0.155436	0.00104846	0.005388
291444	Prrc1	0.155325	1.81E-04	0.001137
365297	Crtc3	0.155255	4.89E-04	0.002748
295319	Man1a2	0.155167	4.49E-08	5.49E-07
24973	RT1-A1	0.154791	7.44E-06	6.26E-05
315923	Lysmd3	0.154696	0.11321322	0.251182
100361506	Armc3	0.154696	0.8153462	0.907025
296610	Spaca9	0.154696	0.68584943	0.825586
299206	Batf	0.154696	0.74119746	0.860004
309609	Ly6g6f	0.154696	0.8153462	0.907025
317271	Mageb4	0.154696	0.8153462	0.907025
361192	RGD1308544	0.154696	0.8153462	0.907025
361993	Them5	0.154696	0.68584943	0.825586
498060	RGD1562726	0.154696	0.64045011	0.79441
499964	En2	0.154696	0.8153462	0.907025
500895	Iqank1	0.154696	0.8153462	0.907025
681325	LOC681325	0.154696	0.8153462	0.907025
140473	Ackr2	0.154696	0.60153131	0.764866
245955	Lgals3bp	0.154621	4.01E-09	5.75E-08
362624	Selenon	0.154618	8.09E-09	1.10E-07
114486	Braf	0.154576	2.07E-05	1.60E-04
362017	Cyb561d1	0.154442	0.06400601	0.16413
25277	Mfge8	0.154271	1.80E-05	1.41E-04
170907	Serinc5	0.154256	2.53E-09	3.70E-08
315523	Nfrkb	0.154192	8.28E-05	5.60E-04
113970	Magi2	0.154188	0.00348366	0.015277
25204	Pcsk1	0.154177	1.80E-08	2.33E-07
307393	Sh3tc2	0.154146	8.95E-04	0.0047
29186	Cd63	0.15407	1.14E-10	1.96E-09
362602	Zmym6	0.154022	0.00548708	0.022396
298934	Adi1	0.153655	0.01605224	0.054807
364666	Cdk20	0.153635	0.04383544	0.121786
316526	Wnt6	0.153616	0.00305413	0.013657
680478	Lrrc19	0.15359	0.75030941	0.866407
309816	Lama4	0.153565	1.99E-12	4.11E-11
294322	Pknnox1	0.153542	0.0095694	0.035749
313662	Mfap2	0.153504	0.14118069	0.294436
100365370	Ctdsp2	0.153453	5.72E-11	1.02E-09
363684	Meox1	0.153295	0.1752053	0.342938
303008	Rhbdf1	0.153277	8.91E-08	1.05E-06
29383	Fah	0.153274	0.05704959	0.149988
117526	Tbp	0.153176	0.0212622	0.068762
308361	Zfp329	0.153159	0.02075467	0.067476
498514	RGD1565222	0.15311	0.14168177	0.295157
502784	Gprin3	0.152952	0.24745913	0.436134
116499	Fgf4	0.152936	0.08791145	0.208269
293617	Ifitm5	0.152936	0.48600216	0.674089
363472	Prrgl	0.152855	1.54E-04	9.82E-04
304758	Ccnt2	0.152791	4.42E-08	5.40E-07

108351567	LOC108351567	0.152774	0.59136234	0.756431
313837	Qpct	0.152759	0.10423302	0.235678
681383	Lrmda	0.152733	0.1612887	0.323409
652957	Csf2ra	0.152688	0.06550666	0.166855
304507	Oasli	0.152639	0.37535233	0.572253
500000	Cldn12	0.152589	0.00185687	0.008874
103694908	LOC103694908	0.152567	0.21927041	0.400961
314979	Deptor	0.152512	2.13E-13	4.88E-12
298019	Ctnnal1	0.152419	1.92E-12	3.98E-11
303690	Rhbdf2	0.152393	0.0193825	0.063821
313566	Rlf	0.152275	6.79E-04	0.003679
501317	LOC501317	0.152241	0.22173699	0.404036
293939	Erlin1	0.152179	0.01149882	0.041531
679906	Trpm7	0.152178	9.12E-08	1.07E-06
108351482	LOC108351482	0.152155	0.32841535	0.524017
360590	Ypel2	0.152128	1.44E-05	1.15E-04
290741	Dctd	0.152071	0.32584406	0.521531
363089	Mindy2	0.152044	3.84E-15	1.03E-13
365277	Asb7	0.151977	0.01517677	0.052401
313860	Pkdcc	0.151927	0.0096541	0.035995
295248	Zbtb7b	0.151887	0.01430969	0.049804
102553001	LOC102553001	0.151876	0.06995989	0.175545
362182	Rcn1	0.15164	5.36E-12	1.07E-10
29610	Tgfbr3	0.151632	9.34E-08	1.10E-06
361773	Ccdc186	0.151621	2.21E-09	3.26E-08
296474	Helz2	0.151557	0.02828265	0.086031
24324	Edn2	0.151537	0.68253684	0.823185
314690	Washc4	0.151469	5.91E-11	1.05E-09
102554748	LOC102554748	0.151434	0.14383925	0.298282
64155	Scn7a	0.151362	5.53E-74	7.98E-72
102550291	LOC102550291	0.151358	0.08621874	0.205563
81746	Pggt1b	0.15132	0.00327652	0.014482
687508	LOC687508	0.151317	0.12899983	0.276231
299145	Rhoj	0.151273	1.47E-04	9.43E-04
362465	Tmtc1	0.151204	2.01E-11	3.77E-10
363611	Iba57	0.15118	0.11180416	0.248809
25617	Hspa5	0.151152	2.35E-31	1.40E-29
64322	Dap	0.151089	5.09E-05	3.61E-04
361276	Cdnf	0.151085	0.40522763	0.6019
685472	Lrrtm2	0.151073	0.02445435	0.076702
315341	Hoxc5	0.150944	0.24862529	0.436855
116670	Ppp1r12a	0.1509	4.27E-08	5.24E-07
108351873	LOC108351873	0.150814	0.76430405	0.875875
312478	Loxl3	0.150792	0.04437335	0.123083
689972	Piwil4	0.150792	0.64462009	0.797971
362152	Hnrnpa3	0.150769	4.51E-25	2.09E-23
360799	Nupr2	0.150669	0.19929856	0.37473
114120	Gngl2	0.150644	8.93E-06	7.40E-05
362229	Xrn2	0.15064	2.68E-04	0.001621
102550203	LOC102550203	0.150604	0.39655466	0.593881
296750	Rint1	0.150579	0.00210634	0.009893
304109	Tiam1	0.150577	0.00331531	0.014623
103689983	LOC103689983	0.150453	0.00214794	0.010058
290315	Tdh	0.150447	0.44484569	0.637718
314171	Prpf39	0.150251	2.11E-04	0.001306
311487	Polr3f	0.150073	0.00124855	0.006261

361159	Eri1	0.149911	0.0079998	0.030798
252919	Slc38a3	0.149847	0.35775112	0.55479
103690178	LOC103690178	0.149823	0.04519001	0.124985
289052	Zbtb41	0.149733	0.00186209	0.008895
315510	Igsf9b	0.149691	0.02435046	0.076552
404641	Mas11	0.149614	0.19408507	0.367979
295602	Rif1	0.149609	0.06004353	0.156134
311412	Anapc1	0.149568	2.17E-06	2.03E-05
368070	Pnn	0.149557	1.13E-06	1.11E-05
24218	Atp7b	0.149535	0.29255903	0.488325
303233	Cfap52	0.149535	0.57370908	0.742225
315763	Mtfmt	0.149535	0.05640819	0.148588
294299	Tead3	0.149526	0.09598869	0.222019
304477	Kntc1	0.149495	0.10851053	0.242699
103689932	NEWGENE_621351	0.14948	8.65E-48	7.96E-46
302670	Zrsr2	0.149469	0.00477602	0.019943
362368	Ggct	0.149458	0.0641298	0.164315
499179	LOC499179	0.14945	0.05820361	0.152537
302470	F8	0.149406	0.0014207	0.007022
316599	Usp40	0.149406	0.0014252	0.007041
314862	Dyrk2	0.149392	0.01865116	0.061937
81740	Pcm1	0.149301	6.42E-10	1.01E-08
313449	Upf3b	0.149282	0.00127711	0.006386
108348336	LOC108348336	0.149279	0.25726187	0.446225
690625	Oc90	0.149269	0.61256439	0.773421
500762	Tmem198b	0.14921	0.040281	0.113939
691658	LOC691658	0.14918	4.24E-04	0.002428
497930	Scol	0.149146	0.00945264	0.035389
24918	Stat5a	0.149134	0.01672013	0.05655
293057	Whamm	0.149106	0.0806838	0.195898
317423	FAM120C	0.149064	1.31E-05	1.05E-04
691610	Zfp770	0.148998	0.01571042	0.053862
293019	Arrdc4	0.148941	9.20E-04	0.004815
312398	Smarcad1	0.148931	8.82E-04	0.004639
685203	LOC685203	0.148891	0.15753568	0.317758
314169	Togaram1	0.148772	1.46E-06	1.41E-05
500108	Zfp398	0.148698	0.06708517	0.169831
317344	RGD1565685	0.14867	0.00202954	0.009575
310166	RGD1564125	0.148646	0.06836287	0.172538
300189	Rpap3	0.148634	7.93E-05	5.40E-04
301346	Sema4c	0.148566	6.67E-07	6.80E-06
360602	Luc713	0.148494	2.37E-10	3.96E-09
301081	Zdhhc3	0.148451	1.01E-09	1.56E-08
306424	Mfap31	0.148405	1.05E-17	3.33E-16
25162	Sp4	0.148386	0.08684443	0.206796
102552880	LOC102552880	0.148325	0.00166004	0.008022
311968	Kmt2e	0.148102	2.13E-09	3.15E-08
313488	Reck	0.148087	1.03E-06	1.02E-05
24718	Reln	0.148032	5.62E-20	2.00E-18
294800	Rad1	0.147971	0.14343838	0.29784
100364335	LOC100364335	0.147888	8.07E-13	1.75E-11
367072	Arhgef12	0.147669	3.90E-06	3.48E-05
691125	Atp8b5p	0.147567	0.37681173	0.573697
108348112	LOC108348112	0.147557	7.23E-06	6.10E-05
307029	Wac	0.147517	8.52E-08	1.01E-06
303251	Dvl2	0.147475	0.04971638	0.134381

287526	Serpinf1	0.147469	1.63E-05	1.28E-04
689800	LOC689800	0.147434	0.60402162	0.767111
363131	Pik3r4	0.147392	1.28E-04	8.31E-04
311134	Ccdc141	0.14736	2.10E-04	0.001301
308376	Adgrg6	0.147274	7.04E-09	9.68E-08
116666	Lman1	0.147245	1.61E-05	1.26E-04
295528	Erich3	0.147245	4.16E-07	4.40E-06
306451	Tenm3	0.147169	2.95E-07	3.20E-06
291211	Ggps1	0.147166	5.70E-06	4.91E-05
361237	Cdyl	0.147165	0.0315635	0.093911
362756	Pigh	0.147154	0.00638629	0.025525
54404	Itih4	0.147083	0.74730597	0.864485
65200	Slc16a8	0.147083	0.74730597	0.864485
362581	Scmh1	0.147057	0.00755626	0.029303
499655	Cks1b	0.147037	0.03426046	0.100137
499210	Acer3	0.146944	1.71E-06	1.64E-05
292044	Cdyl2	0.146923	0.00184981	0.008845
305972	Zfp395	0.146904	0.01225889	0.043852
312947	Tgs1	0.146811	0.01910418	0.063046
29261	Tyms	0.146806	0.20511825	0.382238
294744	Gpx8	0.146773	0.00192418	0.009152
296219	Nxt1	0.146633	0.19814988	0.373197
362516	Msantd3	0.146483	0.02589597	0.080206
308839	Rsf1	0.146469	3.28E-04	0.001942
266674	Cyp4a8	0.146442	0.52389176	0.707726
170946	Marf1	0.146435	7.96E-13	1.73E-11
305600	Fanc1	0.146312	0.14600199	0.300932
362096	Setx	0.146275	2.53E-06	2.34E-05
296090	Sptbn5	0.146232	6.50E-14	1.58E-12
54272	Mcpt9	0.146205	0.68495162	0.824948
297822	Tp53inp1	0.146201	0.00455906	0.019167
681288	T2	0.146185	0.36357741	0.56004
100363074	Acot11	0.146166	0.21820273	0.399661
140931	Hnrnp1	0.146163	3.45E-11	6.29E-10
85252	Xpo1	0.146141	2.03E-08	2.61E-07
296280	Tspy26	0.146109	0.13451734	0.284559
100125373	Pnrc2	0.146083	4.49E-05	3.24E-04
306866	Slc35b3	0.146074	0.01250168	0.044545
311598	Fam83d	0.146058	0.54803646	0.728713
295971	Depdc7	0.146058	0.17920077	0.347969
103694328	LOC103694328	0.146052	1.56E-05	1.23E-04
308516	Rhpn2	0.14598	0.12066316	0.263445
291182	Stard3nl	0.145955	1.85E-05	1.44E-04
498819	Greb11	0.14592	0.05091162	0.136719
363443	Ndp	0.145918	0.01271699	0.045186
100312982	Ddx3	0.145824	8.06E-07	8.11E-06
679087	LOC679087	0.14581	0.11032671	0.245924
300470	Thyn1	0.145777	0.00122973	0.006178
117547	Ncr1	0.145657	0.60791413	0.77
102552170	LOC102552170	0.145651	0.61215781	0.773216
291324	Trdmt1	0.145626	0.01595056	0.054538
64456	Spon1	0.14561	0.00120362	0.006063
315265	Twf1	0.145593	2.15E-06	2.01E-05
500973	Slc37a2	0.14551	0.02343376	0.074222
317346	Bcor	0.145501	0.01599506	0.054651
100910732	LOC100910732	0.145455	1.36E-07	1.56E-06

291023	Id4	0.145421	2.74E-04	0.001653
361241	Serpinb9	0.145411	3.55E-11	6.45E-10
691397	Smg1	0.145248	5.45E-10	8.71E-09
308496	Nfkbid	0.145138	0.452836	0.644467
108350407	LOC108350407	0.145125	0.34290347	0.539496
302566	Usp27x	0.145101	0.23813257	0.425205
287989	Ephb3	0.145083	0.06177327	0.159738
363886	Cnpy4	0.144946	0.02369862	0.074949
83518	Aplnr	0.144936	0.20106601	0.37664
365895	Hipk1	0.144818	6.25E-11	1.10E-09
310743	Olfml3	0.144761	0.00183323	0.008779
498806	Myo3a	0.144759	0.0230973	0.073376
100912151	LOC100912151	0.144719	0.01203851	0.04317
25153	Mas1	0.144712	0.49773773	0.684039
65187	Gabrq	0.144712	0.57983325	0.747355
315840	Myo6	0.144712	3.92E-06	3.50E-05
116591	Fcgr2a	0.144688	0.32418939	0.519713
50555	Ugt8	0.144521	2.52E-19	8.74E-18
26295	Ogt	0.144452	3.58E-15	9.61E-14
25528	Sirpa	0.144418	1.99E-05	1.54E-04
497009	Naaa	0.144363	0.01339867	0.047142
497974	Myo19	0.144295	0.04130764	0.115999
688146	Rsad1	0.144247	0.31288316	0.507915
304862	Tpr	0.144242	1.70E-09	2.54E-08
59303	Tmem33	0.144176	1.29E-05	1.03E-04
363554	Msln1	0.144156	0.42622377	0.621311
298074	Xpa	0.144113	0.08218851	0.198816
360511	Pank3	0.144002	9.04E-21	3.36E-19
103691573	LOC103691573	0.143983	0.38735537	0.584424
25470	Kcna5	0.143935	0.02803422	0.085467
25289	Adcy6	0.143909	1.35E-04	8.70E-04
29263	Acvr2a	0.143889	1.03E-05	8.44E-05
501100	Crip3	0.143887	0.84729666	0.923684
293618	Ifitm1	0.143875	0.00221395	0.010314
361605	Pcf11	0.143837	0.00160553	0.007806
56763	Srekl	0.14379	1.46E-06	1.41E-05
300518	Robo4	0.143777	0.68370348	0.824018
114510	Mllt3	0.143753	0.03500499	0.101704
302499	C1galt1c1	0.143741	0.0012577	0.006302
689500	Mcts2	0.143712	0.03459605	0.100824
309009	Mcmbp	0.143706	0.00814342	0.031206
498004	Cfap97d1	0.143644	0.88815714	0.949851
100912447	Nynrin	0.143623	0.00534642	0.021987
304883	Abl2	0.143587	7.40E-04	0.003977
296137	Bub1	0.143556	0.20282841	0.37901
682914	Zfp326	0.143527	0.01327822	0.046813
499157	Svip	0.143483	1.65E-11	3.13E-10
308901	Trim21	0.143452	0.02514022	0.078401
288354	Zfp654	0.143445	0.01220979	0.043718
362540	Hacd4	0.143362	0.00305708	0.013661
306515	Mboat4	0.143354	0.35361604	0.550574
25687	Caldl	0.143324	6.45E-14	1.58E-12
29308	Arl4a	0.143291	0.00237386	0.010971
103690155	LOC103690155	0.143262	0.12491333	0.270062
293953	R3hcc11	0.143229	0.12370588	0.268457
100360623	Iqgap2	0.14321	3.04E-04	0.001811

108348771	LOC108348771	0.143126	0.33215882	0.528308
500943	Arhgap42	0.143044	8.35E-04	0.004419
81816	Ube2b	0.142994	1.25E-13	2.94E-12
171493	Osgin1	0.142985	0.27100107	0.46264
498630	Wwc2	0.142957	1.45E-04	9.29E-04
100125370	Nadk	0.142895	3.27E-05	2.43E-04
362226	Sec23b	0.142887	0.0034998	0.01534
291527	Stard6	0.142803	0.20042549	0.376366
310670	Adamts14	0.14277	1.59E-06	1.52E-05
500616	Socs5	0.142763	6.74E-08	8.07E-07
308581	Ccdc155	0.142737	0.53251156	0.714757
494340	Zfp868	0.142712	0.0048289	0.020124
294030	Sfr1	0.14271	1.49E-05	1.18E-04
60627	Exoc5	0.142581	2.92E-05	2.19E-04
361730	Tkfc	0.142525	0.09496416	0.220131
308282	Shprh	0.142516	0.00234228	0.010843
300900	Plscr4	0.142445	0.00385703	0.016631
116684	Oplah	0.142412	0.00994527	0.036893
102552729	LOC102552729	0.142321	0.62916827	0.786254
362857	Tmem263	0.142121	9.27E-05	6.19E-04
289501	Sowahb	0.142075	0.24844032	0.436691
363502	Mid2	0.142032	1.06E-05	8.66E-05
307604	Elac1	0.142008	0.07591157	0.186908
307151	Bmil	0.141905	2.22E-04	0.00137
366352	Mob3b	0.141811	0.00119885	0.006048
499254	Tmc7	0.141786	0.00114697	0.005816
79124	Anxa4	0.141678	3.48E-11	6.34E-10
313961	Smc6	0.14167	5.67E-05	3.99E-04
308173	Kif13a	0.141638	1.60E-04	0.001012
297554	Csgalnact2	0.141597	0.01313485	0.046402
686117	Meis1	0.141478	0.21329551	0.393511
287362	Nlrp3	0.141405	0.25195724	0.440272
315427	Sesn3	0.141404	5.24E-15	1.39E-13
362359	Mpp6	0.141365	6.94E-05	4.79E-04
307829	Zfhx3	0.141361	5.55E-07	5.76E-06
108348055	LOC108348055	0.141338	0.72126207	0.847405
314265	Zfyve26	0.14123	0.00162015	0.007857
679894	LOC679894	0.1412	0.01089389	0.039738
64199	Gng11	0.14112	0.100606	0.229576
499807	Dcaf17	0.141109	9.70E-04	0.005042
84493	Fmo3	0.140922	0.26723666	0.458433
310461	Dhx36	0.140891	2.00E-06	1.89E-05
298786	Slc30a6	0.140782	0.03438965	0.100376
308845	Thap12	0.140717	7.62E-04	0.004082
266706	Gjc1	0.140703	0.25565771	0.444495
315108	Apol3	0.140667	0.23820893	0.425261
100909590	LOC100909590	0.140654	0.53414104	0.716035
363854	Elavl1	0.140604	0.02817527	0.085787
287706	Klh111	0.140575	0.00328912	0.014524
24948	Fmr1	0.140515	1.52E-04	9.71E-04
681371	Nufip2	0.14047	1.77E-09	2.65E-08
654496	Fubp1	0.140453	1.24E-06	1.21E-05
305556	Ehbp1	0.14043	2.85E-08	3.59E-07
313641	Hspg2	0.140423	5.67E-37	4.12E-35
363014	Yap1	0.140418	2.59E-07	2.83E-06
307820	Nfat5	0.140417	6.25E-11	1.10E-09

266808	Lrrcc1	0.140399	0.0725894	0.180785
25423	Ctsc	0.140393	9.88E-04	0.00512
29548	Homer3	0.140392	0.01092826	0.039856
287269	Clk4	0.140217	3.96E-04	0.002287
100362908	LOC100362908	0.140197	0.82389795	0.911269
102552996	LOC102552996	0.140197	0.82389795	0.911269
289167	Mettl11b	0.140197	0.82389795	0.911269
297596	Lag3	0.140197	0.61876456	0.777461
362136	Dapl1	0.140197	0.82389795	0.911269
365544	Umodl1	0.140197	0.61876456	0.777461
60422	Slc18a3	0.140197	0.82389795	0.911269
282708	Afm	0.140197	0.75298102	0.868176
499848	Ccdc73	0.140197	0.52907251	0.711846
689978	Nrsn2	0.140197	0.21533756	0.396012
29584	Gjb1	0.140103	0.00848272	0.032317
309953	Tmem161b	0.140086	0.0156738	0.053756
108348102	LOC108348102	0.140074	0.01565619	0.053715
102546572	LOC102546572	0.140051	5.14E-07	5.35E-06
288414	Rfc3	0.140012	0.06094308	0.157978
81784	Ssr3	0.139987	5.20E-08	6.31E-07
286984	Vom2r18	0.139972	0.76863999	0.87836
85241	Polal	0.139833	0.18236341	0.352493
314246	Zbtb1	0.139772	2.17E-04	0.001338
306380	Psd3	0.139732	2.07E-10	3.49E-09
680591	Lrch2	0.13959	0.14534839	0.300202
308306	Eif5b	0.139571	1.14E-06	1.12E-05
301415	Ankrd44	0.139546	0.01000819	0.037083
362264	Srsf6	0.139532	5.90E-09	8.21E-08
83718	Clic4	0.139472	0.00472435	0.019753
363445	Usp9x	0.139464	2.54E-35	1.76E-33
29362	Tef	0.139324	2.77E-08	3.49E-07
25050	Camk4	0.139291	8.50E-06	7.08E-05
65037	Mertk	0.139236	0.01429637	0.049767
297757	Sbspon	0.139228	8.17E-05	5.54E-04
170915	Ep300	0.139188	6.59E-06	5.59E-05
311580	Samhd1	0.139156	0.11692178	0.257163
289088	Swt1	0.138913	0.02050774	0.066856
499264	Apobr	0.138891	0.31131997	0.506543
362046	Dappl	0.138887	0.4009074	0.598001
57027	Adam17	0.138814	4.67E-05	3.35E-04
306998	Cdk13	0.138802	2.74E-04	0.001654
116668	Myt11	0.138777	0.00215326	0.010076
691922	Nt5dc3	0.138773	9.67E-05	6.44E-04
24681	Prkcg	0.138668	0.33349711	0.529597
680201	Zfp322a	0.138654	0.02113372	0.068428
316742	Tgif1	0.138625	0.2036124	0.380139
299626	Gadd45b	0.13862	0.05694307	0.14979
103690074	LOC103690074	0.138577	0.2106787	0.389475
316211	Usp49	0.138549	0.09483996	0.220003
501515	Tut7	0.138535	4.84E-06	4.23E-05
305882	Haus4	0.138443	0.03023492	0.090695
314713	Utp20	0.138411	0.00353306	0.015454
292737	Blvrb	0.13834	0.00630991	0.025257
362978	Creld2	0.138238	0.07257877	0.180782
619582	Tmem69	0.138078	0.00369401	0.016062
29540	Hsd17b7	0.138076	0.00133924	0.006661

498404	Ccdc117	0.138009	0.08984587	0.21151
292127	Dclrela	0.137911	0.04160012	0.116631
315864	Dopla	0.137849	5.35E-05	3.78E-04
364827	Zscan30	0.13781	0.04702774	0.128907
81921	Sh3gl3	0.137697	0.02517693	0.078477
366203	Esf1	0.137691	0.00300289	0.013466
84472	Ilf3	0.137677	1.89E-05	1.47E-04
293736	Myrf	0.137661	0.01127695	0.040885
245953	Tmem37	0.137623	0.62193712	0.779776
79011	Camkv	0.137566	0.14360513	0.298023
690728	Ints13	0.137501	0.01410388	0.049178
312491	Zfp638	0.137399	9.22E-07	9.22E-06
29486	Smc3	0.137373	7.50E-05	5.13E-04
100909461	LOC100909461	0.137311	0.83537633	0.918205
291002	Cdhr2	0.13729	0.10881475	0.243265
498411	Hus1	0.137286	0.00386822	0.01666
288744	RGD1306556	0.137242	0.00941942	0.035279
297387	Mob1a	0.137238	2.74E-04	0.001654
29419	Numb	0.137229	0.00727209	0.028386
294274	RT1-DMa	0.137127	0.06361128	0.163404
313388	Dock7	0.137045	9.52E-07	9.48E-06
362763	Lin52	0.137028	0.02394317	0.075571
362520	Fktn	0.136942	1.20E-06	1.18E-05
56766	Leprot	0.136898	8.53E-05	5.75E-04
24944	Lamp2	0.136882	1.86E-25	8.75E-24
25705	Zeb1	0.136873	3.49E-08	4.33E-07
366783	Alkbh8	0.136791	0.05244217	0.139883
691517	Megf11	0.136764	1.55E-06	1.48E-05
306618	Arhgef10	0.136751	5.30E-09	7.43E-08
64618	Zic1	0.136711	0.14482951	0.299357
85432	Ddx52	0.136648	0.06222139	0.160548
282635	Mbn11	0.136627	4.82E-06	4.21E-05
361659	Plekha1	0.136514	1.04E-06	1.03E-05
24504	Inha	0.13651	0.14062874	0.293735
315871	Snx14	0.136465	0.00775168	0.029951
290823	Erlin2	0.136445	0.00240518	0.011094
24223	B2m	0.136408	7.21E-43	5.84E-41
171154	Serpina10	0.136248	0.39791309	0.595166
362343	Parp12	0.136238	0.05907184	0.154303
103691134	Flt3lg	0.136147	0.30352471	0.500617
100911216	LOC100911216	0.136075	4.07E-04	0.002351
303112	N4bp3	0.136029	0.39701697	0.594199
25750	Maob	0.135995	5.92E-07	6.11E-06
432363	Slco4c1	0.13596	0.59129125	0.756441
682978	Nudt13	0.13596	0.35234372	0.549446
100362814	LOC100362814	0.135958	1.14E-05	9.24E-05
303448	LOC303448	0.135722	0.08680685	0.206732
311872	Zbtb43	0.1357	0.05158045	0.138126
499770	Spout1	0.135675	0.02463401	0.077126
307615	Terb1	0.135656	0.65944466	0.80502
299830	Lrig3	0.135529	0.09843743	0.226036
311909	Rc3h2	0.135516	9.58E-06	7.91E-05
312365	Mindy4	0.135483	0.01970273	0.064707
100361114	Zfp869	0.135438	0.01777501	0.059537
25643	Gnai3	0.135338	6.65E-09	9.18E-08
686098	Sorbs1	0.135311	9.08E-36	6.36E-34

305171	Lin54	0.135306	0.0073946	0.028764
103689950	NEWGENE_1306455	0.135228	3.18E-08	3.98E-07
100912372	Tcaf2	0.135208	0.89279617	0.952406
362095	Gtf3c5	0.135171	0.00373176	0.016197
361346	LOC361346	0.135144	0.01908211	0.063006
303312	Wdr81	0.135113	0.00585504	0.023665
83629	Slc12a2	0.135037	2.87E-14	7.23E-13
500623	Wdcp	0.134963	0.03419702	0.100028
360863	Suco	0.134949	3.00E-04	0.001788
497865	Rbm2511	0.134941	1.24E-04	8.06E-04
309407	Trpm3	0.134914	9.07E-06	7.51E-05
252858	Frmd4b	0.134909	0.00655016	0.02606
114555	Casp4	0.134874	0.03830985	0.109272
294270	RT1-Db1	0.134864	0.00253922	0.011633
688517	Mut	0.134848	1.90E-06	1.80E-05
499617	Rfxap	0.134834	0.09279699	0.216716
315648	Ppp2r1b	0.134822	0.0718156	0.179186
25742	S100b	0.134771	5.15E-102	1.02E-99
299557	RGD1310212	0.134748	0.42139428	0.616868
361944	Elf2	0.134722	0.01035579	0.038156
362912	Der11	0.134657	6.68E-05	4.61E-04
317579	Utp14a	0.134644	0.02756151	0.084404
100909505	LOC100909505	0.13464	0.01147182	0.041465
362501	Topors	0.134595	0.01067269	0.039066
296199	Snx5	0.134528	1.45E-06	1.40E-05
306222	Lsm5	0.134519	0.22467474	0.407867
293645	Ppfial	0.134516	5.85E-05	4.10E-04
299153	Ppplr36	0.134295	0.00741527	0.028827
287612	Mks1	0.134285	0.1219695	0.265749
312437	Krcc1	0.134172	0.00356833	0.015587
85420	Prkcq	0.134131	0.00670387	0.02656
360845	Zc3h11a	0.134036	6.07E-06	5.20E-05
680424	Pex10	0.133945	0.14965994	0.305889
315911	Rnf128	0.133944	0.0901443	0.211924
100363332	Card11	0.133938	0.26716395	0.458349
259222	Npb	0.133938	0.66339766	0.808111
315615	Dscaml1	0.133938	0.41550989	0.611686
81677	Itpka	0.133938	0.75827111	0.872005
83568	Naalad11	0.133938	0.66339766	0.808111
305625	Slc49a3	0.133938	0.2863849	0.480673
83720	Fat1	0.133889	7.89E-08	9.37E-07
306886	Ripk1	0.133828	0.01931392	0.063628
24706	Rarb	0.133811	0.13591016	0.286392
314320	Mlh3	0.133782	0.03072453	0.09186
498898	Dok6	0.133757	0.21156591	0.390812
307927	Taf5l	0.133736	0.03428604	0.100165
360204	Zfp24	0.133633	7.56E-06	6.35E-05
363227	Nabp1	0.133624	0.18026976	0.34951
291921	N4bp1	0.133588	0.00165939	0.008021
316731	Mettl4	0.133587	0.37020222	0.566533
297504	Edem1	0.133528	5.70E-06	4.91E-05
303637	Abca8	0.13343	0.00137197	0.006797
288016	P3h2	0.133263	0.15809686	0.318586
314128	RGD1304624	0.133257	0.31928275	0.514271
362553	Tctex1d1	0.133254	0.20701862	0.384688
288353	Cggbp1	0.13323	1.62E-04	0.001027

314259	Mpp5	0.133185	2.33E-05	1.77E-04
252941	Hdgfl3	0.133159	4.27E-04	0.002446
360820	Pxn	0.13311	8.29E-07	8.33E-06
108348069	LOC108348069	0.133099	0.28016548	0.4737
64570	Nat8	0.13309	0.9208099	0.969689
362153	Cwc22	0.133043	0.0342601	0.100151
313115	Uf11	0.13303	0.00239335	0.011053
296511	Alx4	0.132977	0.6949628	0.83185
316101	Limd1	0.132892	0.00470589	0.019702
296789	Sema3e	0.132845	0.02782703	0.084971
102556119	Znf354b	0.132822	0.27097243	0.462633
315326	Tns2	0.132771	1.26E-05	1.02E-04
25614	Ptk2	0.132678	3.12E-04	0.001855
299347	Brf1	0.132601	0.00281155	0.012713
689134	Sec61g	0.1326	0.0056236	0.022841
294854	Dnah5	0.132461	0.54042254	0.72227
688452	Spaca6	0.132434	0.03703724	0.106391
362107	Aif11	0.132398	7.16E-05	4.92E-04
315716	Cd276	0.132391	0.00326174	0.01444
100360772	Zfp17	0.132375	0.06557895	0.16695
25631	Smad3	0.132313	0.07235464	0.180319
361621	Olfml1	0.132295	2.96E-06	2.70E-05
306254	Pbrm1	0.132256	1.95E-06	1.84E-05
315114	Clqtnf6	0.132253	0.16103725	0.32328
361813	Stk38	0.132248	0.00326545	0.014449
140590	Bmpr2	0.132179	7.53E-21	2.80E-19
192181	Podxl	0.132177	0.00101566	0.005242
680127	Tirap	0.132087	0.20100801	0.376569
691394	Chst14	0.132078	0.18275622	0.35293
296290	Bpifb2	0.131976	0.70825073	0.839707
64354	Htr6	0.131976	0.70825073	0.839707
78960	Prx	0.131952	3.04E-57	3.40E-55
288105	Zbtb20	0.131892	0.14295942	0.297331
691538	Rnpc3	0.131892	0.01117341	0.040595
316258	Cd2ap	0.131856	1.07E-04	7.03E-04
307213	Zfp407	0.131788	0.01664576	0.056379
679082	Arhgap19	0.131773	6.54E-05	4.53E-04
303399	Tbx4	0.131755	0.66553706	0.810069
84685	Ppp1r9a	0.131732	3.84E-06	3.44E-05
306071	Lcp1	0.131722	4.92E-13	1.09E-11
305244	Thap6	0.131681	0.05043085	0.135696
25105	Nppb	0.131591	0.49509463	0.681735
57341	Parva	0.131535	1.45E-15	4.02E-14
29365	Mpdz	0.131529	9.60E-07	9.56E-06
363139	Zmynd10	0.131495	0.29072729	0.486077
85426	Slc5a7	0.131476	0.09258526	0.216328
315696	Snx33	0.131412	0.02439184	0.076607
296866	Gpr165	0.131278	0.47479902	0.665138
304291	Zdhhc4	0.131217	0.04572607	0.126156
690752	Med121	0.131195	0.04943258	0.133975
498795	Ccdc3	0.131192	0.13156943	0.280315
304297	Sdk1	0.131192	0.04266058	0.119113
58834	Dlc1	0.13119	5.27E-06	4.58E-05
29224	Cbr1	0.131118	0.00471318	0.019724
313519	Gpbp111	0.131095	1.47E-05	1.16E-04
29203	Foxd3	0.13106	0.01073281	0.039241

315308	Csrnp2	0.131042	0.00614069	0.024616
296560	Uap111	0.130988	0.03400326	0.099614
308624	Heca	0.130947	7.65E-04	0.004098
310131	Rictor	0.130866	4.26E-04	0.00244
361845	Eif4ebp2	0.130771	0.0066996	0.026549
309945	Arrdc3	0.130715	3.81E-04	0.002216
690825	Gngt2	0.130701	0.51887977	0.7037
100302447	Cox16	0.130701	0.00782022	0.030192
498701	RGD1566359	0.130672	1.78E-09	2.66E-08
29409	Mag	0.130621	9.35E-04	0.00488
305343	Pds5a	0.130537	6.88E-06	5.81E-05
100910200	LOC100910200	0.13047	0.5827209	0.749505
103691261	LOC103691261	0.130449	0.63097483	0.787917
171026	Akap5	0.130449	0.63097483	0.787917
300193	Senp1	0.130431	0.01589906	0.054382
494125	Rcn3	0.130388	2.09E-04	0.001294
65205	Mmp16	0.130296	0.04657845	0.127841
361819	RGD1566085	0.130253	0.00471779	0.019734
85254	Slc44a1	0.130239	1.50E-25	7.14E-24
360869	Tipr1	0.130218	7.80E-04	0.004169
307446	Ythdc2	0.130202	0.00109081	0.005568
362332	Flnc	0.130166	0.01873418	0.06217
305332	Limch1	0.130166	3.47E-13	7.76E-12
117275	Chrd	0.130154	0.30342808	0.500545
309475	Tm9sf3	0.130125	4.64E-17	1.43E-15
84411	Ick	0.130116	0.00157436	0.007668
360503	Luc71	0.130096	4.20E-07	4.43E-06
100363314	LOC100363314	0.130073	0.55530636	0.734686
310091	Slc38a9	0.130026	0.00537355	0.022061
290907	Lig4	0.130024	0.00303476	0.013586
25230	Add3	0.129911	3.15E-12	6.42E-11
680782	Spcs3	0.129783	0.07098093	0.177616
302528	RGD1559951	0.12976	0.02924538	0.088353
362404	Suclg2	0.129647	0.00233426	0.010814
362866	Chpt1	0.129593	0.0297647	0.089595
686610	Tb12	0.129592	0.00233919	0.010831
302495	Rap2c	0.129579	1.26E-05	1.01E-04
691493	Zwilch	0.129566	0.11695454	0.257205
360824	Wscd2	0.129454	0.5452079	0.726219
288280	Ncam2	0.12942	0.01906941	0.062986
690654	Wars2	0.129393	0.03916433	0.111326
363162	Cmc1	0.129365	0.24926346	0.437734
360468	Emp2	0.129306	7.58E-06	6.37E-05
303601	Cyb561	0.129288	0.02239055	0.07156
102556082	LOC102556082	0.129274	0.7342237	0.856662
500502	Eqtn	0.129269	0.16112604	0.323185
499124	Zfp14	0.129227	0.14640347	0.301498
84359	Dffb	0.129182	0.30520162	0.502079
24232	C3	0.129105	0.13070016	0.2789
29633	Ndst1	0.129092	1.60E-06	1.53E-05
29199	Hfe	0.12901	0.42403557	0.619473
292681	Nova2	0.12901	0.42403557	0.619473
365668	Mtrex	0.128944	7.86E-05	5.36E-04
297514	Setd5	0.128927	2.75E-07	3.00E-06
498112	Yeats2	0.128926	0.01120372	0.040666
314587	Zfp472	0.128906	0.33377904	0.529912

681647	Lysmd4	0.128883	0.03271341	0.096548
108349536	LOC108349536	0.128881	0.02933131	0.088585
29596	Ifrd1	0.128793	0.01312043	0.04636
63847	Fxyd6	0.128779	1.64E-13	3.81E-12
289635	Rel11	0.128758	0.00369198	0.016057
689954	Setd7	0.128708	0.00230201	0.01068
308140	Tfb1m	0.128625	0.00384363	0.016588
24950	Srd5a1	0.128597	0.00107446	0.0055
313842	Hnrnp11	0.128597	0.00107446	0.0055
25270	Abcd3	0.128527	1.20E-07	1.39E-06
306238	Ccdc66	0.128505	0.02687698	0.08264
24915	Pdlim4	0.128488	1.02E-04	6.77E-04
302363	Sh3bgr1	0.128371	3.71E-15	9.94E-14
103691527	LOC103691527	0.128315	0.00119314	0.006023
302855	RbmX	0.128312	0.00123507	0.006201
498095	Tctex1d2	0.128309	0.11327731	0.251266
364712	Sox4	0.128305	4.52E-04	0.002565
308118	Rgs17	0.128224	0.01005354	0.037215
501779	Cd200r11	0.128224	0.87002623	0.938524
108348955	LOC108348955	0.128224	0.63383827	0.789758
140638	Apoa5	0.128224	0.83130994	0.915373
292755	Nccrp1	0.128224	0.83130994	0.915373
317189	Diaph2	0.128224	0.30696145	0.503018
53949	Chrm5	0.128224	0.83130994	0.915373
685153	Wfdc6a	0.128224	0.83130994	0.915373
689388	Ptx3	0.128224	0.76321747	0.875051
84399	Ihh	0.128224	0.83130994	0.915373
308918	Ppfibp2	0.128218	0.00579643	0.023438
689106	Vstm2a	0.128163	0.00449102	0.01891
286994	Lgr4	0.128123	9.83E-06	8.09E-05
690516	Smurf1	0.128119	1.37E-05	1.09E-04
25205	I16st	0.128103	1.88E-19	6.56E-18
100911831	Zfp182	0.128089	0.05533671	0.146312
307724	Rpgrip11	0.128028	0.02491871	0.077914
313434	Akap17b	0.128023	0.00657509	0.026137
291534	Rnmt	0.128021	3.75E-05	2.75E-04
306014	Reep4	0.128006	0.13231282	0.281521
24482	Igf1	0.128004	2.88E-05	2.17E-04
362871	Elk3	0.12797	0.0275267	0.084338
315532	Fli1	0.127936	0.04847139	0.131896
360600	Spag9	0.127927	1.35E-24	6.12E-23
102550403	LOC102550403	0.127925	0.61905381	0.777645
303348	Atad5	0.127904	0.21475219	0.395241
309035	Dcun1d3	0.127799	0.01203421	0.04317
299759	Lrriq1	0.12777	0.29751172	0.49408
303747	Cd7	0.127751	0.30783627	0.50242
682988	Med18	0.127739	0.12900831	0.276218
363070	Fam219b	0.127738	5.74E-05	4.03E-04
361458	Akap7	0.127729	0.31863081	0.513438
108352957	LOC108352957	0.127708	0.17616385	0.344354
294009	Cuedc2	0.127685	0.03264215	0.096458
103693480	LOC103693480	0.127679	0.00190462	0.009071
290501	Tmtc4	0.127655	7.86E-06	6.58E-05
298890	Fam49a	0.127641	0.11170642	0.24865
304056	Zbtb21	0.127594	0.01254453	0.044665
116545	Pou6f1	0.127585	0.00366129	0.015938

114901	Sorbs2	0.127513	0.00589414	0.023783
84486	Sf3b1	0.127466	6.46E-14	1.58E-12
64026	Casp7	0.127273	0.19027614	0.363326
500464	Epb4114b	0.127255	0.0045181	0.019012
310324	Dcun1d1	0.127239	8.92E-05	5.99E-04
64466	Cited1	0.127141	0.50231888	0.688993
102549471	LOC102549471	0.127021	0.27054521	0.462069
305419	Pi4k2b	0.127021	0.09236654	0.215923
497039	Amy2a3	0.127021	0.94927856	0.9876
497961	Nlk	0.126964	2.08E-05	1.60E-04
313706	Ubiad1	0.126951	0.13005506	0.277741
246235	Slc36a2	0.12688	6.98E-04	0.003772
361109	Dcpl1a	0.126764	0.19756087	0.372271
687001	Hdac9	0.126756	0.0157501	0.053969
362988	Cpne8	0.126744	5.00E-04	0.002806
363337	LOC363337	0.126699	0.04278538	0.119427
309457	Pcgf6	0.126682	0.21026958	0.388946
679504	Nemp1	0.126682	0.42815403	0.623266
500584	LOC500584	0.126646	0.05919773	0.154462
312927	Rblcc1	0.126628	6.89E-08	8.23E-07
317183	Pcdh19	0.126626	0.02778769	0.084919
102555172	Tmppe	0.12659	0.22395836	0.406915
361953	Lekr1	0.126565	0.44535198	0.63806
100362110	LOC100362110	0.126544	8.29E-14	1.99E-12
361381	Rad23a	0.126508	6.70E-05	4.63E-04
499821	Fam171b	0.126481	8.42E-10	1.31E-08
25459	Hmgbl	0.126455	8.03E-06	6.71E-05
313581	Utp11	0.126443	9.97E-04	0.005165
309728	Arid5b	0.126346	0.04984401	0.13463
315394	Kbtbd3	0.126155	5.46E-05	3.85E-04
297604	Ltbr	0.126149	6.71E-04	0.003642
309053	Relch	0.126117	5.32E-06	4.62E-05
288306	Usp16	0.126112	0.01258083	0.044769
364706	Foxc1	0.125917	0.07785962	0.190425
360703	Vps26c	0.12589	0.00591121	0.023836
290794	Tnks	0.125869	7.49E-04	0.004022
299700	RGD1563365	0.125812	0.18193392	0.351948
691429	Shisa7	0.12577	0.13504038	0.28519
362706	Rbks	0.125767	0.13613927	0.286779
306977	Zkscan3	0.125742	0.02612146	0.080747
303504	Mllt6	0.125727	4.99E-04	0.0028
100359832	Fam104b	0.125701	0.07320075	0.181903
301446	Carf	0.125675	0.03065535	0.091682
84428	Dctn4	0.125651	3.42E-13	7.65E-12
361568	Rras	0.125627	0.01391147	0.048587
64824	Nab1	0.12556	8.68E-06	7.22E-05
309452	Nfkb2	0.12555	0.04794523	0.130651
116651	E2f5	0.12555	0.14408765	0.298439
50645	Rab27a	0.125414	0.01246118	0.044418
497984	Zfp652	0.125414	0.12972538	0.277131
292770	Spint2	0.125396	0.08228368	0.198996
500337	Clecl1a	0.125313	0.22625682	0.409957
100910839	Luzp2	0.125303	4.99E-06	4.36E-05
362317	Krit1	0.125299	5.38E-04	0.002987
288111	Spic1	0.125224	0.23358709	0.419606
100361710	Setdb2	0.125202	0.05804797	0.152213

501665	Slc10a3	0.125177	0.03714384	0.106649
304887	Ralgsps2	0.125159	0.0597094	0.155457
360548	Tnfsf12	0.125147	0.0033671	0.014824
313243	Exosc3	0.125115	0.19499037	0.369254
282584	Mtmr9	0.125099	2.62E-05	1.98E-04
499056	Znf761	0.125072	0.25570394	0.444494
292999	Chsy1	0.125029	0.01643674	0.05582
360773	Sun1	0.12494	7.64E-04	0.004093
29357	Smad2	0.12491	0.00101892	0.005256
361476	Rsph3	0.124828	0.18879276	0.361435
308894	Rassf10	0.124795	0.24182168	0.429697
311716	Col20a1	0.124785	0.22030193	0.402422
313917	Abhd1	0.124707	0.0041868	0.017834
307594	Mib1	0.124684	0.00386711	0.016659
116554	Mapk8	0.12467	9.16E-07	9.17E-06
315639	Usp28	0.12466	0.01112458	0.04044
192352	Ss18l1	0.124593	0.19537203	0.36972
366232	Rem1	0.124534	0.31386666	0.508861
103691988	LOC103691988	0.124411	0.16638151	0.329836
499281	Lrrc27	0.124409	0.29394712	0.489955
500824	Fgd6	0.124406	0.08212552	0.19879
100363266	Igip	0.124333	2.44E-10	4.07E-09
363849	Hira	0.124288	0.01151952	0.04159
365871	Ciart	0.124255	0.40141698	0.598246
246776	Filip1	0.124235	0.00225484	0.010471
117521	Scaper	0.124211	0.00280501	0.012695
85261	Mterf1	0.124177	0.02451905	0.076867
500981	Zfp202	0.124157	0.19035521	0.363367
363578	Havcr2	0.124121	0.75635436	0.870642
307764	Usp38	0.124098	0.0113041	0.040968
362297	Rbm33	0.124078	2.20E-05	1.69E-04
289324	Cnih4	0.124071	2.08E-04	0.00129
361512	Ehd2	0.124	0.00116799	0.005907
363334	Stap2	0.124	0.34866013	0.545533
687813	Traf1	0.124	0.50752667	0.693887
100909998	LOC100909998	0.12388	0.3877862	0.584981
100909569	LOC100909569	0.123877	0.39272063	0.589902
305896	Irf9	0.123785	0.00246917	0.011342
102554586	Tmem265	0.123709	0.43350328	0.627886
499270	Prss53	0.123646	0.28244608	0.476034
361271	Upf2	0.123639	0.00431699	0.018279
682469	Kdm3b	0.123625	3.41E-04	0.002009
366196	Cr1s1	0.123585	0.0314509	0.093679
366894	Trhde	0.123569	0.38366472	0.580327
313208	Fsd11	0.123528	8.64E-10	1.34E-08
307296	Zfp608	0.123522	0.01625335	0.055306
306141	Spry2	0.12341	0.01671135	0.056561
83805	Src	0.12338	7.01E-06	5.92E-05
100363276	Arhgap6	0.123375	0.45101444	0.642739
81647	Atf2	0.123267	0.00213292	0.01
305960	Xkr6	0.123235	0.48874182	0.676263
310589	RGD1566337	0.123213	0.65907236	0.804875
313851	Thumpd2	0.123189	0.13965141	0.292335
102550396	LOC102550396	0.123178	0.00474098	0.019814
303346	Nsrp1	0.123073	0.02332198	0.073929
298441	Nasp	0.123051	0.06350124	0.163253

309306	Ric1	0.123022	0.0020052	0.009476
309887	Ascc3	0.122988	0.0024883	0.011425
373540	I118rap	0.122988	0.76785541	0.877806
474146	Hcst	0.122988	0.76785541	0.877806
29516	Pde3b	0.122898	0.02882443	0.087331
293526	Ate1	0.122881	1.54E-04	9.82E-04
361930	Bbs7	0.122865	0.05886815	0.153855
312560	Xpc	0.122854	0.02658068	0.081914
314374	Foxn3	0.122791	6.71E-04	0.003641
288702	Unc119b	0.122776	0.00233667	0.010822
304074	Morc3	0.122711	0.00326908	0.014455
500032	Thsd7a	0.122616	5.85E-09	8.14E-08
500258	RGD1560289	0.122581	0.07224276	0.180134
500551	S100pbb	0.122499	0.0034703	0.015232
297408	Alms1	0.122493	0.00494863	0.020546
286932	Vps54	0.122464	0.00254059	0.011637
302711	Tb11x	0.122454	1.86E-06	1.77E-05
81529	Pdela	0.122433	0.1623887	0.325204
54278	Nr4a2	0.122394	0.04376622	0.121665
303888	Osbp111	0.122254	0.01522205	0.052538
102550657	LOC102550657	0.122194	0.26928525	0.460744
288091	Poglut1	0.122108	8.95E-04	0.004699
311661	Zfp64	0.122032	0.03486887	0.101432
116639	Cux1	0.122021	4.21E-08	5.18E-07
361697	Tbcd10c	0.121992	0.64202178	0.796074
81710	Msx1	0.121992	0.64202178	0.796074
497198	Impact	0.121989	2.95E-07	3.21E-06
287750	Prp211	0.121979	0.03379542	0.099112
362170	Api5	0.121964	9.93E-07	9.87E-06
64040	Aldh9a1	0.121948	5.23E-04	0.002918
317546	Tab3	0.121947	0.00204838	0.00964
311731	Scrn3	0.121889	1.75E-04	0.001103
313838	Cdc42ep3	0.121883	0.07784853	0.190422
360726	Fytt1	0.121764	3.24E-07	3.50E-06
312912	Prex2	0.121758	6.44E-05	4.47E-04
117514	Txnip	0.121735	1.23E-09	1.88E-08
444984	Dnmt3a	0.121728	0.00355421	0.015529
315344	Smug1	0.12162	0.0116	0.041818
360961	Mxd4	0.121568	1.74E-07	1.95E-06
363069	Ppcdc	0.121565	0.08774578	0.207902
363198	Cenpq	0.12153	0.39222099	0.58943
316312	Zfp451	0.121492	0.00161436	0.007835
64515	Cdc20	0.121475	0.37848115	0.575549
245986	Gng8	0.12145	0.26393695	0.454163
24251	Cd53	0.121416	0.04848384	0.131911
361554	Lsm14a	0.121403	3.89E-04	0.002255
314028	Cb111	0.121384	0.01345948	0.047312
100362565	LOC100362565	0.121368	0.35832141	0.555312
289233	Pex19	0.121325	3.03E-08	3.80E-07
293165	Sox6	0.121282	0.11438194	0.253156
498952	Zfp1	0.121263	0.14116336	0.294464
313348	Klh19	0.121173	5.99E-10	9.49E-09
56083	Tgm2	0.121169	0.00399286	0.017115
365494	Nanos1	0.121095	0.07516573	0.1856
191571	Fat3	0.121038	0.02386865	0.075386
306104	Pibf1	0.120962	0.04359337	0.121326

432392	Fut8	0.120959	7.03E-07	7.16E-06
299194	Ptgr2	0.120957	0.00272159	0.012356
313620	Srrml	0.120892	2.39E-08	3.03E-07
303313	Scarfl	0.120875	0.34290698	0.539457
364788	Arl5b	0.120869	0.00481435	0.020072
192649	Prokr2	0.120789	0.02693023	0.082777
108349769	LOC108349769	0.120749	0.23470489	0.421058
500972	Stt3a	0.120707	2.99E-06	2.73E-05
500950	Zfp317	0.120706	0.02180084	0.070135
117550	Kif5b	0.12059	3.62E-31	2.14E-29
500077	Cyren	0.120569	0.20127361	0.376992
303511	Ikzf3	0.12053	0.67934722	0.820976
310626	Tmem79	0.12053	0.67934722	0.820976
501664	Fam3a	0.120483	0.00214704	0.010057
360990	Usp34	0.120449	4.11E-10	6.63E-09
312371	Avl9	0.120411	3.29E-05	2.44E-04
58954	Klf6	0.120392	1.62E-06	1.55E-05
294190	Olr1735	0.120388	0.93212922	0.97648
83574	Rxrg	0.12037	0.01903656	0.062932
310958	Zzz3	0.120363	0.00333012	0.014681
308476	Capn12	0.120333	0.62847587	0.785646
302680	Txlng	0.120331	0.01656713	0.056153
171071	Ppp1r15a	0.120321	2.71E-04	0.001638
288416	N4bp212	0.120154	0.01234794	0.044096
170908	Tesk2	0.120146	0.121933	0.2657
108348092	NEWGENE 1582771	0.12008	0.06028554	0.156657
63912	Fam129a	0.120011	4.85E-05	3.46E-04
297804	Plagl1	0.119965	0.14877421	0.304929
313433	RGD1564541	0.119963	0.01598566	0.054629
308283	Fbxo30	0.119925	0.00541204	0.022166
311726	Pcmt2	0.119896	2.21E-04	0.001363
312562	Rbsn	0.119878	2.89E-04	0.001731
362793	Clba1	0.119877	0.23636265	0.423275
691777	Lrrc75a	0.119802	0.04809426	0.130982
192211	Prom2	0.119733	0.61382858	0.774402
679711	LOC679711	0.119722	0.03980291	0.112855
683788	Fscn1	0.119713	1.91E-04	0.001192
689890	Srsf1	0.11971	8.94E-09	1.21E-07
314245	Zbtb25	0.119666	0.00670905	0.02657
309144	Ppp6r3	0.119656	1.92E-04	0.001195
25403	Cast	0.119626	1.60E-12	3.34E-11
83824	Cxhc4	0.119607	0.01596918	0.054582
291699	Stard4	0.119591	3.14E-04	0.001868
366957	Rac2	0.119405	0.13419404	0.284254
100910772	Cox7a1	0.11934	0.54384298	0.725162
24842	Tp53	0.119333	0.00636199	0.025444
287554	Tefm	0.119248	0.2944711	0.490656
361167	Bag4	0.119202	0.05963789	0.155334
59115	Ninj2	0.119103	0.51583356	0.701317
288532	Mcm7	0.119064	0.07920052	0.193035
311551	Pofut1	0.119058	0.1830526	0.353323
300860	Senp6	0.119042	2.46E-07	2.71E-06
311327	Kn11	0.11898	0.32464942	0.520166
680581	Rbm41	0.11898	0.32464942	0.520166
24525	Kras	0.118942	2.05E-07	2.27E-06
89842	Mbtps1	0.118927	1.34E-06	1.31E-05

362187	Ccdc34	0.118915	0.30460644	0.501489
303206	Ulk2	0.11889	1.33E-07	1.53E-06
298031	Susd1	0.118886	0.29518623	0.491504
502097	Dkk4	0.118761	0.10338566	0.234347
24208	Ar	0.118694	0.19697005	0.371562
289491	Mrpl1	0.118673	0.17916794	0.347941
310614	Gatad2b	0.118596	0.0189281	0.06266
360611	Copz2	0.118557	0.08192021	0.198394
171457	Cep170	0.118545	2.26E-09	3.33E-08
83617	Hipk3	0.118426	7.84E-07	7.91E-06
362862	Hsp90b1	0.118396	6.09E-21	2.29E-19
500629	Rdh14	0.118345	0.03494688	0.101597
301416	Coq10b	0.118321	0.02311189	0.07341
303057	Slu7	0.118311	8.95E-04	0.004699
100911140	LOC100911140	0.118171	0.88491684	0.947397
300649	Crtam	0.118171	0.83781273	0.919345
301057	Vill	0.118171	0.83781273	0.919345
315215	Mlc1	0.118171	0.83781273	0.919345
492821	Pmaip1	0.118171	0.47827809	0.667654
497761	Cd2	0.118171	0.7229364	0.848482
498664	Tex29	0.118171	0.83781273	0.919345
685680	LOC685680	0.118171	0.83781273	0.919345
102555083	LOC102555083	0.118171	0.60176458	0.765086
114093	St14	0.118171	0.46049715	0.651863
300884	Trim43a	0.118171	0.77221538	0.880781
312401	Ndnf	0.118171	0.58811851	0.753648
315652	Colca2	0.118171	0.77221538	0.880781
362948	Zfp647	0.118171	0.60176458	0.765086
304429	Psph	0.118171	0.09632535	0.222366
287765	Ddx5	0.118149	5.09E-27	2.59E-25
308959	Usp31	0.118141	2.87E-04	0.001719
298032	Inip	0.118094	0.02483017	0.077676
100361585	RGD1310951	0.11808	0.10646936	0.239484
304423	Tyw1	0.11804	0.08473505	0.203298
24797	Sst	0.118017	2.70E-05	2.04E-04
313481	Tut4	0.117899	0.091786	0.214908
500964	Prdm10	0.117837	0.10623212	0.239176
103690016	LOC103690016	0.117816	0.0729043	0.18138
293949	Hoga1	0.117795	0.17922857	0.347987
499337	Dock8	0.117784	0.11588257	0.255615
25511	Pemt	0.117752	0.33784582	0.53463
100909750	LOC100909750	0.117691	0.02869158	0.087053
300231	Dip2b	0.11769	9.71E-05	6.46E-04
310760	Cttnbp2n1	0.117664	4.40E-05	3.18E-04
289026	Sox13	0.117655	0.02239076	0.071549
116722	Psmd10	0.117639	0.14079939	0.293995
293488	Sgf29	0.117629	0.05970629	0.15547
362740	Mbip	0.117586	0.10506555	0.236942
24852	Tpm4	0.117561	1.39E-05	1.10E-04
306872	Cage1	0.117557	0.42908443	0.624191
313876	Birc6	0.117536	2.85E-08	3.59E-07
100359484	Zfp628	0.117495	0.09233168	0.215868
498858	Ccdc112	0.11743	0.10809496	0.242168
316129	Uhrf1	0.117405	0.47967263	0.668278
294925	Fndc3b	0.117386	2.87E-04	0.001719
307547	Zfp35	0.11721	0.04329187	0.120628

25609	Tub	0.117156	0.1962843	0.370893
499443	Lims1	0.117152	6.07E-06	5.21E-05
305268	Uba6	0.117135	1.53E-05	1.21E-04
292267	Armt1	0.117121	0.01966607	0.064609
499508	Zfyve16	0.1171	0.01144092	0.041377
296757	Napepld	0.117095	0.09379202	0.218184
652955	Rnf130	0.117083	0.00256484	0.011734
246152	Wdr44	0.117074	0.00104054	0.005352
362078	Ehmt1	0.117035	0.0206705	0.067271
315666	Npat	0.116955	0.02121152	0.068633
290959	Slc35d2	0.116951	0.171881	0.338553
246212	Sipa111	0.116903	3.93E-04	0.002278
361886	Adamts6	0.116864	0.44621199	0.638763
83803	Prkab1	0.116837	0.04609658	0.126884
289344	Hhat	0.116814	0.55477348	0.734389
26956	Ak3	0.116799	6.67E-04	0.003626
313087	Cpne3	0.116796	1.05E-11	2.04E-10
303919	Lrrc58	0.116752	0.00349282	0.015313
100360601	LOC100360601	0.116746	0.41802143	0.613865
25467	Irs1	0.116708	0.29177782	0.487234
685258	Eny2	0.116707	3.26E-04	0.001935
108353205	LOC108353205	0.116681	0.11830884	0.259495
689176	Tmem64	0.116659	0.01243394	0.044337
287747	Spata32	0.11665	0.61832085	0.777135
502603	Srsf11	0.116619	7.03E-06	5.93E-05
307667	Hmgxb4	0.116613	0.06553143	0.166851
363172	Lars2	0.116596	0.01650455	0.05598
310764	Inka2	0.116583	7.94E-05	5.40E-04
361843	Aifm2	0.116546	0.06762927	0.171026
313130	Pm20d2	0.116513	0.17751287	0.346067
314180	Mdga2	0.116457	0.02792177	0.085206
310506	Ppm11	0.11645	3.55E-08	4.40E-07
679812	Plekhg1	0.116357	0.01867928	0.06202
293627	Tspan4	0.116354	0.07796283	0.190579
309591	Trim39	0.11635	0.04769787	0.130181
25315	Ephx1	0.116239	0.00152149	0.007445
316369	Nck2	0.116154	0.08341877	0.200899
25369	Adora2a	0.116151	0.1733172	0.340607
366153	Nutml	0.116119	0.25848301	0.447854
294235	Ier3	0.116106	0.09920972	0.227179
362713	Selenoi	0.116089	4.30E-04	0.002461
499330	Nmrk1	0.116058	0.16530449	0.329071
291597	Trim36	0.116048	1.20E-09	1.84E-08
500086	Ttc26	0.116012	0.08117857	0.196923
288242	Chaf1b	0.115995	0.44496341	0.637791
360681	Narf	0.115984	0.0019983	0.009446
365192	Zfp324	0.115983	0.14894562	0.304723
290300	Tnfrsf19	0.115904	0.56629849	0.73654
29645	Ptprj	0.11588	9.86E-04	0.005115
298875	Laptm4a	0.115796	3.28E-17	1.02E-15
499442	Ccdc138	0.115791	0.27409872	0.466215
64563	Nphs1	0.115788	0.58014349	0.747705
308908	RGD1561034	0.115787	0.37701666	0.573918
100360606	Zranb1	0.11578	0.00135336	0.006719
308807	Prss23	0.11577	0.06485349	0.165679
690899	Vsir	0.11575	0.00397622	0.017059

312965	Ubxn2b	0.115695	0.0369975	0.106357
298443	Toe1	0.115619	0.19030073	0.363336
315634	Rbm7	0.115601	0.04840242	0.131746
304543	Mlec	0.115599	1.28E-12	2.70E-11
65134	Stx5	0.115594	0.00574824	0.023293
302811	Elf4	0.115586	0.31531064	0.509943
315434	Ankrd49	0.115557	0.06509476	0.166117
102552783	Ac1576	0.115524	0.3543621	0.55124
84587	Plcl1	0.115475	0.06299356	0.162189
362011	Dram2	0.115417	0.01626932	0.05534
690512	Tt114	0.115382	0.02431839	0.076502
295496	Trmt10a	0.115362	0.0129194	0.045794
362924	St3gall	0.115332	0.01556653	0.053494
497958	Gemin4	0.115329	0.05224341	0.13945
361238	Pxdc1	0.115314	0.11717755	0.257577
314249	Plekhg3	0.115308	2.38E-04	0.001459
298075	Ncbp1	0.115308	6.34E-04	0.003465
688705	Dgki	0.115303	4.42E-16	1.26E-14
691246	Rnf207	0.11528	0.26839753	0.459638
306487	Mtus1	0.115267	1.42E-07	1.63E-06
29534	Pex2	0.115204	0.06714161	0.169951
287615	Vezf1	0.115197	0.00123876	0.006218
100360457	Fmn2	0.115183	0.00465252	0.019517
100362554	Otulin	0.115168	0.01527957	0.052689
680515	Ckap2l	0.115168	0.54424007	0.725438
503169	RGD1564963	0.115163	0.38104843	0.578022
25454	Gfra1	0.115136	4.59E-14	1.14E-12
310667	Cers2	0.115131	7.42E-07	7.54E-06
361326	Dtdw2	0.115125	0.32928945	0.525148
84006	Prkci	0.115118	4.56E-05	3.28E-04
685072	Rarg	0.115092	0.00499533	0.020709
117259	Tra2b	0.115001	8.10E-06	6.76E-05
309595	Mdc1	0.114983	0.07261459	0.180824
378794	Trmt11	0.114925	0.31392409	0.508911
309361	Chuk	0.114888	0.01167781	0.042066
171337	Rap1b	0.114847	2.17E-10	3.64E-09
297417	Gfpt1	0.114779	9.84E-05	6.54E-04
58821	Zranb2	0.114736	1.18E-06	1.15E-05
306672	Tent4a	0.114724	0.0131651	0.046492
102556047	LOC102556047	0.114704	0.00107569	0.005504
298598	Necap2	0.114615	0.00697316	0.027433
102551716	Nkain2	0.114478	2.64E-05	2.00E-04
103694079	LOC103694079	0.114449	0.02534542	0.078899
308503	RGD1563307	0.114437	0.1437304	0.298218
360949	Cpeb2	0.114416	4.78E-08	5.82E-07
289754	Xbp1	0.114406	1.01E-05	8.32E-05
308923	Ahi1	0.114348	0.04743627	0.129728
300901	Plod2	0.114339	0.01243087	0.044343
497975	Znhit3	0.114336	0.05313862	0.141443
171433	Micu2	0.114288	9.99E-04	0.005173
315509	Jam3	0.114282	0.00111545	0.005677
81666	Gnaq	0.114282	9.32E-05	6.22E-04
310261	Eif5a2	0.114217	8.34E-17	2.50E-15
309126	Tnpo1	0.11421	2.02E-06	1.90E-05
310467	Tiparp	0.114181	0.00577993	0.023401
299510	Zbtb39	0.114136	0.08552125	0.204591

305310	Slain2	0.114106	1.70E-04	0.001075
365407	Cpsf7	0.114095	7.94E-04	0.004231
300996	Rbm5	0.113994	1.57E-05	1.24E-04
500985	Cbl	0.113976	5.34E-06	4.64E-05
297998	Nudt2	0.11394	0.00547941	0.022375
311919	Golga1	0.113929	0.00662315	0.026306
296995	Mrps33	0.113929	0.00915386	0.034433
497976	Rad51c	0.113896	0.31478581	0.509267
64521	Tspan2	0.113869	4.13E-05	2.99E-04
25275	Cnp	0.113834	4.41E-14	1.10E-12
501285	Yju2	0.113819	0.01796278	0.06007
501059	Kif9	0.113739	0.21319051	0.393355
365371	Tbx6	0.113725	0.77632376	0.883166
292767	Catsperg	0.113718	0.29369972	0.489585
362303	Klh17	0.113621	6.41E-04	0.003496
291164	Zkscan4	0.113476	0.32553465	0.521255
498840	Tmem173	0.113474	0.40799094	0.604825
499437	Mcm9	0.11344	0.12012204	0.262595
287076	Zfp263	0.113394	0.13325445	0.282861
304863	Odr4	0.113349	0.00154362	0.007536
499068	Zfp583	0.113342	0.12905349	0.276284
25695	Cebpd	0.113317	0.03150389	0.093807
85240	Plcb2	0.1133	0.54900399	0.729643
83537	Smpd2	0.113284	0.28021889	0.473622
361999	Anp32e	0.113281	3.80E-05	2.78E-04
292155	Hs2st1	0.113277	2.24E-05	1.72E-04
302378	Lpar4	0.113252	0.54752583	0.728364
304268	Ras111a	0.113252	0.54752583	0.728364
310775	Lrif1	0.113242	0.04832079	0.131561
301737	Fer	0.113214	0.01408332	0.049124
498412	Sun3	0.113181	0.7626691	0.874686
294978	RGD1307100	0.113162	2.10E-10	3.53E-09
305579	RGD1305110	0.113133	1.17E-07	1.36E-06
310378	Nnt	0.113073	0.0190319	0.062928
291409	Zfp236	0.11295	0.01909559	0.063029
100359678	Armcx4	0.112868	0.00857528	0.032598
65157	Amot12	0.112806	0.01671401	0.05656
689997	Fam91a1	0.112731	3.86E-06	3.45E-05
312812	Eps8	0.112695	0.03766482	0.107804
293166	Insc	0.112677	0.04443893	0.123211
311348	Cdan1	0.112674	0.03214231	0.095291
298874	Pum2	0.112631	9.51E-08	1.12E-06
302953	Slx4	0.112556	0.01372311	0.048061
686298	Ppm1m	0.112517	0.19524683	0.369556
294962	Gnb4	0.112474	0.00514995	0.021271
102552000	LOC102552000	0.11244	0.03304065	0.097348
304150	Usp25	0.112412	9.24E-05	6.18E-04
85247	S100a6	0.112389	1.74E-10	2.94E-09
85270	Tekt1	0.112318	0.62475602	0.782589
25290	Alox5	0.112313	0.39260811	0.589826
170910	Mtdh	0.112288	3.98E-05	2.89E-04
291259	Zmynd11	0.11227	1.81E-05	1.41E-04
29411	Ppt1	0.112254	1.33E-05	1.06E-04
29647	Cask	0.112226	0.01904846	0.06296
54267	Maf	0.112198	1.44E-07	1.64E-06
361688	Kmt5b	0.112144	0.00310948	0.013859

25126	Stat5b	0.112034	0.01159789	0.041818
365548	Pttglip	0.112002	6.44E-07	6.60E-06
311987	Rsbnl1	0.111964	0.06446544	0.165019
192223	Opn4	0.111922	0.36098429	0.55785
362040	Ostc	0.111815	3.73E-04	0.002174
501015	C2cd4b	0.111793	0.26570544	0.456505
303617	Bptf	0.111764	1.44E-04	9.26E-04
207118	Bod111	0.111763	2.72E-04	0.001645
313131	Rngtt	0.111756	0.0242171	0.076246
103690018	LOC103690018	0.111745	0.12395437	0.268843
498385	Lcor1	0.1117	0.06478853	0.165557
501039	Slc25a36	0.111646	1.87E-06	1.77E-05
25689	Htr5a	0.111628	0.69050665	0.828756
287774	Apoh	0.111628	0.57337073	0.742443
288308	Ltn1	0.111599	1.69E-04	0.001068
301076	Zfp445	0.111593	3.54E-04	0.002079
25097	Pld2	0.11155	0.01295416	0.045891
64831	Ireb2	0.111511	9.25E-05	6.18E-04
312182	Rbm28	0.111493	0.03957581	0.112328
306814	Phf2	0.111434	0.00377584	0.016347
291091	Serpinb1a	0.111433	5.26E-12	1.05E-10
302502	Cul4b	0.111375	1.45E-04	9.30E-04
360574	Utp6	0.111354	0.00106406	0.005455
498823	Ankrd29	0.111233	4.02E-04	0.002323
108350772	LOC108350772	0.111218	0.65677692	0.80336
287127	Cramp1	0.11116	0.02770154	0.084765
293514	Bcl7c	0.111069	0.06245824	0.160941
313593	Ago3	0.11104	0.00506502	0.020952
317371	Was	0.110946	0.49170981	0.679087
122799	Rps25	0.110923	1.64E-07	1.85E-06
25359	Tmpo	0.110825	0.00147058	0.007237
63845	Tmeff1	0.110813	0.00907406	0.034194
297123	Fkbp9	0.110806	3.51E-05	2.58E-04
64370	Metap2	0.110796	5.41E-05	3.82E-04
361580	Gtf2h1	0.110692	0.00433577	0.018334
299008	Nubpl	0.110676	0.27752812	0.4702
310621	Iqgap3	0.110641	0.26973637	0.461143
361103	Zmiz1	0.110635	9.80E-07	9.74E-06
299139	Slc38a6	0.110609	0.33156817	0.52781
297705	Aebp2	0.110594	0.00849952	0.032375
311403	Mtfr1	0.110591	0.14004534	0.292934
290270	Mphosph8	0.110555	7.87E-05	5.36E-04
679822	LOC679822	0.11054	0.84063119	0.920475
81638	Agtrlb	0.110538	0.70311527	0.837607
100910371	LOC100910371	0.110534	0.46563682	0.656504
308631	Nhs11	0.110531	0.31236982	0.507601
101241893	Trim34	0.110497	0.18388494	0.354462
362263	Ptprt	0.110473	3.37E-04	0.001991
85424	Elf1	0.11045	0.05355269	0.142366
100365928	Fam166b	0.110438	0.77307115	0.881309
363146	Dalrd3	0.110427	0.04769326	0.130206
307271	Mex3c	0.110356	0.00240563	0.011093
312046	Dbf4	0.11028	0.49515026	0.681762
288589	Rasa4	0.110222	0.47560598	0.665241
287954	Dgcr8	0.110217	0.02353925	0.074506
362609	Pum1	0.110214	5.73E-04	0.003161

304827	Kcnt2	0.110188	0.14233729	0.296329
315728	Thsd4	0.110182	9.67E-07	9.63E-06
83830	Gtf2a1	0.110154	0.00342013	0.015033
361015	Atxn7	0.110134	0.05719691	0.150292
312135	Tmem168	0.110086	0.01544233	0.053134
293038	Zfp592	0.110035	0.00374241	0.016236
84590	Rab27b	0.110029	0.00128986	0.006444
362779	Vrk1	0.110013	0.12891841	0.27615
171574	Dnm3	0.110012	3.52E-19	1.21E-17
282838	Gm2a	0.110002	2.02E-05	1.56E-04
497991	Med1	0.109899	0.00194225	0.00922
309156	Bbs1	0.109875	0.02104906	0.0682
363017	Taf1d	0.109847	0.17747428	0.346028
289315	Sde2	0.109808	0.06953426	0.17473
361057	Ints6	0.109743	0.04442892	0.123202
170945	Chrna2	0.109609	0.84357652	0.922083
287799	Cpsf41	0.109609	0.84357652	0.922083
29244	Gch1	0.109609	0.62885758	0.785969
298288	C8a	0.109609	0.84357652	0.922083
300776	Iqch	0.109609	0.78020358	0.885544
312668	Cacna2d4	0.109609	0.84357652	0.922083
502306	Igsf23	0.109609	0.78020358	0.885544
689055	Rad51ap1	0.109609	0.40250125	0.599627
691670	LOC691670	0.109609	0.84357652	0.922083
80722	Sost	0.109609	0.84357652	0.922083
84018	Synj2	0.109609	0.13629078	0.287035
298682	Atad3a	0.109593	0.03432903	0.100245
102552199	Tgm7	0.109579	0.20988715	0.388351
296285	Commd7	0.109507	0.01689171	0.057009
171121	Ppp6c	0.109476	1.59E-05	1.25E-04
299636	Tle2	0.109395	0.23048195	0.415439
25358	Timp3	0.10939	3.57E-27	1.84E-25
363188	Ubr2	0.109389	1.80E-04	0.00113
308968	Rbbp6	0.109385	9.12E-04	0.004782
360534	Trim11	0.109361	0.11483222	0.253798
25111	Chrm4	0.109337	0.40228668	0.599401
310677	Otud7b	0.109333	2.04E-04	0.001263
302553	Suv39h1	0.109303	0.13206482	0.281088
680258	Zfp748	0.109268	0.07995229	0.19437
361391	Cbfb	0.109268	1.25E-09	1.91E-08
65189	Stk3	0.109178	0.03886872	0.110634
685928	Zc3h10	0.109144	0.10441894	0.235987
362004	Gdap2	0.109121	0.00861618	0.032708
114612	Ddx39b	0.109089	2.67E-07	2.92E-06
316235	Polh	0.109058	0.19678833	0.371404
688903	Nme5	0.108983	0.3893145	0.586219
246174	Fgd4	0.108924	0.0591764	0.154449
64550	Top1	0.108923	0.00947088	0.035437
58852	Nr1h3	0.108918	0.13749996	0.288943
171407	Gprasp1	0.108906	1.87E-06	1.77E-05
29144	Canx	0.108898	3.32E-36	2.35E-34
500350	LOC500350	0.108858	0.32285672	0.518056
294975	Exosc9	0.108855	0.00988145	0.036713
304470	Sbno1	0.108822	4.00E-06	3.56E-05
691143	LOC691143	0.108822	0.37920864	0.576333
301038	Ubp1	0.108819	6.56E-04	0.003568

303211	Mmgt2	0.108813	0.06360461	0.163409
81661	Gmfb	0.108804	2.37E-14	6.03E-13
288620	Cct6a	0.108772	1.02E-07	1.20E-06
287418	Arhgef15	0.108772	0.18133972	0.351084
25597	Rasa2	0.108707	0.12479795	0.269966
313429	Pars2	0.108684	0.25186386	0.440149
293828	Mphosph10	0.108656	0.05058218	0.135969
367252	Mgat4a	0.108609	0.01162308	0.041893
24530	Lcat	0.1086	0.04028106	0.113922
286973	Elavl2	0.108542	1.34E-12	2.83E-11
170842	Tob1	0.108503	0.01618802	0.055182
360734	Dnajb11	0.108498	0.00366441	0.015944
300284	Alg13	0.108459	0.14455064	0.298976
360894	RGD1310587	0.108436	0.02696004	0.082842
691113	LOC691113	0.108409	0.10850262	0.242738
311530	Nanp	0.108403	0.31695338	0.511601
108348214	NEWGENE_1565644	0.108391	0.04639941	0.127588
25676	Rasa1	0.108357	5.17E-04	0.002891
304860	Np1	0.108325	0.12544503	0.27072
366889	Zdhhc17	0.108295	3.36E-05	2.49E-04
497811	Xdh	0.108294	0.02167145	0.069777
366300	Pcmt1	0.108288	1.35E-05	1.08E-04
294787	Nipbl	0.108276	0.00111907	0.005688
302935	Ubn1	0.108261	0.00850159	0.032376
289453	Abcg311	0.108255	0.00110312	0.005622
293452	Palb2	0.108209	0.42502849	0.620234
306279	Arhgap22	0.108127	0.01532392	0.052803
289085	Edem3	0.108101	4.66E-05	3.35E-04
84404	Gemin2	0.108089	0.23963245	0.426962
367021	Fam76b	0.108084	0.07595081	0.186957
295678	Sestd1	0.108073	2.37E-04	0.001453
108353138	LOC108353138	0.108056	0.61494031	0.775137
308215	Chd1	0.108046	0.01829794	0.060966
305955	Zc3h13	0.107985	0.00195233	0.009258
170698	Slcola2	0.107979	0.00390851	0.016799
295596	Orc4	0.107915	1.87E-04	0.001167
362955	Nol12	0.107913	0.18412049	0.354881
301010	Slc26a6	0.107848	0.1231929	0.267618
312251	Luc712	0.107829	4.66E-07	4.88E-06
297486	Ppp4r2	0.10781	7.13E-04	0.003848
290556	Gn13	0.107779	0.02454059	0.076909
192204	Ehd4	0.107761	1.64E-04	0.001036
114024	Acs13	0.107727	3.52E-05	2.59E-04
313770	Mxra8	0.10772	4.67E-05	3.35E-04
498355	Grxcr1	0.107663	0.69563903	0.832398
688018	Zfp106	0.107636	3.91E-12	7.92E-11
361802	Hsd17b8	0.107569	0.12673633	0.272703
25301	Cebpg	0.107536	9.65E-04	0.00502
362686	Cebpz	0.107494	0.00404187	0.017294
309512	Tnks2	0.107491	2.06E-04	0.001277
295062	Wwtr1	0.10749	0.06672353	0.169208
64823	Csnk1g3	0.107457	5.76E-05	4.05E-04
292095	Ttc13	0.107451	0.01287088	0.045639
304014	Adgrg7	0.107428	0.68258379	0.823189
498265	LOC498265	0.107407	0.56892988	0.73855
363225	RGD1305645	0.107391	0.14374311	0.298212

102550789	LOC102550789	0.107343	0.59270771	0.757694
302937	Anks3	0.107274	0.05969202	0.155454
294606	Fam172a	0.107139	0.00295493	0.013263
315723	Senp8	0.10712	0.30183209	0.498819
29487	Gstt2	0.107074	0.07960839	0.193756
305539	Spred2	0.107054	0.04773248	0.130239
289594	Nipal1	0.10703	0.40794668	0.604948
501126	Vwa3b	0.10703	0.73549126	0.857222
59302	Bmp15	0.10703	0.73549126	0.857222
54286	Prkg1	0.106977	0.0413058	0.116011
24205	Apc	0.10693	2.22E-10	3.73E-09
66012	Gucyla2	0.106904	0.38333054	0.580144
303469	Dlx4	0.106899	0.74964026	0.866212
312159	Fam3c	0.106864	0.00128035	0.0064
314545	Wdr75	0.106864	0.01203451	0.043163
316482	Crispld1	0.106793	0.20524906	0.38237
312132	Tmem106b	0.10677	7.55E-04	0.004052
171564	Pbld1	0.106711	0.25976858	0.449264
102554045	LOC102554045	0.106677	0.81649865	0.907777
25479	Vps35	0.106663	2.12E-13	4.86E-12
192179	Gpm6b	0.106593	6.76E-23	2.80E-21
25281	Nup153	0.106589	0.0012985	0.006484
102550851	LOC102550851	0.10658	0.08685326	0.206791
246282	Zfp91	0.106567	2.27E-06	2.11E-05
301516	Stk36	0.106529	0.2184083	0.399922
305012	Kif26b	0.106512	0.06952498	0.174753
294283	Rgl2	0.106489	0.04037462	0.114119
363517	Plxb3	0.106463	2.14E-04	0.001323
362251	Rbm39	0.106459	2.63E-06	2.43E-05
432360	Sgce	0.106454	0.00593789	0.023919
170911	Pik3ca	0.106425	6.43E-05	4.47E-04
306455	Cdkn2aip	0.10642	0.07818366	0.191045
362751	Tmx1	0.1064	4.42E-05	3.19E-04
688405	Cdk2ap2	0.106343	0.03317516	0.097639
308692	Peg12	0.106321	0.78283009	0.887124
100911798	Seh1l	0.106287	0.01803774	0.060279
498873	MGC105567	0.106233	0.19639932	0.370964
290533	Slmap	0.106232	1.22E-05	9.87E-05
296281	Plagl2	0.106198	0.19241995	0.366025
312574	Lrig1	0.106097	0.01560556	0.05358
294065	Kcnv2	0.106095	0.34137287	0.538199
361449	Ppil4	0.106089	0.05453153	0.144545
294924	Mecom	0.106076	0.30648036	0.50249
680229	Sgcb	0.106058	4.40E-06	3.88E-05
287159	Pigq	0.106025	7.93E-05	5.39E-04
117060	Ubr5	0.105993	2.22E-09	3.28E-08
108350812	LOC108350812	0.10599	0.54732203	0.728373
252832	Zc3hav1	0.105973	0.00109177	0.005571
289277	Desi2	0.105967	0.05165817	0.138198
366959	Gcat	0.105937	0.26944021	0.46076
299331	Hsp90aa1	0.105926	3.49E-119	#####
24812	Tap2	0.1059	0.10783978	0.241625
65144	Pdzk1	0.105899	0.11493436	0.253906
641520	Popdc3	0.105858	0.0478753	0.130497
102548228	Bivm	0.105852	0.03832586	0.109285
304266	Gbp1	0.105845	0.82761935	0.913316

362925	Zfat	0.10583	0.07370977	0.182882
103690550	LOC103690550	0.105787	0.78387503	0.887832
689721	Rnf212	0.105787	0.69810461	0.834405
499653	Gon4l	0.10574	0.01336753	0.047058
298168	Tenm1	0.105691	0.05379845	0.14294
79127	Dck	0.105682	0.2514587	0.439643
501550	Trappc2	0.105674	1.35E-05	1.08E-04
304157	Nrip1	0.105665	0.00371744	0.016142
292483	Stx11	0.105627	0.35267084	0.549596
54287	Eif2ak2	0.105624	0.00357473	0.015611
305624	Pcgf3	0.105608	0.04922027	0.133552
308266	Zc3h12d	0.105593	0.60260774	0.765877
365216	Cadm4	0.10558	5.36E-09	7.48E-08
689826	Ncmap	0.105525	1.02E-05	8.36E-05
102553119	Mettl21a	0.105488	0.36377129	0.560293
361689	Unc93b1	0.105487	0.05520291	0.145999
25744	Nf2	0.105469	0.00253712	0.011626
102556337	LOC102556337	0.105452	1.15E-04	7.52E-04
361243	Cdkal1	0.1054	0.23271126	0.418507
353229	Sgms1	0.105363	0.01562223	0.053608
304799	Ppp1r15b	0.105353	0.00529662	0.021801
29624	Alox5ap	0.105347	0.33317609	0.529175
299976	Rrm2b	0.105334	0.09821197	0.225545
691506	Ttc19	0.105315	7.55E-04	0.004052
314614	Plppr3	0.105282	0.1428755	0.297189
100362634	Kmt2d	0.105258	1.71E-07	1.92E-06
296884	Glcci1	0.105231	0.05425923	0.143963
289758	Polr2d	0.105223	0.16304714	0.326283
362184	Dnajc24	0.105208	0.23312615	0.418936
303702	Engase	0.105203	0.1081284	0.242214
305497	Cobl	0.105171	5.98E-04	0.003284
500364	Sspn	0.105121	0.02724594	0.083599
170900	Rbm14	0.105117	0.05956746	0.155193
102547287	LOC102547287	0.105086	0.13651363	0.287409
291677	Dnajc18	0.105079	0.03496491	0.101603
682999	Aida	0.105022	4.56E-05	3.28E-04
691387	LOC691387	0.104993	2.08E-08	2.67E-07
310659	Rfx5	0.104981	0.03582312	0.103528
29662	Gdi2	0.10497	2.07E-15	5.69E-14
65166	Sec11a	0.104966	0.01915314	0.063197
498549	Akap11	0.104905	1.09E-12	2.33E-11
498386	Cc2d2a	0.104892	0.05587513	0.147531
310250	Zfhx4	0.104892	0.11384059	0.252192
499800	Ly75	0.104874	0.2219249	0.404107
687713	Gucd1	0.104848	0.25328718	0.441826
171387	Rnf39	0.104834	0.52266941	0.706927
314830	Krr1	0.104804	0.1638644	0.327574
81505	Emp3	0.104782	0.00107386	0.005499
83534	Tpp1	0.104726	3.38E-04	0.001994
300691	Nnmt	0.104719	0.05483388	0.145225
25549	Slc18a2	0.104661	5.36E-04	0.002976
501512	RGD1559731	0.104573	0.31629489	0.511058
361086	Scel	0.104573	0.228444	0.412938
114217	Yme111	0.104552	4.10E-04	0.002365
291314	Sephs1	0.104533	0.00968238	0.036072
312828	Etnk1	0.104519	9.44E-12	1.83E-10

100360619	LOC100360619	0.104499	0.87648201	0.942552
25046	Pigr	0.104473	0.64449229	0.797917
100362279	Trappc31	0.104423	0.08475316	0.203316
100910575	LOC100910575	0.104422	0.50033376	0.686962
25049	Atxn1	0.104363	0.22753137	0.411757
89816	Picalm	0.10434	8.60E-12	1.69E-10
500030	Phf14	0.104338	4.42E-04	0.002519
25718	Igflr	0.104326	0.00804792	0.030933
684274	Mtif3	0.104316	0.10851029	0.242727
140668	Abcc3	0.104302	0.19767871	0.372457
94267	Nudt4	0.104275	1.42E-06	1.37E-05
315036	Vps13b	0.10426	3.03E-04	0.001803
287379	Shmt1	0.104231	0.61044934	0.771928
360609	Cbx1	0.104169	0.01919139	0.063312
29508	Nfya	0.104146	0.07772566	0.19017
287129	Tmem204	0.104139	0.15347702	0.31165
680537	Nsd2	0.104133	3.50E-06	3.14E-05
84487	Slc17a6	0.104111	2.51E-07	2.76E-06
108351875	LOC108351875	0.104029	0.72203141	0.847891
362498	Mdn1	0.104015	0.00907412	0.034187
103692804	LOC103692804	0.103977	0.80086882	0.897948
292690	Ppmln	0.103977	0.70050688	0.83586
108349754	LOC108349754	0.103932	0.7851595	0.888336
25372	Grk3	0.103896	0.01291762	0.045796
499313	Zbtb3	0.103872	0.42803347	0.623186
100911807	LOC100911807	0.103822	0.64149206	0.795495
499677	Lix11	0.103819	0.01431379	0.049809
691145	Immp11	0.103796	0.17859564	0.347396
303754	Rab40b	0.103723	0.30941652	0.504481
114248	Pde6h	0.103679	0.81465337	0.906784
83507	Parg	0.103609	0.01363728	0.047822
361018	Fam107a	0.103608	0.01338143	0.04709
100365679	Dennd5b	0.103555	0.12764055	0.274153
288264	Ifnar1	0.103528	1.96E-05	1.52E-04
309081	Dock1	0.103476	0.00172764	0.008328
100911597	Myh9	0.103456	3.20E-06	2.90E-05
313757	Ski	0.103353	3.61E-04	0.002115
83840	Rps6kb1	0.103348	0.01009184	0.037327
688041	Suz12	0.103287	0.0054694	0.022353
299180	Med6	0.103257	0.08452008	0.202936
502736	Cpa4	0.103241	0.8181026	0.908605
317163	Eif1a	0.103241	3.86E-04	0.002239
59087	Nxf1	0.103225	1.17E-04	7.67E-04
500526	Mknk1	0.103189	0.02891086	0.087565
302422	Pdzd11	0.103186	0.02104015	0.068183
362505	Cc127	0.103154	0.29403646	0.490061
287585	Ppml1d	0.103138	0.1346127	0.284634
65168	Scamp2	0.103122	0.02775451	0.084872
367235	Fam135a	0.103121	0.0122508	0.043832
317589	Stk26	0.103097	0.27261563	0.464605
311715	Tcf15	0.102998	0.56575978	0.736393
288771	Rbms2	0.102911	0.0012602	0.006311
298024	Akap2	0.1029	6.33E-06	5.40E-05
500247	Aplf	0.102898	0.1318969	0.280793
171058	Rab3c	0.102793	0.00104046	0.005353
307189	Neb1	0.102785	0.07445485	0.184155

361282	Plxdc2	0.102748	2.40E-07	2.64E-06
81527	Nrp2	0.102704	5.56E-06	4.80E-05
301665	Srbd1	0.102625	0.03479217	0.101271
25562	Eloa	0.102607	0.01440171	0.050079
100361684	Simc1	0.102502	0.17250798	0.339402
362324	Mios	0.102459	0.13911919	0.291573
266774	Zfp597	0.102451	0.28773003	0.482336
25600	Utrn	0.102443	2.09E-14	5.31E-13
287798	MGC95210	0.102423	0.24603342	0.434385
360959	Htra3	0.102329	0.1129302	0.250759
100912115	LOC100912115	0.102295	0.00592688	0.023889
303292	Ankfy1	0.102284	1.88E-05	1.46E-04
293589	Paox	0.102282	0.03023823	0.090691
360571	Rab34	0.102277	0.02299768	0.073096
117106	Scarb2	0.102264	1.56E-04	9.90E-04
317464	Msl3	0.102234	0.01475116	0.051107
25083	Adra2a	0.102229	0.32163108	0.516786
306231	Pde12	0.102229	0.28823881	0.483019
64565	Tmprss11d	0.102229	0.70284848	0.837604
25554	Snai2	0.102229	0.7411206	0.859967
282580	Stab2	0.102229	0.84873007	0.924797
294395	Rfx6	0.102229	0.84873007	0.924797
361658	Btbd16	0.102229	0.61380587	0.77445
685612	Col26a1	0.102229	0.61380587	0.77445
315530	Arhgap32	0.102153	3.41E-04	0.002009
317432	Kdm5c	0.102083	0.00347778	0.015258
679110	Frat2	0.102081	0.17090051	0.336936
498764	Jcad	0.10204	0.00992542	0.036834
310877	Tifa	0.102036	0.10833333	0.242445
685082	Zfp318	0.102009	0.0091704	0.034489
309969	Ap3b1	0.102002	2.89E-04	0.001728
317335	Ddx3x	0.101983	8.10E-14	1.95E-12
64551	7-Sep	0.101967	3.25E-13	7.29E-12
404658	Mrgprb4	0.101937	0.02347427	0.074313
298033	Snx30	0.101918	0.04576598	0.126229
299198	Fcf1	0.10191	0.03053179	0.09137
83789	Rps2	0.101841	3.25E-15	8.78E-14
114765	Wbp4	0.101821	6.73E-04	0.003652
113992	Ugt1a6	0.101765	0.24345786	0.431517
29750	Galnt7	0.101762	0.1761034	0.344306
64200	Hnrnpf	0.10176	9.93E-06	8.17E-05
171111	Rab26	0.101703	0.49271411	0.680178
681943	Tmed8	0.101691	0.00242804	0.011189
362519	Smc2	0.101685	0.07154074	0.178664
361047	Ska3	0.101668	0.27282133	0.464831
305583	Pus10	0.101663	0.05072627	0.136317
64016	Qtrt1	0.10166	0.35139067	0.54814
305270	Cenpc	0.101646	0.08499116	0.203733
681578	Rnf13	0.101632	4.09E-07	4.33E-06
497988	Hoxb4	0.101579	0.38355158	0.580202
81645	Chrm2	0.101563	0.22343047	0.406228
292949	Perp	0.101544	0.01790512	0.059909
360893	Taf1a	0.101523	0.30597204	0.501829
307485	Taf7	0.101492	0.24762029	0.436296
29386	Mecp2	0.101366	9.02E-05	6.04E-04
314721	Anks1b	0.101358	0.00678839	0.026839

29682	Kcnq3	0.10127	0.09356819	0.217796
81510	Mia	0.101257	0.61544942	0.775368
680419	Rsu1	0.101224	4.22E-04	0.002419
686295	Wdr82	0.101201	0.00657504	0.026142
25336	Nfyb	0.101193	0.05179195	0.138497
29556	Myh6	0.101187	0.03627392	0.104577
100365363	LOC100365363	0.101147	0.27736648	0.47001
363735	Gabpa	0.101142	0.0085403	0.032498
314075	Pnpla8	0.101121	6.58E-07	6.73E-06
302972	Amdhd2	0.101065	0.11251525	0.250012
498642	Rbpms	0.101042	0.12364753	0.268422
361846	Vps26a	0.100973	1.36E-04	8.76E-04
313591	Thrap3	0.100964	9.24E-06	7.64E-05
81660	Gatm	0.100933	3.58E-04	0.002101
367909	Tceal8	0.100922	1.85E-04	0.001158
499445	Calhm4	0.100874	0.67175021	0.815157
502292	Zfp773-ps1	0.100874	0.67175021	0.815157
450231	Krt42	0.100866	0.80541311	0.900499
498269	Fam78b	0.100831	0.03343793	0.09826
685374	Ankrd13c	0.100804	8.99E-05	6.02E-04
170895	Cetn3	0.100799	0.04344797	0.120992
312030	Scaf11	0.100657	8.42E-04	0.004455
365037	Sash1	0.100653	0.00177474	0.008527
114212	Chek2	0.100639	0.44139689	0.634637
108350576	LOC108350576	0.100577	0.50040929	0.687017
406867	Ly6g5b	0.100541	0.70513186	0.838279
362799	Rapgef5	0.100492	0.00662822	0.026321
100911190	LOC100911190	0.100439	0.61185229	0.773086
25313	Egf	0.100409	0.52705878	0.710643
306630	Abhd13	0.100393	0.06828663	0.172437
308871	Rnf121	0.10039	0.16087409	0.323054
317425	Phf8	0.100376	0.00726802	0.028382
498301	Wdr26	0.100345	1.90E-05	1.48E-04
100910990	LOC100910990	0.100327	0.0097317	0.036228
113976	Acs14	0.100304	9.11E-04	0.004774
102556092	LOC102556092	0.100284	6.52E-04	0.003552
103693197	LOC103693197	0.100268	0.86662735	0.935865
308912	Dchs1	0.100249	0.17725227	0.345701
366507	Lzic	0.100243	0.02591607	0.080242
364681	Rnf144b	0.100196	0.1847145	0.355737
54400	Bet11	0.100097	0.08733486	0.207341
100363539	Mrpl33	0.100097	0.07307273	0.181728
85274	Prdx4	0.100095	0.03407177	0.099738
100911312	LOC100911312	0.100078	0.34522593	0.541762
316034	Cnot10	0.100044	0.01596156	0.054566
681185	Cenph	0.099991	0.74379406	0.861652
306587	Tcta	0.099957	0.00221528	0.010318
691105	Fancg	0.099948	0.37993108	0.576971
368062	Ankib1	0.099924	0.00115	0.00583
102552463	Zfp446	0.099923	0.07293383	0.18143
308944	St5	0.099913	0.00810787	0.031113
690263	Tmem179b	0.099898	0.19560848	0.370057
316519	Slc11a1	0.09988	0.40797422	0.604894
102551980	LOC102551980	0.099863	0.26926105	0.460744
682967	Tmx3	0.099842	2.87E-06	2.63E-05
499806	Erich2	0.099834	0.48049571	0.669229

287929	Mzt2b	0.099827	0.03888017	0.11065
298374	Prpf38a	0.099785	0.08221457	0.198854
293546	Gprc5b	0.099771	0.00192642	0.009161
686781	Ppp1r13l	0.099718	0.23332103	0.419168
287191	Rars	0.099708	0.00261942	0.011943
362093	Wdr5	0.099604	0.09412283	0.218739
65196	B4galt6	0.099569	0.00738363	0.028733
689249	Rspryl	0.099555	0.08255859	0.199483
310643	Efna4	0.099555	0.67372181	0.816535
305911	Zmym5	0.099535	0.00220261	0.010269
364458	Kctd12	0.099456	4.79E-11	8.57E-10
313438	Dock11	0.099445	4.16E-08	5.12E-07
289400	Camsap2	0.099407	2.96E-10	4.88E-09
298079	Aldh1b1	0.099369	0.48149107	0.670321
497933	Slc25a35	0.099369	0.3195051	0.514455
117186	Sh3bp5	0.099365	0.05127671	0.137544
309928	Mctp1	0.099363	0.02497761	0.078022
313391	Atg4c	0.09936	0.05994464	0.15592
361314	Arap3	0.099297	0.01539188	0.052999
501125	Fam178b	0.099295	0.43027186	0.624488
25165	Zfp386	0.099277	0.07372893	0.182906
314894	Mon2	0.099271	0.00128744	0.006434
310753	Lrig2	0.099245	0.00435258	0.018397
361028	Mapklip1l	0.099201	0.02649414	0.0817
290537	Appl1	0.099168	2.26E-04	0.001391
365462	Lcor	0.099148	0.07202168	0.179677
309548	Shoc2	0.099123	8.53E-04	0.004503
29614	Psme2	0.099093	0.00327169	0.014464
691149	Capza1	0.099051	1.29E-08	1.72E-07
362547	Alg6	0.099049	0.12701938	0.273127
680668	Tpk1	0.099044	0.18790318	0.360203
317312	Mospd1	0.09901	0.00870185	0.032967
297342	Elmod3	0.098973	0.28105236	0.474651
288080	Stxbp5l	0.09896	0.13616535	0.286803
310791	Slc25a24	0.098952	0.01505134	0.051986
498034	Fn3k	0.098909	0.40122681	0.598244
679805	Mei4	0.098909	0.79066184	0.891965
81676	Hnmt	0.098909	0.64567752	0.798865
500693	Bbof1	0.098811	0.32431098	0.519864
307801	Gfod2	0.098794	5.60E-04	0.0031
680663	LOC680663	0.098726	0.79445455	0.893808
360612	Scrn2	0.098708	0.28879721	0.483699
291095	Gmds	0.098689	0.10915269	0.243878
304431	Sfswap	0.098646	0.01121381	0.040695
315989	Manf	0.098589	0.00543988	0.022261
363167	Ulk4	0.098509	0.28927076	0.484279
501038	LOC501038	0.098485	0.05622219	0.148242
29577	Hes1	0.098422	0.15034204	0.306921
84582	Hdac7	0.098413	0.04372528	0.121622
362166	Phf21a	0.098404	0.08097807	0.196462
84429	Kcnk9	0.098377	0.51664888	0.701674
313155	RGD1359108	0.098325	0.00160927	0.007818
102555183	LOC102555183	0.098296	0.02417133	0.07619
363528	363528	0.098264	0.38441068	0.58104
79214	Galnt1	0.098258	0.00146859	0.007229
293860	Flna	0.098177	8.06E-08	9.54E-07

64206	Tdo2	0.098174	0.50010552	0.686699
303926	Igsf11	0.098075	4.78E-05	3.42E-04
291962	Elmo3	0.098071	0.41518359	0.611253
691657	Crip1	0.097976	0.01126159	0.040837
494219	Eogt	0.09793	0.03542466	0.102673
315987	Dcaf1	0.097928	0.01446802	0.050245
108349551	NEWGENE_1309147	0.097887	0.70634481	0.839355
117250	Dnah6	0.097851	0.64739823	0.80024
361916	Chmp4c	0.097851	0.74638013	0.86386
685750	Aldh8a1	0.097851	0.64739823	0.80024
364996	Chtf8	0.097783	0.00375457	0.016281
25285	Igfbp5	0.097766	0.00129674	0.006477
64030	Kit	0.097765	0.00220383	0.010272
310914	Bmpr1b	0.09774	0.1253511	0.27067
314910	Nab2	0.097673	0.0089031	0.033623
304300	Pap01b	0.097667	0.64989631	0.802209
287475	Med31	0.09765	0.11098106	0.247151
303342	Ssh2	0.097648	0.00742053	0.028842
117056	H3f3b	0.097643	7.60E-10	1.19E-08
361180	Grtp1	0.09759	0.1963591	0.370924
56819	Extl3	0.097572	2.07E-04	0.001283
60628	Cxcr4	0.097542	0.08029718	0.195084
498188	RGD1562310	0.09746	0.1966486	0.371177
367308	Alpg	0.097449	0.33145807	0.527679
361967	Ppid	0.097337	0.00350359	0.01535
25506	P4hb	0.097333	5.32E-09	7.45E-08
108353410	LOC108353410	0.09733	0.70953323	0.840208
81758	Rbl2	0.097327	0.00308309	0.013764
685882	Syndig11	0.097302	0.0161072	0.054955
29627	Gria2	0.097281	0.02226751	0.071275
295704	Ube216	0.097271	0.05759698	0.151155
78971	Birc3	0.097252	0.54329748	0.724739
24284	Csn1s1	0.097239	0.4427576	0.635586
25065	Slc12a1	0.097158	0.57667731	0.744749
300126	Gtse1	0.097158	0.42983271	0.624421
89784	Idi1	0.097128	1.32E-06	1.29E-05
100125368	LOC100125368	0.097122	0.40038787	0.597414
311191	Ckap5	0.097081	4.33E-09	6.17E-08
102553842	Hoxd11	0.097072	0.3621795	0.558609
29515	Atn1	0.097068	4.40E-05	3.18E-04
301517	Cyp27a1	0.097052	0.10047154	0.229462
500308	Cecr2	0.097049	0.21733116	0.398716
299848	RGD1565117	0.097047	0.67478734	0.817462
259224	Npw	0.097021	0.67755253	0.819561
29237	Penk	0.097021	0.30843406	0.503267
293112	Crebzf	0.096963	0.00183692	0.008792
362165	Creb311	0.096959	0.00856298	0.032571
114116	Cdc42bpa	0.096932	5.48E-06	4.74E-05
64019	Pag1	0.096909	0.53763497	0.719757
287595	Dhx40	0.096854	0.00656667	0.02612
313574	Nt5c1a	0.096784	0.41585573	0.611817
362607	Kpna6	0.09678	0.02634876	0.081331
307947	Set	0.096693	2.01E-04	0.001248
300834	Wdr72	0.096669	0.62334021	0.781175
685611	Phldb2	0.096641	0.33953892	0.536151
100364027	Hkdc1	0.096611	0.47231405	0.66268

308501	Cd22	0.09661	0.07929022	0.19313
290946	Fastkd3	0.096589	0.17271744	0.339744
100360342	Msh6	0.09655	0.11295445	0.250783
291797	Thoc1	0.096549	0.06497969	0.16589
311578	Sogal	0.096542	0.23489986	0.421249
363448	Dynlt3	0.096528	4.59E-14	1.14E-12
299802	Lgr5	0.096527	9.40E-04	0.004903
313906	Zfp512	0.096515	0.01558708	0.053545
289997	Dlgap5	0.096475	0.33524341	0.531749
29232	Clcn2	0.096472	0.01920056	0.063331
362112	Tor2a	0.096453	0.12633315	0.272081
64013	Pdcl	0.096403	0.05745273	0.15086
497918	Smcr8	0.096391	0.11574206	0.255335
59075	Grk5	0.096376	0.00319525	0.014202
315686	Peak1	0.096288	1.63E-04	0.001036
100911887	LOC100911887	0.096263	0.84051837	0.920404
56003	3-Sep	0.096254	0.05534599	0.146317
102552920	LOC102552920	0.096202	0.07667591	0.188328
373544	Ermp1	0.096196	2.24E-05	1.71E-04
501033	LOC501033	0.096159	0.04078178	0.115014
311604	Zhx3	0.096117	0.02181264	0.070149
83624	Ppig	0.09611	7.17E-04	0.003868
311567	Itch	0.096101	1.36E-04	8.75E-04
25348	Rps29	0.096095	1.99E-07	2.21E-06
140866	Dgka	0.09606	0.04531369	0.125181
309774	Gopc	0.096036	0.00181859	0.00872
316001	Inka1	0.096026	0.33633911	0.53291
683722	Fgfr1op	0.09594	0.0335963	0.098589
100362684	LOC100362684	0.095927	0.51934667	0.704083
252885	Hoxc6	0.095841	0.10739053	0.240958
292964	Rpl36a	0.09581	0.00281603	0.012724
102552675	LOC102552675	0.095803	0.7938069	0.893449
287070	Nlrc3	0.095803	0.7938069	0.893449
302328	Pof1b	0.095803	0.85337277	0.927786
308436	Cxcl17	0.095803	0.85337277	0.927786
499926	Bpifb1	0.095803	0.85337277	0.927786
56227	Espn	0.095803	0.85337277	0.927786
64576	Ptpv	0.095803	0.60115444	0.764438
65135	Dpys	0.095803	0.7938069	0.893449
290354	Pdlim2	0.095803	0.32809355	0.523767
292124	Tectb	0.095677	0.73608425	0.857572
252924	Nr2c1	0.095645	0.04863845	0.132275
300862	Irak1bp1	0.095636	0.2678757	0.458992
291964	Fhod1	0.095635	0.19347077	0.367217
365652	Col4a3bp	0.09559	9.31E-07	9.28E-06
362627	Rcan3	0.09553	0.22085868	0.402859
286928	Abi2	0.095493	4.08E-04	0.002351
317241	Rlim	0.095465	0.00385577	0.016629
297498	Crbn	0.095465	9.97E-12	1.93E-10
361920	Ythdf3	0.095424	8.70E-04	0.004585
308362	Zfp110	0.095415	0.0067089	0.026575
685462	Emid1	0.095363	0.03151272	0.09379
290365	Nudt15	0.09536	0.33797192	0.534563
29511	Padi2	0.095315	0.00362122	0.015778
311437	Rassf2	0.095257	0.07466129	0.18457
24560	Cd200	0.095254	9.74E-06	8.03E-05

362892	Mbd6	0.095238	0.0029299	0.01316
297392	Tex261	0.095232	2.89E-04	0.001727
362559	Zygl1b	0.095229	2.05E-04	0.00127
302642	Sat1	0.095184	2.73E-06	2.51E-05
291705	Iws1	0.095149	0.11552318	0.254911
79121	Arf6	0.095121	0.00760684	0.029452
291071	Rpp40	0.095117	0.08582005	0.204972
246325	Kcnh8	0.095101	0.44766963	0.639744
266760	Nalcn	0.095057	2.31E-04	0.001418
308482	Zfp84	0.095033	0.06650907	0.168821
315664	Kdelc2	0.095002	0.00906382	0.034162
65165	Tmed2	0.095001	1.21E-05	9.80E-05
24954	Insr	0.094964	0.12098038	0.263956
364205	Fbxo48	0.094948	0.4082124	0.605012
116502	Bak1	0.094929	0.11105367	0.247284
554172	Pxdn	0.094924	2.65E-04	0.001606
361039	Lmln2	0.094831	0.7681306	0.877936
59077	Grk4	0.09483	0.42944368	0.624189
24680	Prkca	0.09477	1.86E-13	4.29E-12
64157	Ddah1	0.094755	1.78E-06	1.70E-05
360860	Cop1	0.094739	0.00320966	0.014249
108348107	LOC108348107	0.094705	0.86007285	0.931587
303029	Ranbp17	0.094689	0.20294357	0.379151
362731	Snx13	0.094683	1.27E-04	8.23E-04
360969	Castor1	0.094672	0.23370405	0.419698
294799	Brix1	0.094661	0.1046319	0.2363
286900	Selenos	0.094651	0.00918877	0.034551
498028	Cep295nl	0.094616	0.68124086	0.821986
499486	Gpr150	0.09461	0.59976188	0.763024
117279	Cflar	0.094596	0.00735223	0.028652
503027	Map4k5	0.094554	9.65E-04	0.005018
304302	Tnrc18	0.094546	8.60E-04	0.004538
499419	RGD1564149	0.094536	0.79212324	0.892873
291469	Srfbp1	0.094532	0.12446139	0.269421
406195	Tcf19	0.094506	0.29899342	0.495547
100359558	Fam177a1	0.094498	0.00794948	0.030654
83619	Nfe212	0.094488	0.00383859	0.016574
103690937	LOC103690937	0.094472	0.00169479	0.008184
85491	Vamp7	0.094462	5.18E-05	3.67E-04
679272	9-Mar	0.094447	0.09449112	0.219301
309858	Sec63	0.094414	3.06E-05	2.29E-04
58942	Cacnb4	0.094378	1.37E-04	8.82E-04
363466	Reps2	0.094366	3.54E-04	0.00208
362456	Arhgdib	0.09435	0.05434444	0.144129
300258	Myg1	0.094338	0.06014619	0.156316
302640	Acot9	0.094334	0.0015418	0.007531
684439	Cenpo	0.094324	0.60389349	0.767101
361601	Abhd17c	0.094287	0.10530015	0.237415
100910202	Crnk11	0.094259	0.28070056	0.474183
362224	Kat14	0.094217	0.24044839	0.427936
298533	Ago4	0.094184	0.37577089	0.572525
367171	Map4	0.09413	4.49E-17	1.39E-15
499893	Ap5s1	0.094116	0.40109256	0.598137
314859	Mdm1	0.094034	0.24671507	0.435346
117051	Arfrp1	0.094016	0.01864919	0.061942
29555	Vipr2	0.094008	0.37980359	0.576869

294392	Kpna5	0.093983	0.03272998	0.096567
309312	Gldc	0.093976	0.34337048	0.539785
65027	Chd8	0.093922	8.07E-04	0.004283
311020	Rbm43	0.093873	0.28622098	0.480525
360807	Rsrc2	0.093781	0.01125801	0.040832
293844	Haus7	0.093771	0.17495053	0.342615
288092	Tmem39a	0.093758	0.21481262	0.395276
685925	Rs11	0.093752	0.38261852	0.579527
302678	Syap1	0.093742	0.01584962	0.054242
679578	Ldlrad4	0.093695	0.09163363	0.214684
362802	Atp6v1c2	0.093594	0.35480539	0.551614
108348061	LOC108348061	0.093585	0.00389412	0.016753
315880	Tbc1d2b	0.093559	0.02573312	0.079806
290235	Nop9	0.093426	0.12936414	0.2767
314352	Sel11	0.093362	1.85E-06	1.76E-05
303763	Zfp207	0.09334	3.27E-05	2.43E-04
301363	Map4k4	0.093315	1.51E-08	1.99E-07
103693553	LOC103693553	0.093307	0.7263173	0.850877
311550	Ccm21	0.09328	0.19261418	0.366284
298376	Gpx7	0.093272	0.13536484	0.28559
316090	Fam198a	0.093244	0.52712619	0.710684
25625	Tnfrsf1a	0.093221	0.00471992	0.019739
100912615	LOC100912615	0.093188	0.60399482	0.767179
359726	Rnase1	0.093128	0.03355412	0.09848
680466	Plpp5	0.093109	0.18870362	0.361301
361073	Cog3	0.093099	0.01523247	0.052555
310811	Palmd	0.093061	0.01887774	0.062526
362699	Yipf4	0.093048	0.00398974	0.01711
311508	Gzfl	0.093036	0.10756616	0.241182
498327	Abcg3	0.093007	0.36110136	0.557488
171411	Tmem176b	0.092893	1.20E-24	5.49E-23
292016	Cmtr2	0.092891	0.27464622	0.466729
499974	Nup12	0.092891	0.30303443	0.500329
363676	Zpbp2	0.092891	0.71575312	0.844318
25508	Pam	0.092885	1.12E-08	1.50E-07
252894	Pcdhga4	0.092837	0.41844901	0.614114
50692	Plaur	0.092834	0.20262259	0.378737
259269	Erc2	0.0928	0.06569749	0.167229
361389	Anapc10	0.092782	0.07748536	0.189655
103694875	LOC103694875	0.092754	0.3892897	0.586274
311368	Ctdspl2	0.092726	0.45322662	0.644686
444982	Eml5	0.092691	0.14619276	0.301227
313905	Supt71	0.09269	0.33584058	0.53243
688777	Grpel2	0.092675	0.10823083	0.24233
29177	Hpca	0.09265	0.18647464	0.358186
311059	7-Mar	0.092608	0.00153689	0.007515
312381	Ppmlk	0.092581	0.01831797	0.061023
300160	Lrrk2	0.092498	0.00145416	0.007175
361700	Kdm2a	0.092468	1.27E-04	8.23E-04
102553270	LOC102553270	0.092331	0.56592066	0.736401
293544	Pdilt	0.092331	0.68479526	0.824812
303375	Rad51d	0.092331	0.14330186	0.297653
680726	Rbms3	0.092312	1.64E-04	0.001039
102547920	LOC102547920	0.092266	0.50302378	0.68981
365703	Zfr	0.092163	1.11E-08	1.49E-07
498953	Tmem170a	0.092155	0.42919418	0.62397

288651	Gtf2h3	0.092136	0.1500252	0.306405
498415	Zpbp	0.092128	0.54754027	0.728256
305913	Zmym2	0.092125	5.56E-04	0.003079
368042	Btaf1	0.092107	0.01743245	0.058626
304859	Dhx9	0.092036	1.48E-04	9.50E-04
360673	Tepsin	0.092034	0.06851657	0.172834
360956	Tbc1d14	0.092015	0.00152212	0.007446
308663	Tubgcp5	0.091987	0.03264231	0.096443
289711	Evc2	0.091961	0.40637498	0.60304
361442	Sipal12	0.091938	0.00500643	0.02075
293508	Prkacb	0.09193	1.83E-13	4.24E-12
310685	Polr3c	0.091925	0.04042063	0.114232
310508	B3galnt1	0.091885	0.04544949	0.125502
24252	Cebpa	0.091864	0.4299018	0.624331
309732	Ado	0.091864	0.26428279	0.454553
289307	Tfb2m	0.091852	0.0299003	0.08989
295607	Prpf40a	0.091835	0.00737194	0.028706
83839	Calb1	0.091756	0.34698835	0.543722
681004	Paxbp1	0.091745	0.04835294	0.13163
297885	Zbtb8os	0.091741	0.08258912	0.199532
83422	Pias2	0.091722	0.03834339	0.109319
299256	Cpsf2	0.091644	0.00285205	0.012868
287112	Abca17	0.091589	0.70318178	0.836745
170699	Atp2c1	0.091548	3.88E-09	5.57E-08
29560	Hif1a	0.091532	4.89E-04	0.002749
363249	Ctdsp1	0.091528	4.18E-04	0.002398
294673	Hexb	0.09152	0.01566642	0.05374
297872	Syt11	0.091503	0.71773211	0.845684
315250	Pdzrn4	0.091503	0.71773211	0.845684
310960	Usp33	0.091481	6.12E-06	5.24E-05
686774	LOC686774	0.091477	0.02267627	0.072219
100910823	Der12	0.091475	0.02636737	0.081375
154968	Oga	0.091467	1.75E-06	1.67E-05
360720	Rabl3	0.091461	0.14208432	0.295867
295245	Slc50a1	0.091398	0.1926917	0.366322
368066	Inmt	0.091398	0.51483612	0.700561
363972	Dpp10	0.091393	1.50E-10	2.55E-09
108348101	LOC108348101	0.09139	0.32110183	0.516153
63888	A4galt	0.09138	0.01301796	0.046075
78965	Csf1	0.091345	0.06551399	0.166851
498100	Mb21d2	0.091315	0.19722135	0.371852
360992	Pnpt1	0.091293	0.01305965	0.046179
311349	Ttbk2	0.09125	2.10E-08	2.69E-07
312656	8-Mar	0.091245	0.00487695	0.020298
64301	Smn1	0.091211	0.17685841	0.345428
100361238	Rasgef1b	0.091162	0.47049198	0.660952
497863	Tmem186	0.091154	0.09972016	0.228101
362618	Fam76a	0.091151	0.06281393	0.161792
299488	Esy2	0.091129	1.82E-06	1.73E-05
108348073	Eif5	0.091057	7.22E-11	1.26E-09
312603	Rybp	0.091026	0.01271373	0.045183
690303	Magohb	0.091002	0.43200765	0.626291
362138	Rbms1	0.090987	0.00255223	0.011682
50655	Aco1	0.090953	0.0194943	0.064122
498803	Otud1	0.090885	0.23208256	0.417573
362479	Tcea1	0.090881	0.00195041	0.009256

652928	Rbm12	0.090868	0.11603049	0.255764
685756	Tmem229a	0.090852	4.60E-06	4.04E-05
100359977	Cd16412	0.090824	0.4712902	0.661731
64314	Casp2	0.090794	0.14050435	0.293539
293060	Btbd1	0.09079	3.33E-05	2.47E-04
305035	Angel2	0.09078	0.06685237	0.169444
315333	Atf7	0.09077	0.00210471	0.009888
368175	RGD1565071	0.090705	0.35839148	0.555376
314993	Atad2	0.090704	0.26102415	0.450494
25489	Nedd4	0.090662	7.55E-30	4.25E-28
361034	Arhgef40	0.090623	1.16E-04	7.63E-04
287380	Dhrs7b	0.090558	0.06408593	0.164247
311860	Ab11	0.090554	0.016631	0.056339
311795	Tor4a	0.090514	0.36885084	0.564964
310644	Pbxip1	0.090511	4.98E-04	0.002795
288257	Donson	0.090504	0.25379023	0.44246
315305	Atf1	0.090433	0.11478734	0.253729
500514	Fyb2	0.090387	0.69997093	0.835534
362088	Snpc4	0.090292	0.26207417	0.451774
298309	Lrrc42	0.090272	0.08053253	0.195605
29157	Ccng2	0.090191	0.0259211	0.080245
100359836	Kirrel2	0.090156	0.79966284	0.89723
291947	Prmt9	0.090156	0.10415788	0.235536
300761	Gramd2a	0.090156	0.66025142	0.805541
307305	Prdm6	0.090156	0.48704546	0.675142
307390	Fbxo38	0.090156	0.02115841	0.068484
317203	Rps6ka6	0.090156	0.24483466	0.433192
360615	Fbxo47	0.090156	0.85758281	0.930106
407758	Krt26	0.090156	0.47287493	0.663223
501036	Plscr5	0.090156	0.71966682	0.84668
683593	Jmy	0.090129	0.00579615	0.023442
60563	Hr	0.090127	0.01636953	0.055621
300888	Tmed3	0.090125	0.02003917	0.065609
266772	Klhl12	0.090124	0.0291438	0.088158
301323	Prim2	0.090119	0.3250271	0.520574
686922	Gstt4	0.090043	0.90214546	0.957819
360952	Tmem128	0.090037	0.04220884	0.118025
116655	Hnrnp	0.090035	0.00131351	0.006552
103690051	NEWGENE_1304700	0.089977	0.28713945	0.4816
361574	Snrnp70	0.08996	1.25E-05	1.00E-04
494445	Srsf2	0.089955	2.86E-07	3.11E-06
289693	Dhx15	0.089928	1.12E-04	7.34E-04
294912	Sec62	0.089924	4.30E-08	5.27E-07
363084	Usp3	0.089878	0.2693478	0.460768
292019	Sf3b3	0.089838	0.02099011	0.068044
360895	Rrp15	0.089836	0.30343205	0.500508
364654	Rnf170	0.089821	0.00758009	0.029378
306966	Zfp184	0.08981	0.51871766	0.703581
362269	Pcif1	0.089795	0.10008312	0.228794
29483	Slcla3	0.089779	0.13403752	0.28408
83726	Ctcf	0.089777	0.01238936	0.04422
499878	Mfap1a	0.089768	0.03676055	0.105804
289388	G0s2	0.08975	0.51853144	0.703428
65161	Litaf	0.089744	0.0103555	0.038162
690369	I115ra	0.08974	0.65859097	0.804546
85237	Ptp4a2	0.089736	2.08E-05	1.60E-04

314306	Elmsan1	0.089716	0.03168482	0.094199
100312983	Kdm5d	0.089689	0.0342843	0.100176
498962	Acsf3	0.089677	0.09313599	0.217135
301419	Tyw5	0.089671	0.31657934	0.511084
293058	Ramac	0.089646	0.08437641	0.202693
299949	Tbc1d31	0.089644	0.12888518	0.27611
363232	Bzw1	0.089625	2.04E-07	2.26E-06
310707	Chd11	0.089616	0.263814	0.454157
289809	Pno1	0.089598	0.09904252	0.22696
259225	Ppp1r14b	0.089527	0.0862668	0.205652
314417	Papola	0.089512	5.94E-05	4.15E-04
685909	H2afv	0.089433	0.09444757	0.219253
498257	Fam163a	0.089383	0.29740055	0.493982
289606	Gabra2	0.089338	2.70E-07	2.95E-06
361925	Actl6a	0.08931	0.17272837	0.339731
679571	Hmg111	0.089284	6.09E-05	4.25E-04
303165	Zfp672	0.08928	0.13782513	0.289498
114200	P3h1	0.089202	0.0939783	0.218483
300088	Polr3h	0.089198	0.06866291	0.173112
294734	Gpbp1	0.089197	8.52E-04	0.0045
365465	Cwf1911	0.08913	0.13366216	0.283474
100359583	LOC100359583	0.08913	5.51E-04	0.003058
117058	Pou2f2	0.089108	0.68989261	0.828228
297595	P3h3	0.089051	0.00844195	0.032181
293505	Cd2bp2	0.089049	0.00218211	0.010191
81684	Mipep	0.089023	0.07898262	0.192602
315936	Zbtb38	0.088961	0.00418997	0.01784
314619	Sbno2	0.088952	0.03117184	0.092935
60336	Arpp19	0.088943	1.25E-08	1.67E-07
305938	Spata13	0.088941	0.00249086	0.011431
295305	Acp6	0.088918	0.27183999	0.463532
303577	Acbd4	0.088906	0.06512834	0.16618
316214	Tfeb	0.088873	0.17847531	0.347339
690032	Wdr4	0.088789	0.24833191	0.436662
102554605	LOC102554605	0.088767	0.07523294	0.185718
364475	Dzip1	0.08875	0.00336955	0.014831
289734	Smtn	0.088741	0.00925789	0.03479
360739	Ranbp1	0.08872	6.65E-04	0.003613
103693932	LOC103693932	0.088713	0.90284474	0.957761
691335	6-Sep	0.08869	0.00108559	0.005547
300215	Lmbr11	0.088658	0.13762489	0.289109
360775	Zfp157	0.088656	0.15658711	0.316515
304982	Igsf9	0.088612	0.32436056	0.5199
24848	Tph1	0.088607	0.2742989	0.466431
114767	Ptpre	0.088578	0.04093201	0.115233
287930	Top3b	0.08852	0.06836045	0.172555
301235	Bicral	0.088501	0.03406721	0.09974
85255	Hac11	0.088449	0.1455727	0.300469
81783	Ssb	0.088424	3.10E-04	0.001843
60337	Npff	0.088423	0.75814919	0.871996
680210	Psca	0.088423	0.75814919	0.871996
414065	Nanog	0.08834	0.84377233	0.922059
689621	Lsmem2	0.088316	0.14268763	0.296896
315795	Cgn11	0.088278	2.15E-05	1.65E-04
308326	Zfp667	0.088235	0.35611872	0.553294
315447	Chordc1	0.088191	0.00312606	0.013923

311115	Ubr3	0.088173	9.80E-09	1.32E-07
362564	Bend5	0.088163	0.5221362	0.706356
500874	Tmem65	0.088149	5.43E-06	4.70E-05
306547	Thap1	0.088129	0.39466008	0.591975
81002	Trim23	0.088089	0.00519759	0.021445
298318	Slc25a43	0.088083	0.67953323	0.821018
81820	Doc2b	0.088058	0.07486694	0.184982
298086	Zcchc7	0.08801	0.08548966	0.204542
309758	Herc4	0.087921	0.06178652	0.159751
312077	Golga3	0.087902	0.00113678	0.005767
312299	Ezh2	0.087877	0.3013762	0.498325
64364	Pllp	0.087867	1.49E-04	9.51E-04
81656	Dpyd	0.087735	0.07956004	0.193663
100361503	Zfp717	0.087689	7.15E-04	0.003861
313027	Eya3	0.087668	0.00257036	0.011753
296136	Nphp1	0.087629	0.19754471	0.372278
303439	Mmd	0.087599	0.03308657	0.097438
108349244	LOC108349244	0.087595	0.43195298	0.626259
100361733	Ociad2	0.087582	0.40654806	0.603203
362474	Adhfe1	0.087582	0.57577002	0.74388
688390	LOC688390	0.087582	0.80239489	0.898865
691807	LOC691807	0.087573	0.00370573	0.016102
304277	Cpsf4	0.087533	0.20645974	0.384024
100910508	Zfp41	0.087523	0.19424974	0.368255
685697	Supt3h	0.087497	0.03199547	0.094915
289928	RGD1306063	0.087463	0.01505085	0.051994
81655	Dync11i2	0.087393	6.00E-10	9.49E-09
50719	Slc7a5	0.087392	0.00111593	0.005678
314381	Nrde2	0.087371	0.17458387	0.342179
317370	Wdr13	0.08737	0.00164971	0.007982
363140	Rassf1	0.087338	0.20695036	0.384674
362962	Cbx7	0.087321	0.01744163	0.058647
362586	Trit1	0.087303	0.15965053	0.321105
680445	Mbnl2	0.087296	1.18E-12	2.52E-11
307343	Fam210a	0.087295	0.01143514	0.041372
682908	Rcc1	0.087252	0.29099185	0.486348
100360594	Fanci	0.087251	0.37859376	0.575628
298068	Sec61b	0.087173	0.11659101	0.256732
100909445	Ube2w	0.087151	0.01047624	0.03854
361354	Fbxo15	0.087086	0.69314492	0.830562
291958	B3gnt9	0.087015	0.30575529	0.502772
366014	Zdhhc12	0.086971	0.3102904	0.505429
299514	Mterf3	0.086945	0.14013757	0.292998
499636	RGD1563962	0.086935	0.04953142	0.134167
688478	Commd2	0.086935	0.10971674	0.244822
300359	Ccdc82	0.086923	0.11709908	0.257434
81768	Rpl22	0.086902	0.00359336	0.015675
102549542	LOC102549542	0.086867	6.35E-08	7.61E-07
498150	Brat1	0.086838	0.09287171	0.216704
29491	Itsn1	0.086822	0.01226432	0.043864
500723	Zfp839	0.086779	0.40609469	0.602718
366588	Colec11	0.086758	0.66613083	0.810585
29611	Dbt	0.086729	0.02949282	0.088945
364183	Bloc1s4	0.08671	0.3045058	0.501367
24590	Mme	0.086683	0.0985927	0.226201
685579	Rrm1	0.086664	0.07122705	0.178021

317380	Prickle3	0.086645	0.34314229	0.539649
309103	Pgghg	0.086632	0.27165605	0.46326
29257	Rpl9	0.086613	1.87E-06	1.78E-05
364154	Smiml4	0.086587	1.25E-05	1.00E-04
313563	Exo5	0.086525	0.42015689	0.61553
81524	Nflx	0.08652	0.02951202	0.088989
100912032	Rps27a	0.086511	5.99E-08	7.20E-07
361151	Ufsp2	0.086485	0.00805112	0.030939
304656	Ccdc130	0.086479	0.16481546	0.329026
292156	Sh3glb1	0.086429	4.84E-05	3.46E-04
286918	Mx2	0.086407	0.00519584	0.021442
297725	Tm7sf3	0.08636	0.03825271	0.109142
290230	Mdp1	0.086345	0.19266664	0.366347
364410	Kctd9	0.086344	0.00150796	0.00739
309070	Uros	0.086327	0.21867826	0.400339
293504	Qprt	0.086318	0.2851497	0.479318
365755	Tbllxr1	0.086269	9.81E-04	0.005094
103690502	LOC103690502	0.086214	0.03272737	0.096575
304204	Snapc2	0.086206	0.01112607	0.040438
316035	Cmtm6	0.086183	0.00288455	0.013
292148	Eif3a	0.086132	2.46E-06	2.28E-05
171305	Clk3	0.08612	0.01757749	0.059041
362910	Samd12	0.086109	0.49667237	0.68292
362537	Snapc3	0.086049	0.06334218	0.162888
78956	Scn9a	0.086032	1.22E-12	2.59E-11
308598	Hps5	0.086018	0.08888997	0.209882
60396	Cdk13	0.086015	0.5794757	0.747046
300441	Tmem205	0.085978	0.06585743	0.167524
309295	Ikbkg	0.085967	0.09994972	0.228571
494345	Pdcd10	0.085946	0.00173683	0.008366
313216	Rnf20	0.085908	0.00278407	0.012618
288028	Tmem44	0.085866	0.68883459	0.827584
100910751	Mtg1	0.085844	0.14547344	0.300297
170465	Acaa2	0.085806	0.00652764	0.026008
362736	Hectd1	0.085802	7.43E-06	6.25E-05
171096	Cst6	0.085764	0.27399143	0.466074
362020	RGD1309139	0.085748	0.48976793	0.67724
362392	Snrnp27	0.085683	0.08149132	0.197556
290348	Synb	0.085616	0.52848906	0.711313
306253	Glt8d1	0.085579	0.0640452	0.164186
300674	Arcn1	0.085562	2.10E-06	1.97E-05
24660	Pmp22	0.085544	8.30E-130	#####
54299	Ncor1	0.085503	5.08E-04	0.002846
689883	Setdb1	0.085485	0.0297132	0.089454
300687	Bud13	0.085471	0.24075157	0.428355
308942	Dennd5a	0.085417	1.10E-07	1.29E-06
156826	Eya2	0.085392	0.26893294	0.46043
316452	Ccnyl1	0.08537	0.15563637	0.315028
316820	LOC316820	0.085351	0.47898793	0.66752
25235	Ghr	0.085327	0.01658336	0.056188
298312	Yipf1	0.085317	0.00821556	0.03145
690599	Mxra7	0.085298	0.02548712	0.079223
316219	Trerf1	0.085254	0.23288734	0.418784
24825	Tf	0.085215	0.00193934	0.009213
100359562	Mroh6	0.085155	0.80500868	0.900654
116467	Tm4sf4	0.085155	0.72699377	0.851251

25129	Egr4	0.085155	0.86142258	0.932439
287824	Trim80	0.085155	0.80500868	0.900654
302579	RGD1565862	0.085155	0.86142258	0.932439
498486	Gnpnat1	0.085155	0.30172734	0.498733
500832	Bbs10	0.085155	0.2468927	0.435579
502916	Rerg	0.085155	0.66894824	0.812508
171361	Eef1a1	0.085137	3.84E-59	4.51E-57
311575	Phf20	0.085122	7.67E-04	0.004105
362129	Gtdc1	0.085097	0.11628293	0.256202
360663	Unk	0.085092	0.13332376	0.282977
361977	Isg2012	0.08509	0.27222148	0.4641
100912286	Leng9	0.08508	0.37150857	0.568076
246314	Tor1aip1	0.085054	0.09055191	0.212594
292130	Afap112	0.08505	9.95E-04	0.005157
299762	Tmtc2	0.085047	0.02175299	0.069993
293113	Tmem126a	0.08504	0.19110131	0.364353
499846	Tcp1111	0.085016	2.78E-04	0.001674
363142	Sema3b	0.08499	2.14E-12	4.42E-11
406166	Egf18	0.084937	5.97E-06	5.13E-05
299521	Camkmt	0.084935	0.16308509	0.326324
60374	Lmna	0.084927	2.08E-05	1.60E-04
361541	Proser3	0.084894	0.15544271	0.314703
293059	RGD1305713	0.084893	0.10051619	0.229481
361059	Ccdc25	0.084877	0.03690317	0.106166
360389	Zfp422	0.084858	0.12139421	0.264738
678772	Casdl	0.084837	0.00743023	0.028868
310056	Ipo11	0.084818	0.00240096	0.011082
299625	Lmb2	0.084809	0.32451022	0.520052
360917	Cnot61	0.0848	0.15697888	0.317004
314879	Xpot	0.08472	3.59E-04	0.002102
362804	Cwf1912	0.0847	0.0892155	0.210286
362511	Fbxo10	0.084696	0.21372676	0.394077
315969	Topbp1	0.084675	0.1047801	0.23655
266606	Tor1a	0.084646	0.0950135	0.220191
362483	MGC94199	0.084635	0.11724638	0.257669
24382	Ganc	0.084577	0.09282034	0.216744
102555303	LOC102555303	0.08457	0.96075218	0.995946
362151	Lnpk	0.084552	0.00440522	0.018594
498038	Vg113	0.084537	0.05078321	0.136393
289855	Ccdc85a	0.084524	0.10183149	0.231817
291318	Nmt2	0.084509	0.00150403	0.007377
680227	LOC680227	0.084509	0.05972725	0.155482
309004	Vkorc1	0.084473	0.10091198	0.230136
288659	Vps37b	0.084466	0.17444956	0.341986
309051	Pign	0.084459	0.04248328	0.118723
24246	Camk2d	0.084384	2.48E-04	0.001512
24772	Cxcl12	0.084363	0.02444319	0.076692
362041	Rpl134	0.084354	2.17E-04	0.001337
266688	Rab8b	0.084347	0.21459507	0.395258
308584	Plekha4	0.084338	2.38E-09	3.50E-08
361755	Aldh18a1	0.084337	0.04160578	0.11663
315655	Rdx	0.08433	0.00383088	0.016544
288003	Rfc4	0.084307	0.24918212	0.437712
408200	Pan2	0.084277	0.10929515	0.24411
297607	RGD1311164	0.084267	0.16803074	0.332534
302810	Bcor11	0.084267	0.16803074	0.332534

290401	Esd	0.084228	0.02124093	0.068705
24180	Agtr1a	0.084185	0.43412091	0.62835
362719	Asap2	0.084143	0.05287379	0.140876
366170	Tmem87a	0.08411	0.03200784	0.094922
54350	Scfd1	0.084061	0.01322014	0.046651
361377	Phkb	0.084018	0.00867535	0.032887
304935	Tbx19	0.083992	0.65523596	0.8023
499214	Coa4	0.083926	0.25070281	0.438724
362974	RGD1304694	0.083918	4.95E-05	3.53E-04
114851	Cdkn1a	0.083889	0.31946389	0.514432
499136	LOC499136	0.083878	0.06407385	0.164238
687192	Gid4	0.083841	4.48E-04	0.002545
306229	Dennd6a	0.083841	0.01782251	0.059654
361814	Srsf3	0.083836	0.00109685	0.005594
291228	Mkx	0.08383	0.42724803	0.622376
100362202	Znf408	0.083814	0.25537341	0.444204
362896	Stat6	0.083738	0.00458653	0.01927
499317	Tmem258	0.083681	0.13708735	0.288266
363174	Sgo1	0.083613	0.67168895	0.815213
312382	Abcg2	0.083553	0.09340283	0.21765
680039	LOC680039	0.083548	0.00181921	0.008721
300955	Nck1	0.083527	0.07636978	0.187697
498796	Fam107b	0.083516	0.04128822	0.115978
497948	Trpv3	0.083424	0.23794884	0.424996
286931	Unc13c	0.083422	0.01749372	0.058812
682964	Zfp551	0.083381	0.53326774	0.715268
295663	Phospho2	0.08336	0.06626267	0.16833
292729	Snrpa	0.083331	0.23137624	0.416735
298648	Tardbp	0.08331	4.55E-04	0.00258
171552	Prpf18	0.0833	0.01324931	0.046737
501110	Gsta6	0.083287	0.28756186	0.482139
297801	Xkr4	0.083279	0.42904984	0.624236
113929	Nup88	0.083183	0.05269235	0.140491
361035	Mettl3	0.08317	0.01541841	0.053062
296758	Armc10	0.083167	0.06082852	0.157724
299841	Rxylt1	0.083095	0.10760018	0.24123
363450	Ftsj1	0.083095	0.35289295	0.549852
292087	Urb2	0.083063	0.31271158	0.507766
266729	Dab1	0.08301	0.11814338	0.259311
301525	Glb11	0.083008	0.20895503	0.386965
310544	Map9	0.083004	7.52E-04	0.004034
298385	Magoh	0.082991	0.14917372	0.305124
360748	Prkdc	0.082919	0.02926474	0.088398
100909715	LOC100909715	0.082918	0.65844836	0.804475
305451	Tnip2	0.082864	0.3453724	0.541948
310548	Rbm46	0.082864	0.26421323	0.454474
362722	Tmem18	0.082864	0.2231519	0.405992
308004	Fam204a	0.082851	0.15286137	0.310698
683522	Tead4	0.082815	0.43106689	0.625213
308899	Mrv1	0.082807	0.2821436	0.475777
102548728	LOC102548728	0.082786	0.66458817	0.809173
681031	Snrpg	0.082785	0.23476627	0.421129
362003	Gpr89b	0.082745	0.0132496	0.046729
290947	Mtrr	0.082738	0.07632472	0.18761
303883	Lrch3	0.082729	0.0049532	0.020556
60445	Tsc1	0.082709	0.01009444	0.037323

363127	Dnajc13	0.082672	9.03E-04	0.004735
499567	RGD1565641	0.082662	0.10648096	0.239453
290577	Wapl	0.082559	0.01578757	0.054078
300514	Ei24	0.082559	9.25E-04	0.004835
311713	Mrgbp	0.082558	0.20135963	0.377042
298182	Tyrp1	0.082556	1.37E-16	4.02E-15
304549	Oas12	0.082538	0.15752169	0.317763
313974	Trib2	0.082513	0.00272002	0.012352
366975	Pphln1	0.082493	0.01653834	0.056075
360563	Ncbp3	0.082461	0.25425547	0.442947
313427	Usp24	0.082433	0.01154865	0.041664
498560	Uchl3	0.082378	0.11979779	0.261976
100034253		0.082366	0.00431906	0.018283
362626	Rsrp1	0.082363	9.99E-04	0.005172
363067	Sin3a	0.08234	0.04398835	0.122176
25486	Myo9b	0.082326	6.78E-04	0.003676
304546	Git2	0.082305	0.01371512	0.048042
108349010	LOC108349010	0.082304	7.78E-04	0.004155
296925	Aass	0.082282	0.45422669	0.64553
29318	Ddt	0.082223	0.0152115	0.052511
362048	Tspan5	0.082155	0.00853752	0.032493
296813	Slc25a40	0.082128	0.26627221	0.457396
304743	Ccdc93	0.082088	0.03694378	0.106251
499895	Slx4ip	0.082027	0.36986648	0.566201
293017	Bclaf1	0.082027	2.85E-04	0.001707
27100	Gfer	0.081984	0.18369061	0.35416
307170	Acbd5	0.081978	0.00161569	0.00784
171394	Clstn2	0.081972	0.03827605	0.109192
680014	Escol	0.08195	0.12072877	0.263528
140588	Gli3	0.08192	0.65034136	0.802498
313551	RGD1564804	0.08192	0.26685717	0.458153
304208	Cers4	0.081916	0.01741307	0.058582
84360	Clcn3	0.081893	8.53E-05	5.76E-04
362700	Spast	0.081872	0.01070867	0.039168
364976	Syce2	0.081864	0.57000937	0.739447
304695	Zcchc2	0.081833	0.0500102	0.134984
294753	Mocs2	0.081814	0.02311451	0.073406
290284	Sap18	0.081784	0.25420881	0.442906
313024	Wasf2	0.081752	0.00627134	0.025113
24166	Adcyap1	0.081743	0.00333894	0.014717
366856	Mterf2	0.08174	0.42701831	0.622089
316009	Plxnb1	0.081739	0.01979322	0.064949
29600	Atp2b4	0.081734	0.00987645	0.036702
192647	Mfn1	0.081716	0.03313249	0.097543
100360302	Sec16a	0.081702	0.00258887	0.011829
314850	Frs2	0.081638	0.01456494	0.050545
100359464	Zfp420	0.081586	0.15321745	0.31119
309812	Rev3l	0.081579	0.09913056	0.227052
25481	Mmp11	0.081495	0.4942351	0.681044
300442	Ccdc159	0.081436	0.41260923	0.608451
361548	Dmkn	0.081431	0.85780378	0.930187
686326	Ifnar2	0.081426	0.15293186	0.310775
293989	Cyp2c6v1	0.081417	0.89561073	0.953966
367793	Scml2	0.081405	0.67566351	0.818263
500707	Tc2n	0.081368	0.45665768	0.647969
360643	Cdc27	0.081365	0.00228735	0.010617

24936	Cd9	0.081362	7.90E-12	1.55E-10
362938	Scrib	0.081255	0.00996944	0.036954
299825	Gns	0.081169	6.80E-04	0.003683
24855	Tsc2	0.08113	0.00657094	0.026131
292464	Katnal	0.081106	0.34245625	0.539193
500281	Setmar	0.0811	0.43461803	0.628831
84031	Chn2	0.081095	0.11598086	0.255743
94270	Nnat	0.081043	0.00291368	0.0131
298683	Vwal	0.081037	3.28E-06	2.96E-05
308537	Uri1	0.081013	0.0779452	0.190585
365458	Fra10ac1	0.08101	0.21048885	0.3892
315473	RGD1561444	0.08096	0.3352084	0.531738
288707	Gltp	0.080874	0.00875925	0.033139
100911610	LOC100911610	0.080872	0.25034307	0.438296
499940	Tp53tg5	0.080865	0.82180039	0.909688
294687	Bdp1	0.080817	0.04529229	0.12514
24705	Rara	0.080789	0.14431758	0.298656
24884	Yes1	0.080778	0.02524094	0.078664
307845	Mtss11	0.080774	4.35E-04	0.002486
309962	Pde8b	0.080735	0.10851842	0.242688
53372	Nup54	0.080696	0.18767456	0.359873
500005	Gatad1	0.080601	0.01374038	0.048104
170943	Slc25a10	0.080585	0.03082686	0.092094
363442	Fundc1	0.080549	0.0039892	0.017111
362289	Lime1	0.080468	0.14397234	0.298363
64531	Synj2bp	0.080464	1.73E-04	0.001089
361929	Atp11b	0.080458	0.03221848	0.095487
25618	Acadsb	0.080295	4.40E-04	0.00251
100365504	Sf3b6	0.080281	0.10555426	0.237875
310192	Trio	0.080176	0.0010906	0.005569
108349907	LOC108349907	0.080172	0.57042125	0.739831
680692	Golm1	0.080172	0.24011484	0.427542
305851	Supt16h	0.080148	0.00441536	0.018625
288906	Rfx1	0.080109	0.20634138	0.383879
310682	Pex11b	0.080084	0.10644771	0.239463
306252	Nek4	0.080068	0.27518826	0.467234
691170	LOC691170	0.080047	0.19694424	0.371551
102551177	LOC102551177	0.08004	0.84451996	0.9224
84431	Asah1	0.080038	2.25E-04	0.001385
500227	LOC500227	0.079975	0.56425039	0.735383
114846	Gstol	0.079974	0.01200704	0.043089
308561	Zfp819	0.079965	0.77458565	0.882243
362223	Snrpb2	0.079924	0.06476769	0.165526
307024	Zfp438	0.079913	0.49830986	0.684677
619561	Acsf2	0.07989	0.10043448	0.229432
65034	Pdzd2	0.079888	0.0209724	0.068009
314730	Ikbip	0.079875	0.18620678	0.357888
619566	Cdca71	0.079859	0.58307534	0.749809
29598	Atp2b1	0.079831	4.02E-07	4.26E-06
313125	Bach2	0.079818	0.46082727	0.652088
108348199	NEWGENE_1306210	0.079815	2.31E-04	0.001421
310756	Mov10	0.079811	0.33110532	0.527205
499672	Cdc42sel	0.079796	0.00479197	0.019996
313098	Usp45	0.079792	0.01619954	0.055201
307178	Arhgap21	0.07979	7.61E-04	0.004081
100910079	LOC100910079	0.079789	0.41720955	0.612957

289584	Usp46	0.079787	0.00397196	0.017045
291975	Enkd1	0.07977	0.61185759	0.773042
499418	Spatc11	0.079728	0.66326562	0.808131
311257	Nat10	0.079704	0.17959737	0.348632
300062	Ift27	0.079676	0.23667975	0.423564
310314	Ttc14	0.079617	0.12828921	0.27505
298066	Erp44	0.079612	0.02050451	0.066856
365619	Arsk	0.079601	0.2975976	0.494137
361917	Zfand1	0.079562	0.33183441	0.528101
691422	LOC691422	0.079556	0.27597977	0.468285
309957	Mef2a	0.07955	7.40E-04	0.003978
363158	Crtap	0.079504	0.2330975	0.418964
317398	Usp51	0.079423	0.87419269	0.940834
54318	Eif2s1	0.079391	0.01378012	0.048208
314157	Fbxo33	0.079376	0.17042221	0.336271
246273	Trib3	0.079315	0.770169	0.879316
65160	Clnsla	0.07927	0.03824788	0.109145
361452	Ltv1	0.079241	0.1469568	0.302311
303394	Usp32	0.079236	5.54E-06	4.79E-05
305466	Prr141	0.079225	0.01433037	0.04984
310377	RGD1306227	0.079191	0.57615249	0.744122
54320	Pdpm	0.079142	0.0028273	0.012766
497896	Zfp879	0.079127	0.63347688	0.789514
114021	Ebnalbp2	0.079097	0.17710431	0.345589
103690073	LOC103690073	0.079089	0.74759662	0.864637
116482	Sacm11	0.079062	8.69E-05	5.85E-04
100912216	Prcd	0.079057	0.67745024	0.819541
295072	RGD1560324	0.079055	0.88558845	0.947903
80773	Cyb5b	0.079034	0.01039385	0.038274
84577	Hdac2	0.079029	0.00293628	0.013183
100909604	LOC100909604	0.078943	0.19225559	0.365785
308650	Hnrnp2	0.078936	0.00256789	0.011745
306941	Carmil1	0.078925	0.05055846	0.135924
294091	Ifit2	0.078856	0.22083219	0.40285
303552	Rundc1	0.078793	0.1049115	0.236763
29423	Gap43	0.078793	2.74E-07	2.99E-06
500132	Plekha8	0.078714	0.20852322	0.386692
298144	Kdm4c	0.078712	0.16009101	0.321821
307348	Spire1	0.078694	5.95E-04	0.00327
315216	Selenoo	0.078693	0.05455323	0.144582
102556290	LOC102556290	0.078686	0.70628513	0.839336
315981	Col6a4	0.078642	0.81221835	0.905185
680867	Tmem191c	0.078642	0.45250288	0.644186
171050	Mob4	0.078636	0.00261513	0.011935
361052	Cdadcl	0.078593	0.03150405	0.093793
304881	Torlaip2	0.078578	0.00700356	0.02753
301013	Shisa5	0.078573	0.00424224	0.018018
83781	Lgals3	0.078541	1.02E-05	8.36E-05
290364	Itm2b	0.078498	3.54E-14	8.84E-13
363509	Arhgef6	0.07848	0.02245296	0.071712
289615	Atp8a1	0.078458	1.71E-06	1.64E-05
79251	Aspa	0.078413	0.07455253	0.184349
305164	Wdfy3	0.078367	4.52E-07	4.75E-06
361686	Osbpl5	0.078291	0.00386461	0.016652
298767	Dync2l1l	0.078285	0.29520814	0.491497
311536	Slc52a3	0.078284	0.6390543	0.793713

690634	Fbxo3	0.078275	9.60E-04	0.004996
298091	Slc31a2	0.078274	0.38380935	0.580499
103691564	LOC103691564	0.0782	0.47723037	0.666631
301442	Sumo1	0.078189	0.00749627	0.029089
361842	Sarla	0.078164	3.64E-04	0.002128
56042	Uso1	0.078163	1.46E-04	9.36E-04
304983	Tagln2	0.078151	2.87E-09	4.18E-08
100909586	LOC100909586	0.078113	0.92692892	0.973388
314205	Arid4a	0.078106	0.14978126	0.306038
295107	Smc4	0.078082	0.07017108	0.175959
54245	Crk	0.07808	4.60E-07	4.83E-06
303885	Rubcn	0.078075	0.00113484	0.005759
303599	Tanc2	0.078032	1.01E-04	6.67E-04
315058	Chrac1	0.078032	0.3934679	0.590652
58840	Mapk6	0.077874	0.02153401	0.069452
500054	Pot1	0.07786	0.27296765	0.464956
116549	Csnk2a1	0.077842	1.68E-05	1.31E-04
305549	Pelil1	0.077825	0.1477605	0.303211
315000	Rnf139	0.07781	0.0838484	0.201679
690244	Sumo2	0.077763	5.31E-04	0.002952
266806	Erc1	0.077752	0.01523145	0.052561
298199	Plin2	0.077729	0.00518557	0.021404
361924	Mynn	0.07771	0.20309909	0.379367
498594	Lrit2	0.077681	0.24141805	0.42918
300652	Sorl1	0.077664	5.03E-04	0.002817
315740	Kif23	0.077655	0.63675012	0.791573
100360437	Nsun3	0.077571	0.72961156	0.852639
24239	Cacnalc	0.077522	0.01147241	0.041452
367092	Arid3b	0.077493	0.41385081	0.609715
361526	Sertad1	0.077484	0.33078696	0.527051
171085	Pcsk4	0.077461	0.36103074	0.557786
108348127	LOC108348127	0.077437	0.37642682	0.573249
307035	Mpp7	0.077391	0.33828182	0.535009
288783	Ormdl2	0.077387	0.08762649	0.207697
311630	Zswim3	0.077348	0.2970827	0.493669
102551184	LOC102551184	0.077291	0.75666022	0.870783
303037	Spdl1	0.077283	0.54810237	0.728699
360540	Akap10	0.077242	0.11741497	0.25798
305918	Ift88	0.077211	0.12163022	0.2651
29492	Notch2	0.077172	0.00991131	0.03681
293343	Fam160a2	0.077149	0.12714621	0.273307
100365779	Zfp605	0.077141	0.45090032	0.642721
114023	Copb1	0.077127	0.00231866	0.010747
689991	Unc80	0.077086	1.45E-04	9.31E-04
81680	Lifr	0.077068	6.04E-07	6.23E-06
299043	Eapp	0.077061	0.08980261	0.211434
295344	St7l	0.077051	0.08528804	0.204162
310999	Plekhg5	0.077046	0.11869824	0.260139
83842	Crot	0.077036	0.00461911	0.01939
361338	Fech	0.077026	0.0348333	0.101375
308667	Nipa2	0.076949	0.01614329	0.055039
309069	Edrf1	0.076936	0.18706235	0.359025
100360066	Evi5	0.076907	3.30E-05	2.45E-04
362356	Cull1	0.076834	3.33E-05	2.47E-04
100361658	Usp37	0.076804	0.07142923	0.178433
291445	Megf10	0.076782	0.00764474	0.02958

679712	Myef2	0.076772	0.00373396	0.016203
306404	Spock3	0.07676	0.02943798	0.088865
289175	Slc19a2	0.076734	0.10565037	0.238007
499725	Rpf1	0.076725	0.21658519	0.397807
366872	Cep83	0.076694	0.03578526	0.103482
288118	Tmprss7	0.076694	0.86818423	0.937281
301351	RGD1310819	0.076694	0.68435272	0.824461
500577	Fhad1	0.076694	0.68435272	0.824461
114485	Dmtf1	0.076694	0.00868449	0.032915
305684	Samd8	0.0766	0.00318387	0.014161
360471	Usp7	0.076575	2.72E-04	0.001647
300782	Ints14	0.076426	0.06187163	0.159927
85421	Prkd1	0.07642	0.06192209	0.160014
317593	RGD1561327	0.076418	0.04970154	0.134417
292022	Ddx19a	0.076413	0.07545824	0.186105
304138	Cyrr1	0.076407	0.14089015	0.29412
289014	Mapkapk2	0.076348	0.05803157	0.152191
308718	Pex7	0.076237	0.34177704	0.538569
117280	Hnrnpu	0.076205	1.51E-07	1.71E-06
305288	Cep135	0.07618	0.43778972	0.631644
308341	Ssc5d	0.076071	0.12226429	0.266117
24929	Ptger3	0.076067	0.48308283	0.671654
308509	RGD1308428	0.076007	0.01715817	0.057837
289424	Xpr1	0.075942	0.1525691	0.310303
170927	Clcc1	0.075936	0.07156757	0.178708
687022	Sec22c	0.075891	0.00716084	0.028027
301430	Orc2	0.07587	0.06708213	0.169846
362923	Efr3a	0.075866	2.13E-04	0.001313
680200	LOC680200	0.075831	0.70959415	0.840228
360466	Zc3h7a	0.075796	0.04923427	0.133571
311483	Rrbp1	0.075782	0.00141617	0.007005
292188	Rnf217	0.075727	0.35839342	0.555333
85430	Herpud1	0.075716	0.0268983	0.082692
296501	Hat1	0.075638	0.1453838	0.30021
361995	Prpf3	0.075589	0.12208788	0.265855
289219	Ppox	0.075572	0.29729969	0.493857
64171	Card9	0.075572	0.61338801	0.774102
25256	Fmo1	0.075568	0.1120206	0.249145
688318	Lrrc45	0.075563	0.08063205	0.195822
306306	Ccser2	0.075551	3.52E-11	6.40E-10
299247	Cpg1	0.07555	0.42315728	0.618593
116477	Wnk1	0.075548	6.37E-06	5.43E-05
293698	Ccdc88b	0.075514	0.47272801	0.663114
361667	Dhx32	0.075514	0.06811673	0.172076
298018	Fam206a	0.075457	0.14787939	0.303324
310710	Sec22b	0.075457	0.02801815	0.085445
691018	Hsd17b14	0.07545	0.77548688	0.8829
498205	LOC498205	0.07545	0.94430452	0.984631
313981	Nol10	0.07545	0.12456411	0.269521
291736	Rprd1a	0.07543	0.00358029	0.015625
303241	Chd3	0.075429	7.84E-04	0.004188
100360412	Dnajc1	0.075378	0.33720238	0.534056
295428	Mettl14	0.075372	0.08431647	0.202574
306767	Ar110	0.075371	0.19500352	0.369243
288486	Zfp12	0.075346	0.1891308	0.361901
361895	Elovl7	0.075286	0.00501413	0.020778

310376	Nim1k	0.075262	0.55318687	0.733258
295088	Gmps	0.075227	0.0935664	0.217818
100910299	Larp4	0.075205	0.14350496	0.297945
305120	Rpap2	0.075202	0.20127769	0.376963
292090	Galnt2	0.075121	0.00442472	0.01866
302492	Mbn13	0.075111	0.59743672	0.761032
316561	Sphkap	0.075074	0.00457077	0.019212
100910130	LOC100910130	0.075038	0.18547716	0.356918
25444	Fgf9	0.075037	0.21907638	0.400721
84485	Ccs	0.075024	0.20336665	0.379829
313375	Cyp2j3	0.075	0.10616185	0.239046
311112	Fastkd1	0.074996	0.1793912	0.348268
50864	Ntm	0.074987	0.14424256	0.29863
361233	Ssr1	0.074986	0.00285884	0.012896
287361	Zfp496	0.074908	0.21945908	0.401267
307503	Etf1	0.074843	0.0060554	0.024305
311047	Cytip	0.074843	0.64269595	0.796418
499113	Selenov	0.074843	0.81656429	0.907797
295654	Ttc21b	0.074808	0.12404538	0.268979
289707	Lyar	0.074803	0.27131682	0.462889
25263	Mal	0.074781	2.21E-08	2.82E-07
80850	Gng2	0.074764	1.50E-08	1.98E-07
501088	Tbc1d5	0.074745	0.03278168	0.09669
286761	Vcpipl	0.074725	0.05505574	0.145731
365042	Rab32	0.074723	0.52557458	0.709446
316008	Ccdc51	0.07468	0.35293182	0.549868
29317	Csrp2	0.074657	0.37764375	0.574642
25107	Avpr1a	0.074643	0.62311385	0.780943
108353265	LOC108353265	0.074617	0.74169269	0.860212
362283	Stx16	0.074612	0.01100173	0.040078
84511	Slcolc1	0.074609	0.43218957	0.626507
499709	Gar1	0.074586	0.45300431	0.644466
313702	Mad212	0.074553	0.36200479	0.558476
117254	Prdx1	0.074544	1.52E-05	1.20E-04
100912483	LOC100912483	0.074544	0.57064333	0.739917
501925	Slc2a9	0.074526	0.49973094	0.686234
361055	Kpna3	0.074471	0.00772579	0.029864
307491	Hars2	0.074454	0.07550151	0.186163
25622	Ptpn11	0.074434	3.28E-04	0.001945
54244	Crebbp	0.074431	0.12494041	0.27009
353233	Nsmaf	0.074429	0.09525687	0.220702
81632	Abat	0.074344	0.03986173	0.112954
29150	Matr3	0.074344	4.00E-06	3.56E-05
171015	Cyb5r4	0.074261	0.1365534	0.287461
114095	Stxbp3	0.074224	0.09569711	0.221479
299027	Eif2s3	0.074223	5.31E-04	0.002954
58966	Ramp2	0.074222	0.02432646	0.076515
252855	Sfpq	0.074195	0.00665337	0.026404
497897	Zfp2	0.074156	0.40503436	0.602082
689256	Tpd5211	0.074128	0.30178553	0.498786
313914	Gtf3c2	0.074118	0.0307911	0.092016
246097	Fas	0.074108	0.50089158	0.68758
289080	Rgl1	0.074101	0.00353813	0.015469
305391	Med28	0.07409	0.1369879	0.288153
361324	Sema6a	0.074078	0.06693269	0.169557
315744	Itgall	0.074065	0.51625718	0.701643

363614	Natd1	0.073955	0.28214831	0.475743
192227	Ptgr1	0.073952	0.57211822	0.741274
294408	Asfla	0.073952	0.23959014	0.426967
366251	Slc2a10	0.073951	0.63625881	0.791169
683570	Gnpda1	0.07391	0.19563625	0.370073
192359	Zc3h14	0.073889	0.01447074	0.050245
305614	Sptbn1	0.073872	1.78E-34	1.18E-32
687029	Ss1812	0.07386	0.18217068	0.352156
313494	Tln1	0.073843	4.18E-05	3.03E-04
498995	Ncoa7	0.073833	2.96E-08	3.72E-07
287405	Tmem220	0.073827	0.54205988	0.723646
498727	Nol7	0.073761	0.11821539	0.259439
60384	Copb2	0.073749	0.00432022	0.018284
361849	Ccar1	0.07374	0.02115354	0.06848
25248	Cnr1	0.073735	0.0982095	0.225567
366960	Maff	0.073733	0.5147887	0.700547
294090	Ifit1bl	0.073669	0.56822588	0.738039
298558	Zfp46	0.073601	0.04776034	0.130277
171123	Rph3a1	0.073577	0.66688911	0.810679
25637	Ptger1	0.073534	0.43539894	0.629387
316457	Pikfyve	0.073526	0.00720569	0.028173
304741	Tfcp2l1	0.073515	0.26460454	0.454942
60581	Acaca	0.073491	0.00105162	0.005401
360866	Scyl3	0.073465	0.1692485	0.334441
364535	Tmem161a	0.07344	0.2157667	0.396725
311346	Lrrc57	0.073434	0.11215192	0.249408
100364240	Btbd8	0.073433	0.07229983	0.180205
102554315	LOC102554315	0.073416	0.16486113	0.329083
310097	Snx18	0.073406	0.02433751	0.076524
307505	Ctnna1	0.073282	1.33E-05	1.06E-04
299872	Eif3e11	0.073277	0.00245421	0.011282
108351491	LOC108351491	0.073222	0.76272307	0.874695
296293	Cbfa2t2	0.073167	0.07311439	0.181807
24942	Chm	0.073149	0.09966781	0.228036
114561	Pitpnb	0.073094	0.00417526	0.017805
100361104	LOC100361104	0.073083	0.77881375	0.884783
114125	Dl13	0.073083	0.87118176	0.939186
289199	Lrrc52	0.073083	0.87118176	0.939186
291427	Loxhd1	0.073083	0.87118176	0.939186
297386	Slc4a5	0.073083	0.87118176	0.939186
29755	Colq	0.073083	0.55877065	0.737783
300019	Gml	0.073083	0.87118176	0.939186
367074	Tmprss4	0.073083	0.87118176	0.939186
680799	Ccdc166	0.073083	0.87118176	0.939186
474154	Rbm4b	0.073046	0.33217602	0.528292
317191	Apool	0.073022	0.22103234	0.403137
102552497	Pcdhgb6	0.073017	0.52018315	0.704816
296304	Edem2	0.07297	0.20566891	0.38289
298916	Cpsf3	0.072936	0.07971531	0.193942
305227	11-Sep	0.072934	0.01976278	0.064871
25679	Itpr3	0.072931	6.30E-05	4.38E-04
361718	Naa40	0.072919	0.45790356	0.649205
311670	Cstf1	0.072917	0.20215084	0.378226
170902	Zfp347	0.072907	0.25009761	0.438592
315858	Ibtk	0.072852	0.09869676	0.226358
679692	Lpgat1	0.072793	0.00323251	0.014337

364144	Fryl	0.072778	8.37E-04	0.004427
292781	Syne4	0.072762	0.44703829	0.639466
296099	Tp53bp1	0.07267	0.00127138	0.00636
100362836	Poc1b	0.072668	0.23779094	0.424953
100362678	Epc1	0.072664	0.09592592	0.221955
361959	Kpna4	0.072656	0.01969206	0.064684
291526	Pol1	0.072656	0.5177561	0.702627
29253	Maoa	0.072619	0.01936851	0.063786
301549	Wdfy1	0.072618	0.00215882	0.010099
303212	Zfp287	0.072618	0.18064308	0.35002
294883	Raly1	0.072617	0.02063036	0.067186
25337	Nfyc	0.072603	0.06035703	0.156778
362831	Dot11	0.072594	0.04152466	0.116454
103693210	103693210	0.07255	0.02186578	0.070272
300516	Tmem218	0.072515	0.23516482	0.421526
29347	Faah	0.072511	0.34296296	0.539456
301374	RGD1310553	0.072507	0.15632272	0.316081
170899	Kcnk2	0.072505	0.21466999	0.395319
309016	Wdr11	0.072484	0.04941496	0.133966
313865	Thada	0.072481	0.12958067	0.277008
315769	Trip4	0.07239	0.09344109	0.21766
64440	Syt4	0.07237	6.95E-08	8.30E-07
103691373	Frat1	0.072367	0.38998942	0.587096
246217	Ngef	0.072265	0.23594042	0.422678
309357	Tmem185a	0.072262	0.12391904	0.268797
500318	Cd27	0.072259	0.76818905	0.87795
246268	Oas1b	0.072236	0.30937473	0.504499
305150	Hsd17b13	0.072234	0.74707376	0.864295
361810	Fkbp5	0.072172	0.06206043	0.160285
366697	Sptlc2	0.072163	5.88E-04	0.003234
170956	Ythdc1	0.072148	0.0335148	0.09841
298370	Txndc12	0.072087	0.04630119	0.12741
298065	Tex10	0.072067	0.11200524	0.249169
171129	Uggt1	0.072027	0.00543788	0.022258
100361558	LOC100361558	0.072011	2.68E-04	0.001621
113948	Bbs2	0.07201	0.07414585	0.183677
171107	Arr3	0.071956	0.74240366	0.860722
58959	Crhr1	0.071956	0.78041684	0.885654
316317	Imp4	0.071927	0.17886631	0.347603
497815	Nrcam	0.071924	3.56E-05	2.61E-04
102551838	LOC102551838	0.071921	0.85554076	0.928949
54230	Btg3	0.071921	0.36267939	0.559109
316575	Trip12	0.071915	2.71E-05	2.05E-04
64394	Zmat3	0.071905	0.00842798	0.032147
289196	Tmco1	0.071898	0.02676293	0.082329
24192	Akr1b1	0.071884	1.84E-06	1.75E-05
300756	Arih1	0.071862	0.00148949	0.007326
291618	Kctd16	0.071833	0.15689515	0.316868
108352427	LOC108352427	0.07182	0.76093167	0.873693
316406	RGD1306941	0.071811	0.03340591	0.098197
295106	Ift80	0.071791	0.11904747	0.260694
311748	Metap1d	0.071786	0.56214431	0.733592
100910867	Cfap69	0.07178	0.28625111	0.480533
81748	Pls3	0.071768	3.32E-07	3.57E-06
25132	Myo5b	0.071759	0.39501711	0.59223
25245	Bdkrb2	0.071754	0.17561543	0.343635

64133	Xylt1	0.071721	0.60708755	0.76926
81640	Amd1	0.071691	0.00104862	0.005387
24679	Prkar2b	0.071655	9.94E-05	6.60E-04
362724	Sh3yl1	0.071655	0.35614346	0.553288
500901	Arhgap39	0.07165	0.00232849	0.01079
24419	Grm6	0.071526	0.52815481	0.711064
295690	Dna_jc10	0.07147	1.22E-05	9.87E-05
315145	Fam83f	0.07143	0.19932073	0.374735
681284	Hmgn5b	0.071413	0.55337636	0.733356
679168	Fam199x	0.071406	0.69446831	0.831624
685679	Nme4	0.071406	0.74842369	0.865173
311607	Chd6	0.071391	0.00174961	0.008417
498390	Zfp518b	0.071358	0.10374331	0.234934
315758	Dpp8	0.071321	5.99E-06	5.14E-05
361859	Cdc40	0.07131	0.18633025	0.358089
360850	Nek7	0.071291	2.90E-06	2.65E-05
83627	Galnt5	0.071248	0.12238877	0.266327
60430	Mc11	0.071209	0.05721338	0.150314
361939	Mfsd8	0.071205	0.05160599	0.138155
103691035	LOC103691035	0.071125	0.93131325	0.975786
361315	Yipf5	0.071103	0.03583004	0.103533
502935	Eya1	0.07108	0.7205022	0.846983
681359	E4f1	0.07104	0.20405193	0.380698
360725	Snx4	0.070988	0.0305218	0.091354
501560	Rps6ka3	0.070984	1.95E-04	0.001212
171090	Giot1	0.070982	0.31842912	0.513287
304054	Prdm15	0.070975	0.34286934	0.539531
501195	RGD1562136	0.070953	0.01467178	0.05086
100909657	LOC100909657	0.070923	0.33092272	0.527179
290648	Pgpep1	0.070896	0.25089238	0.438814
315141	Mief1	0.070885	0.04594421	0.126629
305472	Pik3ip1	0.070874	0.01560355	0.053583
366461	Ppih	0.070865	0.24035261	0.427845
100359687	LOC100359687	0.070863	0.27280353	0.464842
102547932	Zfp623	0.070853	0.37457473	0.571159
311880	Gapvd1	0.070711	0.00724101	0.028288
50659	Nr2c2	0.07067	0.11236352	0.249821
315702	RGD1305464	0.07067	0.45420623	0.645549
502642	Selenoh	0.070665	0.29525701	0.491536
171576	Bub1b	0.070597	0.74974983	0.866233
29316	Adora2b	0.070597	0.52351298	0.707716
619385	Ncoa4	0.070597	3.82E-04	0.002222
362173	Caprin1	0.07059	5.19E-09	7.29E-08
307848	Fuk	0.070576	0.33206176	0.528286
314384	Rps6ka5	0.070536	0.06911327	0.173902
310982	Tt117	0.070533	7.47E-24	3.27E-22
361522	Hnrnpull1	0.070509	0.00601488	0.024162
100361234	Btbd19	0.070493	0.44467537	0.63757
288504	Snx8	0.070483	0.3017055	0.49874
362092	Brd3	0.070459	0.07965195	0.193837
114489	Dag1	0.0704	4.80E-12	9.61E-11
316639	Farp2	0.070384	0.04169419	0.116843
316013	Setd2	0.070365	0.0273524	0.083872
311573	Cep250	0.070309	0.18610437	0.357763
100909679	LOC100909679	0.070215	0.71369691	0.843094
24770	Cc12	0.07017	0.25149772	0.439671

680404	C1ql3	0.070121	0.61517553	0.775177
365903	Fam102b	0.070093	0.00106202	0.005449
84379	Rab6a	0.070066	7.87E-15	2.05E-13
362428	Rimklb	0.070033	0.09416123	0.218749
296840	Rbm48	0.070027	0.47874028	0.668006
299284	Dicer1	0.070018	0.03119059	0.092976
314388	Ppp4r3a	0.069945	0.09002161	0.21174
100910996	LOC100910996	0.069912	0.218847	0.400494
308742	Mctp2	0.069856	0.01065597	0.03902
361462	Hddc2	0.069853	0.18748126	0.359611
300965	Srprb	0.069852	0.18431755	0.355153
292756	Pak4	0.069849	0.18174792	0.351696
155192	Abcg8	0.069808	0.78351006	0.887524
298845	Emilin1	0.069808	0.32187002	0.517039
313170	Kif24	0.069808	0.75105285	0.867107
500356	Rergl	0.069808	0.87396384	0.940747
54190	Rabep1	0.069764	0.00280818	0.012704
29613	Ntrk3	0.069715	0.11112065	0.247404
289820	Actr2	0.069662	5.40E-08	6.54E-07
100158232	Zfp9	0.069631	0.144193	0.29856
361990	Chtop	0.069623	0.00713879	0.027963
362549	Efcab7	0.069582	0.43723402	0.631273
363924	Rad9b	0.069573	0.39942662	0.59654
64298	Rpl31	0.069568	3.29E-04	0.001948
290291	Cab391	0.06956	0.00418714	0.017832
24827	Tgfa	0.069528	0.1085268	0.242679
362367	Znrf2	0.0695	0.04949361	0.134102
64562	Prkab2	0.069466	0.00786926	0.030363
313365	Ift74	0.069442	0.3562068	0.553296
25475	Lgals5	0.069432	0.63654725	0.791425
363672	Sp6	0.069419	0.52685831	0.710574
81757	Rala	0.069406	0.00135886	0.006743
102548231	LOC102548231	0.069401	0.46641571	0.657456
498081	Slc35a5	0.069389	0.08708878	0.207196
65033	Stx12	0.069372	1.05E-04	6.96E-04
140568	Chst10	0.069368	0.27093641	0.462654
59326	Rapgef3	0.069357	0.23779549	0.424922
303602	Dcaf7	0.069321	0.00402233	0.017222
688622	I131ra	0.069243	0.00496539	0.020603
192263	Pigl	0.06923	0.47353006	0.663848
100911751	LOC100911751	0.069224	0.74786253	0.864787
683667	Sri	0.069187	7.33E-05	5.02E-04
100910854	LOC100910854	0.069174	0.39668196	0.593978
304378	Gigyf1	0.069134	0.05114994	0.137262
307745	Tent4b	0.069131	0.06459595	0.16522
84356	Abcd2	0.069119	0.07841672	0.191517
315762	Ras112	0.06911	0.35611268	0.55333
360697	Ifngr2	0.069106	0.08411929	0.202254
293667	B4gat1	0.069087	0.08576947	0.204902
295446	Tbck	0.069087	0.1342891	0.284297
310669	Golph31	0.06908	0.2484988	0.436713
291209	Hecw1	0.069001	1.89E-04	0.001182
691501	Snpc5	0.068992	0.14121992	0.294389
315891	RGD1309079	0.068977	0.10773969	0.241486
293754	Mrpl16	0.068921	0.1779708	0.346747
289668	Lap3	0.068913	0.02624895	0.081075

312440	Kdm3a	0.068905	0.08953741	0.210966
117544	Ppat	0.068902	0.14508927	0.299797
683758	Klrb1c	0.068852	0.9044754	0.958263
25409	Cdh6	0.068816	0.13502265	0.285184
116555	Nup107	0.068796	0.16968044	0.335085
102547626	LOC102547626	0.068706	0.78864022	0.890581
311415	Zc3h6	0.068688	0.36654428	0.562517
450229	Krt27	0.068607	0.79382577	0.893365
29597	P2ry2	0.068587	0.16292945	0.326081
171018	Zfp384	0.06855	0.08895466	0.210009
307766	Smarca5	0.068535	0.00682562	0.026953
500266	Fam19a1	0.068481	0.38930727	0.586254
103693914	LOC103693914	0.068471	0.8357677	0.918159
316810	Gtf3c3	0.068459	0.12964569	0.277054
310820	Ptbp2	0.068445	0.00487166	0.02028
64365	Tcn2	0.068418	0.03270541	0.096555
305956	Wdfy2	0.068413	0.00562031	0.022833
501563	Prkx	0.068402	0.02249674	0.071755
100910636	LOC100910636	0.068363	0.59626943	0.759951
688581	Elmod2	0.068361	0.14945446	0.3056
114107	Kremen1	0.06833	0.38202167	0.578853
302864	Mmgt1	0.06832	8.06E-04	0.004279
287726	Rdm1	0.068282	0.61966154	0.777844
362733	Etv1	0.068262	3.42E-05	2.52E-04
314523	Wdr60	0.068241	0.33985898	0.536345
361506	Leng8	0.068173	5.34E-06	4.64E-05
685504	Clgn	0.06815	4.14E-04	0.002382
361986	Slc39a1	0.068145	0.03160269	0.094013
361285	Mllt10	0.068142	0.0898727	0.211547
499583	Naalad12	0.068112	0.51669186	0.701683
63994	Arhgap17	0.068103	0.02664304	0.08208
363054	Mpz13	0.068096	0.53066301	0.712979
25122	Scnn1a	0.068068	0.70154352	0.836729
362969	Ttll1	0.068041	0.06765179	0.171061
59322	Cnksr2	0.068041	0.24449172	0.432866
25255	Dyrk1a	0.068031	0.02418056	0.076194
363151	Ccdc12	0.068003	0.37554847	0.572323
366693	Rbm25	0.067997	0.02069733	0.067324
361481	Prr18	0.067924	0.32722529	0.522863
308909	Smpd1	0.0679	0.00204583	0.00963
292816	Zfp507	0.06788	0.28007418	0.473587
116650	Srp54a	0.06784	0.03058297	0.091494
500795	RGD1562114	0.067788	0.50695449	0.693603
54227	Arpc1b	0.067782	0.00712485	0.027926
414786	RT1-M1-2	0.067747	0.75419232	0.869151
300857	Tmem30a	0.067728	1.97E-10	3.32E-09
100362121	Ddb2	0.067727	0.53173125	0.714011
300030	Rhpn1	0.067684	0.02191836	0.07037
362304	Orc5	0.067671	0.1338737	0.283796
311913	Dennd1a	0.067609	0.17886962	0.347574
291750	Trappc8	0.067598	0.01428722	0.049744
307474	Tcerg1	0.067581	0.00436395	0.018436
24778	Slc2a1	0.067571	0.0102814	0.037911
312777	Etv6	0.067544	0.65875881	0.804647
100360406	Tsr1	0.067518	0.08539385	0.204338
310658	Pogz	0.067507	0.08994546	0.211666

304019	Tbc1d23	0.067498	0.04123558	0.115865
500841	RGD1561648	0.067456	0.63784229	0.792569
313663	Crocc	0.067454	0.44785371	0.639863
367838	Zc4h2	0.067415	0.18258494	0.352778
81802	Stx3	0.067388	0.26535605	0.455946
297930	Wwp1	0.067387	0.02779139	0.084917
296954	Tnpo3	0.067243	0.0103608	0.038159
305025	Tp53bp2	0.067234	0.24366887	0.431811
83572	Pafahlb1	0.067232	2.28E-20	8.30E-19
311419	Stk35	0.067221	0.20913403	0.387221
116483	Dars	0.067189	0.02922077	0.088335
299668	RGD1566251	0.067169	0.08161253	0.197749
311163	Ctnnd1	0.067119	3.66E-04	0.002138
295217	Snapin	0.067116	0.01954134	0.064255
58823	Nckap1	0.067098	2.52E-10	4.19E-09
305127	Zfp644	0.067087	0.04007545	0.113425
363098	Ccpg1	0.067071	0.00242897	0.01119
114638	Hps1	0.067062	0.35049657	0.547148
680259	Fam171a1	0.067054	5.55E-04	0.003075
295334	Bcas2	0.067034	0.19952876	0.374978
170849	Zfp111	0.067029	0.46146067	0.652403
309196	Ttc9c	0.067009	0.02198977	0.070552
363629	Cyb5d1	0.066974	0.16573822	0.329693
312480	Pcgf1	0.066954	0.4398594	0.633144
287356	Mrpl55	0.066926	0.15422724	0.312874
312439	Rmnd5a	0.066909	0.00690765	0.027204
312664	Rasgef1a	0.066898	0.0955669	0.221285
85244	Spa17	0.066883	0.28162249	0.475235
366169	Rtf1	0.06688	0.04463283	0.123695
306492	Cnot7	0.066839	0.01927712	0.063518
304733	Epb4115	0.066824	0.48724579	0.675322
54302	Slc14a2	0.066824	0.87655462	0.942524
310460	Arhgef26	0.066768	0.26747253	0.458631
500384	Tmem70	0.066747	0.11338694	0.251421
361767	Poll	0.066727	0.14533504	0.300207
309097	Adgral	0.066709	0.25670575	0.445748
108348083	LOC108348083	0.066639	0.47194369	0.662356
103693495	Oxld1	0.066634	0.54796902	0.728674
64031	Pdcd4	0.066579	0.01345532	0.047306
294390	Zup1	0.066525	0.33931334	0.535884
282843	Sorbs3	0.066433	0.03401419	0.099631
498136	Mtus2	0.066407	0.36649051	0.56248
114119	Gng10	0.066377	0.07414187	0.183691
305831	Atg14	0.06637	0.34779053	0.544665
29524	Limk2	0.066368	0.0919792	0.215202
81634	Actn1	0.066298	0.1959766	0.370496
300710	Ddx10	0.066295	0.1398813	0.292687
306375	Csgalnact1	0.066284	0.08992491	0.211644
65195	Kcnd3	0.066282	7.94E-04	0.004233
261736	Cops2	0.06623	1.23E-05	9.89E-05
315606	Kmt2a	0.066223	0.01773521	0.059435
317368	Porcn	0.066109	0.19284942	0.366512
685859	Ubxn2a	0.066108	0.00516536	0.02133
29500	Slc10a2	0.066081	0.06229855	0.160617
367915	Rab9b	0.066043	0.00270569	0.012292
498310	Ns11	0.066019	0.68282535	0.823324

296370	Ctsa	0.066004	6.17E-05	4.30E-04
102554398	LOC102554398	0.065972	0.48571264	0.673785
310935	Fpgt	0.065968	0.29506331	0.491342
360792	Styx11	0.065926	0.55974617	0.735451
291841	Cnot1	0.065887	0.00593118	0.023902
108348063	NEWGENE_1309551	0.06588	0.42264682	0.618037
309135	Ano1	0.065868	0.39383286	0.59106
102554622	LOC102554622	0.065855	3.61E-04	0.002115
360667	Mfsd11	0.065854	0.07363677	0.182749
312937	Cyld	0.065792	0.11240894	0.249834
362890	Tspan31	0.065786	0.03264402	0.096433
293650	Tcirg1	0.065775	0.11077047	0.246768
171057	Cbwd1	0.065772	0.3831634	0.580075
362044	Cenpe	0.065745	0.57839082	0.746001
100362710	Tiam2	0.065745	0.30428975	0.501141
303088	Trim41	0.065708	0.08745409	0.207495
362687	Srsf7	0.065654	0.05284454	0.140837
100125385	Mroh1	0.065645	0.34238992	0.539133
114906	Pkia	0.065608	0.00261525	0.01193
499309	RGD1560108	0.065572	0.11469641	0.253616
314297	Papln	0.065554	0.03184705	0.094563
362118	Mvb12b	0.065518	3.72E-04	0.002169
286978	Tmsb15b2	0.065504	0.25383715	0.442501
296913	Lsm8	0.065501	0.34289802	0.539532
309255	Mtmr10	0.065497	0.16877961	0.333687
362383	Rpia	0.065429	0.41580542	0.611838
498949	Phlpp2	0.065408	0.21511603	0.39572
50681	Acox1	0.065369	0.02988349	0.089853
291276	LOC291276	0.065349	0.94947419	0.987696
314399	Ubr7	0.065345	0.16661342	0.330193
100911486	LOC100911486	0.065324	0.92355179	0.971234
687565	Denr	0.065297	0.08712139	0.206938
678726	Fbx118	0.065286	0.3718049	0.568301
367289	Kansl11	0.065259	0.27441306	0.466541
361390	Abce1	0.065211	0.00150644	0.007387
296708	Olfml2a	0.065147	0.00466111	0.01954
309429	Kank1	0.065081	0.05165575	0.138211
116543	Ebf1	0.065064	0.00352774	0.015438
80843	Sec61a1	0.064994	0.005792	0.023435
260323	Snx27	0.064985	0.00594462	0.023936
100147704	Usp43	0.064978	0.79064702	0.892001
499798	Arl6ip6	0.064978	0.55277214	0.732963
114839	Ccnc	0.064966	0.05882297	0.153822
29390	Ptpmt1	0.064913	0.20422675	0.380875
301079	RGD1311745	0.064903	0.35803464	0.555048
304923	Gorab	0.064849	0.3599677	0.556731
114513	Rasgrf2	0.064815	0.61164317	0.772976
102546968	LOC102546968	0.064815	0.51289186	0.698464
78961	Golph3	0.064806	0.00962949	0.035917
305884	Acin1	0.064759	0.00464928	0.019512
362515	Anks6	0.064754	0.23799048	0.425031
312166	Cadps2	0.064742	0.07341444	0.182316
304601	Baz2a	0.064728	0.06222699	0.160541
361425	Emc8	0.064708	0.31583033	0.51048
79249	Abi1	0.064658	0.02495115	0.077977
29546	Homer1	0.064643	0.28947546	0.484537

309010	Sec23ip	0.064604	0.0823173	0.199027
24766	Scn2a	0.064592	0.28681112	0.481177
290549	Selenok	0.064538	0.04152064	0.11646
85384	Sos2	0.064486	0.1024557	0.232904
308236	Zfp53	0.064465	0.63161467	0.788225
367307	Dis312	0.064462	0.28029107	0.473618
306792	Slpr3	0.064439	0.00162655	0.007882
246244	Tax1bp1	0.06443	3.85E-05	2.81E-04
291212	B3galnt2	0.064426	0.2668522	0.458186
24564	Mpz	0.06442	1.46E-184	#####
291689	Cdc23	0.064402	0.05265231	0.140404
100360508	LOC100360508	0.064363	0.00192132	0.009141
260325	Homez	0.064356	0.62947945	0.78654
499751	Man1b1	0.064352	0.00236606	0.010943
313611	Pafah2	0.064298	0.33776942	0.534643
192110	Pou3f1	0.064291	0.33481934	0.531298
140915	Slco3a1	0.064255	0.04137759	0.116161
683007	Mia3	0.064233	0.01325854	0.046752
64465	Cdc42	0.064227	1.24E-07	1.43E-06
171455	Exoc2	0.064222	0.00363084	0.015813
312649	Tsen2	0.064219	0.48490467	0.673106
83731	Kcnma1	0.064206	0.14481277	0.299355
192243	Golgb1	0.064196	0.00275283	0.012483
293344	Arfip2	0.064171	0.01899676	0.062822
305816	Ddhd1	0.064147	0.06296246	0.162131
297522	Sec13	0.064141	0.10694986	0.240252
29372	Rasa3	0.064123	0.15076359	0.307551
79215	Mtpn	0.064122	0.01095771	0.039948
288064	Kpna1	0.064112	0.01068098	0.039089
292610	Zfp606	0.064094	0.43749719	0.631366
691774	Lpar6	0.064094	0.47509854	0.665459
171134	Lgals2	0.064094	0.87897466	0.944113
25655	Gja4	0.064094	0.56885393	0.738502
361321	Atg12	0.064073	0.01671963	0.056569
103690102	LOC103690102	0.064052	0.56296406	0.73436
310155	Mtmr12	0.064051	0.20636245	0.383881
54265	Llgl1	0.064035	0.07677582	0.188476
60427	Kitlg	0.064002	0.00728381	0.02842
100362965	LOC100362965	0.063966	0.39412045	0.591445
360670	Slc26a11	0.063957	0.50729976	0.693676
362007	Sike1	0.063931	0.17373548	0.341007
117045	Eif4e	0.063907	0.00924336	0.034742
288617	Tpst1	0.063906	0.17378794	0.341075
83836	Nde1	0.06386	0.41659876	0.61239
302980	Fahd1	0.063791	0.31912964	0.514068
315764	Plekho2	0.06376	0.10376286	0.23495
314436	Elk1	0.063756	0.18259577	0.352763
688673	Pomt2	0.063752	0.20649264	0.384011
360687	Cadm2	0.063675	0.39802614	0.595289
316067	Xylb	0.06362	0.14339844	0.297789
25492	Nfia	0.063605	0.26937891	0.460697
303245	Senp3	0.0636	0.06585667	0.167545
363634	Kctd11	0.063468	0.39588475	0.593204
29366	Serpine2	0.063432	0.00125944	0.006309
116636	Eif4ebp1	0.063371	0.44891113	0.640749
116633	Akap8	0.063363	0.06188893	0.15995

296182	Tmx4	0.063307	2.09E-04	0.001292
362918	Mtssl	0.063306	0.08317248	0.200407
114553	Ncf1	0.063301	0.25150321	0.43964
291309	Usp6nl	0.063251	0.01359161	0.047724
316412	Tmem237	0.063251	0.11754155	0.258228
309513	Ppplr3c	0.063235	0.34475321	0.541288
100364568	Rprd2	0.063208	0.09753231	0.224472
29721	Hivep2	0.063195	0.02764862	0.08463
25439	F2r	0.063143	0.06010159	0.156221
308577	Fuz	0.063125	0.32410382	0.519619
290447	Mycbp2	0.063119	2.29E-05	1.75E-04
362876	Ppfia2	0.063105	0.15117647	0.308162
315439	Slc36a4	0.063069	0.14839436	0.304216
317617	Hdx	0.063066	0.73546548	0.857297
498999	Ahrr	0.063066	0.73546548	0.857297
301674	Fbxo11	0.063038	0.01652541	0.056041
308602	Tmem86a	0.062971	0.54587164	0.726697
293117	Ankrd42	0.062942	0.29064834	0.48603
300308	LOC300308	0.06293	0.56026498	0.735727
317612	Htatsf1	0.062928	0.09683952	0.223228
85385	Shc1	0.062899	0.00108622	0.005549
54705	Pdp1	0.062897	0.09555083	0.221302
290746	Trappc11	0.062861	0.05634803	0.148471
117087	Stim2	0.062729	0.02968284	0.089434
314798	Mettl25	0.062727	0.52968981	0.712375
116464	Ncoa6	0.062708	0.05329127	0.14179
298186	Ttc39b	0.062705	0.12619008	0.271896
307926	Ccsap	0.062696	0.47332104	0.663702
310013	Fam169a	0.062675	0.17514152	0.342848
309242	Gna14	0.062656	0.00407949	0.01744
100151767	Nkapd1	0.062642	0.25136761	0.439524
25227	Arsb	0.06264	0.16250016	0.325359
363460	Fgd1	0.062602	0.3882994	0.585524
171494	Aplg1	0.062584	0.02020183	0.066062
114511	Emb	0.062569	0.11944604	0.261357
685619	LOC685619	0.062531	0.26207575	0.451736
310533	Rapgef2	0.062501	0.09000334	0.21175
100911664	LOC100911664	0.062485	2.12E-04	0.001308
286919	Cdk5rap2	0.062475	0.18685523	0.358772
300791	Spg21	0.062443	0.06460442	0.16522
310137	Cplane1	0.062405	0.05203343	0.139006
308864	Fchsd2	0.062393	0.11810782	0.259263
500855	Zfp706	0.06238	0.05278644	0.140702
294917	Tnik	0.062356	0.04703196	0.1289
373066	Ift81	0.06233	0.24844921	0.436666
678774	LOC678774	0.06232	0.16667174	0.330274
25497	Nup50	0.062288	0.11352678	0.251643
29223	Ak4	0.062282	0.57412287	0.742306
293410	Swap70	0.06224	0.08218529	0.198834
317256	Taf1	0.062222	0.02226605	0.071282
24943	Plp1	0.062202	5.18E-11	9.24E-10
499624	Tsc22d2	0.062198	0.09196523	0.215222
298442	Ccdc163	0.062194	0.54824742	0.728841
363171	Tmem42	0.062179	0.33656019	0.533216
58976	Slc30a1	0.062176	0.38862058	0.58573
293829	Mcee	0.062139	0.31963399	0.514576

499328	Rfk	0.062135	0.01220762	0.043718
364682	Nhlrc1	0.062107	0.57463777	0.742669
685574	LOC685574	0.062107	0.33100526	0.527266
362256	Snhg11	0.062105	1.31E-04	8.46E-04
363165	Csrnp1	0.062027	0.61906394	0.777607
300985	Parp3	0.061934	0.13403943	0.284053
295394	Dph5	0.061933	0.37550795	0.572353
79120	Arf4	0.061874	0.00261516	0.011932
308939	Ipo7	0.061865	0.0111972	0.04065
306357	Gmip	0.061828	0.28988745	0.484928
690806	Smim13	0.061786	0.01497273	0.051771
311372	Spg11	0.061771	0.10412121	0.235509
360647	Icam2	0.061759	0.57566123	0.74379
499593	Sox2	0.061699	0.16554572	0.329414
363160	Stt3b	0.061672	0.05126949	0.137544
500282	Arl8b	0.061645	3.24E-07	3.50E-06
306586	Amt	0.061587	0.33876683	0.535376
500050	Asb15	0.061587	0.79581984	0.894552
288108	Naa50	0.061575	0.24801273	0.436786
54243	Cr11	0.061573	0.04878002	0.132565
311279	Ar114ep	0.061571	0.08450401	0.202948
293067	Zfand6	0.061554	0.07111582	0.177813
362361	Hnrnpa2b1	0.061525	0.00330619	0.014586
363287	Hdac4	0.06145	0.07742343	0.189528
294421	Serinc1	0.061411	1.53E-16	4.48E-15
297602	Tapbp1	0.061348	0.29168454	0.487164
171139	Timm9	0.061339	0.42198725	0.617357
308789	Ef11	0.061332	0.30669117	0.502705
63996	Smcla	0.061267	0.00686714	0.027078
290028	Osgep	0.061246	0.49472991	0.681381
497619	Fut10	0.061246	0.57718074	0.745046
307839	Zfp612	0.061238	0.03896507	0.110842
246769	Hint3	0.061236	0.38498494	0.581723
307956	Rbm34	0.061222	0.28851857	0.483275
29637	Hmgcs1	0.061216	4.47E-15	1.19E-13
360581	Tada2a	0.061172	0.31249846	0.507637
64538	Ilkap	0.061163	0.2039649	0.380648
309514	Hectd2	0.061159	0.35243349	0.549496
290280	Xpo4	0.061142	0.12558223	0.270801
366192	Fastkd5	0.061139	0.44952773	0.641197
309891	10-Sep	0.06113	0.14892712	0.304718
307148	Nsun6	0.06111	0.56430027	0.735297
289143	Mrps14	0.061079	0.24514294	0.433254
303175	Hist3h2ba	0.061067	0.34946625	0.546077
294709	Trappc13	0.061055	0.04652754	0.127738
84357	Sh3kbp1	0.060993	0.01629049	0.055392
315423	Cep57	0.060956	0.2980368	0.49465
100363253	Nt5c2	0.060952	0.04932969	0.133753
641452	Ube2d2	0.06094	0.03345027	0.098281
117282	Hnrnpk	0.060909	3.80E-06	3.40E-05
312981	Asph	0.060886	0.02234807	0.071449
117272	Prpsap2	0.060872	0.09941109	0.227586
24326	Ednra	0.060869	0.37452418	0.571128
309172	Frm8	0.060839	0.0107364	0.039247
293454	Ubf1	0.060806	0.06449724	0.165079
315771	Herc1	0.060804	2.45E-04	0.001495

314190	Klhdc1	0.060796	0.4962433	0.682576
116478	Kidins220	0.060795	6.25E-07	6.43E-06
296374	Zmynd8	0.060792	0.02186361	0.070277
297093	Cbx3	0.060748	0.02148099	0.06934
25533	Rabggtb	0.060688	0.09199206	0.215206
81662	Gnal1	0.060661	0.31443341	0.508913
308291	Phactr2	0.060649	0.01829589	0.06097
316157	Pp2d1	0.060621	0.1804624	0.349777
81663	Gnal2	0.060621	0.00106648	0.005464
171083	Itfgl	0.060612	5.39E-06	4.68E-05
291132	Gpld1	0.060592	0.36811657	0.564293
500837	Helb	0.060568	0.28985043	0.484909
100911928	LOC100911928	0.060564	0.85267818	0.927428
310773	Cept1	0.060561	0.07431912	0.183939
287834	Recql5	0.060537	0.32022188	0.515391
689844	Maml2	0.060523	0.16349094	0.326862
64678	Tfrc	0.060499	6.88E-04	0.00372
294643	Lhfp12	0.060485	0.08358451	0.201171
309400	Cemip2	0.060453	0.04647759	0.127693
100192313	Atxn713b	0.060445	8.45E-04	0.004468
686234	Mtrf1	0.06044	0.36778318	0.563918
114514	Clasp2	0.060437	5.24E-05	3.71E-04
288238	Pigp	0.060422	0.16252263	0.32537
100911537	LOC100911537	0.060409	0.9666039	0.999401
361726	Sdhaf2	0.060407	0.01410137	0.049178
25265	P2ry1	0.060387	0.12402442	0.268964
291737	Ino80c	0.060273	0.06061763	0.157262
282840	Atf5	0.060224	0.00713471	0.027959
299138	Six4	0.060217	0.03475826	0.101203
304914	Rabgap11	0.060197	0.01229657	0.043954
308761	Prc1	0.060179	0.5671446	0.737036
83689	Cd164	0.06017	3.21E-07	3.48E-06
689079	Ar115	0.060153	0.23310451	0.418937
81815	Tpp2	0.060125	0.00784556	0.030283
316426	Spats21	0.060113	0.21660782	0.397772
305826	Samd4a	0.060071	0.54272319	0.724176
362426	Bms1	0.060058	0.14392245	0.298324
171329	Usp15	0.060045	0.02060633	0.067154
362115	Fam129b	0.060024	0.02080653	0.067621
29468	Pdia3	0.060002	3.73E-07	3.97E-06
288309	N6amt1	0.059979	0.55512761	0.734501
310630	Sema4a	0.059968	0.45195411	0.643597
500913	Shisall	0.059967	0.02187797	0.0703
316524	Zfp142	0.059959	0.06356668	0.163378
684998	LOC684998	0.059918	0.38302202	0.579953
252891	Sra1	0.059902	0.24952608	0.437953
361074	Slc25a30	0.059759	0.23510863	0.421505
29719	Kcnj16	0.059758	0.79638579	0.895029
25635	Mc4r	0.059724	0.74200175	0.860465
287716	Psme3	0.059658	0.01461531	0.050701
103690404	NEWGENE_1310847	0.059646	0.57437701	0.742484
316611	Agap1	0.05964	0.01018032	0.037574
303614	Smurf2	0.059596	0.11958754	0.261606
685695	MacroD2	0.059588	0.19116224	0.364433
685834	Znf740	0.059571	0.09751752	0.224465
363487	RGD1566265	0.059556	0.40557264	0.602224

290994	Lman2	0.059542	0.13955328	0.292226
680717	Zfp703	0.059537	0.25482772	0.443498
103693620	LOC103693620	0.059468	0.790484	0.89187
305070	Tmem206	0.059448	0.35893618	0.555858
502994	Pramef8	0.059436	0.58259694	0.749396
302969	Srrm2	0.059433	1.75E-08	2.27E-07
102551095	LOC102551095	0.05942	0.41351398	0.60936
307855	Fa2h	0.059412	0.00948213	0.035451
302313	Tspan6	0.059408	0.17575886	0.343774
363661	Mrm1	0.059356	0.37978058	0.57688
314718	Actr6	0.059354	0.17342253	0.340674
299116	Sav1	0.059353	0.16850994	0.333189
100362640	Rps4x	0.059329	4.75E-05	3.40E-04
363229	Slc39a10	0.059312	0.02952268	0.089007
317508	Map7d2	0.059302	2.12E-07	2.34E-06
289822	Cep68	0.059298	0.09377257	0.218165
689788	Prdm5	0.059277	0.7193441	0.846562
288239	Ripply3	0.059277	0.88337041	0.946486
500907	Rps19bp1	0.059277	0.56992616	0.73939
686075	Gapt	0.059277	0.83564882	0.918134
100361513	Gcc1	0.059276	0.31558451	0.51017
108350839	LOC108350839	0.059258	0.44311833	0.63596
100302453	Mettl9	0.059216	0.07643792	0.187816
307398	Arhgef37	0.05915	0.2201497	0.402221
360715	Boc	0.059147	0.22687401	0.410763
500430	Ankrd6	0.059145	0.23032852	0.415241
313825	Vps13d	0.059122	0.0093077	0.034922
25399	Cacna2d1	0.059062	0.00100915	0.005216
117152	Cand1	0.059036	0.00138386	0.006855
81641	Anpep	0.059031	0.44679821	0.639314
297783	Mybl1	0.05895	0.4470966	0.639453
362906	Nudcd1	0.058921	0.24939986	0.437852
498934	Lsm6	0.058921	0.63598652	0.790934
493810	Capza2	0.058918	0.00101224	0.005229
289168	Kifap3	0.058914	1.13E-06	1.11E-05
362573	Szt2	0.05889	0.09416083	0.218774
29700	Pcbd1	0.058885	0.16533993	0.329107
362828	Spp12b	0.058863	0.09175613	0.214891
192129	Vmp1	0.05883	0.01611128	0.05495
363194	Xpo5	0.058808	0.1288108	0.276013
298643	Miip	0.058805	0.48653914	0.674686
84496	Stau1	0.058802	0.03293476	0.097066
25482	Mras	0.058784	0.04289668	0.119685
286906	Pdia6	0.058741	0.0025893	0.011829
303476	Abi3	0.058727	0.77021146	0.879312
289382	Ints7	0.058718	0.25048309	0.438501
308843	Tsku	0.058699	0.52447174	0.708258
500006	Pex1	0.058681	0.2219014	0.404142
303592	Tlk2	0.058645	0.07881646	0.192296
24511	Itgb1	0.058606	6.87E-07	7.00E-06
288731	Pgam5	0.058596	0.26652264	0.457744
117553	Uba3	0.058589	0.00884546	0.033412
499067	Smim17	0.058582	0.08214566	0.198788
303010	Cpeb4	0.058565	0.0146562	0.050824
102549506	LOC102549506	0.058547	0.72092598	0.847272
363783	Zdhhc23	0.058547	0.66174482	0.806691

140926	Daxx	0.058541	0.2434306	0.431509
116456	Dnajc2	0.058527	0.12968541	0.277107
81738	Nup98	0.058514	0.09391281	0.218411
289350	Rab3gap2	0.05845	0.0214831	0.069335
29728	Mcm4	0.058436	0.29339919	0.489213
364605	Sgcz	0.058403	0.74463943	0.862264
246046	Lmbrd1	0.058379	0.00539316	0.022117
314743	Cdk17	0.058378	0.2026752	0.378761
685545	Mcrip2	0.058341	0.7000897	0.835571
497954	Ovca2	0.058334	0.40419422	0.601209
287126	Mrps34	0.058311	0.25560567	0.444486
311911	Rabgap1	0.058303	0.01769926	0.059356
84491	Qsox1	0.0583	0.10368493	0.234829
310288	Hps3	0.058299	0.16069278	0.322826
102548459	LOC102548459	0.058273	0.72019029	0.846877
25594	Ppplcb	0.058237	2.52E-04	0.001533
499014	Zdhhc14	0.058192	0.20703186	0.384638
116683	Efna5	0.058147	0.1420792	0.295888
79559	Alcam	0.058145	0.00126198	0.006318
362612	Srsf4	0.058139	0.132698	0.282057
287543	Tnfaip1	0.058108	0.01706078	0.057549
24831	Thrb	0.0581	0.4190261	0.614677
116600	Cacnb2	0.057926	0.61581294	0.775364
54241	Cltc	0.057912	9.05E-15	2.35E-13
309331	Uhrf2	0.057911	0.09808747	0.225368
289632	Pgm2	0.057872	0.27352232	0.465609
294774	Ttc33	0.05785	0.08508685	0.203859
140923	Bnip3l	0.05783	0.00182972	0.008764
502020	Lrch1	0.057824	0.24667624	0.435318
361181	Cul4a	0.057809	0.04744198	0.129725
25406	Cd44	0.057798	0.0018989	0.00905
89821	Trpc1	0.057788	0.13937405	0.291947
309098	Tubgcp2	0.057725	0.05417063	0.143808
499339	Pum3	0.057671	0.1603641	0.322336
291464	Snx2	0.057666	0.02342766	0.074215
171136	Cblb	0.057656	0.09498434	0.220151
83825	Dclk1	0.057653	0.00154837	0.007553
289900	Fam149b1	0.05765	0.14371089	0.29821
306809	Bicd2	0.057635	0.00466467	0.019551
366065	Cers6	0.057609	0.42037581	0.615661
89820	Prmt3	0.057604	0.18213261	0.352154
313061	Virma	0.057504	0.15441543	0.313222
304337	Zfp68	0.057481	0.0691817	0.174051
366381	Cdc26	0.057461	0.22324025	0.406076
360745	Lztr1	0.057458	0.02483522	0.077679
364052	Pea15	0.057453	2.96E-13	6.69E-12
114487	Wnt2	0.057436	0.70220469	0.83723
500625	Atad2b	0.057436	0.70220469	0.83723
362156	Zdhhc5	0.057417	0.04646989	0.12769
24908	Dnajb9	0.057406	0.06756381	0.170883
286970	Abca5	0.057388	0.02209654	0.070847
499891	RGD1565616	0.057385	0.03214103	0.095302
287773	Helz	0.057378	0.17788267	0.346611
654482	Cfap300	0.05737	0.54001877	0.721933
117513	Sec22a	0.057347	0.42897177	0.624218
290997	Uimc1	0.057344	0.25939037	0.448773

366698	Adck1	0.057239	0.50850767	0.695029
297865	Dsel	0.057175	0.26005946	0.449522
312199	Klhdc10	0.057171	0.00714318	0.027975
81745	Pdpk1	0.057163	0.00134344	0.006677
317407	Bhlhb9	0.057157	0.13815674	0.290035
25044	Sds	0.057141	0.77310227	0.881291
304299	Radi1	0.057141	0.42217637	0.617491
54319	Ezr	0.057113	0.08159142	0.197723
29215	Arg2	0.057099	0.31308283	0.508023
300963	Cep63	0.057087	0.37439757	0.57098
305021	Sccpdh	0.057078	0.01140097	0.04128
117257	Gpr176	0.057061	0.30356154	0.500635
500244	Aak1	0.057055	2.79E-04	0.001675
245922	Nup58	0.057035	0.20626889	0.383819
102550577	LOC102550577	0.057033	0.91340843	0.964508
363521	Taz	0.057013	0.31841961	0.513315
298936	Sntg2	0.057008	0.77362334	0.881674
306038	Enox1	0.056964	0.19513259	0.369377
290805	Wrn	0.056949	0.21910771	0.40074
306262	Btd	0.056933	0.2319212	0.417362
24962	Cth	0.056919	0.64974222	0.802122
366593	Dus4l	0.056885	0.68409791	0.824285
313413	Sgip1	0.056857	0.03173313	0.094298
29284	Rps14	0.056848	0.00440849	0.018604
288908	Cc2d1a	0.056783	0.12487132	0.270002
313067	Tmem67	0.056704	0.35192192	0.548833
311362	Frmf5	0.0567	0.38229555	0.57913
498119	Spidr	0.056671	0.60463986	0.767742
360932	Atp10d	0.056616	0.42421063	0.619515
294715	Rgs7bp	0.056565	5.02E-06	4.37E-05
363284	Ube2f	0.056537	0.21724843	0.398641
84599	Tmed10	0.056502	0.01585004	0.054234
305586	Papalg	0.05648	0.34715881	0.543899
361760	Cutc	0.056465	0.51124678	0.697221
171086	Trak2	0.056447	0.00350059	0.01534
367236	Col19a1	0.056442	0.44023421	0.633492
361508	Mzf1	0.056425	0.40339449	0.600254
683687	Snx9	0.056422	0.25918754	0.448544
308519	Dpy1913	0.056395	0.20228966	0.378337
307217	Tshz1	0.05636	0.19195451	0.365431
307643	Usb1	0.056357	0.42521849	0.620416
25340	Npy5r	0.056298	0.61998532	0.778148
116645	Plaa	0.05629	0.04190994	0.117361
291877	Nudt21	0.056241	0.0376742	0.107814
287931	Ppm1f	0.056222	0.01963511	0.064519
25130	Stx2	0.05618	0.05051161	0.135856
317486	RGD1565844	0.056133	0.83979521	0.920089
688613	LOC688613	0.056133	0.62047406	0.778505
690297	Pwp2	0.056111	0.33769135	0.534563
361624	Akip1	0.056095	0.4859887	0.674119
315496	Dpy1911	0.056081	0.07619783	0.187371
360991	Vrk2	0.056077	0.77315886	0.881303
311430	Mavs	0.056063	0.22867222	0.413194
548106	Pcdhb19	0.056052	0.61014253	0.771745
24650	Pkd1	0.05605	0.00345336	0.015172
499407	LOC499407	0.056046	0.82131779	0.909842

361295	Ss18	0.056043	0.1341032	0.284156
100910088	LOC100910088	0.056014	0.4752187	0.66553
299923	Ndrg1	0.056012	6.40E-09	8.86E-08
363135	Rad5412	0.056009	0.33698337	0.533798
24624	Pccb	0.056008	0.18288674	0.353074
192235	Hyou1	0.055996	0.0181009	0.060437
29374	Cct4	0.055993	0.00200825	0.009486
288150	Mtx2	0.055972	0.15029599	0.30686
691729	Spata511	0.05596	0.66149201	0.806537
108348145	LOC108348145	0.055942	0.51908937	0.703884
311546	Tpx2	0.055935	0.58046712	0.747919
306516	Gtf2e2	0.055925	0.25467645	0.443396
114114	Dnm11	0.055913	5.90E-05	4.13E-04
314212	Daam1	0.055908	0.08155729	0.197666
316552	Rnf1112	0.055905	0.04483536	0.124148
295143	Etfhd	0.05588	0.12944091	0.276833
361070	Xpo7	0.055796	0.030274	0.09077
362766	Alkbh1	0.055784	0.35877248	0.55583
291034	Mcur1	0.055779	0.47610101	0.665737
304817	Ipo9	0.055745	0.0285909	0.086872
140932	Bnip1	0.055721	0.42771155	0.622813
681023	Qsox2	0.055667	0.23607244	0.422835
365793	Rab33b	0.055653	0.17682012	0.345389
362204	Casc4	0.05565	0.01473987	0.051077
103691376	LOC103691376	0.055646	0.81776293	0.90844
29185	Cd37	0.055642	0.56907986	0.738695
299957	Nsmce2	0.055583	0.36227413	0.55871
291914	Cnep1r1	0.055534	0.24437066	0.432733
680945	Sdf211	0.055497	0.47830571	0.667644
29507	Cox7a2	0.055497	0.03060347	0.091541
64189	Pafah1b2	0.055485	4.18E-04	0.002398
83536	Mkln1	0.055468	0.07583475	0.186767
293570	Abraxas2	0.055468	0.11201384	0.249159
108351581	LOC108351581	0.055444	0.48785117	0.675669
294988	Ankrd50	0.055388	0.0434989	0.121099
296302	Eif2s2	0.055345	0.02204263	0.070686
304941	Pogk	0.055338	0.03545384	0.102742
65209	Dync2h1	0.055328	0.30266587	0.499807
363513	Ids	0.055305	2.11E-06	1.98E-05
365057	Map3k5	0.055267	0.29707675	0.493702
689142	Snx29	0.055202	0.17142297	0.337826
79426	Zfp36	0.055182	0.17381878	0.3411
100361294	Tyk2	0.055169	0.25883186	0.448091
108353146	LOC108353146	0.055161	0.88726506	0.949137
353250	Niacr1	0.055161	0.88726506	0.949137
366518	Tnfrsf14	0.055123	0.78945311	0.891235
691209	Slc12a6	0.055087	0.03717083	0.106695
288734	Chfr	0.05508	0.12382018	0.268674
295384	Prmt6	0.055074	0.40232576	0.599413
309167	Pcnx3	0.055066	0.09255908	0.216293
290627	Use1	0.05506	0.10365434	0.234788
25288	Acs11	0.055037	0.03173114	0.094307
360557	Nlrpla	0.055006	0.55311096	0.733208
291057	Eef1e1	0.05498	0.26122934	0.450767
102553442	LOC102553442	0.05495	0.94138457	0.982878
498160	Zkscan1	0.054946	0.26518648	0.455696

353307	Slc29a3	0.054944	0.40251661	0.599603
65156	Dhodh	0.054937	0.55962926	0.735348
103691238	LOC103691238	0.054885	0.64394053	0.797441
306096	Dach1	0.05488	0.46242669	0.653041
102556057	LOC102556057	0.054844	0.76603247	0.877012
364981	Scoc	0.05482	2.94E-04	0.001755
290651	Isyna1	0.05479	0.18746743	0.359621
365527	RT1-M6-2	0.054684	0.7773908	0.883958
83792	Scd2	0.054675	1.06E-45	9.09E-44
290232	Tinf2	0.054663	0.31096182	0.506263
362685	Gpatch11	0.054636	0.11352947	0.25162
300836	Fam214a	0.054629	0.23440908	0.420646
304218	Pds5b	0.054596	0.02188709	0.070317
500419	Rmdn1	0.054499	0.39121791	0.588201
84391	Kif2a	0.054488	0.01815754	0.060583
312651	Ift122	0.054476	0.25224117	0.440647
498489	Naa30	0.054447	0.1696635	0.335087
64846	Slc13a3	0.054438	0.16097817	0.323229
313385	Kank4	0.054314	0.02221247	0.071158
500288	Thumpd3	0.054303	0.12962137	0.277064
81512	Cnmd	0.054302	0.00638927	0.025526
170851	Map2k1	0.054268	0.01339963	0.047136
296851	Pon2	0.054257	0.02768027	0.084713
24356	Ets1	0.054256	0.28406183	0.477996
303274	Phf12	0.054248	0.22013685	0.402236
362295	Lmbr1	0.054244	0.34543709	0.542004
64471	Plekhh1	0.054239	8.77E-07	8.78E-06
81803	Stx4	0.054236	0.19146657	0.364648
680778	Rt14	0.054224	0.5987847	0.762239
362495	Ndufaf4	0.054206	0.31534437	0.509954
64442	St3gal2	0.054202	0.04209351	0.117772
309532	Atad1	0.054175	0.01621158	0.055213
303606	Ccdc47	0.054174	3.28E-04	0.001942
315330	Esp11	0.054173	0.71497852	0.844032
287766	Cep95	0.054154	0.43737569	0.631382
498030	Anapc11	0.05415	0.17476642	0.34236
360953	Stx18	0.054137	0.17082261	0.336852
500040	Tes	0.054133	0.0940547	0.218608
246142	Bmf	0.054113	0.48241713	0.67112
307548	Dtna	0.054091	0.08602067	0.20527
246294	Optn	0.05409	0.00535892	0.02202
302290	Ap3s1	0.054056	0.03614794	0.104293
100361891	Rab5a11	0.053978	0.01628642	0.055388
84593	Cetn2	0.053943	0.11827383	0.259478
288124	Nectin3	0.053933	0.19595373	0.370489
690254	Polr3gl	0.053919	0.52043201	0.705103
362617	Ahdcl	0.053908	0.19570813	0.370172
100910768	LOC100910768	0.053893	0.00813368	0.031181
498003	Dusp3	0.053883	3.46E-04	0.002038
83724	Ncoa2	0.053869	0.06399435	0.164122
303915	Iqcb1	0.05385	0.35251794	0.549538
361857	Traf3ip2	0.053826	0.31534655	0.509915
24651	Pklr	0.053784	0.7270346	0.851246
362636	Usp48	0.053778	0.03013902	0.090465
192272	Acot2	0.053775	0.31636798	0.511132
89825	Nap111	0.053758	1.25E-05	1.01E-04

171138	Kcne2	0.053734	0.75493073	0.869686
314228	Snapc1	0.053717	0.46695576	0.657925
498941	Fbxl8	0.053717	0.67449505	0.81716
361674	Eps812	0.053677	0.65809221	0.804246
361645	Nsmce1	0.053677	0.32238106	0.517598
308322	Zim1	0.053651	0.80789393	0.902213
304005	Nfkbiz	0.053542	0.69257982	0.830302
308971	Tnrc6a	0.05354	0.04015169	0.113607
303238	Ctcl	0.053514	0.11386163	0.25218
362277	Rnf114	0.053514	0.12739177	0.273804
24674	Ppp3ca	0.053513	3.35E-05	2.48E-04
108349548	LOC108349548	0.053504	0.3232207	0.518465
191569	Pde9a	0.053438	0.58860052	0.754113
503252	Coa5	0.053423	0.02806842	0.085557
304176	MGC95208	0.053385	0.46826263	0.658889
362545	Tm2d1	0.053379	0.1152183	0.254356
362530	Akna	0.053319	0.43002114	0.624314
312790	Gprc5a	0.053319	0.8436024	0.921926
307526	Ammecr11	0.053268	0.15501356	0.314001
252853	Stx17	0.05326	0.25742617	0.446388
100361660	Zfp617	0.053257	0.63125791	0.78809
685707	Nav1	0.053237	1.93E-04	0.001205
289992	Fermt2	0.053219	0.00164433	0.007962
500651	Sptssa	0.053213	0.16339503	0.326739
116599	Blvra	0.053204	0.22136574	0.403552
103689959	Armh3	0.05319	0.17215697	0.338957
310652	Tdrkh	0.05312	0.08703255	0.20714
319110	Hrnpr	0.053111	0.12875657	0.275928
307200	Socs6	0.053042	0.4339802	0.62829
252895	Pcdhga9	0.053034	0.57378735	0.742276
361065	Bin3	0.052979	0.29369491	0.48962
24640	Pfkfb2	0.052947	0.15848285	0.319296
100909824	LOC100909824	0.052901	0.57837255	0.746028
362197	Mapkbp1	0.052898	0.30594846	0.501833
100911685	LOC100911685	0.052891	0.3666942	0.562702
191574	Akr1c14	0.05285	0.59054951	0.755721
361692	Nudt8	0.05285	0.59054951	0.755721
24390	B4galt1	0.052844	0.39812119	0.595384
84430	Pomt1	0.052796	0.34112793	0.537991
103689968	LOC103689968	0.052772	0.00535094	0.021996
24499	Il6r	0.052757	0.48766314	0.675605
64018	Slc33a1	0.052748	0.20605284	0.383492
298841	Atraid	0.052734	0.32164993	0.516729
192361	Ppplr2	0.052714	6.52E-07	6.68E-06
683923	Bend3	0.052705	0.58991999	0.755296
287522	Smg6	0.052702	0.2735277	0.465576
679890	Gpkow	0.052665	0.18009811	0.34932
692032	Mzt1	0.052625	0.29103012	0.48637
29424	Htt	0.052601	0.01418781	0.049434
684934	Ccdc9	0.052596	0.18369164	0.354126
290551	Chdh	0.052569	0.29974319	0.496314
305853	Rab2b	0.052528	0.01555061	0.053449
310200	Ankrd33b	0.052446	0.78190582	0.886709
690911	Spen	0.05242	0.1118412	0.248863
315722	Adpgk	0.052411	0.30008765	0.496755
316557	Rhbdd1	0.052373	0.41315422	0.609019

362567	Pomgnt1	0.052339	0.08025108	0.194996
303753	Foxk2	0.05227	0.11369763	0.251963
364033	Vamp4	0.052241	0.01061141	0.038939
84473	Ddx20	0.052228	0.36499647	0.561227
56785	Ralgap1	0.052223	0.01765548	0.05923
252892	Lgil	0.052166	0.09191555	0.215185
307382	Napg	0.052067	0.00701133	0.027555
305865	Slc35f4	0.052059	0.64732809	0.800335
311846	Lrrc8a	0.052047	0.01390937	0.048588
303678	Caskin2	0.052034	0.02734497	0.083862
362886	Rassf3	0.051992	0.36602372	0.562216
299732	Lta4h	0.051987	0.1278682	0.274518
361980	Khdc4	0.051972	0.2265	0.410203
362212	Tmem87b	0.051965	0.03619674	0.104402
84580	Hdac5	0.051958	0.12041148	0.263107
24913	Pla2g16	0.051921	0.09485833	0.220019
691814	Mrpl57	0.051893	0.2812025	0.474736
362286	Dido1	0.051851	0.133064	0.282583
292097	Arv1	0.051848	0.42212016	0.617456
116459	Serpini1	0.051848	0.09969631	0.228074
24791	Sparc	0.051844	7.63E-25	3.49E-23
680068	Dmrtclb	0.051806	0.52292256	0.707119
94273	Mgat2	0.051743	0.24648359	0.435058
266681	Tmprss5	0.051727	0.00328161	0.014494
60670	Fut4	0.051714	0.59435243	0.758777
499280	Mapklip1	0.051704	0.26400597	0.454241
360702	Ttc3	0.051695	2.96E-06	2.71E-05
679532	Elovl1	0.051682	0.01199231	0.043061
500413	Triqk	0.05168	0.26776048	0.458836
303519	Krt25	0.051656	0.7736407	0.881641
89826	Rpe65	0.051652	0.79151834	0.892403
304794	Rbbp5	0.051633	0.1495596	0.30575
310879	Alpk1	0.051565	0.36237625	0.558777
291133	Aldh5a1	0.051543	0.21102308	0.389923
171116	Opal	0.051528	0.00159139	0.007747
155173	Sdf4	0.051526	0.03496215	0.101611
309454	Mfsd13a	0.051513	0.4037974	0.600759
64202	Calr	0.051448	3.25E-06	2.94E-05
25054	Ntrk2	0.051446	6.16E-05	4.30E-04
64830	Unc13b	0.051446	0.52963458	0.712351
103693024	Zfp558	0.051438	0.70295926	0.837579
289560	Igfbp7	0.051386	0.00183685	0.008794
312890	Gdap1	0.051357	0.00991305	0.036802
292898	Pih1d1	0.051345	0.47495696	0.66531
498014	RGD1565033	0.051268	0.29286133	0.488658
292811	Cep89	0.051208	0.49377063	0.680749
102550026	LOC102550026	0.051196	0.55622732	0.735445
291145	Hist1h1a	0.051192	0.89334032	0.952826
108352464	LOC108352464	0.051192	0.69871734	0.834823
362635	Zbtb40	0.05117	0.33835297	0.534988
297381	Wbp1	0.05114	0.29664319	0.493197
81522	Mtr	0.051134	0.33836533	0.534963
292820	Zfp536	0.051122	0.38120865	0.578173
171402	Elovl6	0.051098	0.79337796	0.893759
315714	Loxl1	0.051085	0.46377902	0.65432
192357	Gmpr2	0.051081	0.23663605	0.423565

290234	Dhrs1	0.051081	0.36451458	0.560712
266758	Sec11c	0.051051	0.18283602	0.353012
312270	RGD1563986	0.051025	0.57319589	0.742317
307236	Adnp2	0.05101	0.34896979	0.545839
365382	Inpp5a	0.050985	0.32005505	0.515166
689092	Gcnt6	0.050975	0.85263755	0.927436
29670	Psm3	0.05091	0.00654748	0.026054
25145	Cd24	0.050908	0.01357786	0.047684
305424	Fbx15	0.050889	0.11283656	0.250609
100362805	Txndc5	0.05085	0.05807082	0.152252
295975	Eif3m	0.050845	0.06499149	0.165898
689364	Chmp1b	0.050844	0.14527457	0.300114
64001	Cyb5a	0.050828	0.06803819	0.171923
362980	Tubgcp6	0.050826	0.34411571	0.540688
303554	Nbr1	0.050825	0.00736989	0.028709
304091	I110rb	0.050788	0.34488993	0.541414
65151	Rida	0.050721	0.34518919	0.541794
315222	Arsa	0.050686	0.15313513	0.311089
287110	Tbc1d24	0.050666	0.43404258	0.628285
363452	Otud5	0.050645	0.05297052	0.141074
501005	Cplx3	0.050596	0.84439858	0.922426
680264	Catsperd	0.050588	0.7003183	0.835739
680354	Tceal9	0.050543	0.09909899	0.227007
171069	Usmg5	0.050535	0.08564847	0.204716
307075	Wdr37	0.050532	0.10116753	0.230609
60383	Rbck1	0.050494	0.11687884	0.257098
290645	Mpv1712	0.050434	0.5642725	0.735361
690344	Uqcc3	0.050431	0.46432801	0.654998
296178	Mcm8	0.050426	0.65224758	0.801423
60582	I11rn	0.050411	0.79741838	0.895714
292710	Ethe1	0.050379	0.40872919	0.604931
290831	Nsd3	0.050351	0.08478312	0.203362
116641	Lgals8	0.050306	0.00301397	0.013509
450235	Adgre4	0.050259	0.79687087	0.895258
307039	Rab18	0.050255	0.01571607	0.053872
311341	Pla2g4b	0.050248	0.41609934	0.612034
140674	Gabrg1	0.050226	0.05158466	0.138118
365355	Rras2	0.050194	0.39118119	0.588192
361685	Tnfrsf26	0.050182	0.77988333	0.885365
64554	Slc7a2	0.050149	0.34988603	0.546598
498420	Etaal1	0.050146	0.59943889	0.762766
100359595	Tbc1d32	0.050145	0.44332072	0.636202
308850	Klh135	0.050114	0.70390234	0.837393
301555	Cul3	0.050106	0.00984644	0.036605
691556	Zbtb42	0.050087	0.48871795	0.676279
317399	Ddx21	0.050083	0.14418845	0.298616
685814	Cnpy2	0.05008	0.25989486	0.44936
362394	Isyl1	0.050067	0.51605747	0.701471
103691872	LOC103691872	0.050064	0.17851957	0.34739
310178	Myo10	0.050049	0.13162659	0.280375
83788	9-Sep	0.050046	0.02225319	0.071265
689414	Slc25a42	0.050027	0.31106441	0.506344
170577	Mark3	0.049999	0.10199771	0.232112
294072	Slc35g1	0.049999	0.89235121	0.952038
316022	Trank1	0.049999	0.84822387	0.924431
266809	Sc1t1	0.049999	0.56586135	0.736424

299909	Fam49b	0.049999	0.08791513	0.208252
100912748	LOC100912748	0.049962	0.80558631	0.900586
362416	Rpusd3	0.04996	0.38348742	0.580197
362288	Rtel1	0.049952	0.12155722	0.264972
361775	Trub1	0.049947	0.45876944	0.650046
362178	Cstf3	0.049886	0.38670167	0.583854
310341	Fat4	0.049865	0.54185307	0.723573
287622	Tom111	0.049857	0.24381234	0.432025
291293	Fbh1	0.049835	0.04653155	0.12773
303135	8-Sep	0.049804	0.00116239	0.005886
362273	Cse11	0.049749	0.04425179	0.1228
108348139	LOC108348139	0.049672	0.90395375	0.95803
81718	Cdo1	0.049671	0.29202264	0.487515
306129	Fbx13	0.049641	0.08899461	0.210077
50678	Pde3a	0.049632	0.57132878	0.740503
100910506	LOC100910506	0.04962	0.11923108	0.260946
361176	Upf3a	0.049598	0.26276163	0.452714
684441	Pin4	0.049583	0.35034935	0.547053
310698	Dclk2	0.049572	0.03237588	0.095864
309165	Rela	0.049569	0.17771574	0.346321
361092	Stk24	0.049566	0.21591348	0.396956
25193	Ccnd3	0.049551	0.17141617	0.337848
64633	Rab5a	0.049544	0.69769061	0.834119
29635	Timm44	0.049526	0.23409303	0.420277
311334	Exd1	0.049485	0.64889067	0.801383
299899	Eif3h	0.049418	0.03891149	0.110723
287772	Psm12	0.04941	0.01945103	0.064002
307652	Fam192a	0.049342	0.23787953	0.424912
64624	Cul5	0.049326	0.13356407	0.283329
100912059	LOC100912059	0.049294	0.10455313	0.236248
501659	RGD1561481	0.049294	0.10455313	0.236248
287101	Pkmyt1	0.049294	0.62790091	0.785185
306619	Cln8	0.049254	0.38955044	0.586481
308009	Fam45a	0.04921	0.10821545	0.242352
299002	G2e3	0.04918	0.5338109	0.715794
100174909	Smim11	0.049168	0.65609816	0.802942
25323	Htr1d	0.049146	0.34251536	0.539242
365023	Ankrd11	0.049138	0.01345169	0.047302
291624	Lars	0.049134	0.01601073	0.054695
315608	Ube4a	0.049097	0.0041232	0.017607
289180	Gpr161	0.049069	0.04235893	0.11841
297066	Zfp212	0.049006	0.55284763	0.733012
84350	Dnmt1	0.048983	0.31316546	0.508113
298227	Mtap	0.048981	0.21658223	0.39784
306562	Tacc1	0.048978	3.79E-04	0.002209
365493	Cacul1	0.048946	0.03238721	0.095883
364049	Slamf7	0.048927	0.69376927	0.831048
293156	Lrrc51	0.048864	0.70494764	0.838113
170512	Ifi27	0.048824	0.00480144	0.020031
100362321	Smim19	0.048746	0.20968104	0.388083
314717	Scyl2	0.048739	0.10736334	0.240926
25027	Slc16a1	0.048735	0.02448517	0.076786
296399	Zfp93	0.048722	0.89155439	0.951561
362790	Inf2	0.048705	0.03348345	0.098364
309647	Brpf3	0.048685	0.45681748	0.6481
296911	ST7	0.048672	0.50404877	0.690719

79119	Arf2	0.04863	0.37560839	0.572323
363603	Cnot8	0.048574	0.12507058	0.27031
246237	Plekha5	0.048557	0.09033283	0.21221
108349819	LOC108349819	0.048497	0.89387758	0.953079
287479	Shpk	0.048497	0.37085208	0.567345
683512	Uqcc1	0.048478	0.10235397	0.232812
303547	Ezh1	0.048475	0.03053864	0.091376
291060	Snrnp48	0.048414	0.2367429	0.423637
100364990	Pdssl1	0.0484	0.6057359	0.768366
365627	Mblac2	0.048379	0.3932017	0.590485
313052	Epb41	0.048366	0.08064758	0.195835
25352	Sod3	0.048351	0.01018933	0.037593
113927	Csnk1a1	0.048342	0.07554124	0.186213
25017	Myo5a	0.048341	8.03E-04	0.004271
102554884	Rcor1	0.048311	0.23957646	0.426982
314198	Cdk11	0.048279	0.19472257	0.368894
363169	Tcaim	0.04825	0.22243414	0.40488
308911	Rrp8	0.048226	0.5945918	0.75893
303755	Fn3krp	0.048223	0.23699252	0.424004
362257	Ralgapb	0.048218	0.00912789	0.034363
309147	Aldh3b1	0.048211	0.61567013	0.775389
499644	LOC499644	0.048205	0.19743577	0.372183
81869	Gstm7	0.048186	0.06295598	0.162136
170920	Map4k3	0.048147	0.17724824	0.345728
289608	Gnpda2	0.048121	0.19290797	0.366587
316342	Lipt1	0.048117	0.76700477	0.877597
84014	Ralbp1	0.048112	0.01891359	0.062623
315713	Pml	0.048107	0.41887834	0.614508
300128	Celsr1	0.048107	0.22048523	0.402448
313200	Hsd12	0.048069	0.04006735	0.113419
289457	Klh18	0.048059	0.36763585	0.563829
361076	Dgkh	0.048047	2.98E-06	2.72E-05
293551	Arl6ip1	0.048038	8.01E-04	0.004262
289757	Polm	0.048017	0.60708093	0.769303
366064	B3galt1	0.048007	0.20788747	0.385889
290829	Ash21	0.047981	0.15108023	0.308065
29143	Grn	0.047979	0.07911813	0.192859
100910795	LOC100910795	0.047942	0.57370642	0.742473
25577	Ywhaq	0.04788	7.88E-06	6.59E-05
292548	Zfp418	0.047875	0.49659607	0.682864
499155	Fancf	0.04786	0.57380491	0.742248
25151	Igf2r	0.04783	0.10927755	0.244099
366954	Zfp251	0.047818	0.31706792	0.511699
311024	Kif5c	0.047784	1.29E-06	1.25E-05
293871	Carnmt1	0.047781	0.45363628	0.645076
287222	Timd2	0.047777	0.86327755	0.933147
66030	Synpr	0.047698	0.00151629	0.007424
362556	Ttc4	0.047693	0.17766767	0.346334
79244	Hsd17b4	0.047618	0.05765379	0.151284
498351	Srp72	0.047608	0.19076903	0.363829
311326	Rpusd2	0.047605	0.61057563	0.771934
313341	Pigo	0.047597	0.56436236	0.735327
29254	Mg11	0.047547	3.36E-04	0.001982
288666	Vps29	0.047493	0.06372372	0.163582
360985	Tmem17	0.047491	0.39766359	0.59484
102555330	LOC102555330	0.047477	0.90308562	0.95783

103694571	LOC103694571	0.047477	0.90308562	0.95783
362463	Fgfr1lop2	0.047472	0.0611209	0.158352
307498	Pura	0.047462	0.1801524	0.349354
291411	Atp9b	0.047432	0.03327303	0.097882
362353	Tcaf1	0.047414	0.07718329	0.189183
364834	Polr2d	0.047405	0.50097008	0.687539
29476	Glg1	0.047369	0.01266842	0.045055
498685	Prxl2c	0.047362	0.29828833	0.494938
305135	Lrrc8b	0.047304	0.02763688	0.084608
315916	Frmpd3	0.047295	0.31444648	0.508848
102551828	LOC102551828	0.047283	0.62185406	0.779774
29467	Ddit3	0.047256	0.364192	0.560805
315997	Rbm6	0.047203	0.26705892	0.458417
497929	Pirt	0.047194	4.48E-08	5.48E-07
309859	Scml4	0.047193	0.34802808	0.544903
290875	Cdc16	0.047174	0.241847	0.429702
297415	Fam136a	0.047173	0.59840179	0.761802
303067	Thg11	0.047168	0.58721035	0.75294
362490	Pip4p2	0.04716	0.13036222	0.278273
287437	Tnfsf13	0.047159	0.56604812	0.736466
83571	Cdkn1b	0.047154	0.03343419	0.098265
25697	Ctsl	0.047148	0.00423234	0.01798
102549842	LOC102549842	0.047146	0.46898078	0.659656
361788	Prr3	0.047127	0.27426736	0.466419
100302405	Zfp958	0.047092	0.22778439	0.412137
287113	Rnps1	0.047087	0.06901732	0.173821
681037	Preli2	0.047087	0.64857217	0.801093
116727	Gp1bb	0.047087	0.9790081	1
24882	Wnt3	0.047087	0.89533043	0.953881
291640	Slc25a2	0.047087	0.81974508	0.90921
304984	Cfap45	0.047087	0.89533043	0.953881
682147	Cgas	0.047087	0.89533043	0.953881
25319	Fth1	0.047073	7.35E-31	4.28E-29
366953	Tonsl	0.047066	0.63170084	0.788126
297911	Otud6b	0.047051	0.10960088	0.244621
288583	Plod3	0.047017	0.17313914	0.340363
308449	Hipk4	0.047002	0.59902446	0.762417
361473	Mtrf11	0.047002	0.59902446	0.762417
292305	Sft2d1	0.046992	0.32103231	0.516129
29414	Akt3	0.046973	0.1018129	0.23183
245974	Commd5	0.046967	0.54926326	0.729835
302999	Prr35	0.046936	0.69351314	0.830846
362726	Atxn711	0.046932	0.26070662	0.45015
29496	Erbb3	0.046907	0.01670919	0.056564
170904	Stk17b	0.046861	0.5775878	0.745268
171451	2-Mar	0.046832	0.31008356	0.505222
314310	Zfp410	0.046774	0.23629191	0.423188
317343	Med14	0.046717	0.13460093	0.284641
84009	Kalrn	0.04671	0.24403304	0.432296
81807	Elob	0.046706	0.03483994	0.101379
116725	Ube2n	0.046681	0.00994298	0.036891
116657	Cplx2	0.046646	0.06463073	0.165243
100910725	LOC100910725	0.046637	0.98190186	1
116654	Exoc4	0.046611	0.05539845	0.146435
296128	Stard7	0.046586	0.09646886	0.222589
295061	Tm4sf1	0.046576	0.42592699	0.621069

295050	Exosc8	0.046476	0.6443959	0.797901
312824	Recql	0.046442	0.19384629	0.367673
298101	Col27a1	0.046438	0.32800434	0.523669
498416	Grb10	0.046369	0.29969938	0.496285
311422	Itpa	0.046365	0.13344729	0.283176
366163	Aqr	0.046339	0.16511279	0.328793
171485	Cd9912	0.046294	0.00496543	0.020598
60562	Stx6	0.046223	0.13906121	0.291516
29699	Prkar2a	0.046221	0.03340083	0.098197
363266	Agfgl	0.046109	0.0326178	0.096401
315417	Jrkl	0.046108	0.56007	0.735572
299204	Nek9	0.046072	0.0427729	0.119409
300083	Slc25a17	0.046055	0.18007193	0.349304
312309	Zfp775	0.046045	0.38121683	0.578139
366376	Frrs11	0.046043	0.5323975	0.714704
108348148	Gstm3	0.045993	0.44463573	0.637609
289311	Mixl1	0.045992	0.87507015	0.941459
313242	Dcaf10	0.045977	0.39915088	0.596456
58927	Rpl36	0.045974	0.07158156	0.178719
307487	Pcdhb21	0.045971	0.831975	0.915523
681433	Rgmb	0.04595	0.00259949	0.011869
25113	Ddn	0.045947	0.4416363	0.63479
360980	Tns3	0.045936	0.0060596	0.024316
688749	Tulp3	0.045935	0.24601018	0.434384
363040	St3gal4	0.045878	0.23700625	0.423989
25390	Atp1b3	0.045851	2.70E-06	2.48E-05
297065	Zfp282	0.045833	0.42563598	0.620882
306764	Nsd1	0.045792	0.01648217	0.055924
362646	Fbxo42	0.045776	0.2081112	0.386153
362578	Svbp	0.045762	0.68143775	0.822172
303785	Rimbp3	0.045762	0.89671528	0.954688
311374	Duoxa1	0.045762	0.89671528	0.954688
289380	Nenf	0.045745	0.26100216	0.450579
100362548	Elp3	0.045738	0.1028141	0.233468
308751	Wdr73	0.045701	0.55217588	0.732427
108348233	LOC108348233	0.045662	0.79889346	0.896842
361970	Trim2	0.045599	6.50E-04	0.003545
64441	Hsf2	0.045588	0.15923592	0.320508
689399	Cenpw	0.04557	0.83673507	0.918691
681315	Tmem230	0.045563	0.08151833	0.197597
266802	Alk	0.04554	0.26200399	0.451756
307905	Usp10	0.04554	0.26200399	0.451756
499691	Prpf38b	0.045491	0.19772828	0.372513
315970	Cdv3	0.045476	0.03580492	0.103507
29439	Jtb	0.045466	0.33280388	0.528849
305940	Sacs	0.045457	0.00639061	0.025526
310631	Mex3a	0.045443	0.79580955	0.894593
337920	Naglt1	0.045436	0.61737546	0.776356
500750	Tmem196	0.045422	0.47861486	0.66788
304791	Dstyk	0.045417	0.12059688	0.263391
100911248	LOC100911248	0.045412	0.09074662	0.212972
24667	Ppm1b	0.045408	0.06149148	0.159139
288471	Trrap	0.045407	0.05183703	0.138598
25678	Ddr1	0.045357	0.07323946	0.181952
294203	Olr1749	0.045355	0.8986905	0.955803
103694540	LOC103694540	0.045338	0.98213994	1

292808	Pepd	0.045265	0.17555542	0.343553
303611	Tex2	0.045264	0.0411391	0.115696
363099	Rsl24d1	0.045232	0.21809551	0.399503
100360750	LOC100360750	0.045227	0.54915528	0.729742
682507	Wasl	0.045213	0.04462545	0.123693
108348064	LOC108348064	0.045212	0.41698555	0.612722
81825	Cirbp	0.045207	0.24830669	0.436658
84353	Ctnnb1	0.045205	3.93E-04	0.002277
306203	Pxk	0.045171	0.19037195	0.363363
140607	Pip4k2c	0.045169	0.30966463	0.504669
306103	Dis3	0.045165	0.45187511	0.643533
289500	Ccni	0.045152	0.00571	0.023152
303700	Usp36	0.045146	0.44538818	0.638064
100909776	LOC100909776	0.045129	0.85527913	0.928824
313210	Abca1	0.045129	0.04850429	0.131929
58964	Nme6	0.045129	0.71527993	0.844283
688839	LOC688839	0.045109	0.7406421	0.86067
294993	Hspa41	0.045039	0.01222655	0.043761
314336	Ddx41	0.044918	0.30510653	0.502096
312195	Nrf1	0.044885	0.44675534	0.639301
362294	Ube3c	0.044883	0.01137884	0.041207
246332	Uhmk1	0.044864	0.00140653	0.006961
84479	Synrg	0.044858	0.16419171	0.328022
287156	Rhot2	0.044844	0.23580954	0.422523
311881	Fbxw2	0.044842	0.14261483	0.296777
288616	Tmem248	0.044819	0.12290998	0.267125
307008	RGD1308147	0.044815	0.25931546	0.448684
300813	Rnf111	0.044807	0.25325662	0.441813
365314	Lipt2	0.044757	0.77390836	0.881841
311570	Myh7b	0.044745	0.51361414	0.699348
58967	Sfmbt1	0.044706	0.4286419	0.623929
314616	Arid3a	0.044694	0.49446723	0.681167
498272	Uap1	0.044641	0.35430539	0.551196
406868	G4	0.04461	0.59678262	0.760453
301373	Tgfbrap1	0.044581	0.30027794	0.496898
294594	Spata9	0.044564	0.37439511	0.571022
304193	Arhgef18	0.044543	0.25387788	0.442491
170912	Alcf	0.044514	0.89803714	0.955481
362759	Exd2	0.044514	0.28025084	0.473592
304572	Fbrs11	0.044444	0.33375161	0.529912
64622	Adnp	0.044438	0.07602221	0.187084
306734	Rmi1	0.044423	0.28074507	0.474216
500636	Rnf144a	0.044413	0.18341725	0.353812
56064	Nptn	0.044408	3.26E-04	0.001935
310005	Aggf1	0.044363	0.37540776	0.572292
100912537	LOC100912537	0.044328	0.6447132	0.798009
309486	Tctn3	0.044328	0.6447132	0.798009
361071	Sucla2	0.044311	0.01568339	0.053779
24708	Rb1	0.044281	0.17229613	0.339126
296312	Aar2	0.044279	0.44310638	0.635991
291927	Orc6	0.044272	0.6860719	0.825723
314981	Col14a1	0.044236	0.06220893	0.160538
681361	Pisd	0.0442	0.30557236	0.502558
293142	Spcs2	0.044165	0.08874073	0.209634
691899	Fbrs	0.044117	0.20192138	0.377834
117042	Rpl6	0.044113	0.00844028	0.032188

298732	Glis1	0.044113	0.82508312	0.911732
24655	Plcd1	0.044059	0.33143223	0.527682
310244	Zc2hcla	0.044039	0.02906412	0.087959
288182	Cldnd1	0.044034	0.11243358	0.24986
316275	Paqr8	0.044013	0.06533896	0.166539
122772	Rps20	0.043994	0.05431923	0.144082
25476	Lgals9	0.043987	0.44401249	0.636955
289827	Ugp2	0.043966	0.10276132	0.233431
363055	Cep164	0.043965	0.27967474	0.473206
498425	Zrsr1	0.04394	0.27000838	0.461401
57025	Adam15	0.043923	0.10721171	0.240812
685001	Cnpy1	0.043916	0.75511325	0.869686
295922	Mtch2	0.043907	0.03505664	0.101823
308870	Numa1	0.043899	0.03244605	0.096012
100909476	LOC100909476	0.04389	0.70222294	0.837173
84480	Bnip3	0.043816	4.98E-04	0.002795
361258	Cul2	0.043814	0.07875199	0.192163
289603	CommD8	0.043814	0.38830636	0.585488
293678	Mus81	0.043807	0.5086854	0.695222
363858	Trappc5	0.043793	0.22507931	0.408368
304401	Ssc4d	0.043787	0.65483773	0.803465
366619	Dtd2	0.043781	0.64662974	0.799679
192252	Dctpp1	0.043769	0.71915111	0.846492
361328	Snx24	0.043743	0.36404266	0.56062
293184	Ctr9	0.043738	0.08470075	0.203241
58923	Mefv	0.043721	0.70304859	0.837633
307362	Zfp532	0.04361	0.22593575	0.409648
310917	Gbp4	0.043589	0.74220233	0.860541
363412	Zfp609	0.043582	0.1718649	0.338557
171501	Rnf38	0.043568	0.2449364	0.433291
24437	H1f0	0.043563	0.09616101	0.222229
287280	Skp1	0.043561	5.85E-07	6.05E-06
363633	Polr2a	0.043527	0.0555132	0.146677
207123	RGD621098	0.0435	0.41132524	0.60698
246781	Ptpn7	0.043479	0.71998599	0.84682
498166	Gal3st4	0.043479	0.71998599	0.84682
684270	LOC684270	0.043479	0.61217954	0.773192
311183	Fnbp4	0.043475	0.25110667	0.439148
25592	Agrn	0.043471	0.07676588	0.188476
103690089	LOC103690089	0.043425	0.20078691	0.37634
81767	Rpl19	0.043405	0.00265848	0.012092
361403	Terf2	0.043366	0.48772852	0.675647
54321	Cnn3	0.043365	0.00334849	0.014752
170816	Olr59	0.043335	0.89930047	0.956131
315137	Apobec3	0.043335	0.85796769	0.930153
315164	Cenpm	0.043335	0.80019841	0.897619
304317	Amz1	0.043335	0.50310131	0.689817
362142	Bbs5	0.043335	0.59134531	0.75646
362608	Tmem39b	0.043335	0.61272877	0.773475
266611	Ptpn9	0.04333	0.08837704	0.209086
361037	Mrpl52	0.04329	0.22879072	0.413369
84476	Strbp	0.043284	0.04576184	0.126236
192348	Fnbp1	0.043271	0.06615344	0.16812
361791	Nrm	0.043237	0.6696513	0.813206
25271	Rxra	0.043215	0.58171242	0.748511
680971	Ddhd2	0.043198	0.08737408	0.207409

305339	Nsun7	0.043149	0.7065062	0.839389
298425	Efcab14	0.043147	0.1546675	0.3134
305351	Klh15	0.043145	0.30490673	0.501897
298748	Ndufaf7	0.043132	0.34470386	0.541345
361628	Eif4g2	0.043093	4.00E-11	7.21E-10
81918	Pard3	0.043087	0.34928224	0.546103
29441	Por	0.043063	0.13827201	0.290245
29288	Rps3a	0.043057	0.00360954	0.015731
84027	Gsk3b	0.042976	7.96E-04	0.00424
293735	Best1	0.042967	0.73877377	0.859338
313678	Prdm2	0.042957	0.07049353	0.176558
100361765	Hoxb2	0.042957	0.59285988	0.757837
83628	Cd82	0.04293	0.05932462	0.15473
286974	Chst15	0.042889	0.13396875	0.283966
361571	Aldh16a1	0.042878	0.51432313	0.700163
366608	Dock4	0.042866	0.35935229	0.556231
300077	Gtpbp1	0.042854	0.42592009	0.621106
298280	Slc35d1	0.042806	0.4766158	0.666115
303536	Dnajc7	0.042799	0.03797792	0.108569
498749	Tdp2	0.042796	0.4039857	0.600946
361272	Dhtkd1	0.042789	0.48893237	0.676429
103693953	LOC103693953	0.042782	0.75838363	0.872029
361661	Pstk	0.042741	0.58365072	0.750194
406162	Notch4	0.042734	0.49106592	0.678493
257645	Itgb5	0.042717	0.07373416	0.182895
24375	Fuca1	0.042704	0.23054841	0.415519
360637	Ccdc43	0.042624	0.41714466	0.612909
84474	Ddx1	0.042599	0.02707134	0.083144
103691005	LOC103691005	0.042583	0.42920251	0.623934
100910007	Zfp30	0.042533	0.82658499	0.912968
50993	Rab10	0.042511	0.00866365	0.032862
501160	Vwc21	0.042507	0.19452878	0.368674
312516	Gmcl1	0.042499	0.10304411	0.233879
301361	Lonrf2	0.042455	0.01673099	0.056557
94189	Gosr1	0.042437	0.23190981	0.417381
100312984	Eif2s3y	0.042429	0.09610862	0.222188
84351	Ikbkb	0.042395	0.40604907	0.602697
192246	Phf5a	0.042369	0.44624314	0.63876
114633	Plcel	0.042342	0.25987695	0.44937
294012	Borcs7	0.042334	0.10152942	0.231323
360823	Ankrd13a	0.042326	0.14586268	0.300807
309696	Bcr	0.042323	0.11337479	0.251423
295461	Sec24b	0.042322	0.14593945	0.300868
171525	Polk	0.042283	0.61144212	0.772773
287541	Ift20	0.04228	0.27863164	0.471692
498529	Amer2	0.042267	0.54002896	0.721896
366952	Cpsf1	0.042235	0.25463835	0.443371
361170	Adam32	0.042222	0.90050934	0.957042
296060	Arhgap11a	0.042222	0.70761985	0.839246
680409	Prodh1	0.042208	0.26058126	0.450015
288774	Stat2	0.042194	0.17275181	0.339742
307133	Hspa14	0.042189	0.47280703	0.663176
293528	Nsmce4a	0.042186	0.49366963	0.680757
317275	Rpl1711	0.042184	0.16981756	0.335287
302415	Foxo4	0.042182	0.37202557	0.568455
362749	Atp5s	0.042177	0.54043242	0.722233

304763	R3hdm1	0.042162	0.19209597	0.365591
362203	Tubgcp4	0.04216	0.3630644	0.559521
66013	Arhgef9	0.042156	0.2235436	0.406317
301014	Atrip	0.042137	0.59986999	0.763059
297755	Rpl7	0.042123	0.00865869	0.03285
362950	Rbfox2	0.042118	0.19121734	0.364465
313618	Macol	0.04211	0.17866958	0.347469
309041	Thumpd1	0.042046	0.24472795	0.433043
56820	Ramp3	0.042006	0.49452672	0.681199
314407	LOC314407	0.041997	0.57260157	0.741699
362551	Raver2	0.041974	0.61590701	0.77538
309912	Rtn4ip1	0.041968	0.46726264	0.658211
315409	Cep126	0.041947	0.41374926	0.609613
363247	Xrcc5	0.041931	0.25058598	0.43856
315591	Tbcel	0.041928	0.21500759	0.395558
361465	Echdc1	0.041911	0.40328003	0.600271
682920	Phactr4	0.041864	0.51760146	0.702467
100310874	Parpbp	0.041859	0.88328778	0.946451
307494	Wdr55	0.04184	0.62093214	0.778823
64020	Gpr85	0.041832	0.55931407	0.735137
362375	Lanc12	0.04181	0.16409657	0.3279
81764	Rpl10	0.041789	0.00347191	0.015236
362934	Ly6e	0.041787	0.10999274	0.245323
102552823	LOC102552823	0.041786	0.76210701	0.874462
308652	Smox	0.041763	0.29802177	0.494668
100911462	Txn14a	0.041753	0.36432869	0.560517
361414	Vat11	0.04174	3.52E-05	2.59E-04
299314	Cfp	0.041728	0.65393811	0.802775
361848	Ddx50	0.041696	0.32386799	0.519285
365691	Egflam	0.041692	0.27416457	0.466285
286998	Zfand4	0.041687	0.66682055	0.810699
317252	Ercc61	0.041687	0.86048497	0.931874
103694910	LOC103694910	0.041684	0.29498796	0.49126
366964	Tcf20	0.041675	0.19299959	0.366688
65248	Prkaa1	0.041666	0.06594211	0.167673
289456	Hsd17b11	0.041665	0.09015344	0.21192
361323	Commd10	0.041636	0.34008764	0.536662
170820	Prdm4	0.04163	0.19269493	0.366292
688288	Eif4a3	0.041552	0.22163822	0.403933
363074	RGD1309779	0.041549	0.58858693	0.754147
266716	Zscan12	0.041513	0.6309495	0.787963
301128	Kdm4b	0.041471	0.19552488	0.369936
501926	Zmat5	0.041452	0.61504494	0.775115
499563	Zfp458	0.041431	0.78449049	0.88779
502320	Faap24	0.041357	0.76108736	0.873714
308384	Sae1	0.041354	0.11064223	0.24654
689755	Ccdc167	0.041339	0.76171125	0.874061
360763	Usp12	0.041325	0.35681769	0.553883
298943	Bcap29	0.041313	0.2538627	0.442506
296603	Vav2	0.041295	0.17347959	0.340645
100911260	LOC100911260	0.04128	0.22063498	0.402644
294018	Taf5	0.041261	0.68164451	0.822369
298744	Crim1	0.041214	0.44204795	0.63495
315879	Adamts7	0.041209	0.53653131	0.718734
100910875	LOC100910875	0.04117	0.53121951	0.713425
295378	Vav3	0.041167	0.48458968	0.672816

287631	Wfikkn2	0.041167	0.83054385	0.915324
308064	Cep72	0.041167	0.90166741	0.957739
303200	Map2k3	0.041166	0.52869409	0.711538
102546648	LOC102546648	0.041158	0.66455451	0.809184
313997	Mboat2	0.041141	0.07134871	0.178278
65028	Dnaj1	0.041128	0.00134216	0.006672
301887	Cdh12	0.041097	0.62218911	0.779989
94266	Rps27	0.041073	0.09096819	0.213361
50690	Slc6a8	0.041058	0.06860701	0.172994
365215	Smg9	0.041043	0.42950869	0.624141
252900	Dgat2	0.040968	0.42989799	0.624421
291850	Tepp	0.040964	0.61581533	0.775316
290912	Arglu1	0.040936	0.22485265	0.408073
108351885	LOC108351885	0.040931	0.39270833	0.58993
29278	Laspl	0.040926	0.02884264	0.087372
114205	Crcp	0.040926	0.44750992	0.639612
64367	Ppib	0.040906	0.13672148	0.287688
684189	Trim68	0.040862	0.69700465	0.833561
246766	Ggtal	0.040834	0.18492143	0.356028
295455	Slc39a8	0.040829	0.42989821	0.624374
100909512	LOC100909512	0.040804	0.58649446	0.752428
361769	Sufu	0.040783	0.45428242	0.645513
291694	Fam13b	0.040735	0.01445924	0.050233
501349	LOC501349	0.04072	0.7139703	0.843155
24412	Grin2d	0.040694	0.75698862	0.871056
25283	Gclc	0.040661	0.25459501	0.443376
246303	Serbpl	0.040651	0.05163489	0.138174
306322	Entr1	0.040649	0.12759887	0.274156
362434	Lpcat3	0.040636	0.28233178	0.475884
298552	Tmem50a	0.040575	0.05883086	0.153821
306471	Snx25	0.040533	0.30473898	0.501664
24818	Tcp1	0.04052	0.01602823	0.054745
363485	Pbdc1	0.040519	0.46198737	0.65276
295625	Pkp4	0.040518	0.25262763	0.44116
499966	Xrcc2	0.04047	0.65851587	0.804505
301574	Cab39	0.040459	0.00246531	0.011327
307833	Ist1	0.040424	0.11081504	0.246839
313245	Polr1e	0.040374	0.59353514	0.758344
314168	RGD1307621	0.040364	0.69864199	0.834785
25246	Bsg	0.040352	5.08E-05	3.61E-04
64530	Cnbp	0.040342	0.0085095	0.0324
316348	Pdc13	0.040336	0.32751375	0.523192
303164	Zfp692	0.040324	0.49655601	0.682859
294449	Hs3st5	0.040322	0.45063965	0.642494
289152	Ankrd45	0.040297	0.69786149	0.834166
361310	Pfdn1	0.040243	0.12674299	0.272686
690450	Taf1b	0.040238	0.64736699	0.800331
305827	Wdhd1	0.040229	0.62487222	0.782683
296207	Smim26	0.040206	0.53319705	0.715223
294232	Dhx16	0.040168	0.43977692	0.633121
304495	Kdm2b	0.040168	0.54135335	0.723007
108348147	LOC108348147	0.040156	0.51137115	0.697291
311631	Zswim1	0.040151	0.53448108	0.716441
361255	Tbce	0.04015	0.17195147	0.338657
310512	Nmd3	0.040144	0.43424204	0.62843
311502	Kiz	0.040134	0.51081912	0.696738

25231	Onecut1	0.040131	0.32696557	0.522536
252893	Dnah7	0.040115	0.86191654	0.93247
65158	Rab2a	0.040099	0.00683225	0.026968
298098	Pole3	0.040093	0.21520094	0.395799
308977	I121r	0.040087	0.82351032	0.911105
690285	Tmem223	0.040072	0.30387559	0.500936
690976	Cnn2	0.040039	0.63664848	0.791499
296147	Chchd5	0.039981	0.49736044	0.683669
79114	Fgfr1	0.039968	0.00972194	0.036198
500863	Rspo2	0.039957	0.22323476	0.406104
288779	Rab5b	0.039952	0.00100825	0.005212
79256	Hnrnpd	0.039911	0.23767365	0.424784
289270	Pld5	0.039866	0.62632438	0.783883
299104	Fkbp3	0.039866	0.01149192	0.041514
298699	Ppan	0.039855	0.45909295	0.650359
364670	RGD1559908	0.039847	0.68527308	0.825126
307081	Pitrm1	0.039839	0.10064362	0.229634
114104	Asah2	0.039825	0.26921987	0.460715
65026	Rwdd3	0.039688	0.70088072	0.836148
79237	Hhex	0.039688	0.80804729	0.902278
361182	Pcid2	0.039674	0.36629609	0.562408
619577	Rnf14	0.03967	0.0016523	0.007993
296709	Rpl35	0.039661	0.02676978	0.082337
84394	Dcx	0.039616	0.61317056	0.773879
311450	Pak7	0.039569	0.73152089	0.854136
362013	Ahcy11	0.039556	0.03027931	0.090771
89815	Syng2	0.039544	0.56084453	0.735778
312907	Slco5a1	0.039541	0.20243552	0.378461
25448	Cenpi	0.03953	0.76646706	0.877404
367902	Armcx3	0.039519	0.0413882	0.116157
311209	Tp53i11	0.039512	0.37879933	0.575849
140655	Rps16	0.039447	0.00262351	0.011959
286910	Smim3	0.039441	0.432471	0.626867
294603	RGD1560883	0.039434	0.66234451	0.807267
170955	Zfp483	0.039426	0.71637783	0.844689
300032	Zc3h3	0.039418	0.52168163	0.706092
299828	Atp23	0.039405	0.70182163	0.836956
360632	Retreg3	0.03933	0.43307228	0.6275
308478	Spred3	0.039282	0.42258355	0.617992
81776	Rps24	0.039282	0.02156656	0.069545
313564	Zmpste24	0.039279	0.15405584	0.312593
83611	Apba3	0.039254	0.44976068	0.641337
84482	Foxo1	0.039253	0.53001182	0.712506
499903	Napb	0.039236	0.00120143	0.006058
266780	Rimbp2	0.039228	0.39764642	0.594861
306197	Tm9sf2	0.039222	0.04138155	0.116155
305910	Pspc1	0.039219	0.39297035	0.59023
171106	I11r12	0.039219	0.90384423	0.958127
362732	Agmo	0.039187	0.51548324	0.700991
289338	Disp1	0.039172	0.35370175	0.550662
304569	Ep400	0.039161	0.18636977	0.358092
500034	Bmt2	0.039135	0.68895458	0.827571
312703	Pex5	0.039133	0.33795198	0.534665
361466	Tppp	0.039129	0.15285621	0.310721
108351137	LOC108351137	0.039099	0.81870788	0.90896
691976	Slc35g3	0.039099	0.90788318	0.960965

315524	Tmem45b	0.039082	0.28652479	0.480781
295549	Dna.jb4	0.039038	0.12802837	0.2748
294693	Gtf2h2	0.039015	0.60913886	0.770834
294565	Fam13c	0.038996	0.39755156	0.594813
364601	Micu3	0.038993	0.09941966	0.227578
29274	Rnf4	0.038927	0.10151683	0.231322
100359574	LOC100359574	0.038911	0.52655357	0.710314
288479	Pms2	0.038905	0.47643355	0.665958
305367	Arap2	0.038882	0.32107818	0.516159
259218	Rwdd1	0.038876	0.32563796	0.521333
56816	Prkn	0.038853	0.70367119	0.83717
315134	Josd1	0.03884	0.35970532	0.556642
315158	Zc3h7b	0.03884	0.02988343	0.089867
312563	Prickle2	0.038825	0.33232147	0.528391
296461	Osbpl2	0.038794	0.23169659	0.417115
361029	Ktn1	0.038779	0.02852948	0.086699
310062	Zswim6	0.038764	0.27368126	0.465713
304654	RGD1306072	0.038745	0.64241443	0.796328
314600	Zfp955a	0.038735	0.40045509	0.597467
78963	Apaf1	0.038714	0.53986545	0.72188
307483	Diaph1	0.038686	0.38214807	0.578952
89819	Bud31	0.038677	0.30334617	0.50054
362398	Plxna1	0.038659	0.14429366	0.298639
361256	Svil	0.038645	0.25249973	0.440977
290668	Mau2	0.038636	0.20094897	0.376532
295930	RGD1309540	0.038635	0.15416326	0.312777
305420	Anapc4	0.038625	0.17641449	0.344702
304978	Copa	0.038624	0.04357887	0.121304
295211	S100a5	0.038613	0.835432	0.918213
266759	Hspa4	0.038611	0.00838357	0.032003
100912008	LOC100912008	0.03858	0.73469025	0.856996
303113	Jade2	0.038573	0.35713627	0.554242
681913	Gstz1	0.03856	0.49949079	0.685953
361363	Ccdc102a	0.038539	0.55716531	0.736276
171126	Ap3m1	0.038518	0.15484382	0.313723
502227	Gtf2h5	0.038503	0.29636941	0.492914
81785	Ssrp1	0.038482	0.14245701	0.296513
619346	Surf4	0.038476	0.07115399	0.177862
24539	Lp1	0.038473	0.48505744	0.673171
309550	L3mbt13	0.03845	0.59241805	0.757476
102552166	LOC102552166	0.038445	0.76384367	0.875558
364630	Thsd1	0.038441	0.66775759	0.811424
315210	Brd1	0.038441	0.33828823	0.534975
362425	Zfp637	0.038437	0.30320232	0.500476
161452	Lef1	0.038435	0.71556188	0.844197
84471	Snx1	0.0384	0.24112339	0.428776
310784	Taf13	0.038383	0.2817084	0.475338
303553	Rnd2	0.03838	0.4382624	0.632039
312320	Igf2bp3	0.038317	0.90486879	0.95852
313234	Tbc1d2	0.038317	0.76971573	0.879062
689526	LOC689526	0.038317	0.97867991	1
502503	Serf1	0.038296	0.28221304	0.475726
293415	Tmem9b	0.038293	0.14881702	0.304984
302526	Atp6ap2	0.038292	0.11396744	0.252356
291075	Eci2	0.038285	0.38345735	0.580197
312654	Tmcc1	0.03827	0.37139637	0.567995

304010	Zbtb11	0.038261	0.32454059	0.520057
293047	Kif7	0.038259	0.6436888	0.797285
297728	Ergic2	0.038209	0.26014941	0.449596
102547414	LOC102547414	0.038171	0.96703473	0.99963
373541	Taf9	0.038144	0.20930242	0.387495
292810	Gpatch1	0.03812	0.50679297	0.693431
84484	Slc4a4	0.038114	0.05314949	0.141452
311224	Ttc17	0.03811	0.24033395	0.427852
25595	Map2	0.038106	9.64E-04	0.005016
500390	RGD1564053	0.038101	0.2499395	0.438395
362409	Sumf1	0.038088	0.27467769	0.4667
683626	Lbh	0.038088	0.10688564	0.240165
66031	Wdr7	0.038079	0.03412437	0.099877
289504	Sdad1	0.038068	0.65571938	0.802685
140943	Ppp4r1	0.038056	0.29581877	0.492213
287063	Nmrall	0.038053	0.67845345	0.820234
246150	Akap9	0.038021	0.14877132	0.304956
60443	Epn2	0.038017	0.07469356	0.184625
690217	Pcnx4	0.037985	0.34475227	0.541331
312690	Phc1	0.037971	0.47554452	0.66579
360937	Tbc1d1	0.03796	0.37319628	0.569741
25260	Gstt1	0.037931	0.72119352	0.847377
308993	Sephs2	0.037883	0.42005292	0.615472
306260	Capn7	0.037837	0.24931072	0.437736
362058	Migal	0.037778	0.08604908	0.205287
64188	Mafg	0.037754	0.06424701	0.164482
100912076	LOC100912076	0.037723	0.72261155	0.848363
309804	Cdk19	0.037654	0.24786763	0.436571
310326	Arse	0.037636	0.60539984	0.768144
79113	Fgr	0.037627	0.79100458	0.891982
29192	Psen1	0.037613	0.12913402	0.276332
361684	Nap114	0.037543	0.07317861	0.181872
308490	Ddx18	0.03754	0.50979292	0.696111
309673	Rrp1b	0.03754	0.50979292	0.696111
361042	Pck2	0.037536	0.38433125	0.580966
361014	Ngly1	0.037534	0.26407325	0.454275
29222	Ptma	0.037529	0.00851698	0.032422
100362458	Gigyf2	0.037462	0.27148374	0.463132
311926	Lrp1b	0.037459	0.66979623	0.813278
305240	G3bp2	0.037453	0.00534721	0.021986
362958	Mical11	0.037443	0.16119243	0.323285
360593	Ppm1e	0.037405	0.5104971	0.696548
297893	Hdac1	0.037383	0.34192118	0.538573
363760	Arl6	0.03737	0.41797665	0.613847
314288	Pcnx1	0.037362	0.03428949	0.10016
81805	Suox	0.037336	0.49152767	0.678885
305895	Dcaf11	0.037329	0.14281286	0.297091
306165	Gpr180	0.037327	0.24310307	0.43121
316455	Plekhm3	0.037321	0.0473849	0.129624
29184	Cd36	0.037315	0.58725036	0.752941
24800	Sts	0.037297	0.5110577	0.697013
117273	Rhoa	0.037295	9.62E-04	0.005007
681908	Samd15	0.037274	0.81229268	0.905108
362593	Gn12	0.037242	0.27690031	0.469471
360994	Chac2	0.037226	0.55542409	0.734791
686506	Lyrn7	0.037213	0.33725751	0.534054

114632	Aimp1	0.037196	0.29472452	0.490907
292763	Map4k1	0.037182	0.77280324	0.881161
299864	Ebag9	0.037182	0.38641211	0.583463
313840	Rmdn2	0.037182	0.61703121	0.776282
362522	Zfp462	0.037178	0.31850892	0.513328
282547	Mrgprx1	0.037154	0.40801576	0.604815
302863	Slc9a6	0.037121	0.05518707	0.145977
100360054	Vstml	0.037108	0.95212006	0.989044
309646	Slc26a8	0.037101	0.61699436	0.776338
24392	Gja1	0.037087	0.35057025	0.547218
303828	Etv5	0.037035	0.18836795	0.36084
299199	Ylpm1	0.037018	0.22807356	0.412503
314992	RGD1310852	0.037008	0.6964835	0.833199
305177	Enoph1	0.037002	0.24919814	0.4377
367146	Gk5	0.036999	0.8053756	0.900615
117104	Ppp2r2a	0.036964	0.11783152	0.258776
291450	Aldh7a1	0.036963	0.36254839	0.558997
300253	Eif4b	0.036963	0.04865556	0.132302
315170	Poldip3	0.036955	0.23984647	0.427224
303304	Sgsm2	0.036947	0.2962184	0.492749
29313	Clec11a	0.036943	0.73959816	0.85993
308381	Zswim9	0.036923	0.59929379	0.762683
25507	Pcsk6	0.036884	0.44127321	0.634507
58814	Tmod2	0.036858	0.04099258	0.115352
361549	Lgi4	0.036853	0.00686647	0.027086
298439	Ipp	0.036817	0.47756687	0.666906
170546	Ryr3	0.036801	0.45813025	0.649382
296050	Emc7	0.036765	0.16232089	0.325103
292686	Fbxo46	0.036764	0.67246706	0.815585
315988	Rbm15b	0.036762	0.50059118	0.687217
117021	Nup155	0.036751	0.37193919	0.568415
245903	Magi3	0.036735	0.10538132	0.23757
362137	Wdsub1	0.036731	0.56583991	0.736446
311118	Tlk1	0.036712	0.12445428	0.269436
100359829	Smpd5	0.036687	0.56800415	0.737851
293103	Hikeshi	0.036682	0.46447389	0.655155
294230	Mrps18b	0.036679	0.35253036	0.549512
679958	Slc9b2	0.036641	0.83931094	0.91977
170928	Necab2	0.036641	0.69780485	0.834151
305679	Vcl	0.036624	0.07094242	0.177542
498798	Stam	0.036619	0.15871558	0.319697
301121	Rfx2	0.036574	0.80595706	0.900631
689443	Tbc1d22a	0.036561	0.52178683	0.706185
360842	Plekha6	0.036553	0.02074092	0.067443
296126	Snrnp200	0.036505	0.08955054	0.210971
690182	LOC690182	0.036496	0.83063514	0.915107
115768	Zfp37	0.036482	0.71012597	0.840701
360915	Cops4	0.036465	0.10734274	0.240964
252960	Mrgprx3	0.036453	0.47153667	0.661931
312372	Kbtbd2	0.036445	0.17639872	0.344707
100909595	LOC100909595	0.036408	0.2300444	0.414886
25604	Pcmt1	0.036407	0.01336984	0.047058
360634	Plekhh3	0.036407	0.49609642	0.682473
362789	Zfyve21	0.036376	0.48386195	0.672295
103694552	LOC103694552	0.036375	0.83113845	0.915396
83523	Impa1	0.03633	0.23888184	0.426063

317405	Gprasp2	0.036314	0.19717852	0.371845
362884	Tmbim4	0.036311	0.36647824	0.562506
29276	Csrp1	0.036308	0.01713466	0.057778
293721	Ganab	0.036305	0.06527145	0.166412
312490	Paip2b	0.0363	0.18930502	0.362088
288042	Fbxo45	0.036289	0.24030501	0.42784
140934	Elp1	0.036263	0.27676416	0.469282
113894	Sqstm1	0.036254	3.38E-04	0.001994
117258	Cntn1	0.036249	9.83E-05	6.54E-04
361467	Lpcat1	0.036208	0.40568293	0.602341
361626	Tmem41b	0.036178	0.14094216	0.294164
309441	Twnk	0.036176	0.4275414	0.622755
290802	Ubxn8	0.036163	0.47969857	0.668217
502421	Slc35f1	0.036151	0.18977555	0.36277
246324	Rab31	0.03615	0.24227686	0.430345
64627	Hist1h4b	0.036116	0.46273973	0.653387
362905	Emc2	0.036114	0.17500897	0.342694
691984	Gpc6	0.036103	0.47350002	0.663855
294963	Mrpl47	0.036089	0.49319092	0.680442
289323	Nv1	0.036072	0.65629329	0.802975
500007	LOC500007	0.036061	0.90610938	0.95962
680944	Rbmx11	0.036037	0.75051209	0.866588
64154	Gosr2	0.036021	0.1870567	0.359086
363675	Stard3	0.035949	0.33504304	0.531608
361201	RGD1311345	0.035922	0.34888269	0.545792
685398	Ppplr26	0.035886	0.54585246	0.726722
81716	Ggcx	0.035879	0.46336199	0.65378
313139	Slc35a1	0.035859	0.54400167	0.725272
305178	Hnrnpd1	0.035856	0.11487163	0.253797
446170	Dear	0.035829	0.92113726	0.96998
683206	Tnfaip3	0.035806	0.66470413	0.809211
287643	Spop	0.03577	0.11329614	0.251278
296158	Pced1a	0.035752	0.49344679	0.680548
683504	Zfp639	0.035734	0.57073749	0.739989
29673	Psm6	0.035706	0.09284372	0.216692
29240	Polb	0.035703	0.53329116	0.715249
315272	Ano6	0.035679	0.18728176	0.359301
299209	Ift43	0.035654	0.70139284	0.836602
365022	Rnf166	0.035648	0.56325016	0.734481
170821	Atxn10	0.035613	0.02877451	0.087207
81830	Rab11a	0.035602	0.0224951	0.071762
100912096	Zfp113	0.035577	0.7439133	0.861633
303608	Ftsj3	0.035561	0.44891498	0.640706
24547	Mbp	0.035545	1.58E-15	4.37E-14
25023	Prkcb	0.035539	0.14078419	0.293995
361223	Fgd3	0.035483	0.77750807	0.883933
29304	Rps6	0.035462	0.00996375	0.03694
60466	Stx7	0.035459	0.03116886	0.092941
366532	Dhx57	0.035457	0.15106829	0.308073
360904	Idua	0.035454	0.24988269	0.438377
307774	Otud4	0.035426	0.28787728	0.48254
27256	Cntn6	0.035409	0.71552717	0.844261
24161	Acpl	0.035372	0.09194582	0.215203
297530	Washc2c	0.035365	0.04638676	0.127572
29595	Htr2a	0.035298	0.81796578	0.908559
315133	Ddx17	0.035286	0.1062933	0.239201

29149	Strn	0.035276	0.14014621	0.292984
500323	Parp11	0.035273	0.65028344	0.80253
29521	Scamp1	0.035273	0.04776347	0.130267
689488	LOC689488	0.035252	0.96330638	0.997454
291948	Pgrmc1	0.035243	0.07926429	0.193091
192251	Gpr149	0.035241	0.34550838	0.542027
297592	Spsb2	0.035216	0.60520182	0.768046
363707	Srp68	0.035206	0.25610165	0.445064
85382	Ngb	0.035206	0.74509774	0.86269
316064	Oxsr1	0.035174	0.16075598	0.322919
361303	Lims2	0.035172	0.21790206	0.399302
100912165	LOC100912165	0.035171	0.79567324	0.894492
500261	Magi1	0.035156	0.12643597	0.272241
114089	Inpp5e	0.035155	0.49068981	0.678072
301352	Mrpl30	0.035153	0.82630201	0.912814
365380	Jakmip3	0.03514	0.53627129	0.718487
300724	Fbxo22	0.034967	0.39976639	0.596767
296865	Las11	0.034959	0.3872362	0.584429
296259	Acss1	0.034938	0.49750612	0.68377
64553	Akap6	0.034907	0.00264722	0.012053
362642	Pqlc2	0.034878	0.44191545	0.634856
314949	Rad21	0.034877	0.10465091	0.236286
366962	Grap2	0.034874	0.84286951	0.921866
25565	Tle4	0.034816	0.31504962	0.509608
84420	Adcy7	0.034814	0.4139312	0.609786
100910231	Zfp82	0.034814	0.53094487	0.713156
295448	Ints12	0.034775	0.61667866	0.776095
500105	Cntnap2	0.034775	0.05491815	0.145408
25309	Cycs	0.034758	0.04565345	0.125974
688999	Hoxd9	0.034744	0.51161926	0.697579
25725	Prkar1a	0.034714	7.17E-04	0.003867
378774	Pigw	0.034695	0.69245964	0.830315
360577	Nxn	0.034652	0.27899432	0.472222
360498	Jmjd8	0.034598	0.38716989	0.584376
288058	Hacd2	0.034597	0.48534799	0.673476
24242	Calml	0.034516	9.45E-10	1.47E-08
103694861	LOC103694861	0.034463	0.82169701	0.90968
363255	Ankzf1	0.034444	0.46130228	0.65247
363164	Wdr48	0.034442	0.24583728	0.434199
310633	Ubqln4	0.034424	0.26005518	0.449555
295647	Gca	0.034423	0.46774728	0.65865
280670	Lzts3	0.034372	0.44065942	0.633864
309391	Cox15	0.034365	0.33700006	0.53378
687358	Tvp23b	0.03435	0.47224883	0.662686
83614	Pias3	0.03434	0.44586177	0.638454
361044	Sdr39u1	0.034311	0.48376679	0.672212
288661	Zcchc8	0.034282	0.54086558	0.722609
292622	Bicra	0.034275	0.42673141	0.621813
500909	Ccdc134	0.034275	0.70943505	0.840248
303158	Larpl	0.034233	0.01185399	0.042596
296081	Ccdc32	0.034229	0.2473195	0.436009
300786	Clpx	0.034206	0.44166764	0.634739
364190	Ras110a	0.034172	0.78121628	0.886191
297336	Usp39	0.034167	0.47438353	0.664653
102553760	LOC102553760	0.034166	0.80362821	0.899824
681367	LOC681367	0.034164	0.7665098	0.877347

308060	Ccdc127	0.03416	0.39204717	0.589215
685233	Gpatch8	0.034156	0.23719015	0.424198
499108	Sertad3	0.034143	0.74853057	0.865244
500575	Szrd1	0.034069	0.28007079	0.473624
365875	Bolal	0.034058	0.69492772	0.831913
681665	Ints61	0.034045	0.55641948	0.735546
305571	B3gnt2	0.034044	0.25295174	0.441524
299258	Golga5	0.03402	0.44781126	0.63985
297867	Aridla	0.034007	0.15624387	0.315989
311553	Asxl1	0.033997	0.33378776	0.529881
305922	Lats2	0.033991	0.17465723	0.342252
499095	Zfp94	0.033987	0.70794781	0.839531
140544	Pcyt1a	0.033981	0.1631958	0.326443
501569	Tmem47	0.033975	0.0841328	0.202261
364754	Fzd8	0.033966	0.46904909	0.659606
64666	Taok2	0.033958	0.09352338	0.217745
24479	Idh1	0.033939	0.05219129	0.13933
361213	Sptlc1	0.033917	0.36228041	0.558675
303396	Appbp2	0.033915	0.20134235	0.377047
432358	Elavl4	0.033903	0.02247155	0.071759
298851	Slc35f6	0.03384	0.39826037	0.595499
311391	Cep152	0.033832	0.7821877	0.886818
361631	Cyp2r1	0.03382	0.82209512	0.909856
300807	Rora	0.033818	0.69298921	0.830427
368088	Dgkd	0.033807	0.32212253	0.517357
313934	Itsn2	0.033801	0.14725568	0.302795
289874	Erlecl	0.033799	0.1480195	0.303546
83582	Polr1b	0.033752	0.6053855	0.768177
305482	Mtmr3	0.03375	0.23488475	0.421262
298859	Dnajc27	0.033725	0.20224866	0.378335
25387	Arrb1	0.033708	0.03743446	0.107273
362668	Zbtb48	0.033646	0.73554765	0.857209
288993	Slc35f5	0.033631	0.41696268	0.612736
300797	Ciao2a	0.033628	0.67386293	0.816654
103689966	LOC103689966	0.033564	0.76915955	0.878637
293774	Dtx4	0.033551	0.22991707	0.414735
362587	Macf1	0.033536	0.06132534	0.158752
56725	Cript	0.033506	0.25640907	0.445436
361612	P4ha3	0.033496	0.71723249	0.845383
171152	Taf9b	0.033479	0.40837633	0.605208
171147	Slc2a13	0.033457	0.48306518	0.671727
102551140	LOC102551140	0.033435	0.54368119	0.725099
685465	Polr3g	0.033417	0.0996181	0.22795
171128	Gchfr	0.03339	0.78345774	0.887624
293922	Aff2	0.033351	0.47929994	0.667857
303493	Snx11	0.033292	0.3738276	0.570339
60391	Nrxn1	0.033288	0.18030526	0.349543
363220	Aff3	0.033224	0.33053048	0.526818
192269	Sub1	0.033203	0.06900055	0.173825
365085	LOC365085	0.033195	0.52649253	0.710282
501706	Mis12	0.03316	0.32360773	0.518955
25216	Sdc1	0.033159	0.76731032	0.877736
363275	Eif4e2	0.033147	0.52702408	0.710647
498233	Lgr6	0.033131	0.72369226	0.849003
54269	Mcpt10	0.033106	0.8393632	0.919774
362987	Rab12	0.033089	0.54737847	0.728346

309300	RGD1565057	0.033067	0.91106397	0.963207
364835	Sft2d3	0.033067	0.73755666	0.858132
498515	Cdh24	0.033014	0.69901824	0.834973
314855	Cpm	0.033011	0.43384198	0.628233
682457	Txlna	0.032992	0.25976327	0.449295
679641	Cfap57	0.032976	0.7678786	0.877753
309809	RGD1310495	0.032975	0.8957384	0.954048
499882	Eid1	0.032881	0.08304954	0.200212
116551	Pdk1	0.032874	0.51504621	0.700547
680991	Tubg2	0.032856	0.48829647	0.675942
246302	Pcyox1	0.032843	0.16838596	0.333013
305935	Mtmr6	0.032841	0.01331473	0.046924
362702	Lclat1	0.032836	0.52242526	0.706697
259243	Kcnip4	0.032818	0.24085447	0.428458
688968	Ecd	0.032783	0.54907155	0.729682
691171	Ulk3	0.032778	0.70258342	0.837393
314312	Entpd5	0.032761	0.3966231	0.593937
361570	Prrg2	0.032751	0.8750299	0.941469
500538	Ybx1	0.03272	0.0495629	0.134214
685405	Fam53c	0.032688	0.33590823	0.532449
308106	Map3k4	0.032679	0.40158699	0.598453
140665	Rab3d	0.03265	0.20366755	0.380205
690262	Yaf2	0.032635	0.24854212	0.436749
500692	Heatr4	0.032575	0.87626336	0.942424
683630	Mat2b	0.032569	0.36387464	0.560407
117556	Sv2b	0.032535	0.03615466	0.104297
63839	Fhl2	0.032529	0.67827336	0.82012
541589	Kyat3	0.032477	0.64782964	0.800384
304529	Vsig10	0.032469	0.60336328	0.766735
292027	Cfdp1	0.032465	0.33105544	0.52717
691380	Psrc1	0.032441	0.91183155	0.963644
83833	Smarcd2	0.032441	0.41153218	0.607192
301345	Cnnm3	0.032438	0.42407109	0.619453
116632	Nat2	0.032431	0.87682154	0.942758
287302	Mrpl22	0.032414	0.59552871	0.759261
25059	Hk2	0.0324	0.67409984	0.816837
94203	Pgf	0.032339	0.70169865	0.836862
304445	Glt1d1	0.032334	0.59594001	0.759633
296284	Kif3b	0.032289	0.22418374	0.407131
362374	Voppl	0.032267	0.1394279	0.291995
117548	Kif1b	0.032249	2.05E-04	0.001275
305242	Cdk12	0.032245	0.17485586	0.3425
311193	Arhgap1	0.032242	0.30582331	0.501715
499994	Zfp804b	0.032232	0.77521334	0.882747
363212	Bend6	0.03223	0.11675438	0.256943
685179	Smarcc2	0.032223	0.0750526	0.185369
103689999	LOC103689999	0.032221	0.27526368	0.467278
24561	Mpg	0.032219	0.71428658	0.843372
100911320	LOC100911320	0.032217	0.72353514	0.848871
85428	Rhoq	0.032177	0.1327103	0.28202
684112	Sik3	0.03215	0.35964087	0.556587
292381	Lix1	0.032137	0.72734251	0.851398
304063	Ets2	0.032137	0.60504968	0.767955
304539	Sirt4	0.032129	0.77965631	0.885212
50622	Slc23a2	0.032124	0.29564447	0.492052
293950	Morn4	0.032121	0.40526886	0.601914

360476	Nagpa	0.03211	0.71470864	0.843818
305031	Brox	0.032079	0.15207811	0.309635
360699	Dnajc28	0.032062	0.75540321	0.869862
362065	Wls	0.032061	0.11390186	0.25224
296188	Sptlc3	0.032027	0.63133393	0.788081
502988	Sesn2	0.031992	0.6567791	0.803311
287530	Prpf8	0.031973	0.03791943	0.108418
25460	Hmmr	0.031971	0.74140486	0.860087
360620	Wipf2	0.031971	0.50925825	0.695555
83427	Rack1	0.03197	0.05840871	0.152885
313707	Exosc10	0.031902	0.4067304	0.603426
307582	Lama3	0.031893	0.52791233	0.711039
307096	Akr1c19	0.031851	0.56834806	0.737996
361420	Taf1c	0.031805	0.65093518	0.80271
500262	Kbtbd8	0.031781	0.72866413	0.851793
688757	Tmem200b	0.03177	0.86368799	0.933379
108349256	Soga3	0.03176	0.17351395	0.340678
361715	Rps6ka4	0.031751	0.52875075	0.711514
363064	Wdr61	0.031736	0.38800664	0.585175
287739	Eftud2	0.031723	0.25908956	0.448415
317259	Nono	0.031723	0.14588518	0.300821
500199	Ptcd3	0.031715	0.34254195	0.539239
314453	Wdr20	0.031681	0.54433708	0.725465
299566	Cyp4f39	0.031672	0.56219544	0.733608
309031	Ikzf5	0.03167	0.38845367	0.585571
311441	Trmt6	0.031652	0.5840366	0.750336
116590	Mapk1	0.031632	0.0367288	0.105729
312227	Cnot4	0.031632	0.33469732	0.531148
108348156	NEWGENE_2116	0.031569	0.49107737	0.67846
81800	St13	0.031566	0.02551195	0.079288
361729	Cyb561a3	0.031561	0.59996493	0.763129
25613	Ptprz1	0.031552	0.15716247	0.31724
365946	Slc9b1	0.031548	0.87711843	0.942917
295707	Tnks1bp1	0.031538	0.14695368	0.302337
361217	Spin1	0.031531	0.67797371	0.819862
299113	Klhdc2	0.031514	0.19125439	0.364499
309002	Zfp668	0.031482	0.69650922	0.833177
100125364	LOC100125364	0.031435	0.36142967	0.557814
502886	Foxj2	0.03143	0.4416472	0.634757
361745	Smarca2	0.031429	0.19542382	0.369781
502348	Stard5	0.031405	0.82725868	0.913077
291061	Riok1	0.031382	0.48210518	0.670833
313493	Rgp1	0.031338	0.34547482	0.542019
678741	Zc3h4	0.031331	0.38527755	0.582027
293497	Kctd13	0.031319	0.55058426	0.730978
360919	LOC360919	0.031262	0.85041027	0.925966
102552698	LOC102552698	0.031262	0.98495321	1
499123	Zfp569	0.031262	0.98495321	1
365468	Lzts2	0.031223	0.45286266	0.644409
362094	Mrps2	0.031204	0.45100002	0.642815
306626	Ing1	0.031182	0.68405396	0.824284
313035	Dnajc8	0.031154	0.25635461	0.445382
303280	RGD1307929	0.031131	0.05113075	0.13723
295105	Schip1	0.031118	0.21713864	0.398516
316216	Taf8	0.031109	0.6103426	0.771947
290552	Rft1	0.031041	0.67617366	0.818621

290905	Col4a1	0.030989	0.01907436	0.062991
294595	Ttc37	0.030972	0.28116235	0.474711
300361	Cwc15	0.030971	0.19455174	0.36868
79208	Epha5	0.030935	0.5595029	0.735233
308392	Strn4	0.03091	0.35466261	0.551482
294712	Cenpk	0.030907	0.85744016	0.930057
685076	Pgm211	0.030889	0.00867178	0.032886
688466	Usp21	0.030823	0.58095725	0.747893
84380	Dhh	0.030822	0.22896395	0.413446
81759	Renbp	0.030799	0.70792165	0.839552
102553866	LOC102553866	0.030791	0.75753409	0.871473
303630	Wipi1	0.030765	0.44578013	0.638433
246232	Uxs1	0.030752	0.2569738	0.44601
103693222	LOC103693222	0.030708	0.91399023	0.964855
297455	Lsm3	0.030684	0.60459312	0.767734
309150	Carns1	0.030669	0.41920357	0.614795
361043	Tm9sf1	0.030665	0.50580256	0.692673
499615	Lhfp16	0.030656	0.39164143	0.588792
282845	Rnf34	0.030635	0.46920503	0.659776
302987	Unk1	0.030528	0.46991328	0.660236
246326	Zdhhc2	0.030465	0.02460542	0.077087
25513	Pik3r1	0.030452	0.05987307	0.155776
690746	Spagl7	0.030428	0.95542871	0.991723
25675	Hmgcr	0.030357	0.11427158	0.252941
365476	Cfap43	0.03035	0.85237781	0.927207
312640	Emc3	0.030338	0.19126122	0.364476
314856	Mdm2	0.030336	0.50233935	0.688971
500882	RGD1564548	0.030332	0.96168885	0.996592
296956	Ube2h	0.030324	0.13169147	0.280481
305365	Slc25a52	0.030318	0.87259654	0.939913
367384	B3gnt11	0.030287	0.62664093	0.784073
686189	Cabyr	0.030279	0.49727472	0.6836
287276	Sar1b	0.030249	0.42209476	0.617466
300751	Rec114	0.030242	0.87705851	0.942906
311591	Rprd1b	0.030242	0.55035623	0.730828
301004	Qrich1	0.03024	0.36273882	0.55911
65035	Nr1i3	0.030239	0.87445373	0.941062
305443	Trmt44	0.030174	0.74785625	0.864832
303586	Wnt9b	0.030171	0.87925536	0.944255
302899	Txndc11	0.030163	0.5484578	0.729019
63868	Hspd1	0.03016	0.06131557	0.158749
298942	Dld	0.030157	0.11705161	0.257359
81536	Sgpp1	0.03014	0.30692066	0.502995
308523	Tshz3	0.030136	0.49287239	0.680348
29578	Hnrnpa1	0.030127	0.08281335	0.199871
307270	Me2	0.030119	0.3652387	0.561373
29561	Lsamp	0.030116	0.16514507	0.328823
100188933	Fam229b	0.030099	0.7770303	0.883706
288165	Pcnp	0.03008	0.12455556	0.269533
81707	Mmp14	0.030037	0.19939098	0.374793
100361520	Rpl37a	0.030021	0.16820921	0.332698
314942	Csmd3	0.030001	0.79347898	0.893291
299334	Cinp	0.029936	0.51602611	0.701479
315023	Slc25a32	0.029913	0.65083776	0.802642
304851	Trmt11	0.029881	0.55899076	0.735017
300850	Gsta4	0.02986	0.50735258	0.693699

316327	Arid5a	0.029831	0.72963914	0.852619
689043	Fam19a4	0.029829	0.7491142	0.865866
307288	Gramd2b	0.029819	0.6698581	0.813302
304809	Kdm5b	0.029816	0.44214145	0.635036
308267	Tab2	0.029797	0.30415744	0.501053
362919	Washc5	0.02978	0.18333643	0.353727
25233	Akt2	0.029766	0.38533586	0.582069
266766	Rcan1	0.029757	0.27518949	0.467194
317413	Morf4l2	0.029744	0.06605475	0.167892
50568	Cspg5	0.02966	0.74973395	0.866267
297708	Pyroxd1	0.02965	0.6327756	0.789157
305287	Exoc1	0.029642	0.25669714	0.445773
498008	Hexim1	0.02962	0.45240051	0.644136
170922	Ilk	0.029609	0.13586685	0.286332
305417	Lgi2	0.029585	0.50175667	0.68842
306665	Ice1	0.029573	0.26756674	0.458627
499285	Adam8	0.029559	0.75226526	0.867718
308890	Btbd10	0.029502	0.4112708	0.606947
114113	Pafah1b3	0.029499	0.55480726	0.734332
365802	Selenot	0.02949	0.04640495	0.127585
266732	Npc1	0.029436	0.38735524	0.58447
304920	Klhl20	0.029427	0.32826766	0.523869
499219	LOC499219	0.029397	0.93739794	0.980435
361409	Rfwd3	0.029388	0.72543989	0.850059
300197	Zfp641	0.029371	0.72006339	0.846833
363520	Irak1	0.029367	0.25835816	0.447719
301535	Stk11ip	0.029351	0.51974362	0.704421
309642	Def6	0.02934	0.69216851	0.830018
25469	Kcna4	0.029296	0.49341939	0.68056
316737	Lpin2	0.029293	0.49318076	0.680477
299612	RGD1359127	0.029217	0.64526211	0.798403
362316	Cdk14	0.029207	0.05468399	0.144888
366265	Rab22a	0.029127	0.38910729	0.586138
295543	Pigk	0.029112	0.37093664	0.567383
140661	Rplp1	0.029109	0.04931701	0.133757
303369	Lig3	0.029079	0.41101561	0.607748
292768	Yif1b	0.029073	0.45069206	0.64252
292765	Ggn	0.029071	0.8860327	0.948272
686103	Frg1	0.029059	0.60336343	0.766684
25135	Ncl	0.029045	0.07447862	0.18419
89827	Ddx39a	0.028973	0.68364321	0.823998
305552	Wdpcp	0.028951	0.75235098	0.867764
100360752	Ccdc122	0.028929	0.85478096	0.928336
58854	Psmb4	0.028927	0.14304403	0.297475
108348189	LOC108348189	0.028927	0.82880044	0.914143
361418	Hsd1l	0.028919	0.22885919	0.413375
338474	Tmem132a	0.028889	0.38277152	0.579666
296360	Pigt	0.028885	0.1922421	0.365832
362427	Mical3	0.028771	0.45382569	0.645201
171357	Ptprg	0.028759	0.50717678	0.693658
83577	Itgae	0.028756	0.78144596	0.886346
289924	Psmd6	0.028756	0.11096275	0.247139
81920	Ube2d3	0.028712	0.03252988	0.096216
295342	Rhoc	0.028712	0.29467081	0.49086
116465	Ifngr1	0.028711	0.33973403	0.536237
100909392	LOC100909392	0.028684	0.715596	0.844185

100125374	Adat3	0.028682	0.85723306	0.929939
308473	Samd4b	0.028675	0.38432078	0.581042
499529	Ndufs4	0.028641	0.25550096	0.444385
29709	Gabrg2	0.028561	0.10749847	0.241087
313048	Rbbp4	0.028558	0.35921582	0.556155
117557	Tpm3	0.028497	0.17972626	0.348811
303024	Fbxw11	0.028468	0.12962821	0.277047
25024	Gipr	0.028456	0.88265705	0.946361
292750	Plekhg2	0.028425	0.23425596	0.420451
365865	Pip5k1a	0.028422	0.5094162	0.695721
103690996	LOC103690996	0.028411	0.2968281	0.493332
103693323	LOC103693323	0.028399	0.26897532	0.460379
287150	Fam173a	0.028396	0.64946197	0.80188
303774	Tnrc6c	0.028347	0.40089002	0.598022
29194	Chka	0.028347	0.37106271	0.56753
192154	Hip1	0.028322	0.2703521	0.461905
116631	Nat1	0.028281	0.81560744	0.907051
64634	Sh3bp4	0.028274	0.5104066	0.696574
690853	Aatk	0.028265	0.02098177	0.068028
298675	Rer1	0.028248	0.39097007	0.588014
100912391	LOC100912391	0.028187	0.97250328	1
289312	Acbd3	0.028116	0.30907711	0.504229
305854	Sall2	0.028113	0.53913405	0.721155
305501	Ikzf1	0.028104	0.81503973	0.907055
66018	Pdgfd	0.028094	0.7427913	0.860962
311114	Klh123	0.028079	0.60890221	0.770637
294287	Phf1	0.028004	0.45490141	0.646103
307540	Celf4	0.027978	0.33767769	0.534631
312559	Chchd4	0.027958	0.74246026	0.86063
363875	Rac1	0.027953	0.01754129	0.058951
79248	Abca2	0.027948	0.03717114	0.106679
362697	Ppp1r21	0.027945	0.45533079	0.64652
116500	Snap29	0.027927	0.3457128	0.542214
315689	Hmg20a	0.027878	0.38689151	0.584094
81732	Actr3	0.027852	0.06315734	0.162545
103694537	LOC103694537	0.02781	0.71233148	0.84216
360777	RGD1563400	0.027772	0.87856943	0.943784
100188936	Ormdl1	0.027772	0.72016759	0.846903
303604	Map3k3	0.027736	0.48883127	0.676338
308739	Rgma	0.027722	0.63640445	0.791299
313049	Zbtb8a	0.027712	0.80054464	0.897849
361634	Ccp110	0.027637	0.42876608	0.624062
361485	Ermard	0.027631	0.54808299	0.728724
364975	Gcdh	0.027623	0.46201704	0.652753
299824	Tbc1d30	0.027561	0.5795229	0.747057
499766	Ttf1	0.027519	0.71084452	0.841394
25596	Rpn1	0.027518	0.09352335	0.217771
292404	Phf10	0.027508	0.63676844	0.791545
289993	Cdkn3	0.027497	0.85870312	0.930685
296618	Wdr34	0.027497	0.72180174	0.84783
498453	LOC498453	0.027411	0.71831946	0.846088
362485	Ccne2	0.027408	0.77158886	0.880409
360682	Wdr45b	0.027394	0.40806285	0.604837
311478	Kif16b	0.027385	0.38730223	0.584483
100912964	LOC100912964	0.027355	0.9183224	0.967765
304203	Lrrc8e	0.027355	0.88469223	0.94721

679837	Adam12	0.027329	0.72643928	0.850968
688540	Mast3	0.027312	0.3654318	0.561488
312667	Ankrd26	0.027291	0.71186601	0.841819
687008	Pcca	0.027279	0.63094723	0.788012
124440	Rpl141	0.027274	0.06908699	0.173951
305610	Em16	0.027251	0.56930478	0.738886
303201	Usp22	0.027241	0.29887533	0.495437
308896	Usp47	0.027237	0.26823769	0.459447
291996	Nob1	0.027185	0.54829692	0.728856
689779	Tctn2	0.027122	0.73358964	0.856027
499015	Serac1	0.027119	0.57581183	0.743884
29480	Rgs4	0.027055	4.88E-05	3.48E-04
360619	Gsdma	0.027027	0.77673133	0.883472
100366030	LOC100366030	0.026989	0.88943475	0.950364
366790	Pym1	0.026984	0.65683705	0.80333
307249	RGD1308601	0.026962	0.54425187	0.725403
316663	Fbx117	0.026926	0.59000322	0.755149
314273	Dcaf5	0.026917	0.37408837	0.570646
361365	Polr2c	0.026842	0.55911441	0.735128
498517	Khyn	0.026828	0.66623267	0.810657
84026	Dna ja2	0.026824	0.20857149	0.386631
316602	Hjurp	0.026806	0.76045913	0.873835
25379	Anp32a	0.026789	0.54129282	0.722976
25574	Ubtf	0.026722	0.32274774	0.517968
308345	Kmt5c	0.026668	0.52427385	0.708091
361184	Cars2	0.02665	0.66715899	0.810903
315579	Ubash3b	0.02665	0.07108172	0.177774
362900	Rnf19a	0.02664	0.2207064	0.402697
362671	RGD1304567	0.026639	0.72553643	0.850119
292721	Erf	0.026621	0.53765302	0.71973
287979	Par1	0.026611	0.59194661	0.757025
292306	Rnaset2	0.026608	0.51660216	0.701661
102553825	LOC102553825	0.026606	0.66738891	0.811131
685284	Hspb11	0.026602	0.76697931	0.877674
303673	Mrpl58	0.026566	0.57929061	0.746858
108348098	LOC108348098	0.026549	0.65448377	0.803134
84013	Hsd17b12	0.026532	0.23128831	0.416616
100322884	Nemf	0.026525	0.36860573	0.564634
300114	Rt16	0.026475	0.30736595	0.503119
108348727	LOC108348727	0.026464	0.90688231	0.960279
309565	Med23	0.026459	0.55574706	0.734963
290749	Irf2	0.026454	0.56147432	0.733119
171562	Erola	0.026447	0.48244233	0.671106
116699	Inpp4b	0.02643	0.7174396	0.845522
24874	Vhl	0.026392	0.45386518	0.645209
25696	Vldlr	0.026378	0.49373896	0.680754
306504	Trmt9b	0.02636	0.71608237	0.844393
83835	Chic2	0.026317	0.78970729	0.891416
102551846	Zfp174	0.026282	0.81507686	0.907043
369017	Krt5	0.02627	0.93049217	0.97557
171102	Cdc25a	0.026259	0.6692049	0.812768
140654	Rps3	0.026251	0.17431863	0.341799
116564	Npr2	0.026244	0.20566887	0.382927
363136	Tmem115	0.026218	0.52499283	0.708912
363243	Klf7	0.026212	0.30125427	0.498167
289623	Ube2k	0.026191	0.26015306	0.449561

140639	Nploc4	0.026181	0.22746877	0.411683
291439	Mbd1	0.026179	0.50960011	0.695922
100910528	LOC100910528	0.026179	0.70601062	0.839062
116568	Ggt1	0.026152	0.91993177	0.968979
361171	Golga7	0.026121	0.17291254	0.340023
287417	Rpl26	0.026117	0.10396413	0.235266
170567	Slc38a1	0.026102	0.22522827	0.408599
64196	Safb	0.026082	0.43708066	0.631243
365601	Atg5	0.026048	0.52567089	0.709525
103694158	LOC103694158	0.026044	0.97882174	1
308965	Chp2	0.02601	0.57053558	0.739828
29258	Rps7	0.025983	0.09668889	0.222989
291031	Fam8a1	0.025945	0.23260098	0.418387
100361188	Etfrf1	0.025907	0.73638199	0.857866
24398	Gls	0.025863	0.05656189	0.148911
360572	Rpl23a	0.025854	0.06321856	0.162658
83712	Rbbp7	0.02583	0.18723721	0.359252
287709	Rab5c	0.025812	0.1811225	0.350771
103694867	LOC103694867	0.025794	0.88848001	0.94993
288700	Rab35	0.025782	0.40329547	0.600247
360998	LOC360998	0.02578	0.58701898	0.752796
114211	Mtnrla	0.025777	0.9204402	0.969407
298436	Tspan1	0.025777	0.86265452	0.933003
296462	Mtg2	0.02574	0.65531202	0.80229
26955	Afdn	0.025729	0.46332958	0.654074
171413	Spata6	0.025664	0.61124017	0.77262
680825	LOC680825	0.025654	0.98052244	1
140925	As3mt	0.025654	0.72989381	0.852759
497994	Krt222	0.025648	0.65016699	0.802439
81022	Stxbp5	0.025643	0.33768667	0.5346
25578	Ywhaz	0.025637	1.36E-05	1.09E-04
286897	Dpy30	0.025634	0.54996194	0.730559
315283	Pced1b	0.025633	0.73590356	0.857414
117043	RragB	0.025623	0.58061347	0.747754
25670	I115	0.025619	0.82831441	0.913766
117541	Smu1	0.025612	0.4856812	0.67384
64313	Oat	0.025597	0.21805687	0.399509
171060	I113ra2	0.025594	0.88802274	0.949814
25747	Ppara	0.025591	0.72663813	0.851044
360564	Tax1bp3	0.025588	0.31228945	0.507557
310849	Sgms2	0.025577	0.74130323	0.860022
304766	Ubxn4	0.025576	0.21230189	0.391982
25664	Pparg	0.025503	0.84240369	0.921568
296394	Dpml	0.025493	0.50492642	0.691623
304731	Tmem185b	0.025413	0.62678663	0.784152
25530	Rab12	0.025413	0.742009	0.860421
287420	Pfas	0.025367	0.49060968	0.67801
25468	Kcna2	0.025362	0.00490857	0.020407
286971	Fut11	0.025334	0.76619354	0.877143
313873	Fam98a	0.025296	0.39736201	0.594576
83828	Gtf2a2	0.025282	0.65577999	0.802656
170905	Lfng	0.025267	0.68312472	0.823477
291320	Mindy3	0.025247	0.12440011	0.26938
493865	Gimap9	0.025246	0.85125596	0.926516
292537	Oscar	0.025238	0.92730978	0.973627
500989	Zpr1	0.025236	0.52134297	0.705785

292199	Kiaa0408L	0.025228	0.14589526	0.300809
25109	Cd1d1	0.025177	0.86405843	0.933567
367214	Oard1	0.025177	0.7320334	0.854577
303639	Abca6	0.025139	0.39956764	0.596704
81519	Mgat1	0.025136	0.54794048	0.728687
29361	Sox10	0.025135	0.18144505	0.351252
286888	Wfdc2	0.02509	0.84274977	0.921841
307459	Arhgap26	0.025071	0.58367974	0.75013
300663	Ccdc153	0.025065	0.92968634	0.975047
499020	Wtap	0.025061	0.34142234	0.538188
50577	Galr1	0.025061	0.794095	0.893509
63997	Slc29a1	0.025041	0.68430884	0.824487
361344	Mppe1	0.025034	0.61512276	0.775161
304017	Tomm70	0.025034	0.24672037	0.435315
364823	Klhl14	0.024987	0.80529889	0.900847
85434	Cdc5l	0.024958	0.44561331	0.638338
170751	Xpnpep1	0.024952	0.37260503	0.569021
29398	Stk10	0.024939	0.58559065	0.751572
308069	Slc12a7	0.024932	0.46139616	0.652408
299246	Ttc8	0.024929	0.72270113	0.848415
360772	Zfand2a	0.024922	0.38944828	0.586374
311647	Prex1	0.024912	0.33251608	0.528612
29241	Adcy8	0.024908	0.67638416	0.818772
288647	Dhx37	0.024889	0.66005757	0.805407
311529	Ninl	0.024889	0.78087899	0.885914
84589	Rab9a	0.024885	0.606051	0.76856
690253	Preli3a	0.024872	0.61838039	0.777158
24600	Nos3	0.024871	0.77194587	0.880658
58940	H2afz	0.024867	0.53924014	0.721246
100362980	LOC100362980	0.024841	0.68623337	0.825865
362164	Atg13	0.024832	0.36784719	0.563971
315126	RGD1359634	0.024778	0.79929274	0.89692
246136	Man2c1	0.024737	0.5401754	0.72199
286975	Skap1	0.02472	0.92188909	0.970396
59268	Ip6k2	0.02472	0.46709805	0.658077
292101	Sprtn	0.024675	0.70434354	0.837656
100911682	Actl10	0.024636	0.7818354	0.886682
24854	Clu	0.024623	0.00174371	0.008392
301622	Dtymk	0.024612	0.58581946	0.751764
50998	Coil	0.024566	0.72440816	0.849372
313583	Sf3a3	0.024557	0.56297067	0.734318
362228	Naa20	0.024553	0.49819016	0.684562
289352	Eprs	0.024529	0.13465274	0.284687
108348230	LOC108348230	0.024512	0.79462371	0.893735
300211	Fkbp11	0.02447	0.84520573	0.922672
286936	Pcytlb	0.024435	0.26746399	0.458658
84686	Ppp1r9b	0.024391	0.26819329	0.459412
24775	Shbg	0.024388	0.8112858	0.904887
155918	Lcp2	0.024373	0.77441126	0.88215
94167	Prdx6	0.02437	0.41158647	0.607225
500233	Exoc6b	0.024324	0.24592647	0.434276
362787	Mok	0.024323	0.82765573	0.913303
305452	Fam193a	0.024304	0.45298064	0.644481
288587	Alkbh4	0.02428	0.81164589	0.904864
289990	Psmc6	0.024271	0.20300372	0.379226
498902	Cmt4	0.024264	0.7258364	0.850366

498418	Wdr92	0.024249	0.7159969	0.844397
684122	Asap3	0.024226	0.66380794	0.80843
689765	B3glct	0.024221	0.5884375	0.754006
289362	Gpatch2	0.02418	0.62949297	0.786505
313219	Zfp189	0.024099	0.75911674	0.872714
497867	Nudt16l1	0.024093	0.63478447	0.790265
287721	Vat1	0.024089	0.06926916	0.174225
685539	Gtf3c4	0.024076	0.56913215	0.738712
311468	Taspl	0.024055	0.76247326	0.874725
297481	Eif4e3	0.024017	0.68723751	0.826551
304294	Rnf216	0.024016	0.58982319	0.755273
314386	Gpr68	0.024013	0.61906486	0.777557
313582	Fhl3	0.02401	0.74814406	0.864955
502479	Afg1l	0.024004	0.82863387	0.914012
685243	Ackr4	0.023989	0.88847053	0.949973
287986	Eif4g1	0.023975	0.05697263	0.149847
296121	Usp8	0.023955	0.26109941	0.450583
361957	Mfsd1	0.023954	0.43909329	0.632806
81520	Marcks11	0.023939	0.31231847	0.507561
305544	Aftph	0.023931	0.37845012	0.575548
103692087	Atp6v1fnb	0.023913	0.91926694	0.968439
311799	Ndor1	0.023898	0.72757809	0.851202
291406	Zfp516	0.023891	0.53620336	0.718446
296619	Pkn3	0.023874	0.80478525	0.900643
361401	Pla2g15	0.023811	0.650948	0.802674
287109	Kctd5	0.023799	0.46642534	0.657421
304290	Kdelr2	0.023786	0.49537761	0.681977
304282	Baiap211	0.023785	0.48688724	0.674972
94201	Cdk4	0.023755	0.48296557	0.671638
311396	Atp8b4	0.023755	0.92323334	0.971167
295500	Metap1	0.023755	0.50884532	0.695241
287531	Rilp	0.023748	0.8368123	0.918723
361005	Chchd1	0.023744	0.60387972	0.767135
292543	LOC292543	0.023734	0.97024049	1
313554	Foxj3	0.023699	0.50525677	0.691976
116696	St8sia4	0.023678	0.84738779	0.923731
500558	Gmeb1	0.023678	0.7388786	0.859408
500847	Dtx3	0.023643	0.48801844	0.675753
296091	Pla2g4e	0.023633	0.82977706	0.914796
308795	Tlnrd1	0.023612	0.58666318	0.752492
362599	Trappc3	0.023591	0.48843979	0.676091
311361	Wdr76	0.023527	0.78607616	0.888898
83531	Vdac2	0.023511	0.14136679	0.29463
361274	Nudt5	0.023423	0.74652477	0.863974
312444	Immt	0.023416	0.23164695	0.417065
689130	LOC689130	0.023409	0.06410734	0.164279
311952	Galnt11	0.023383	0.49010984	0.677565
102550609	LOC102550609	0.023362	0.91248118	0.96417
81531	Pfn2	0.023358	0.29076004	0.486089
294499	Fam241b	0.023339	0.6859592	0.825639
500368	Far2	0.023313	0.8168743	0.907982
312108	Ophn1	0.023309	0.49916539	0.685556
360803	Snrnp35	0.023285	0.70237769	0.837252
116501	Slc9a3r2	0.023283	0.27113445	0.462702
25363	Acadv1	0.02325	0.38731231	0.584452
309197	Hnrnpul2	0.0232	0.35003291	0.546693

315741	Paqr5	0.02319	0.59052158	0.755761
313594	Ago1	0.023185	0.60100962	0.764305
83841	Sdcbp	0.023182	0.02291068	0.07288
58815	Glrx3	0.023165	0.19969251	0.375212
246323	Aard	0.023157	0.89279072	0.952453
289994	Cnih1	0.023153	0.26996089	0.461402
361811	Srpk1	0.023141	0.42538643	0.620566
690777	Rufy2	0.023121	0.30978752	0.504826
29726	Slc22a5	0.02312	0.70405174	0.837466
360464	Parn	0.023092	0.65527434	0.802295
365252	Zdhhc13	0.02308	0.62751338	0.784855
498434	Gpr75	0.023075	0.80123544	0.898148
363068	Comm4	0.023052	0.58480255	0.750864
314548	Osgep11	0.023048	0.64210811	0.796052
294900	Tpd52	0.023037	0.0940536	0.218632
363584	RGD1560464	0.022978	0.67902987	0.820827
296751	Pus7	0.022973	0.73502665	0.857231
102238592	Ak6	0.022895	0.77374903	0.881712
25621	Cd81	0.022873	0.00964729	0.035977
306991	Vps41	0.022816	0.08631718	0.20572
362957	Ankrd54	0.022769	0.75369947	0.868688
498193	Fam222a	0.022769	0.78953954	0.89128
100196907	Tmem59	0.022764	0.165389	0.329136
83765	Rtn4	0.022748	5.17E-04	0.002889
362973	Parvb	0.022736	0.28287277	0.476585
117268	Khdrbs1	0.022728	0.36454679	0.560717
363004	Prr13	0.022717	0.32824174	0.523916
114481	Dnajc14	0.022712	0.42903644	0.624265
81754	Rab1a	0.022685	0.16901016	0.334074
58974	Gabarap	0.022564	0.19629413	0.370875
362683	Heatr5b	0.022557	0.48868378	0.676281
361719	Spindoc	0.022543	0.75472574	0.869661
362275	B4galt5	0.02252	0.60605622	0.768516
291733	Slc39a6	0.022518	0.45847266	0.649722
297995	Chmp5	0.022503	0.36922898	0.565407
680080	Tomm5	0.022378	0.45967875	0.650898
499083	Zscan18	0.022367	0.74502868	0.862662
363545	Naa60	0.022355	0.44144424	0.634657
287877	Pycr1	0.022256	0.85138521	0.92655
299827	Tbk1	0.022247	0.52526776	0.709132
361202	Gkap1	0.022238	0.66049638	0.805736
310635	Arhgef2	0.022202	0.54420307	0.725439
307893	Gan	0.022198	0.62802997	0.785244
291713	Rit2	0.022193	0.44717528	0.639517
100359967	Zfp560	0.022181	0.71714303	0.84533
363213	Ccdc115	0.022137	0.68200011	0.822642
690585	Alyref	0.022135	0.5857855	0.751771
24710	Rbp2	0.022059	0.85194661	0.926949
361799	Dxo	0.022059	0.804989	0.900712
102547753	LOC102547753	0.022052	0.90431163	0.958249
363720	Chmp2b	0.022036	0.52696497	0.710617
498951	I134	0.022022	0.57724539	0.744978
360854	Arpc5	0.022018	0.23965563	0.426964
362566	Lrrc41	0.022016	0.48924703	0.676667
114524	Ntn3	0.022015	0.81934467	0.909137
501069	Golga4	0.022009	0.381803	0.578614

303122	RGD1310352	0.021993	0.35618946	0.553314
313166	Nfx1	0.021984	0.51749929	0.702378
300723	Hykk	0.021981	0.84434994	0.922426
297902	Gem	0.021972	0.87181104	0.939545
361625	Nrip3	0.021966	0.18990897	0.362879
497757	Gucylal	0.021944	0.77999497	0.885439
553106	Ncald	0.021938	0.19817526	0.373171
295661	Spc25	0.02193	0.89527057	0.953923
304332	Dnaaf5	0.021904	0.72822389	0.851487
27137	Eif2ak1	0.021902	0.45425463	0.645522
298992	Nova1	0.021885	0.76879785	0.878488
84424	Tle3	0.021878	0.55644896	0.735534
25062	Gpd2	0.02187	0.48193835	0.670797
296753	Srp2	0.02187	0.35980764	0.556619
685888	Sdhaf4	0.02187	0.71878268	0.846319
102553881	LOC102553881	0.021856	0.72411786	0.849136
499956	Uck11	0.021855	0.64886024	0.801397
317646	Rpl13a	0.021849	0.09063484	0.212736
114766	Phb2	0.021818	0.4539595	0.645295
84488	Fgf13	0.021753	0.0498075	0.13457
291565	Afap111	0.021651	0.71994086	0.846845
114859	Eif2ak4	0.021625	0.65034827	0.802454
25317	Fgf1	0.021618	0.01491219	0.051571
361178	Tfdp1	0.021614	0.62448971	0.782358
362393	Antxr1	0.021599	0.671718	0.815196
108350133	LOC108350133	0.021592	0.42325138	0.618683
306695	Zfp367	0.021567	0.70316412	0.836776
690211	Dip2a	0.021558	0.53084881	0.713128
363159	Gpd11	0.021552	0.69506773	0.831923
302671	Ap1s2	0.021514	0.14192414	0.295598
304545	Oasl	0.021503	0.83648487	0.918575
58946	Robo1	0.0215	0.62527784	0.783088
315422	Mtmr2	0.021495	0.30213604	0.499062
362883	Slc35e3	0.021484	0.47113095	0.661605
25418	Dpysl3	0.021467	0.22909127	0.413598
100360638	Zfp780b-ps1	0.021449	0.77892372	0.884486
360462	Ntan1	0.021437	0.35265365	0.549614
117520	Oxr1	0.021429	0.08528617	0.204183
498174	Nipsnap2	0.021425	0.40111207	0.598119
140808	Manea	0.021419	0.53198133	0.714297
619374	Jam2	0.021346	0.48344918	0.672114
94165	Cabin1	0.021301	0.51984779	0.704512
288785	Bloc1s1	0.021275	0.62683174	0.784157
301246	Polr1c	0.021224	0.73127281	0.854056
308508	Uba2	0.021222	0.46629364	0.657333
114118	Gng4	0.021187	0.55551976	0.734713
499979	Fam185a	0.021174	0.71208069	0.841968
89803	Sfrp4	0.021162	0.74099829	0.85993
100365921	LOC100365921	0.02116	0.79542094	0.894314
680711	Nxpe5	0.02115	0.96418772	0.998149
108348225	LOC108348225	0.021131	0.85461953	0.928267
246327	Prim1	0.021129	0.61878096	0.777405
362746	Dnaaf2	0.021126	0.73803835	0.858535
25445	Fos11	0.021072	0.89703525	0.954815
287925	Pkp2	0.021072	0.89703525	0.954815
360718	Popdc2	0.021072	0.87406975	0.940808

297334	Mrpl35	0.021039	0.63731922	0.792126
687147	Ric3	0.02103	0.47243295	0.662798
316736	Emilin2	0.021025	0.83802696	0.919262
140693	Plcd4	0.020993	0.37367719	0.570247
316005	Arih2	0.020988	0.53758322	0.719738
287608	Supt4h1	0.020973	0.59985302	0.763089
291946	Tmem184c	0.02097	0.27989482	0.473368
29484	Slc3a1	0.02096	0.9607881	0.995929
500361	Lrmp	0.020956	0.8972767	0.954939
294680	Btf3	0.020911	0.23432564	0.420536
64525	Eloc	0.020908	0.40886635	0.60504
303740	Slc38a10	0.02085	0.51948527	0.70412
679713	Brpf1	0.02079	0.69949297	0.83533
192256	Pja2	0.020779	0.03932389	0.11173
291942	Slc10a7	0.020772	0.76428781	0.875909
362809	Ptges3	0.020733	0.22401912	0.406987
501105	Ankrd66	0.020727	0.89775204	0.955231
308796	Mesd	0.020687	0.47466816	0.665003
295692	Nup35	0.020647	0.73428887	0.85658
307923	Vps9d1	0.020636	0.60791416	0.769949
368120	Zkscan2	0.020615	0.92776654	0.973838
498225	Eif2d	0.020605	0.64504812	0.798242
361407	Cog4	0.020587	0.44199717	0.634925
293638	Cars	0.02052	0.63210186	0.788523
294708	Sgtb	0.020519	0.28263072	0.476303
306860	Gcnt2	0.020506	0.40569639	0.602267
287443	Acap1	0.020505	0.89821756	0.955513
311856	Usp20	0.020504	0.28278613	0.476481
299982	Ankrd46	0.020422	0.23493769	0.421278
116679	Cgrrf1	0.020408	0.70975436	0.840365
103694121	LOC103694121	0.020395	0.92809366	0.97402
301381	Tex30	0.020395	0.84007995	0.920083
302808	Zdhhc9	0.020325	0.50394264	0.690722
302950	Adcy9	0.020291	0.63984753	0.793818
83526	Atrn	0.020289	0.25025983	0.438191
282835	Wrnip1	0.020278	0.6591898	0.804864
315732	Uaca	0.020276	0.53713017	0.719283
309410	Mamdc2	0.020242	0.6801717	0.821477
288516	Eif3b	0.020193	0.3992108	0.596498
85265	Ajuba	0.020135	0.73699544	0.857741
58918	Casp9	0.020096	0.65385542	0.802725
367763	Tmem164	0.020068	0.45010022	0.641773
89786	Cox17	0.020036	0.61237864	0.773341
362403	Slc25a26	0.020019	0.83043888	0.915314
25368	Adk	0.020018	0.34767812	0.544668
84607	Socs2	0.020015	0.67370308	0.816564
361261	Ccny	0.019993	0.58119298	0.748146
108349349	LOC108349349	0.019971	0.95058718	0.98826
502633	Mettl8	0.019971	0.85802355	0.93016
314941	Lrp12	0.019952	0.68200878	0.8226
309419	Pip5k1b	0.019924	0.74731881	0.864421
59319	Ambra1	0.019904	0.54464735	0.725777
314683	Tcp1112	0.019895	0.70400065	0.837457
94197	Rab14	0.019861	0.24457736	0.432857
246060	Cdkn1c	0.019848	0.84188388	0.921158
100912459	LOC100912459	0.019803	0.80983351	0.90369

29448	Rab7a	0.019797	0.09532263	0.220827
307641	Csnk2a2	0.019777	0.58291872	0.749709
310174	Cdh18	0.019776	0.67608919	0.818623
360761	Lnx2	0.019767	0.757696	0.871607
305458	Tmem129	0.019731	0.71367846	0.843124
315165	Naga	0.019723	0.57907742	0.746634
691572	Ubap11	0.019723	0.92431617	0.971555
312213	Plxna4	0.019654	0.44962387	0.641286
361020	Rpp14	0.019624	0.63167008	0.788191
288621	Mrps17	0.019598	0.69890189	0.834886
25498	Npm1	0.019588	0.33193522	0.528173
287456	Med11	0.019585	0.77597283	0.883084
304024	Cpox	0.019567	0.74003528	0.860228
619549	Plpp6	0.019554	0.73133087	0.854071
360928	Dcun1d4	0.019537	0.43379624	0.628215
293673	Eiflad	0.019536	0.67751601	0.819569
313323	Psip1	0.019493	0.45247142	0.644189
60434	Bcl2l2	0.019489	0.29830875	0.494886
368178	Hoxc9	0.019425	0.76935815	0.878706
83576	Sort1	0.019424	0.34307278	0.539584
300891	Morf411	0.019417	0.10255087	0.233009
84402	Sfrp1	0.019387	0.52371871	0.707894
303021	Sh3pxd2b	0.019376	0.51248879	0.698115
298687	Aurkaip1	0.019344	0.60682979	0.769087
64532	Adcy5	0.019341	0.58131343	0.74825
365924	Tmem56	0.01931	0.36615072	0.562321
360475	Alg1	0.019299	0.77836951	0.884542
287436	Eif4a1	0.019298	0.20789008	0.385856
363630	Kdm6b	0.019287	0.59689562	0.760546
315088	RGD1311188	0.019277	0.86342658	0.933202
307545	Elp2	0.019272	0.42490251	0.620192
307524	Wdr33	0.01925	0.65967235	0.805092
361740	RGD1359158	0.019249	0.71200402	0.84193
297601	Mrpl51	0.019219	0.5738431	0.742247
313445	Klhl13	0.01921	0.54632152	0.727194
293663	Rbm4	0.01921	0.70667089	0.83948
83532	Vdac3	0.0192	0.17218381	0.338975
81822	Actb	0.019168	0.00901423	0.033989
690632	Gcn111	0.019106	0.49644164	0.682751
103692531	LOC103692531	0.019082	0.82071293	0.909595
293674	Drap1	0.019073	0.51237622	0.698012
295333	Dennd2c	0.019057	0.8792624	0.944183
363001	Bcdin3d	0.019057	0.8792624	0.944183
316012	Klhl18	0.019051	0.69493544	0.83187
317444	Hccs	0.019023	0.70238265	0.837206
494192	Mycbpap	0.019012	0.77136502	0.880259
103693494	LOC103693494	0.018995	0.98151278	1
100188932	Ost4	0.018995	0.41419549	0.60994
102547431	LOC102547431	0.018989	0.94547065	0.985253
81808	Nr2f1	0.018957	0.54857887	0.729129
502674	Dstn	0.018918	0.17697992	0.345488
252857	Rapgef4	0.018892	0.39186232	0.589031
360779	Lrch4	0.01888	0.55349644	0.733362
499934	Manbal	0.018866	0.5760074	0.744036
108348154	LOC108348154	0.018819	0.78241972	0.88687
500306	B4galnt3	0.018813	0.84534782	0.922722

293418	Rpl27a	0.018761	0.26711214	0.458467
314843	Ptprb	0.018751	0.60367711	0.766929
50658	Mapk9	0.018738	0.28771698	0.482357
362036	Ank2	0.018734	0.00729404	0.028449
114764	Mapre1	0.018716	0.39868252	0.595943
295365	Amigo1	0.018696	0.30149281	0.498431
302920	Rbfox1	0.018695	0.27325766	0.465325
313689	Dhrs3	0.018635	0.78349714	0.887563
305198	Prdm8	0.018613	0.65893588	0.80476
84470	Gnpat	0.018606	0.59736539	0.761042
81814	Tmsb4x	0.018603	0.00177299	0.00852
294864	Cct5	0.018586	0.22191985	0.404137
259271	Aptx	0.018576	0.79461373	0.893776
364983	Rnf150	0.018547	0.83178317	0.915418
361844	H2afy2	0.018499	0.78689229	0.889504
362967	Rrp7a	0.018496	0.55346368	0.733369
287427	Trappc1	0.018484	0.39370972	0.590921
313647	Hp1bp3	0.018477	0.37952627	0.576724
296167	Pank2	0.018461	0.80661107	0.901124
305002	Sdccag8	0.018461	0.80661107	0.901124
367073	Trappc4	0.018433	0.56612497	0.736465
313658	Ubr4	0.018407	0.14596727	0.300893
299197	Are11	0.01836	0.35976374	0.556687
361262	Heatr1	0.01835	0.81138863	0.90463
307757	Neto2	0.018347	0.79564733	0.894516
294339	Mcm3ap	0.018331	0.58054307	0.747916
81749	Prkch	0.01829	0.81955951	0.909216
25167	Ptpra	0.018276	0.32570697	0.521356
288921	Fbxw9	0.018242	0.81975222	0.909165
63865	Lgmn	0.018214	0.23914935	0.426421
500157	RGD1560028	0.018184	0.80580263	0.90067
84477	Gab2	0.018175	0.57731728	0.74502
291908	Tox3	0.018169	0.77551701	0.882881
83834	Nrn1	0.018164	0.18102669	0.350621
299147	Ppp2r5e	0.018131	0.49190303	0.679305
298914	Itgblbp1	0.018129	0.55447976	0.734205
363020	Smco4	0.018099	0.92858566	0.974322
548104	Pcdhb17	0.018077	0.85197055	0.926923
691307	Lrrc39	0.018068	0.9296234	0.975035
364705	Serpina6b	0.018036	0.93518609	0.978767
293886	Cdc37l1	0.018031	0.49289054	0.680323
679819	Glpr2	0.018025	0.84803201	0.924274
29355	Pkn1	0.017989	0.65046744	0.802497
102555439	LOC102555439	0.017914	0.82107359	0.909836
298342	Nkap	0.01786	0.80918439	0.90323
60357	Prom1	0.01786	0.73272437	0.855227
100359512	Vtilb	0.017853	0.64010206	0.794082
296384	Znfx1	0.017837	0.49146466	0.678896
312154	Ing3	0.017786	0.77742462	0.883943
282834	Chmp3	0.017785	0.34647812	0.543056
317409	MGC109340	0.017777	0.66764711	0.811341
309168	Map3k11	0.017748	0.59486233	0.758767
363478	Snx12	0.017732	0.68309584	0.823494
361652	Srcap	0.017666	0.44394728	0.63691
309626	Ring1	0.017613	0.70421468	0.837607
298514	Rragc	0.017608	0.43932571	0.632662

79220	Grid2	0.017592	0.79907468	0.896781
362631	Rpl11	0.017561	0.33179015	0.528075
313598	Zmym4	0.01754	0.60621025	0.768609
25520	Prkag1	0.017517	0.56989865	0.739405
287463	Rpain	0.01749	0.84987686	0.925755
310194	Kat8	0.017438	0.70755142	0.839218
296278	Pdrg1	0.017373	0.57119974	0.740387
296306	Ergic3	0.017363	0.53894202	0.720949
294810	Tars	0.017349	0.55479776	0.734371
287454	Alox12	0.01734	0.93277927	0.976999
306376	Sh2d4a	0.017335	0.870267	0.938572
289125	Acbd6	0.017283	0.75322128	0.868295
500536	Hyi	0.017242	0.80068529	0.897954
405103	Olr1206	0.017193	0.99329338	1
362943	Adck5	0.017193	0.81207698	0.905133
689479	LOC689479	0.017184	0.93471843	0.978492
295243	Krtcap2	0.017173	0.68880865	0.827605
25347	Rpl39	0.017165	0.6519028	0.803124
291567	Ppargc1b	0.0171	0.88838939	0.949993
363005	Pcbp2	0.017017	0.27969572	0.473157
93662	Cdhr1	0.017017	0.8017236	0.898483
25692	Plat	0.016997	0.34930528	0.546094
29563	Crabp2	0.016931	0.78564799	0.888572
59265	Phlpp1	0.016906	0.65809331	0.804196
29643	Sv2c	0.016891	0.01826291	0.060882
171569	Spon2	0.016863	0.80438205	0.900509
25437	Emd	0.016847	0.75509341	0.869716
50566	Greml	0.016838	0.90617104	0.959632
306687	Mfsd14b	0.016829	0.6373623	0.792128
362737	Heatr5a	0.016821	0.55164714	0.731981
297453	Hdac11	0.016811	0.58932193	0.754835
50594	Nb11	0.016809	0.24839547	0.436733
289051	Dennd1b	0.016797	0.58500358	0.75097
100909840	LOC100909840	0.016793	0.21468113	0.395225
308669	Herc2	0.016772	0.32649568	0.522267
311051	Ccdc148	0.016769	0.93368619	0.977842
362154	Zc3h15	0.016758	0.41990533	0.615398
25499	Nrdc	0.01672	0.43696105	0.631166
685232	Atp6v1a	0.016675	0.20695119	0.384638
287212	Rnf145	0.016654	0.55345042	0.733403
60577	Slc15a2	0.016653	0.76480382	0.87629
289833	Fam161a	0.016633	0.93390342	0.978016
29285	Rps15	0.016628	0.30338707	0.500564
316842	Metrn1	0.016571	0.76526126	0.876339
688905	Mtx3	0.016568	0.55026573	0.73081
298676	Morn1	0.016566	0.86847166	0.937538
289522	Cox18	0.016556	0.82663596	0.912972
100361568	Hilpda	0.016543	0.88602454	0.948316
309176	Mrpl49	0.016534	0.69152004	0.829397
24551	Mdh1	0.016526	0.15741538	0.317649
503052	Vash1	0.016468	0.47687595	0.666234
287367	Cops3	0.016441	0.55165006	0.731934
58817	Sec23a	0.016424	0.34862147	0.545518
286917	Phax	0.016418	0.70537309	0.838409
81801	Stc1	0.016335	0.88327003	0.946485
25496	Notch1	0.016333	0.51679225	0.701769

29479	Odf2	0.016296	0.69969789	0.835365
302247	Rtraf	0.016263	0.50430053	0.690915
29367	Chkb	0.01626	0.68112824	0.821955
361790	Ppp1r18	0.016218	0.6320906	0.788561
297406	Cct7	0.016217	0.37683398	0.573685
297561	Rad52	0.016145	0.86980966	0.93845
686310	Ephb4	0.016114	0.80594485	0.90067
287607	Mtmr4	0.016066	0.45079022	0.642612
307858	Ldhd	0.016059	0.7629794	0.874936
303701	Clqtnf1	0.016027	0.7147955	0.843868
116508	Nrxn3	0.016018	0.60538277	0.768225
302434	MGC114483	0.016	0.94791641	0.98683
309458	Pdcd11	0.015992	0.70068372	0.835966
292067	Zc3h18	0.01598	0.68927952	0.827857
316628	Asb1	0.015938	0.45337925	0.644855
291339	CommD3	0.015919	0.58046514	0.747967
502749	Agk	0.015897	0.76902232	0.878586
298103	Atp6v1g1	0.015852	0.38087669	0.577854
295224	mrpl24	0.015842	0.6968049	0.833479
287457	Zmynd15	0.015836	0.93050655	0.975531
361169	Letm2	0.015824	0.81813828	0.908592
311236	Lrrc4c	0.015794	0.6073993	0.769604
292074	Trappc21	0.015774	0.61434529	0.774592
288233	Wrb	0.015771	0.52940786	0.712147
361907	Fbx17	0.015726	0.85610381	0.929349
291796	Usp14	0.015721	0.27130501	0.46291
102549747	LOC102549747	0.01572	0.91171021	0.963569
84550	Slc24a2	0.015714	0.20016191	0.375945
500537	Tmem269	0.015693	0.91488035	0.965259
291553	Nedd41	0.01567	0.42989429	0.624463
362271	Elmo2	0.015668	0.6154282	0.775392
316085	Trak1	0.015666	0.42039468	0.615641
316376	Inpp1	0.015643	0.78838921	0.890351
686883	Larp7	0.01564	0.68505458	0.82502
499900	Zfp133	0.015609	0.79818762	0.896367
690300	Cox11	0.015585	0.844519	0.922451
303798	Arvcf	0.015576	0.5564184	0.735595
313744	Nol9	0.015563	0.71269114	0.84248
114559	Arhgef7	0.015561	0.51496301	0.700584
64443	Gpr88	0.015519	0.85349018	0.927675
365243	Sergef	0.015489	0.81964579	0.909206
362279	Pard6b	0.015479	0.88898624	0.950258
498538	Trim35	0.015467	0.46837386	0.658997
494202	Oas3	0.015451	0.93486009	0.978533
362453	Crebl2	0.015445	0.56146623	0.733159
691123	Fam19a3	0.015402	0.60587932	0.768445
291556	Nars	0.015304	0.25646393	0.44549
317376	Tfe3	0.015297	0.66575448	0.81023
59117	Ago2	0.015293	0.857663	0.93014
688993	Kctd7	0.015275	0.84431621	0.922442
29554	Pdha1	0.015244	0.19815949	0.373178
408243	Ece2	0.015235	0.66063799	0.805806
361212	Rnf44	0.015223	0.53855695	0.720636
361459	Clvs2	0.01522	0.8897165	0.950558
361450	Ust	0.015219	0.6082258	0.769985
300982	Abhd14a	0.015171	0.82108751	0.909798

313339	Acer2	0.015171	0.80584661	0.900666
114711	Gne	0.015169	0.76482546	0.876262
302500	Mctsl	0.015165	0.74168911	0.86026
294282	Rps18	0.015132	0.58303662	0.74981
498015	Pitpnc1	0.015113	0.24167127	0.42951
501619	Armex1	0.015107	0.52637411	0.710173
293149	Mrpl48	0.015097	0.66812621	0.811768
691337	Stk381	0.015049	0.65943953	0.805066
24170	Add1	0.01501	0.23226735	0.417866
64468	Hyal2	0.015007	0.78270498	0.887087
280671	Txndc9	0.014986	0.66827334	0.811895
25307	Cst3	0.014984	0.01672243	0.056548
680747	Mrpl20	0.014967	0.71550932	0.844397
293823	Prune2	0.014956	0.00380302	0.016454
295231	Glmp	0.014932	0.71575566	0.844269
288371	Mcoln1	0.014862	0.62947035	0.78658
300754	Bbs4	0.014844	0.6987529	0.834813
300772	Pias1	0.014839	0.7667791	0.87755
362625	Man1c1	0.014823	0.76097418	0.873636
252920	Olfm3	0.014817	0.87410845	0.940797
103689925	LOC103689925	0.0148	0.83546246	0.918114
103692128	LOC103692128	0.0148	0.83546246	0.918114
24669	Ppp1cc	0.014789	0.41282314	0.608672
310903	Adh6	0.014785	0.97905613	1
299735	Amdhd1	0.01473	0.88949767	0.950378
691231	Gemin5	0.014724	0.78426641	0.887748
313949	Ldah	0.0147	0.64959932	0.801998
363152	Stac	0.014608	0.54165899	0.723364
312255	Slc37a3	0.014588	0.61272192	0.773518
100360577	LOC100360577	0.014567	0.93727046	0.980383
100912525	Hoxa4	0.014567	0.93727046	0.980383
362424	Tmem72	0.014567	0.78513709	0.888364
291840	Slc38a7	0.014514	0.72523794	0.849927
500996	Layn	0.014501	0.77647723	0.883235
64701	Rpn2	0.014497	0.41646524	0.612383
683674	LOC683674	0.014492	0.81371902	0.906115
309918	E112	0.014474	0.65441525	0.803102
313529	Tmem53	0.014461	0.84945491	0.925454
361724	Mta2	0.014375	0.69542656	0.832196
493574	Ispd	0.014356	0.80453758	0.900577
309639	Anks1a	0.014353	0.60784247	0.770012
103690162	Eid2b	0.014263	0.86142965	0.932367
25700	Ide	0.014252	0.63045357	0.787498
140671	Phkg2	0.014251	0.60882527	0.770642
117041	Nln	0.014237	0.78431127	0.88764
685152	Atp8b2	0.014224	0.58133567	0.748178
308000	Pdzd8	0.014207	0.40522466	0.601942
641386	Ap5z1	0.014207	0.79241612	0.892992
501095	Rftn1	0.014197	0.90695001	0.960244
102550344	Kmt2b	0.014189	0.70867169	0.839814
100361517	Psmg3	0.014181	0.78729246	0.889692
306055	Pcdh17	0.014162	0.62873025	0.785861
310375	Zfp131	0.01415	0.72714744	0.851326
307412	RGD1305184	0.014108	0.96177988	0.996632
29581	Htr2b	0.014102	0.95750446	0.993228
364637	Fbxo25	0.014093	0.73481957	0.857094

29702	Eif2ak3	0.014084	0.6976901	0.834171
289342	Rps6kc1	0.014083	0.63169523	0.788171
361822	Ybey	0.014072	0.85547668	0.928933
361882	Arhgef28	0.01406	0.6812051	0.821995
362248	Procr	0.014053	0.91258822	0.96423
498576	I117rd	0.014033	0.79694393	0.895287
498358	Slc30a9	0.014031	0.40338272	0.600283
301253	Tmem151b	0.014021	0.72133911	0.847443
170501	Galnt10	0.013973	0.76419197	0.875852
114029	Megf8	0.013964	0.51681141	0.701745
102554867	LOC102554867	0.013921	0.93835106	0.981055
246756	Tradd	0.013903	0.8627604	0.932853
299196	Abcd4	0.013897	0.87684516	0.94273
360811	Naa25	0.013894	0.69911572	0.835037
303874	Senp5	0.013869	0.50125916	0.687836
360796	Rcc11	0.013861	0.86264496	0.933046
170913	Abcb1a	0.013805	0.74434523	0.861976
50646	Ptk2b	0.013803	0.70860093	0.839782
303968	Ift57	0.013793	0.80260075	0.899043
362615	Gpatch3	0.013791	0.91320908	0.964458
57033	Adam22	0.013782	0.30938927	0.504479
309194	Taf6l	0.013772	0.87878592	0.943964
303792	Klh122	0.013757	0.73058659	0.853412
679462	Tspan15	0.013736	0.69477441	0.831834
304132	Rwdd2b	0.013706	0.82783648	0.91345
81643	Atic	0.013665	0.61119738	0.772617
64523	Tep1	0.013664	0.68983661	0.828213
287593	Ptrh2	0.013629	0.81209473	0.9051
298104	Tmem268	0.013593	0.83929334	0.919803
361668	Ebf3	0.013592	0.69321009	0.830587
313539	Kdm4a	0.013587	0.66462996	0.809172
306400	Arhgap35	0.013568	0.30947405	0.504488
288444	Hsph1	0.013557	0.29111576	0.486385
690751	Wdr59	0.013508	0.80193871	0.898672
296049	Emc4	0.013494	0.55195167	0.732232
360942	Pcdh7	0.013467	0.60028026	0.763428
296966	Chchd3	0.013453	0.64686295	0.799864
100362311	Arhgap33	0.013443	0.83961776	0.92
363028	Spc24	0.01342	0.93919579	0.981669
681740	Jarid2	0.013414	0.81961034	0.909219
362814	Rnf41	0.013412	0.61430031	0.774586
29748	Ppp3r1	0.013411	0.37551342	0.572315
303607	Ddx42	0.013401	0.61709829	0.776264
312946	Tmem68	0.013376	0.80050714	0.897913
24214	Atp1b2	0.01337	0.46496314	0.655797
361367	Amfr	0.013369	0.43723077	0.631316
680066	Lemd3	0.013367	0.81925304	0.909088
305470	Drg1	0.013359	0.72667452	0.851034
79423	Stmn4	0.013341	0.80979571	0.903754
83477	Bcl10	0.013341	0.80070283	0.897921
691853	Cox10	0.013316	0.78389731	0.887805
362735	Coch	0.013301	0.91437579	0.964941
296731	Nub1	0.013271	0.52208829	0.706342
246116	Ptpn4	0.013263	0.79248384	0.893015
298369	Osbp19	0.013236	0.49457466	0.681216
24654	Plcb1	0.013211	0.79277659	0.89324

362778	Gskip	0.013165	0.70842765	0.839682
306879	Fars2	0.013138	0.83050226	0.915331
65170	Scamp4	0.013136	0.72843742	0.851685
304275	Zkscan5	0.013125	0.84135839	0.921059
313430	Fam151a	0.013075	0.92363393	0.971159
303398	Tbx2	0.013062	0.72317604	0.848659
192147	Polr2m	0.013043	0.55508698	0.734498
298384	RGD1559786	0.012962	0.71799095	0.845806
114506	Ankh	0.012947	0.58015968	0.747675
361877	Ssbp2	0.012943	0.69573677	0.832463
300208	Ddx23	0.012933	0.68025335	0.821471
288489	Rbak	0.012924	0.91016298	0.962575
365387	Odf3	0.012919	0.93571607	0.979214
500798	C2cd4c	0.012911	0.95092271	0.988231
304951	Nuf2	0.012889	0.94009794	0.982073
307067	Dip2c	0.012873	0.61830386	0.777165
362037	Aplar	0.012777	0.59449268	0.758855
313722	Spsb1	0.012752	0.78909352	0.890935
116659	Dync1i2	0.012741	0.20716663	0.384851
307050	Mtpap	0.012738	0.83239378	0.915826
499755	Tmem141	0.012712	0.88113254	0.945099
170921	Itga2	0.012688	0.90319401	0.957811
309650	Cpne5	0.012629	0.85780782	0.930138
170926	Cysltr2	0.012589	0.75870506	0.872346
85472	Polg	0.012503	0.69857708	0.83476
498350	Theg1	0.012471	0.97418213	1
108348096	LOC108348096	0.012435	0.83271461	0.916126
498849	Pcdhga10	0.012426	0.80808851	0.902272
313498	Cd72	0.012415	0.92255394	0.970613
292100	RGD1562218	0.012403	0.80586532	0.900634
361569	Prr12	0.012403	0.72816615	0.851524
314251	Sptb	0.012365	0.51057586	0.696556
100363065	Zfp11	0.012353	0.89751794	0.955089
246280	Slc15a4	0.012348	0.78191853	0.886671
170739	Kcnh7	0.012304	0.55754513	0.736523
171137	Khsrp	0.012263	0.73528087	0.85737
500790	Cactin	0.012255	0.84327904	0.922049
25328	Lamp1	0.012254	0.23120363	0.416503
313929	Ncoa1	0.012253	0.62065299	0.778678
288498	Wipi2	0.01222	0.7752872	0.882778
303564	Tmem101	0.012212	0.819125	0.909052
25318	Fnta	0.012202	0.57475648	0.742772
312192	Ahcyl2	0.012194	0.57816146	0.745857
81763	Rpl5	0.012165	0.43811594	0.631924
362757	Rdh11	0.012147	0.75501146	0.869727
100910753	Dnttip2	0.012082	0.75546491	0.869828
103692368	Palm2	0.012042	0.88414209	0.946833
100911224	LOC100911224	0.01203	0.9412814	0.982824
245981	Rpl15	0.01202	0.47733734	0.666732
290224	Emc9	0.012016	0.88350463	0.946523
315957	Slc35g2	0.011932	0.82646087	0.912884
245966	Tmem150a	0.01193	0.83634994	0.918533
361111	Smim4	0.011912	0.94177618	0.983017
365410	Osbp	0.011896	0.66122925	0.80632
64670	Gabarapl2	0.01188	0.66653762	0.81051
292058	Gins2	0.011862	0.87965561	0.944206

79223	Gk	0.011786	0.75110456	0.867114
260416	Carhsp1	0.011785	0.66170712	0.806696
313819	Mast2	0.011774	0.63336074	0.789473
290206	Psmbl1	0.011759	0.94624386	0.985628
170844	Taf2	0.011695	0.76478154	0.876317
298836	Snx17	0.011684	0.71680897	0.845145
100909704	LOC100909704	0.011682	0.9870588	1
310074	Depdclb	0.011682	0.94217332	0.983243
364648	Shcbp1	0.011682	0.94217332	0.983243
315676	Dmxl2	0.011659	0.48683308	0.674946
64205	Rplp0	0.011595	0.31010511	0.505214
498703	Fam193b	0.011556	0.75914788	0.872697
302661	Ofd1	0.011555	0.85961761	0.931358
300994	Ifrd2	0.011553	0.90040053	0.957034
362819	Sarnp	0.011514	0.72470055	0.84961
303183	Snap47	0.011502	0.81088104	0.904488
303684	Trim65	0.0115	0.86194807	0.932451
83626	Ugcg	0.011484	0.65180574	0.803108
84019	Nae1	0.011474	0.7800968	0.885501
84508	Rnf103	0.011466	0.72403775	0.849095
679140	Exosc1	0.011402	0.86014563	0.931612
302559	Wdr45	0.011395	0.82010374	0.909237
66028	Arl6ip5	0.011394	0.71384851	0.843168
100145871	Adh5	0.011358	0.70894867	0.84009
171048	Tspan8	0.011348	0.43920252	0.632581
310159	Drosha	0.011325	0.65820718	0.804231
313101	Fbxl4	0.011319	0.80371047	0.89981
83721	Dvl1	0.011317	0.72282035	0.848451
64625	Bid	0.011299	0.71983431	0.846772
290744	Ing2	0.011296	0.87262673	0.939892
362856	Pwp1	0.01127	0.84966542	0.925578
100362441	Gpr82	0.011265	0.98104664	1
108350028	LOC108350028	0.011259	0.93931487	0.981685
362235	Syndig1	0.011238	0.90134124	0.957659
362657	Mthfr	0.011191	0.77124376	0.880174
314903	Srgap1	0.011187	0.69071279	0.828899
114124	Akap1	0.011138	0.80476799	0.900676
362320	Fam133b	0.011128	0.81298114	0.905399
362762	Dcaf4	0.011089	0.86145711	0.932344
362606	Sync	0.011089	0.67417263	0.816874
293694	Map4k2	0.011067	0.75017304	0.866354
287592	Tubd1	0.011066	0.92223491	0.970546
56011	Ywhab	0.011055	0.16680574	0.330436
362161	Rapsn	0.011033	0.9198809	0.968979
54252	Mid1	0.011019	0.83110497	0.915412
361985	LOC361985	0.011006	0.71222637	0.842088
100362572	Mpv171	0.011002	0.81875247	0.908903
297768	Lactb2	0.010995	0.79038127	0.891807
287441	Zbtb4	0.01098	0.55218697	0.732391
365841	Slc25a44	0.010977	0.80217901	0.898676
29210	Epha3	0.010961	0.94342409	0.984036
365797	Ufm1	0.010953	0.75711369	0.871095
310526	Golim4	0.010899	0.65057663	0.802476
295674	Plekha3	0.010849	0.79872203	0.896808
311384	Sema6d	0.010785	0.66682255	0.81065
498704	Prr7	0.010767	0.88532101	0.947723

303676	Slc25a19	0.010767	0.87844912	0.943708
301544	Farsb	0.010752	0.71406686	0.843165
361988	Ints3	0.01074	0.73532879	0.857373
364382	Prmt5	0.010716	0.7468721	0.864166
691947	Eif3j	0.010711	0.67262833	0.815677
288595	Nsun5	0.010708	0.86305783	0.933016
300659	Rnf26	0.010704	0.79293658	0.893314
315994	Mapkapk3	0.010692	0.85227891	0.927152
314300	Riox1	0.010665	0.90257751	0.958011
691318	Ppp2r5c	0.010654	0.53994549	0.721886
246042	Nifk	0.010637	0.77205063	0.880725
288305	Cct8	0.010635	0.48774453	0.67562
680616	Ppp1r16b	0.010633	0.75530501	0.869802
297523	Vgll4	0.010632	0.77208604	0.880713
100910486	LOC100910486	0.010613	0.9862793	1
103694868	LOC103694868	0.010613	0.9862793	1
287707	Nkiras2	0.010608	0.8332052	0.916348
83806	Psm1	0.010594	0.45768823	0.648948
360800	Sumf2	0.010584	0.90329989	0.95787
300472	Vps26b	0.010553	0.68281236	0.823361
360426	Pla2g6	0.010542	0.71086711	0.841369
294862	6-Mar	0.010526	0.52601118	0.709783
499587	Slc7a14	0.010523	0.84302522	0.921877
304580	Ssh1	0.010506	0.80080866	0.897986
24516	Jun	0.010465	0.68363809	0.824044
100363310	Cystm1	0.010447	0.68824242	0.827185
686393	Pradcl	0.010445	0.91862279	0.967974
309510	Cpeb3	0.010426	0.65056727	0.802517
58963	Htr3b	0.010417	0.60807967	0.769903
291925	RGD1308706	0.010417	0.85352558	0.927608
497983	Fam117a	0.010411	0.85355231	0.927584
312616	Trnt1	0.01035	0.80019477	0.897668
286898	Npc2	0.010325	0.62619439	0.783772
300463	Herpud2	0.010307	0.80202332	0.898608
305577	Ahsa2	0.010305	0.79797953	0.896292
161477	Rps13	0.010275	0.69282712	0.83039
282712	Slc6a15	0.01026	0.58582933	0.751726
304884	Tor3a	0.010257	0.84673189	0.923386
246255	Ppp2r2d	0.010231	0.75636489	0.870601
498591	RGD1559804	0.010227	0.99217308	1
313548	Zfp691	0.010227	0.90436846	0.958256
29669	Psm2	0.010184	0.64213938	0.796039
301543	Sgpp2	0.010179	0.62077316	0.778726
685879	Jazf1	0.01016	0.85468822	0.928288
683927	Cstf2	0.01015	0.7760433	0.883111
116647	Nlgn1	0.010141	0.84410857	0.922321
100909844	LOC100909844	0.010135	0.98439228	1
296762	Phtf2	0.010126	0.82691462	0.913015
108348120	LOC108348120	0.010098	0.87269189	0.939909
29539	Aldh2	0.010091	0.6871297	0.826474
300849	Fbxo9	0.010084	0.74050459	0.860668
291541	Cidea	0.010035	0.94503093	0.985011
64373	Rhob	0.010005	0.59361774	0.758399
60334	Ensa	0.009995	0.62976578	0.786794
363187	Mrps10	0.009954	0.87778454	0.943314
287054	Mettl22	0.009952	0.84578013	0.922982

100365259	LOC100365259	0.009939	0.87784043	0.943321
363235	Als2	0.009922	0.79030957	0.891779
294320	Glo1	0.009912	0.65623101	0.80295
291794	Snrpd1	0.009905	0.81984827	0.909113
63881	Rapgef1	0.009865	0.72078414	0.847209
362548	Itgb3bp	0.009835	0.89182672	0.951638
365590	Zbtb24	0.009814	0.89081011	0.951086
296599	Cacfd1	0.009811	0.84798494	0.924276
311569	Acss2	0.009798	0.64986036	0.802216
684055	Urad	0.009783	0.99454255	1
289724	Nop14	0.009714	0.82912126	0.914391
29332	Stmn1	0.009706	0.51275387	0.698426
296969	Slc35b4	0.009675	0.75474769	0.869633
363273	Cops7b	0.009646	0.84417205	0.922337
84392	Kif3a	0.009645	0.53003964	0.712493
116698	Trim28	0.00964	0.70459587	0.837747
117543	Decr1	0.009617	0.85713413	0.929884
117180	Csdel	0.009608	0.55389379	0.733735
361030	Tmem260	0.009589	0.79921367	0.896884
287710	Cavin1	0.009557	0.71931674	0.846582
113922	Selenof	0.009555	0.56174586	0.733172
289318	Tmem63a	0.009482	0.90658452	0.960017
64053	Dlg2	0.009457	0.68877865	0.827673
689560	Ryr2	0.009446	0.71240854	0.842199
364678	Sfxn1	0.009444	0.70634552	0.839303
689820	Kmt5a	0.009432	0.64353211	0.797195
303514	Msl1	0.00943	0.68903255	0.827613
300158	Kif21a	0.009425	0.32236116	0.517653
64638	Rpl28	0.009394	0.62646754	0.783959
313861	Eml4	0.009372	0.78718019	0.889671
287532	Slc43a2	0.009355	0.78084324	0.885926
287927	Ube2v2	0.009322	0.69427814	0.831501
29671	Psma4	0.009307	0.69018119	0.828418
103691034	Peg3	0.009305	0.42694056	0.622023
315776	Tln2	0.00927	0.57890684	0.746465
619573	Fam104a	0.009269	0.76886246	0.878456
360496	Ciao3	0.009261	0.86910971	0.937961
362902	Dcaf13	0.009253	0.85876312	0.930697
288526	Akap17a	0.009246	0.79452839	0.893733
497874	RGD1565784	0.009236	0.85883877	0.930673
361174	Alg11	0.009235	0.71880589	0.846242
313409	Dnajc6	0.009197	0.59702353	0.760658
310672	Tars2	0.009196	0.80165656	0.898461
316328	Kansl3	0.009194	0.73712357	0.857733
304714	Rrn3	0.009166	0.76907147	0.87859
619345	Surf2	0.009149	0.85627167	0.929478
305408	Adgra3	0.009137	0.88089283	0.945161
102548503	LOC102548503	0.009122	0.92899594	0.974484
117088	Adarb2	0.009114	0.9393774	0.981697
362750	At11	0.00908	0.51660038	0.701708
360497	Wdr24	0.009073	0.8499755	0.92581
25136	Gfra2	0.009069	0.69877929	0.834792
108350443	Inafm2	0.00904	0.88125512	0.945177
25435	Eef2k	0.009011	0.80279802	0.899158
298867	Klh129	0.00897	0.84150598	0.920903
245956	Scn3b	0.008951	0.70831424	0.839652

305888	Zfhx2	0.008947	0.78990864	0.891538
288701	Srsf9	0.008934	0.90819364	0.961186
24849	Tpil	0.00893	0.47414367	0.664415
503018	Wdr35	0.008912	0.85073585	0.926214
315554	Pus3	0.008905	0.89416656	0.95312
362769	Dglucy	0.008855	0.90484896	0.958552
303068	Adam19	0.008839	0.59367484	0.758319
81672	Grm7	0.008835	0.82687054	0.913019
100909827	Kbtbd7	0.00883	0.88204204	0.945754
361375	Heatr3	0.008791	0.86997386	0.938574
313928	Efr3b	0.008784	0.69093105	0.829056
690043	Rnf168	0.008771	0.8608892	0.932047
363002	Smarcd1	0.008759	0.76157098	0.874005
116646	Tpt1	0.008743	0.35652854	0.55357
293960	Zfand5	0.008715	0.63678587	0.791515
679898	Zmat2	0.008708	0.76751495	0.877759
307070	Larp4b	0.008694	0.70002424	0.835545
102557190	LOC102557190	0.008673	0.98100679	1
364137	Tmem165	0.008669	0.82667355	0.91296
108350349	LOC108350349	0.00863	0.92570334	0.972369
499071	Ccdc106	0.008618	0.92573191	0.972345
29307	Gpr182	0.008618	0.94744661	0.986665
361296	Rnf125	0.008613	0.88284345	0.946507
100909598	Pigbos1	0.008602	0.94058524	0.98242
29705	Gabra1	0.0086	0.75204575	0.867622
296320	Ctnnb11	0.008597	0.84335121	0.922075
312477	Dok1	0.008594	0.94748682	0.986652
498183	Mapkapk5	0.008589	0.84339052	0.922065
54283	Pfkfb4	0.00857	0.88300297	0.946465
300120	Fam118a	0.008565	0.88302053	0.946431
360831	Abhd11	0.008564	0.89209711	0.951873
100362324	Dhx29	0.008555	0.82729182	0.913061
100909597	LOC100909597	0.008535	0.88289752	0.946512
690085	Bcl7a	0.008415	0.85303638	0.927658
308568	Fv1	0.008371	0.83991065	0.920109
367242	Rab23	0.008358	0.81763876	0.908408
313867	Lrpprc	0.008348	0.6800582	0.821392
140929	Pde7b	0.008311	0.89382637	0.953078
301575	Itm2c	0.008268	0.43074701	0.625034
363077	Dis3l	0.00825	0.85378722	0.927786
287871	Rptor	0.00824	0.77646623	0.883276
500219	Lrrtm4	0.008232	0.91019992	0.962561
116643	Vcp	0.008204	0.38125328	0.578103
299121	Actr10	0.008146	0.70428529	0.837639
499314	Tut1	0.008143	0.89666548	0.954715
500367	Klhl42	0.008134	0.87365169	0.94073
362031	Alg14	0.008121	0.86367655	0.93342
299971	Atp6v1c1	0.008079	0.67445016	0.817158
360950	Wdr1	0.008016	0.60762665	0.769841
362237	Tbcd20	0.00797	0.83036713	0.915288
681059	Vps25	0.007962	0.75678623	0.870876
291691	Brd8	0.007943	0.8382806	0.919328
117095	Bhlhe41	0.007904	0.81621013	0.907615
363236	Fam117b	0.007883	0.76252448	0.874678
24400	Gnb1	0.007867	0.32236477	0.517615
100363225	LOC100363225	0.007807	0.939382	0.981648

294318	Btbd9	0.00777	0.83912135	0.919668
24626	Pde4b	0.007717	0.91160036	0.963507
498154	LOC498154	0.007609	0.92800575	0.973982
688885	Nol11	0.007573	0.86600081	0.935401
294698	Slc30a5	0.007539	0.85688884	0.92983
259274	Nmt1	0.007537	0.77015375	0.879351
363836	Ube213	0.007454	0.6164765	0.775994
288236	Psmg1	0.007431	0.85733288	0.929994
361600	Tm6sf1	0.007419	0.75028553	0.866431
85238	Synj1	0.00741	0.59244772	0.757463
314325	Gpatch21	0.007408	0.89437128	0.953232
295443	Papss1	0.007402	0.71524389	0.844293
140726	Cacng5	0.007398	0.86658468	0.935872
498559	CommD6	0.007371	0.85766487	0.930089
361695	Tmem134	0.00737	0.87649901	0.942517
298410	Cmpk1	0.007368	0.72390251	0.849041
102548541	LOC102548541	0.007341	0.93999715	0.982021
100911235	Med7	0.00731	0.91264591	0.964237
108348257	LOC108348257	0.007299	0.9768527	1
29140	Snn	0.007267	0.73948707	0.859853
64631	Ube2g1	0.007254	0.81295888	0.905427
366017	Exosc2	0.007244	0.92876026	0.974398
304488	Pptc7	0.007228	0.77883752	0.884494
303823	Map3k13	0.007214	0.89388003	0.953028
299188	Zfyve1	0.007153	0.84194308	0.92117
50663	Calm2	0.007147	0.48431454	0.672483
266709	Pkig	0.007138	0.82715456	0.913121
100912259	LOC100912259	0.007121	0.94590166	0.985379
309060	Fam53b	0.007114	0.85011672	0.925858
689116	Ncbp2	0.007106	0.85280552	0.927513
368002	Baz1b	0.007071	0.82054045	0.909562
310158	RGD1306502	0.007051	0.84552029	0.922804
26954	Rheb	0.007049	0.71386628	0.843137
294948	Armc1	0.007044	0.82066671	0.909649
81513	Lig1	0.007024	0.88926423	0.950342
287119	Zfp598	0.007	0.8590263	0.930824
373542	Stk25	0.006981	0.74674991	0.86413
29653	Gpam	0.006951	0.67055654	0.814046
102547219	Mosmo	0.00692	0.91371441	0.96467
290637	Colgalt1	0.006912	0.8212853	0.909859
366492	Epha2	0.006857	0.95011717	0.988041
64474	Hdlbp	0.006845	0.47908083	0.6676
117560	Klf9	0.006821	0.83570262	0.91814
25456	GlrB	0.006802	0.69489643	0.831927
690183	LOC690183	0.006793	0.89887483	0.955892
29532	Ighmbp2	0.006779	0.86879161	0.93783
500117	Ccdc126	0.006711	0.86005995	0.931626
24248	Cat	0.006692	0.73692427	0.857711
103690054	LOC103690054	0.00668	0.93604107	0.979339
25374	Alad	0.006668	0.90089565	0.9574
690349	RGD1597339	0.006651	0.92986009	0.975122
103689984	Tbc1d12	0.006573	0.93104429	0.975665
117582	Tmem158	0.006564	0.86054463	0.931886
298906	Pqlc3	0.006564	0.78658385	0.889261
360461	Fopn1	0.006501	0.86965448	0.938389
688590	Rundc3b	0.006485	0.88973621	0.950526

307527	Sap130	0.006447	0.86980863	0.938502
303281	Supt6h	0.006424	0.71828856	0.846104
360853	Uchl5	0.006416	0.88990076	0.950595
301513	Cnot9	0.006409	0.8899188	0.950508
307380	Piezo2	0.0064	0.56369278	0.734958
362021	Gpsm2	0.006399	0.87951376	0.944266
300029	Top1mt	0.006393	0.93026991	0.975444
297685	Ddx47	0.006382	0.86998749	0.938536
311462	Btbd3	0.006377	0.76766198	0.877822
102551660	Eml3	0.006372	0.87958154	0.944286
64473	Bpnt1	0.006372	0.78746469	0.889781
293448	Uqcrc2	0.006366	0.72958604	0.852661
288654	Mphosph9	0.006341	0.95071515	0.988231
303584	Plekhm1	0.006318	0.90166328	0.957788
362738	Snx6	0.006262	0.79345265	0.893314
361662	Bub3	0.006204	0.89036847	0.950775
24627	Pde4d	0.006199	0.84545837	0.92279
317235	Zdhhc15	0.006195	0.8380285	0.919211
299810	Yeats4	0.006182	0.90192096	0.957848
360584	Ggnbp2	0.006155	0.80540635	0.900597
79449	Rpl21	0.0061	0.68889713	0.827606
687750	Fam102a	0.006083	0.83126379	0.915481
24684	Prlr	0.006058	0.97699379	1
25612	Asns	0.00602	0.81418215	0.906471
246760	Mafk	0.006019	0.90219319	0.957763
192247	Sez6	0.005992	0.88041162	0.944804
287446	Elp5	0.005966	0.91531304	0.965395
303831	Eif4a2	0.005965	0.53310647	0.715152
100366044	LOC100366044	0.005953	0.78864712	0.890536
291340	Spag61	0.005947	0.98704369	1
287466	Wscd1	0.005947	0.96469709	0.998405
24703	Raf1	0.005902	0.82496029	0.91165
24822	Tmbim6	0.005898	0.71283291	0.842491
64124	Adgrl4	0.005885	0.93088861	0.975663
499883	Gabpb1	0.005821	0.92840824	0.974243
24420	Gspt1	0.005817	0.83546152	0.918193
366227	Apmap	0.005798	0.89104596	0.951125
299730	Nedd1	0.005786	0.95115962	0.988316
308126	Zbtb2	0.00576	0.95117355	0.988276
295284	Rbm8a	0.005756	0.88077469	0.945087
313648	Ddost	0.005747	0.81879643	0.908899
362293	Dnajb6	0.005739	0.84304209	0.921843
311355	Ppip5k1	0.00562	0.88091726	0.945134
116470	Stx1a	0.005546	0.90269236	0.957919
64516	Vps45	0.005534	0.88097685	0.945038
502228	Tmem181	0.005524	0.86273958	0.932883
303193	Alkbh5	0.005506	0.93112025	0.975637
310665	Mindy1	0.005454	0.90272477	0.957793
292008	Txn14b	0.005453	0.90272505	0.95774
681370	Bricd5	0.005441	0.98805753	1
305968	Hmbox1	0.005426	0.66036508	0.805628
360698	Tmem50b	0.005401	0.80107461	0.898073
502872	Jagn1	0.005394	0.90273213	0.957695
310071	Ercc8	0.005364	0.91571084	0.965708
296380	Arfgef2	0.005352	0.80107093	0.898122
116552	Plod1	0.005313	0.84675926	0.923363

360921	Rufy3	0.005301	0.60652071	0.768798
295230	Cct3	0.005294	0.78992495	0.891503
305152	Aff1	0.005279	0.90344097	0.95786
287042	Nubp1	0.005239	0.9188179	0.968073
85332	Cavin3	0.005237	0.83228778	0.915762
306274	Ercc6	0.005237	0.92346217	0.971247
171150	Cdk7	0.005236	0.9311076	0.975678
29676	Psmb3	0.005211	0.81904398	0.909015
361374	Brd7	0.005199	0.88094189	0.945107
313278	Ptprd	0.005195	0.90266599	0.957998
312083	Vps50	0.005193	0.81775557	0.908485
361607	Emsy	0.005102	0.90591076	0.959517
79428	Luzp1	0.005086	0.83911647	0.919715
24267	Comt	0.005083	0.81630098	0.907663
50662	Runx1	0.005072	0.9005067	0.957093
691889	Atp8a2	0.005002	0.58413914	0.750417
365699	Nadk2	0.004994	0.93092319	0.975592
307128	Frmd4a	0.004982	0.91543231	0.965467
367865	RGD1560821	0.004958	0.93244682	0.976705
303580	Hexim2	0.004932	0.94915026	0.987575
83467	Slit3	0.004909	0.93080933	0.975634
309326	Ranbp6	0.004899	0.84601607	0.923187
171115	Pde5a	0.004845	0.9307028	0.975576
25037	Mobp	0.00482	0.98527226	1
500573	Tmco4	0.00481	0.95092267	0.988285
316233	Tjap1	0.004757	0.9149653	0.965242
295283	Ankrd34a	0.004741	0.96486671	0.998527
25349	Scn2b	0.004722	0.87834742	0.943706
498394	Msantd1	0.004706	0.97742349	1
60665	Cxcl6	0.004697	0.98292702	1
29218	Rcn2	0.004695	0.87015876	0.938561
108351838	LOC108351838	0.004693	0.9930286	1
303353	Psm11	0.004636	0.83727279	0.919123
102556298	LOC102556298	0.004631	0.96649433	0.999342
362595	Oscpl	0.004614	0.93032569	0.975449
65049	Megf6	0.004613	0.961389	0.996444
362205	Shf	0.004585	0.91439907	0.964912
296159	Vps16	0.004554	0.90107356	0.957482
311039	Galnt13	0.004545	0.90102693	0.957486
54259	Inpp5d	0.00453	0.9141682	0.964882
305848	Zfp219	0.004511	0.88075222	0.945116
116693	Cyth3	0.004511	0.86267735	0.932922
140670	Ap2b1	0.004444	0.6953829	0.832196
288925	Wdr83os	0.004406	0.91354921	0.964603
108348241	LOC108348241	0.004394	0.9858451	1
311730	Gpr155	0.004385	0.90010443	0.956826
24922	Gabbr3	0.004382	0.91753641	0.967258
362219	Gpcpd1	0.004381	0.86806685	0.937207
301509	Tns1	0.004366	0.67334422	0.816337
306011	Piwil2	0.004353	0.94984136	0.987916
362015	Ampd2	0.004328	0.91308129	0.96443
362844	Brd4	0.004327	0.84677206	0.923324
364032	Pigc	0.004304	0.92885611	0.974444
50560	Ip6k1	0.004303	0.82684881	0.913048
29562	Prps1	0.004279	0.87070121	0.938934
292328	RGD1562747	0.004278	0.92870547	0.974394

313604	Zmyml	0.004276	0.94496995	0.985055
170714	Dynlrb1	0.004271	0.76649595	0.877384
29582	Mgat3	0.004266	0.83363232	0.916659
295027	Pcdh18	0.004242	0.94940169	0.987674
296512	Fmn1	0.004179	0.91300238	0.964453
299159	Atp6v1d	0.004137	0.83162639	0.915351
297566	Atp6v1e1	0.004126	0.79129238	0.892201
300266	Cbx5	0.004121	0.94880475	0.987485
29364	Cd47	0.0041	0.82364464	0.911147
83615	Atp6ap1	0.004092	0.77884718	0.884452
293700	Trmt112	0.004091	0.90271958	0.957841
290558	Nt5dc2	0.004042	0.94532937	0.98516
361191	Nsun2	0.00403	0.89673148	0.954626
362274	Ddx27	0.004027	0.92398785	0.971371
362162	Arfgap2	0.004005	0.9112718	0.96332
301742	Copg2	0.003983	0.85347376	0.92771
292028	Kars	0.003951	0.87235729	0.939868
498678	Ccdc71	0.003949	0.92371356	0.971189
364136	Aasdh	0.003942	0.94763636	0.9867
691966	Sqor	0.003927	0.94752	0.986633
298792	Ypel5	0.003922	0.82706211	0.913072
361244	RGD1307443	0.003895	0.83428852	0.917221
314675	Btbd11	0.003884	0.92533849	0.972093
690294	Tmem169	0.003875	0.94709228	0.986349
689688	Atg2a	0.00385	0.89396009	0.953007
309451	Gbf1	0.003849	0.84148821	0.92099
294307	Kctd20	0.003827	0.9220155	0.970476
361088	Rnf219	0.003823	0.94660829	0.985899
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312915	Arfgef1	0.003788	0.83975312	0.920095
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362665	Camta1	0.003641	0.83306422	0.916298
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364634	Csmd1	0.003614	0.90334478	0.957811
311429	Spef1	0.003599	0.93776822	0.980715
363254	Atg9a	0.003558	0.87345182	0.940568
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361413	Nudt7	0.003506	0.94227887	0.983164
305645	Dlg5	0.0035	0.9182929	0.967788
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678769	Atg4a	0.003468	0.94152295	0.982968
307480	Dele1	0.003447	0.89761024	0.955134
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316108	Snupn	0.003365	0.96342081	0.997464
59101	P3h4	0.003362	0.95950433	0.994869
500037	Foxp2	0.00336	0.97480645	1
312728	Tspan9	0.003356	0.9135786	0.964581
25541	Scp2	0.003355	0.85077004	0.926198
25183	Gdi1	0.003353	0.71690464	0.845153
678893	Susd6	0.003353	0.86935847	0.938123

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690073	Nbas	0.003117	0.92894397	0.974483
362399	Zxdc	0.003101	0.95440442	0.990876
305502	Tmed4	0.003097	0.92771864	0.973841
360642	Kansl1	0.003072	0.92594731	0.972464
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24917	Kpnb1	0.002977	0.88302957	0.946387
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686779	Caprin2	0.002944	0.91287759	0.964375
25701	Mxl1	0.002944	0.91285254	0.964402
304962	Atf6	0.002819	0.90267258	0.957952
290986	Agtpbp1	0.002796	0.81834954	0.908721
501065	Cmtm7	0.00275	0.97034809	1
361751	Rnls	0.002746	0.98222602	1
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108348079	LOC108348079	0.002693	0.99250706	1
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108348288	LOC108348288	0.002693	0.99894673	1
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114629	Slc26a3	0.002693	0.99442666	1
114858	Shc3	0.002693	0.98676118	1
116475	Ift172	0.002693	0.94364908	0.984217
117033	Mmp12	0.002693	0.99851045	1
117034	Ptf1a	0.002693	0.99540892	1
170580	Fgf21	0.002693	0.99505975	1
171075	Fcer2	0.002693	0.99702091	1
171158	Gpha2	0.002693	0.99505975	1
171304	Kif11	0.002693	0.98113082	1
191570	Serpina12	0.002693	0.99894673	1
192273	Slc22a25	0.002693	0.99742003	1
24221	Avp	0.002693	0.99764482	1
24271	Cpb1	0.002693	0.99851045	1
24297	Cyp1a2	0.002693	0.99851045	1
24335	Epo	0.002693	0.99894673	1
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24385	Gck	0.002693	0.99702091	1
24495	Ii3	0.002693	0.99894673	1
24572	Muc2	0.002693	0.99350727	1
245917	Sycn	0.002693	0.99894673	1
245926	Scaf8	0.002693	0.93758103	0.980573
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246149	Gbx1	0.002693	0.99494872	1
246271	Fev	0.002693	0.99721331	1
24641	Flg	0.002693	0.99666927	1
24841	Klklc2	0.002693	0.99817568	1
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25128	Umod	0.002693	0.99894673	1
25251	Cyp2g1	0.002693	0.99721331	1
25471	Kcne1	0.002693	0.99894673	1
25571	Ttpa	0.002693	0.99285646	1
25642	Cyp3a23/3a1	0.002693	0.99851045	1
25649	Apoa2	0.002693	0.99764482	1
25653	Tshb	0.002693	0.99721331	1
25727	Mep1b	0.002693	0.99851045	1
25730	Ntf4	0.002693	0.99817568	1
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287610	Lpo	0.002693	0.99894673	1
287700	Krt15	0.002693	0.99894673	1
287974	Klhl6	0.002693	0.98684523	1
288001	Kng1	0.002693	0.99789346	1
288588	Polr2j	0.002693	0.95557241	0.991818
288597	Fkbp6	0.002693	0.99851045	1
289035	LOC289035	0.002693	0.99817568	1
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291929	Olr1666	0.002693	0.99894673	1
291944	Ttc29	0.002693	0.99317411	1
292172	Eya4	0.002693	0.98925902	1
29221	Arg1	0.002693	0.98518	1
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292701	Ceacam20	0.002693	0.99894673	1
292757	Fbxo17	0.002693	0.99635137	1
29277	Cyp2c11	0.002693	0.99894673	1
292809	Wdr88	0.002693	0.99851045	1
293130	Ndufc2	0.002693	0.9276507	0.973824
293309	Olr163	0.002693	0.99894673	1
293568	Nkx1-2	0.002693	0.99894673	1
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293634	Tmem171	0.002693	0.99650671	1
293703	Nudt22	0.002693	0.97164564	1
293731	Scgbld4	0.002693	0.99894673	1
293812	Olr379	0.002693	0.99894673	1
293937	Pkd211	0.002693	0.99620239	1
294075	Ffar4	0.002693	0.99764482	1
294166	Olr1708	0.002693	0.99894673	1
294187	Olr1730	0.002693	0.99764482	1
294198	Olr1744	0.002693	0.99721331	1
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297576	Dppa3	0.002693	0.99702091	1
297960	Rragd	0.002693	0.97624055	1
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299152	Tex21	0.002693	0.99528966	1
299265	RGD1309028	0.002693	0.99894673	1
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302954	Olr1356	0.002693	0.99894673	1
303330	Tmem97	0.002693	0.96144423	0.996447
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305606	Mtif2	0.002693	0.96935374	1
305841	Olr1637	0.002693	0.99789346	1
305846	Slc39a2	0.002693	0.99894673	1
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307920	Pabpn11	0.002693	0.99894673	1
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308831	Tenm4	0.002693	0.95578474	0.991985
309201	Rom1	0.002693	0.97106519	1
311325	Knstrn	0.002693	0.99023261	1
311399	Usp50	0.002693	0.99553137	1
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314406	Serpinalf	0.002693	0.99851045	1
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361584	Siglech	0.002693	0.99764482	1
361757	Opalin	0.002693	0.99742003	1
362319	Tmbim7	0.002693	0.99702091	1
362580	Ccdc30	0.002693	0.98855893	1
362653	Ctrc	0.002693	0.99635137	1
362858	Polr3b	0.002693	0.95072898	0.988192
363060	Plet1	0.002693	0.99817568	1
363270	Spata3	0.002693	0.99817568	1
363274	Prss56	0.002693	0.99894673	1
363453	Ppplr3f	0.002693	0.98667766	1
363483	Dmrtc1c1	0.002693	0.99894673	1
363627	Rnf222	0.002693	0.99894673	1
363991	Asc15	0.002693	0.99851045	1
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364152	Phox2b	0.002693	0.99851045	1
364301	Rnase9	0.002693	0.99817568	1
364303	Rnase111	0.002693	0.99851045	1
364707	Foxf2	0.002693	0.99462939	1
365217	Cnfn	0.002693	0.99817568	1
365280	Pgpep11	0.002693	0.9968402	1
365322	Olr43	0.002693	0.99894673	1
365333	Olr154	0.002693	0.99851045	1
365394	Cabp4	0.002693	0.98875451	1
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365900	Alx3	0.002693	0.99894673	1
366089	RGD1564319	0.002693	0.99894673	1
366116	Olr729	0.002693	0.99894673	1
366836	Ephx3	0.002693	0.9968402	1
366891	Caps2	0.002693	0.99817568	1
367086	Sln	0.002693	0.99817568	1
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405152	Olr1192	0.002693	0.99894673	1

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405997	Olr1530	0.002693	0.99925523	0.99957
405999	Olr1532	0.002693	0.99925523	0.99957
406227	Krt72	0.002693	0.99851045	1
407757	Krt76	0.002693	0.99592072	1
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408218	Capn11	0.002693	0.99851045	1
408227	Wfdc12	0.002693	0.99894673	1
408241	Prss57	0.002693	0.99789346	1
445583	Reg4	0.002693	0.99894673	1
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494211	Ly49i5	0.002693	0.99894673	1
494244	Bin2a	0.002693	0.99721331	1
494250	Vomlr85	0.002693	0.99894673	1
494259	Vomlr7	0.002693	0.99894673	1
497196	NMS	0.002693	0.99764482	1
497862	RGD1564086	0.002693	0.99789346	1
497913	Gjc2	0.002693	0.99046245	1
497938	LOC497938	0.002693	0.99894673	1
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498129	Tex45	0.002693	0.99894673	1
498230	Golt1a	0.002693	0.99666927	1
498236	LOC498236	0.002693	0.99789346	1
498251	Apobec4	0.002693	0.99894673	1
498339	LOC498339	0.002693	0.99894673	1
498423	Sertad2	0.002693	0.9411631	0.982754
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498699	RGD1562024	0.002693	0.99894673	1
498705	LOC498705	0.002693	0.99894673	1
498836	LOC498836	0.002693	0.99851045	1
498950	Marveld3	0.002693	0.99789346	1
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499152	Izumol	0.002693	0.9968402	1
499303	Kcnk7	0.002693	0.99317411	1
499657	S100a712	0.002693	0.99894673	1
499865	Tmco5a	0.002693	0.99894673	1
499925	Bpifb4	0.002693	0.99742003	1
499990	Tmem243	0.002693	0.97112271	1
500139	Itprid1	0.002693	0.99851045	1
500156	Atoh1	0.002693	0.99894673	1
500349	Gprc5d	0.002693	0.99742003	1
500366	Rep15	0.002693	0.99764482	1
500434	RGD1563056	0.002693	0.99226019	1
500449	Sit1	0.002693	0.99540892	1
500554	Fam229a	0.002693	0.99442666	1
500724	Lbhd2	0.002693	0.99894673	1
500938	RGD1563200	0.002693	0.99894673	1
500961	Glb113	0.002693	0.99817568	1
501049	Gpr62	0.002693	0.99473368	1
501050	Iqcf3	0.002693	0.99894673	1
501070	Dlec1	0.002693	0.99204811	1
502113	Spata31d1b	0.002693	0.99894673	1
502689	Tldc2	0.002693	0.99565727	1
502852	Cd207	0.002693	0.99894673	1
502946	Arid3c	0.002693	0.99721331	1

502970	Angpt13	0.002693	0.99894673	1
503435	Cldn34a	0.002693	0.99894673	1
541457	Dbx2	0.002693	0.99851045	1
55939	Apom	0.002693	0.99255236	1
56806	Adam2	0.002693	0.99894673	1
57395	Cltrn	0.002693	0.99894673	1
58975	Klrg1	0.002693	0.99851045	1
60432	Glp2r	0.002693	0.99894673	1
60566	Syt8	0.002693	0.9968402	1
60574	Prap1	0.002693	0.99817568	1
64027	Bspry	0.002693	0.98392358	1
64055	Guca2b	0.002693	0.99894673	1
641644	Defb25	0.002693	0.99817568	1
64186	Ascl1	0.002693	0.99894673	1
64349	Crybb3	0.002693	0.99817568	1
64549	Inhbc	0.002693	0.99851045	1
64680	Crhr2	0.002693	0.98875451	1
65241	Trnau1ap	0.002693	0.96948058	1
679247	Eef1akmt3	0.002693	0.99817568	1
679701	Barx2	0.002693	0.99764482	1
679932	Nxph2	0.002693	0.99851045	1
680697	Fcrl5	0.002693	0.99851045	1
680923	Pvrig	0.002693	0.99894673	1
681006	LOC681006	0.002693	0.99894673	1
681377	Rp1	0.002693	0.99894673	1
681398	Fam174b	0.002693	0.98427231	1
684972	Fam25a	0.002693	0.99894673	1
685080	Nipsnap3a	0.002693	0.99894673	1
685463	LOC685463	0.002693	0.99894673	1
685524	Frg2	0.002693	0.99894673	1
685767	LOC685767	0.002693	0.99894673	1
685940	Samd3	0.002693	0.99817568	1
687472	Wdr87	0.002693	0.99894673	1
689048	Fam187b	0.002693	0.99817568	1
689090	Khdc1	0.002693	0.99789346	1
689151	Ccdc87	0.002693	0.99666927	1
689717	Cpo	0.002693	0.99851045	1
689792	Skint8	0.002693	0.99894673	1
689869	Tas2r140	0.002693	0.99894673	1
689917	Gpr21	0.002693	0.99721331	1
689927	LOC689927	0.002693	0.99894673	1
690235	LOC690235	0.002693	0.99894673	1
690252	Cnih3	0.002693	0.99368044	1
690356	Vom2r37	0.002693	0.99851045	1
690415	LOC690415	0.002693	0.99894673	1
690504	Kpna7	0.002693	0.99894673	1
690544	Cby3	0.002693	0.99413569	1
690906	Lilrc2	0.002693	0.99592072	1
690953	Rdh8	0.002693	0.99894673	1
691044	LOC691044	0.002693	0.99894673	1
691438	Vom2r54	0.002693	0.99894673	1
691722	LOC691722	0.002693	0.99540892	1
691750	Tmem107	0.002693	0.98200319	1
691905	Pla2g4d	0.002693	0.99894673	1
691909	Ccdc189	0.002693	0.98962677	1
691970	LOC691970	0.002693	0.99851045	1

78951	Hspb3	0.002693	0.99385849	1
78969	Trib1	0.002693	0.9719009	1
81635	Adar	0.002693	0.91621898	0.966136
81673	Gtf2b	0.002693	0.94900733	0.987588
83784	Agxt2	0.002693	0.99894673	1
84349	Cd40lg	0.002693	0.99851045	1
84592	Cetn1	0.002693	0.99894673	1
84597	Fut9	0.002693	0.99764482	1
89833	Ftcd	0.002693	0.99620239	1
94199	Dpep1	0.002693	0.9968402	1
29228	Nfic	0.002685	0.87071938	0.9389
303194	Top3a	0.002583	0.97689771	1
361828	Specc11	0.002476	0.92121108	0.970004
363544	Cluap1	0.002447	0.95611379	0.992218
295234	Lamt2	0.002309	0.94473204	0.984969
100911865	LOC100911865	0.002307	0.99220861	1
108348166	NEWGENE_1309446	0.002272	0.98960327	1
25125	Stat3	0.002261	0.87537164	0.94173
84598	Jak1	0.002187	0.85814164	0.930183
24924	Ptn	0.002179	0.85808364	0.930173
117855	Sf1	0.002178	0.92205683	0.970465
361577	Kdelr1	0.002071	0.94489913	0.985035
302489	Hs6st2	0.002061	0.94562526	0.985307
299135	Dhrs7	0.002054	0.95615986	0.992212
678766	Rhou	0.002023	0.96238183	0.996822
291703	Ercc3	0.001982	0.95068923	0.988258
308023	Ssx2ip	0.001923	0.94158347	0.982977
114100	Sc5d	0.00188	0.89991142	0.956674
85267	Slc24a3	0.001852	0.95761141	0.993285
298681	Ssu72	0.00184	0.92761512	0.97384
314621	Stk11	0.00183	0.95314791	0.98968
294079	5-Mar	0.001773	0.94514875	0.98508
58924	Fut2	0.001762	0.99530342	1
289561	Polr2b	0.001731	0.95213062	0.989001
296488	Ola1	0.001714	0.92729027	0.97366
291295	Rbm17	0.001695	0.96436492	0.998279
79255	Atf4	0.001677	0.91819736	0.96774
170933	Syf2	0.0016	0.96785113	1
307657	Ogfod1	0.00159	0.97752002	1
116741	Pcdha4	0.001583	0.90928692	0.961916
301005	Impdh2	0.00157	0.96189587	0.996644
300947	Tfdp2	0.001566	0.96207628	0.996776
301440	Cdk15	0.001558	0.98182608	1
680737	Snrpf	0.001538	0.97875342	1
287552	Blmh	0.001537	0.96997084	1
365345	Cyb5r2	0.001515	0.97226098	1
305066	Prox1	0.001492	0.99649943	1
362188	Slc5a12	0.001492	0.99797894	1
303488	Hoxb3	0.00149	0.97951481	1
116674	Jdp2	0.001486	0.9799235	1
305977	Pnma2	0.001474	0.95214116	0.988958
362460	Golt1b	0.001473	0.98018935	1
117044	Rraga	0.001417	0.95073614	0.988145
29625	Crhbp	0.001388	0.99687608	1
361956	Rsrc1	0.001376	0.96914937	1
294007	Pprc1	0.001371	0.97495962	1

366984	Cers5	0.001362	0.96495011	0.998559
500921	Tmem117	0.001361	0.9649979	0.9985
362774	Serpina11	0.001309	0.98346709	1
293888	Plgrkt	0.001238	0.98475289	1
313477	Zfyve9	0.001167	0.96564336	0.998896
294972	Mccc1	0.001166	0.9859887	1
294276	Brd2	0.001142	0.96242278	0.99681
365872	Aph1a	0.001134	0.97664082	1
362894	R3hdm2	0.001134	0.95955983	0.994873
25639	Fkbpla	0.001125	0.91897542	0.968185
690586	Ankrd40	0.001106	0.94786098	0.98688
100360821	LOC100360821	0.001097	0.99871104	1
300075	Tomm22	0.001059	0.96988335	1
306765	Zfp346	0.001029	0.98323903	1
266803	Sostdc1	0.001014	0.97401398	1
288269	Cfap298	0.001012	0.98360894	1
288762	Mtm1	0.001005	0.98064149	1
361399	Edc4	9.65E-04	0.97820991	1
300320	L3mbt12	9.59E-04	0.97651929	1
313121	Map3k7	9.38E-04	0.9768456	1
680423	Aup1	8.37E-04	0.97584487	1
691631	Pacs2	8.35E-04	0.94989469	0.987917
294311	RGD735065	8.35E-04	0.9777294	1
100362333	LOC100362333	8.01E-04	0.99084672	1
288978	LOC288978	8.00E-04	0.99408134	1
360668	Sec1411	7.80E-04	0.96867722	1
310785	Wdr47	7.16E-04	0.97379739	1
64310	Arf1	7.03E-04	0.95619281	0.992192
305256	Grsf1	6.97E-04	0.97357653	1
117140	Hivep1	6.91E-04	0.98299562	1
304740	Clasp1	6.89E-04	0.96501128	0.998405
295051	Alg5	6.71E-04	0.99008271	1
288770	Naca	6.46E-04	0.97401686	1
362835	Reep6	6.45E-04	0.99061013	1
364081	Irf6	6.34E-04	0.98863776	1
288667	Fam216a	6.22E-04	0.98716172	1
289034	Tmem183a	5.65E-04	0.9818154	1
294400	Nus1	5.43E-04	0.98141459	1
680860	Eppk1	5.42E-04	0.99809889	1
114558	Becn1	5.25E-04	0.98235361	1
362849	2-Mar	5.12E-04	0.98216929	1
25709	Hmbs	4.95E-04	0.99141737	1
286927	Stk16	4.70E-04	0.99064653	1
361439	Abcb10	4.46E-04	0.99374821	1
314061	Uvssa	3.63E-04	0.9969842	1
315150	Adsl	3.54E-04	0.99285917	1
301250	Mrpl14	2.71E-04	0.99634705	1
287177	Ergic1	2.39E-04	0.99441226	1
306962	Hist1h2ac	2.36E-04	0.99961218	0.999665
100366237	Pfdn4	1.93E-04	0.99595561	1
361227	Tbcd7	1.89E-04	0.99660797	1
362061	Cryz	1.38E-04	0.99872127	1
367930	Rbm2	1.33E-04	0.9987645	1
282585	Mrfap1	1.28E-04	0.99221423	1
155423	Anxa7	1.27E-04	0.99502347	1
108348180	LOC108348180	1.17E-04	0.99707907	1

306628	Col4a2	1.11E-04	0.99454583	1
54304	Ssbp1	6.55E-05	0.99915162	0.999677
362824	Mfsd12	6.48E-05	0.9980304	1
100360533	Fam57a	3.09E-05	0.99950601	0.999611
301337	Plekhb2	1.73E-05	0.99884769	1
79463	Timm22	#####	0.99906029	0.999743
296076	Srp14	#####	0.99848193	1
315756	Dennd4a	#####	0.99831562	1
306198	Clybl	#####	0.99924976	0.999722
314553	Ptdss1	#####	0.99763028	1
292915	Sult2b1	#####	0.99945199	0.999609
362990	Zcrb1	#####	0.99806689	1
311786	Traf2	#####	0.99881122	1
361866	Hace1	#####	0.99804915	1
100910106	LOC100910106	#####	0.99915139	0.999729
113947	Maged2	#####	0.99566574	1
311359	Hypk	#####	0.9967709	1
364902	Epg5	#####	0.99703497	1
361923	Rpl2211	#####	0.99755317	1
289144	Cacybp	#####	0.993353	1
64198	Pmpcb	#####	0.9957458	1
108352515	LOC108352515	#####	0.99911438	0.999744
689712	Tmed11	#####	0.99982961	0.99983
304081	Clic6	#####	0.9976527	1
287642	Slc35b1	#####	0.99246808	1
171358	Camklg	#####	0.99724796	1
310664	Prune1	#####	0.99048685	1
362513	Shb	#####	0.99709439	1
300105	Tt1112	#####	0.99478903	1
29495	Dlg4	#####	0.98648854	1
24781	Slc4a3	#####	0.99115909	1
300149	Ncaph2	#####	0.98714961	1
301126	Safb2	#####	0.99042279	1
307235	Rbfa	#####	0.99330319	1
288333	Gbe1	#####	0.98825807	1
299809	Cct2	#####	0.97716458	1
29290	Adora1	#####	0.98873561	1
25149	Esr2	#####	0.99871676	1
108348201	LOC108348201	#####	0.99757966	1
500695	Snw1	#####	0.98967031	1
363091	Myzap	#####	0.99791534	1
117535	Chd4	#####	0.97339583	1
500956	LOC500956	#####	0.99135216	1
293856	Pdzd4	#####	0.99028316	1
308408	Gpr4	#####	0.99630415	1
29672	Psma5	#####	0.98464728	1
259273	Kcnq5	#####	0.98516292	1
290363	Rcbtb2	#####	0.99108185	1
81659	Gak	#####	0.9765901	1
25490	Nedd8	#####	0.97764737	1
289095	Nmnat2	#####	0.984051	1
114862	Cacnalh	#####	0.98053579	1
679203	Nelfcd	#####	0.98300235	1
171010	Ppp1r14c	#####	0.99088351	1
290555	Spcs1	#####	0.97583968	1
192218	Kat5	#####	0.97748867	1

498122	LOC498122	#####	0.99132311	1
679651	Tmem178b	#####	0.96814007	1
289353	Slc30a10	#####	0.98950263	1
309262	Nsdh1	#####	0.96597858	0.99908
117053	Rps15a	#####	0.96358179	0.997576
338475	Nrep	#####	0.97482733	1
311857	Gpr107	#####	0.97147778	1
311061	Itgb6	#####	0.98910344	1
363286	Traf3ip1	-0.00105	0.98860877	1
302327	Zfp711	-0.00106	0.99188089	1
24967	Psmb9	-0.0011	0.99162235	1
360762	Polr1d	-0.0011	0.98541483	1
363494	Gla	-0.00111	0.9707022	1
192356	Unc50	-0.00114	0.98062476	1
300257	Pfdn5	-0.00116	0.97222612	1
313511	Mob3c	-0.00118	0.99378731	1
100359982	Mpc2	-0.00119	0.97168029	1
100910418	LOC100910418	-0.00119	0.99689062	1
300803	Lactb	-0.00121	0.98717248	1
290939	Med10	-0.00126	0.97698497	1
366448	Uqcrh	-0.00127	0.95472345	0.991153
116721	Abcc5	-0.00129	0.93578371	0.979123
54290	Rgs10	-0.00137	0.94844158	0.987215
316687	Gin1	-0.00138	0.98561931	1
298609	Efhd2	-0.00139	0.97164274	1
108348192	LOC108348192	-0.0014	0.99039439	1
25671	Smad1	-0.00141	0.97534786	1
499417	Sumo3	-0.00142	0.95119933	0.988249
313022	Map3k6	-0.00143	0.9895123	1
298451	Atp6v0b	-0.00144	0.96673006	0.999423
682937	Wasf3	-0.00145	0.97201351	1
619574	Cybc1	-0.00146	0.96601631	0.999065
291849	Zfp319	-0.00148	0.9848135	1
679921	Vasn	-0.00149	0.98129669	1
25458	Gss	-0.00149	0.96937668	1
116723	Pip4k2a	-0.00151	0.9404284	0.98231
103690508	LOC103690508	-0.00151	0.99621506	1
364386	Rnf31	-0.00152	0.97545511	1
85262	Slc25a27	-0.00153	0.96878537	1
288256	Cryz11	-0.00153	0.9686561	1
406864	Clic1	-0.00156	0.95655433	0.992513
299507	Asnsd1	-0.00157	0.94958839	0.987761
498297	Cnst	-0.00159	0.93961536	0.981838
81733	Nell1	-0.00163	0.94790893	0.986876
361006	Cfap70	-0.00163	0.98834097	1
502525	Dnajc19	-0.00164	0.9763175	1
24919	Yy1	-0.00165	0.97126178	1
500941	Msantd4	-0.00167	0.95716363	0.992929
498675	LOC498675	-0.00168	0.99415228	1
304469	Rilpl1	-0.00171	0.97298356	1
64159	Sptan1	-0.00173	0.76988463	0.879149
117263	Psmc1	-0.00173	0.91200694	0.963776
298012	Rad23b	-0.00175	0.90308057	0.957904
81654	Dlat	-0.00178	0.94416847	0.984543
81770	Rpl37	-0.00179	0.9426417	0.983435
192209	Spdya	-0.0018	0.99088844	1

314751	Tmcc3	-0.0018	0.96209076	0.996683
102554639	LOC102554639	-0.00188	0.98524373	1
24675	Ppp3cb	-0.00195	0.9149975	0.965223
500226	Wdr54	-0.00196	0.95273824	0.989362
287537	Abr	-0.00197	0.90447733	0.958212
296648	Mapkap1	-0.00201	0.95432412	0.990847
100362819	LOC100362819	-0.00203	0.96331761	0.997411
499818	Ppp1r1c	-0.00207	0.85562339	0.928986
100360781	LOC100360781	-0.00209	0.99319175	1
25407	Cd59	-0.00215	0.81182401	0.90501
315338	Hoxc10	-0.00217	0.97074879	1
83799	Dpp7	-0.00218	0.93779373	0.980688
303293	Cyb5d2	-0.00223	0.97316296	1
691455	Calml4	-0.00225	0.96644687	0.999347
25682	Ppard	-0.00225	0.95671131	0.992622
79130	Dnajc5	-0.00225	0.88298183	0.946496
24565	Abcc1	-0.00225	0.9568903	0.992699
360481	Dnajc3	-0.00226	0.93608037	0.979326
83465	Celsr2	-0.00226	0.90721165	0.960361
171350	Pabpc1	-0.00228	0.88376885	0.946593
24672	Ppp2ca	-0.00231	0.87026633	0.938624
291963	Tmem208	-0.00232	0.96558102	0.998886
103693257	LOC103693257	-0.00233	0.98643747	1
103692170	LOC103692170	-0.00233	0.98454139	1
297380	Ccdc142	-0.00233	0.98454139	1
360514	Ublcp1	-0.00235	0.91500819	0.96518
365823	Fstl5	-0.00235	0.96890996	1
140945	Rtn3	-0.00236	0.67349473	0.816468
103693419	LOC103693419	-0.00238	0.98237993	1
292892	Irf3	-0.00241	0.94284837	0.983597
57302	Cnr2	-0.00243	0.9788177	1
56768	Pclo	-0.00245	0.93091924	0.975641
303901	Sema5b	-0.00249	0.98377092	1
286905	Cyp4f5	-0.00254	0.98312314	1
304284	Bri3	-0.00254	0.95059812	0.988217
362051	Lmo4	-0.00256	0.92419382	0.971533
362412	Rad18	-0.00256	0.97652413	1
688786	Pet100	-0.00258	0.94401215	0.984434
360916	Tmem150c	-0.00262	0.90927775	0.961959
59073	Lxn	-0.00263	0.84222074	0.921421
289740	Pes1	-0.00277	0.93181518	0.976258
315345	Copz1	-0.00283	0.89459307	0.953362
289443	Lrrc8c	-0.00283	0.9059163	0.959469
100911832	Rtl5	-0.00284	0.9456927	0.985323
140922	Txn11	-0.00287	0.87799185	0.94343
361618	Stim1	-0.00288	0.91703106	0.966779
140666	Rcan2	-0.00295	0.84141203	0.921012
314456	Tecpr2	-0.00297	0.92234556	0.970501
316313	Dst	-0.00299	0.65070446	0.80253
317377	Ccdc120	-0.00304	0.98112934	1
361436	Afg3l1	-0.00307	0.94974639	0.987871
293098	Tmem135	-0.00308	0.93981543	0.981939
289276	Adss	-0.0031	0.89218029	0.951909
305105	Fbxo28	-0.00311	0.94581087	0.985392
303470	Kat7	-0.00311	0.88846607	0.950022
688314	Cenpx	-0.00313	0.96665578	0.999401

171081	Csf2rb	-0.00314	0.98070976	1
81774	Rps11	-0.00316	0.86486858	0.93439
360867	Ccdc181	-0.00317	0.95238146	0.989045
102551311	LOC102551311	-0.00318	0.98357359	1
296624	Dolpp1	-0.0032	0.93807613	0.980821
499783	Garnl3	-0.00321	0.89822032	0.955463
287476	Zzef1	-0.00322	0.89094699	0.951073
25647	I17	-0.00323	0.98028209	1
102557071	LOC102557071	-0.00325	0.99114247	1
65183	Aldh3a2	-0.00327	0.87941649	0.944268
65274	Nup62	-0.00329	0.93925367	0.981675
25716	Syt1	-0.0033	0.83148967	0.915307
155205	Slc36a1	-0.00333	0.90390395	0.958084
89812	Pip4k2b	-0.00334	0.86678185	0.935926
306817	Dek	-0.00334	0.9362232	0.979422
498406	Mrps24	-0.00334	0.95485468	0.991236
688681	Tgfbr31	-0.00338	0.97962468	1
287830	Nup85	-0.00339	0.95915121	0.994666
303419	Cuedc1	-0.00343	0.945621	0.985356
171087	Mpc1	-0.00343	0.86405321	0.933615
363024	Slc44a2	-0.00345	0.82964208	0.914753
108350451	LOC108350451	-0.00346	0.99585726	1
304012	Trmt10c	-0.00346	0.94924947	0.987624
619581	Nicn1	-0.00347	0.88856051	0.949963
362845	Zfp870	-0.00347	0.96608252	0.999079
315037	Atmin	-0.00349	0.90968636	0.962231
306647	Champ1	-0.00351	0.92989337	0.975103
313482	Zygl1a	-0.00351	0.98286607	1
361635	Vps351	-0.00355	0.90821222	0.961153
171400	Elov15	-0.0036	0.77932799	0.884892
296612	Med27	-0.00366	0.93501092	0.978637
289521	Ankrd17	-0.00366	0.84006094	0.920168
299738	Vezt	-0.00367	0.85913862	0.930892
304663	Lyl1	-0.00368	0.97836633	1
311855	RGD1305178	-0.00368	0.8965314	0.954679
311847	Dolk	-0.0037	0.93484805	0.978574
56814	Slc24a1	-0.0037	0.98219331	1
25249	Coq7	-0.00378	0.96178412	0.996582
362600	Adprh12	-0.00381	0.95042517	0.988253
25420	Cryab	-0.00383	0.8260304	0.91262
108348065	LOC108348065	-0.00384	0.94100125	0.982666
84581	Hdac6	-0.00384	0.94100125	0.982666
307992	Atrn11	-0.00387	0.79082668	0.891887
309678	Trappc10	-0.00392	0.86669375	0.935884
65137	Ruvbl1	-0.00394	0.93241769	0.976728
60379	Col5a3	-0.00394	0.72797273	0.851507
362770	Ccdc88c	-0.00396	0.9677871	1
305889	Thtpa	-0.00402	0.88989642	0.950644
308588	Car11	-0.00403	0.92351463	0.971248
84389	Ccnh	-0.00409	0.94295829	0.983604
300732	Pstpip1	-0.00413	0.96680833	0.99945
85243	Pik3cb	-0.00414	0.91328965	0.964489
65042	Sfxn3	-0.00419	0.83464082	0.917503
691155	Ccdc6	-0.00419	0.87715855	0.942907
301617	Pask	-0.00423	0.97613963	1
288455	Pomp	-0.00424	0.88632314	0.948423

499651	Etv31	-0.00426	0.99760056	1
499308	Flrt1	-0.00427	0.94521774	0.985098
314598	Wiz	-0.0043	0.87961633	0.94427
362260	Dhx35	-0.0043	0.94085031	0.982589
64226	Mlst8	-0.00434	0.89698325	0.95484
140595	Gpr83	-0.00435	0.97399853	1
64470	Ddb1	-0.00438	0.78751696	0.889788
500287	Srgap3	-0.0044	0.84240732	0.921519
25045	Dbi	-0.00441	0.75922678	0.872735
116455	Atp6v0a2	-0.00442	0.92227169	0.970531
297699	Strap	-0.00442	0.85460111	0.9283
294520	Mical1	-0.00443	0.86386496	0.933517
81744	Pde7a	-0.00444	0.94584791	0.985377
114589	Cntn5	-0.00445	0.96504254	0.998383
64307	Rpl24	-0.00448	0.84408476	0.922347
690354	Lymr2	-0.0045	0.93411478	0.978129
308755	Blm	-0.00453	0.94996646	0.987938
299900	Utp23	-0.00456	0.96446374	0.998327
361050	Rcbtb1	-0.00456	0.88306853	0.946376
299346	Nudt14	-0.00457	0.93837742	0.981029
367949	RGD1560171	-0.00457	0.97479896	1
501454	Oaz2	-0.00459	0.80626053	0.900811
361251	Elmo1	-0.00461	0.787831	0.889931
300079	Rpl3	-0.00462	0.73764886	0.858135
681012	Smg5	-0.00464	0.84604266	0.923163
100361269	Snrpa1	-0.00467	0.94892761	0.987559
29716	Cacna1d	-0.00467	0.92336663	0.971254
361783	Zfp57	-0.0047	0.96228758	0.996778
293148	C2cd3	-0.0047	0.93212717	0.976531
313777	Noc2l	-0.00472	0.89446145	0.953275
363869	Ubl3	-0.00477	0.76155977	0.874045
500655	Timm17a11	-0.00483	0.96917983	1
683381	Sin3b	-0.00487	0.90177198	0.957796
362813	Nabp2	-0.00489	0.87962719	0.944228
307091	Akr1e2	-0.00492	0.93519516	0.978722
293160	RGD1311703	-0.005	0.84717728	0.923607
363799	Xxylt1	-0.00501	0.90359467	0.957969
690188	Fam168b	-0.00503	0.77966868	0.885174
84551	Slc7a8	-0.00503	0.88934084	0.950317
688685	Pheta2	-0.00504	0.97307612	1
299131	Dhrs711	-0.00505	0.96207931	0.996725
100911576	LOC100911576	-0.00505	0.81375563	0.906102
691031	Cdc42se2	-0.00507	0.8690704	0.938025
100912936	Hoxd8	-0.00507	0.92363203	0.971211
298653	Nmnat1	-0.0051	0.93844362	0.981044
287383	B9d1	-0.00514	0.94870712	0.987437
298705	Raver1	-0.00519	0.88395212	0.946736
293502	Kif22	-0.00523	0.96096738	0.996061
303321	Ccnq	-0.00524	0.94474458	0.984928
361615	Relt	-0.00526	0.95207119	0.989101
64472	Naa35	-0.00527	0.88933124	0.95036
500864	Tmem74	-0.00528	0.90395914	0.957982
171092	G3bp1	-0.00533	0.82011159	0.909193
360741	Ess2	-0.00541	0.91094622	0.963136
499669	Celf3	-0.00542	0.95102154	0.988226
290408	Sugt1	-0.00542	0.86119282	0.932269

311622	Stk4	-0.00543	0.91431086	0.964979
294515	Foxo3	-0.0055	0.90142848	0.957699
114216	S100a3	-0.00551	0.95052781	0.988252
311826	Rexo4	-0.00553	0.91403554	0.964849
103694538	LOC103694538	-0.00554	0.95579489	0.991941
312538	Mcm2	-0.00555	0.94261862	0.983465
301343	Lman21	-0.00557	0.95929345	0.994759
360672	Cep131	-0.00557	0.91377865	0.964685
362012	Strip1	-0.0056	0.85351692	0.927651
304181	Tssk2	-0.00562	0.99498416	1
315484	Bbs9	-0.00564	0.92337519	0.971209
498192	RGD1560398	-0.00567	0.81737274	0.908218
171439	Bzw2	-0.00569	0.9285564	0.974345
309692	Pcnt	-0.00571	0.89890837	0.955874
353256	Gtf2i	-0.00575	0.724857	0.849637
298399	Gba2	-0.00581	0.87197783	0.939672
310612	Ilf2	-0.00585	0.84654407	0.923287
295357	Lamtor5	-0.00591	0.89664726	0.954749
192225	Spata7	-0.00591	0.92678176	0.973287
103694491	LOC103694491	-0.00592	0.95764779	0.993269
315673	Tnfaip813	-0.00594	0.97013886	1
314004	Cmpk2	-0.00596	0.8882824	0.949932
685144	Sec24c	-0.00597	0.80663892	0.901076
316640	Atg4b	-0.00598	0.81574096	0.907146
362265	Ift52	-0.006	0.86885094	0.937841
290679	Ints10	-0.00601	0.89107842	0.951106
313786	Fdx2	-0.00602	0.89536801	0.953814
314904	Arhgef25	-0.00604	0.82962856	0.914791
108351053	LOC108351053	-0.00609	0.9253059	0.972139
305861	Ap5m1	-0.00609	0.9253059	0.972139
305837	Ttc5	-0.00612	0.88184197	0.945646
25433	Hbegf	-0.00613	0.89865369	0.955817
362423	Rassf4	-0.00615	0.78754729	0.889769
681389	Cops9	-0.00615	0.8414246	0.920973
680308	Mthfd2	-0.00621	0.9243723	0.97156
362291	Myt1	-0.00622	0.87827346	0.943679
299851	Mars	-0.00624	0.81461282	0.906792
305710	Nek10	-0.00624	0.96899745	1
308998	Zfp629	-0.00625	0.92186892	0.970429
289392	Plxna2	-0.00626	0.74808999	0.864945
360659	Mif4gd	-0.00627	0.93786279	0.980706
298317	Ube2a	-0.00628	0.84837877	0.924546
679747	Tma7	-0.00628	0.81939646	0.909088
362461	C2cd5	-0.00629	0.83885976	0.919593
360161	Nek6	-0.0063	0.8359894	0.918349
315697	Imp3	-0.00631	0.90144843	0.957666
287424	Aloxe3	-0.00634	0.98464351	1
363253	Zfand2b	-0.00636	0.88721668	0.949165
361765	Btrc	-0.00636	0.79185723	0.892732
287524	Rpal	-0.00638	0.83191425	0.915509
114300	Gtpbp4	-0.00638	0.92221986	0.970583
81735	Neol	-0.0064	0.83444373	0.917339
681415	Erh	-0.0064	0.87840848	0.943718
83632	Deaf1	-0.00641	0.85150326	0.926573
361883	Mrps27	-0.00641	0.88661532	0.948682
688939	Ccdc149	-0.00642	0.89093046	0.951108

298147	Dmac1	-0.00648	0.92230695	0.970514
100911757	Tshz2	-0.00649	0.63285852	0.789105
297890	Bsdcl	-0.00654	0.82485749	0.911642
290798	Dctn6	-0.00656	0.78544398	0.888552
246299	Gtf3a	-0.00658	0.90711788	0.960315
303226	Zfp18	-0.00658	0.92829689	0.97418
288041	Pigx	-0.00661	0.89359352	0.952883
500392	Mcmdc2	-0.00662	0.9418133	0.983002
301458	Ndufs1	-0.00663	0.70447262	0.837705
363031	Anln	-0.00665	0.9616452	0.996601
289469	Mrps18c	-0.00667	0.90309115	0.957755
300675	Ift46	-0.00669	0.86302105	0.933029
289231	Ncstn	-0.0067	0.78716253	0.889757
363058	Cadml	-0.00671	0.67739291	0.819628
290842	Gins4	-0.00673	0.94366508	0.984179
100912924	Tigd2	-0.00675	0.92024065	0.96925
287470	Sdf2	-0.00675	0.8200869	0.909271
252827	Cdk5rap1	-0.00679	0.9020143	0.957894
84023	Ptger4	-0.00679	0.91813702	0.96773
315644	Bco2	-0.00683	0.97390506	1
114499	Hdgf	-0.00686	0.79639984	0.894992
304573	Pole	-0.00687	0.94288602	0.983582
298452	Dph2	-0.00688	0.93403675	0.978101
60465	Ctnn	-0.00689	0.74217223	0.860558
292925	Tsg101	-0.00693	0.75982571	0.873318
291999	Wwp2	-0.00694	0.87619271	0.942401
102547146	LOC102547146	-0.00697	0.9766814	1
282844	Rffl	-0.00698	0.89051458	0.950824
499652	Rit1	-0.007	0.8247357	0.91156
310780	Gpr61	-0.007	0.94220592	0.983142
595134	Akirin1	-0.00702	0.75589139	0.870214
60398	Fhit	-0.00702	0.94209144	0.983238
294362	Cisd1	-0.00703	0.818204	0.908612
298071	Nans	-0.00705	0.79806101	0.89633
304591	Dtx2	-0.00707	0.91785224	0.967537
266604	Alox15b	-0.00708	0.98038368	1
298517	Mrps15	-0.00711	0.83176828	0.915455
24377	G6pd	-0.00711	0.74326035	0.861296
84407	Cdh11	-0.00711	0.76263749	0.874702
29744	Sema6c	-0.00713	0.83635139	0.918482
363115	Slc9a9	-0.00714	0.66108322	0.806194
317381	Ccdc22	-0.00719	0.8992479	0.956129
288029	Lsg1	-0.00719	0.89834364	0.955541
497915	Drg2	-0.00721	0.82460613	0.911628
295251	Pygo2	-0.00722	0.8412652	0.92101
287953	Trmt2a	-0.00725	0.90365851	0.957984
24803	Vamp2	-0.00726	0.52114545	0.705617
362344	Ndufb2	-0.00729	0.83336404	0.916417
313558	Foxo6	-0.00729	0.9657372	0.998939
100310845	Uty	-0.00729	0.95680243	0.992662
363222	Rnf149	-0.0073	0.85137865	0.926596
684192	Rcor3	-0.00731	0.92140624	0.970049
24609	Odc1	-0.00731	0.7880801	0.890107
192210	Dnajc21	-0.00733	0.88129589	0.945167
690441	Atp5mf	-0.00735	0.67121179	0.814685
297109	Mturn	-0.00738	0.5686561	0.738295

317628	Apex2	-0.00743	0.9509725	0.988229
290214	Cmtm5	-0.00748	0.80795009	0.902223
287659	Socs7	-0.00748	0.81726692	0.908207
25102	Chrna5	-0.00754	0.91484696	0.965278
691835	Kctd4	-0.00754	0.95052494	0.988303
309638	Taf11	-0.00757	0.89293506	0.952501
688746	Hdhd3	-0.00758	0.95037438	0.988254
102550189	Samd1	-0.00759	0.89482326	0.953554
685425	Odf2l	-0.00764	0.92271427	0.970675
293044	Zfp710	-0.00767	0.85201142	0.926914
102554620	LOC102554620	-0.00772	0.99129351	1
25538	Rps5	-0.00775	0.72729351	0.851393
316228	Cul9	-0.00776	0.81684889	0.908007
313167	No16	-0.0078	0.79649863	0.895051
301113	Slc25a23	-0.00783	0.83306429	0.916246
116685	Lmb1	-0.00797	0.94903819	0.987566
363156	Fbx12	-0.00797	0.78145223	0.8863
502894	Tigar	-0.00801	0.81966648	0.909176
360592	Trim37	-0.00802	0.59389256	0.758445
287768	Smndc1	-0.00803	0.8596841	0.931377
100909688	LOC100909688	-0.00806	0.94220282	0.983193
103690850	CXHXorf65	-0.00809	0.99366351	1
309153	Rce1	-0.00811	0.91039011	0.962708
362281	Rae1	-0.00813	0.84957994	0.925538
300328	Aasdhppt	-0.00813	0.83730104	0.919048
498143	RGD1565131	-0.00813	0.90864336	0.961555
81778	S100a10	-0.00815	0.42769145	0.622879
365396	Ssh3	-0.00816	0.86301868	0.933079
312503	Smyd5	-0.00819	0.85794329	0.930179
59103	Ptges	-0.00819	0.96312339	0.997427
360613	Cwc25	-0.0082	0.87754875	0.943114
363027	Yipf2	-0.00825	0.85834129	0.930346
108348122	LOC108348122	-0.00828	0.45944762	0.650668
291180	Epdr1	-0.00836	0.55863621	0.737759
360855	Smg7	-0.00837	0.77541037	0.882865
498475	Ptgdr	-0.00837	0.93350879	0.97771
311405	Tmem127	-0.00839	0.66741893	0.811116
363193	Ppp2r5d	-0.00839	0.76322704	0.87501
28298	Rpl32	-0.00841	0.65054113	0.802536
291100	Irf4	-0.00842	0.92515487	0.972061
499288	Mob2	-0.00843	0.84619632	0.923066
314647	Celf5	-0.00845	0.8830808	0.946335
360664	Ten1	-0.00846	0.90802524	0.961062
102555189	LOC102555189	-0.00849	0.98640694	1
81922	Sh3g11	-0.00852	0.81645842	0.907785
29454	Gdf11	-0.00853	0.83212287	0.915633
363118	Nmnat3	-0.00853	0.962183	0.996724
368044	Atp6v1g2	-0.00858	0.58753885	0.753209
307124	Camk1d	-0.00859	0.83989397	0.920144
362897	Uqcrb	-0.00859	0.73900965	0.859508
58945	Dynl11	-0.0086	0.52510662	0.708965
686179	Ttc39c	-0.0086	0.81540536	0.906879
80849	Inpp4a	-0.00863	0.68734914	0.826581
29543	Timp2	-0.00867	0.41310041	0.608987
114637	Hmgn2	-0.00868	0.76135451	0.873862
309656	Cmtr1	-0.00869	0.73967786	0.85997

116743	Sh3gl2	-0.00887	0.72478321	0.849603
294088	Pank1	-0.0089	0.85662808	0.929653
286990	Tox4	-0.00892	0.74654716	0.863948
304802	Optc	-0.00893	0.96632283	0.999273
24520	Kcna1	-0.00896	0.6869921	0.826413
24887	Bax	-0.00898	0.86503262	0.934514
501841	Coro1c	-0.00899	0.71397955	0.843114
360768	Ccz1b	-0.00901	0.82220762	0.909875
300757	Hexa	-0.00901	0.72105434	0.847266
680172	Mbd2	-0.00904	0.71061025	0.841169
361089	Ndfip2	-0.00904	0.59341128	0.758237
78959	Akr1a1	-0.00906	0.43106709	0.625165
287836	Fbf1	-0.00911	0.85344575	0.927733
25522	Prkcz	-0.00912	0.69959003	0.835394
294431	Calhm5	-0.00913	0.92123669	0.969977
360570	Myo18a	-0.00916	0.62044011	0.778514
245924	Scaf4	-0.00925	0.82789762	0.913412
298549	Mtfr11	-0.00925	0.73533131	0.857324
24533	Ldha	-0.00934	0.4354928	0.629427
81771	Rps6ka1	-0.00934	0.84607845	0.923149
314634	Plekhj1	-0.00936	0.88106792	0.945082
301119	Mllt1	-0.00937	0.82672432	0.912963
501162	Mreg	-0.00938	0.90202967	0.957856
287598	Ska2	-0.0094	0.91041072	0.962677
305230	Shroom3	-0.00941	0.87718594	0.942883
690214	Pdf	-0.00941	0.90181525	0.957789
60328	Mark2	-0.00944	0.75888162	0.872496
29286	Rps17	-0.00945	0.69261544	0.830293
686323	Trip6	-0.00946	0.90149215	0.957659
81664	Gnai2	-0.00947	0.37647591	0.573278
66026	Trpv4	-0.00948	0.95965453	0.99489
688621	Tslp	-0.00948	0.95965453	0.99489
308335	U2af2	-0.00954	0.70651636	0.839349
65271	Mgat5	-0.00954	0.87255053	0.939917
362045	Lamtor3	-0.00959	0.82894567	0.91425
295252	Ube2q1	-0.00961	0.70022133	0.835676
311651	Slc9a8	-0.00961	0.81087987	0.90454
360406	Ptprf	-0.00962	0.50699197	0.693554
54260	Itpkb	-0.00963	0.653166	0.802189
499731	Tyw3	-0.00969	0.92924708	0.974694
295952	RGD1309730	-0.00969	0.85335678	0.927901
114590	Ubqln1	-0.00975	0.46900434	0.65964
313588	Snip1	-0.00976	0.88343608	0.946503
291129	Nrsn1	-0.00978	0.71280762	0.842514
362360	Osbpl3	-0.0098	0.6022087	0.765472
363644	Glod4	-0.0098	0.72055528	0.846993
315548	Srpra	-0.00981	0.58471209	0.750849
311404	Ap4e1	-0.00982	0.88375045	0.946627
79245	Hsf1	-0.00984	0.79984979	0.897387
296346	Oser1	-0.00988	0.84073112	0.920479
100125367	LOC100125367	-0.00989	0.91144664	0.963451
360906	Fam69a	-0.0099	0.82137861	0.909803
689088	Ldlrad1	-0.00996	0.94598764	0.985415
360968	Tbc1d10a	-0.00996	0.85668705	0.929664
290641	Rpl18a	-0.00996	0.47343817	0.663817
287734	Atxn713	-0.00997	0.59364285	0.758329

314397	Rin3	-0.01	0.85636712	0.929529
116596	Map3k8	-0.01002	0.95828255	0.993819
103694878	LOC103694878	-0.01002	0.96313646	0.997386
293144	Pold3	-0.01005	0.91653807	0.966312
366624	Cf12	-0.01007	0.57188144	0.741068
314999	Trmt12	-0.01007	0.91639687	0.966271
58971	Fxyd1	-0.01008	0.66051605	0.805709
304342	Zscan21	-0.01009	0.86167601	0.932422
24552	Me1	-0.0101	0.56805025	0.737861
25738	Plcg1	-0.01011	0.6738639	0.816603
266686	Dhrs4	-0.01013	0.88918144	0.950306
498107	RGD1562339	-0.01013	0.66169024	0.806728
363000	Prpf40b	-0.0102	0.78343912	0.887655
301065	Ttc21a	-0.01025	0.94022255	0.982149
315617	Sidt2	-0.01026	0.66398819	0.808597
287703	Eif1	-0.01027	0.43397299	0.628327
367090	Neil1	-0.01028	0.92439189	0.971527
310034	Rad17	-0.01031	0.85987979	0.931536
313264	Trim32	-0.01031	0.78603973	0.88891
295235	Ssr2	-0.01033	0.74245946	0.860682
309773	Dcbld1	-0.01044	0.87216332	0.939765
306417	Sh3rf1	-0.01046	0.87206608	0.939714
291802	Zfp136	-0.01047	0.9248889	0.971889
100910872	Naa80	-0.01047	0.81738658	0.908181
309136	Lto1	-0.01048	0.80999911	0.903822
100912578	LOC100912578	-0.01051	0.77346074	0.881594
353304	Pigu	-0.01052	0.81916775	0.909046
311903	Mrrf	-0.01054	0.73295354	0.855389
365813	Trim59	-0.01054	0.91407996	0.964842
64372	Timm8b	-0.01054	0.72974298	0.852635
65136	Rps8	-0.01064	0.52945379	0.712158
25366	Acvr2b	-0.01065	0.85651472	0.929583
58920	Gpc1	-0.01065	0.55655463	0.735622
291571	Tcof1	-0.01066	0.80350081	0.899734
307500	Psd2	-0.01067	0.97292514	1
303214	Trim16	-0.01067	0.83885279	0.919638
29456	Map1b	-0.01068	2.41E-04	0.001473
303669	Nat9	-0.0107	0.83301621	0.916299
79032	Mrs2	-0.01073	0.86313423	0.933045
294718	Dimt1	-0.01073	0.86394605	0.933552
498266	Blzf1	-0.01075	0.85004611	0.925834
252923	Tsga10	-0.01076	0.91303069	0.96443
287478	Ctns	-0.01076	0.75008766	0.866308
298541	Dhdds	-0.01079	0.68768014	0.82677
171458	Ipmk	-0.0108	0.82175528	0.909691
498869	RGD1560341	-0.01082	0.80085461	0.897985
100911734	LOC100911734	-0.01082	0.78049964	0.885695
60376	Plrg1	-0.01084	0.78815803	0.890142
296655	Stom	-0.01085	0.8279703	0.913439
100363531	LOC100363531	-0.01085	0.99380571	1
360494	Tsr3	-0.01087	0.8690874	0.93799
312787	Gpr19	-0.01092	0.91226724	0.963998
83501	Cdh2	-0.01092	0.55026367	0.730858
25737	Pcna	-0.01097	0.80970851	0.903709
171440	Abtb2	-0.011	0.73701667	0.857714
363059	Zw10	-0.01105	0.86073045	0.931981

113886	Kif1c	-0.01106	0.68439337	0.824432
306722	Dapk1	-0.01112	0.7025863	0.837344
100303643	Fcgbp	-0.01113	0.90995721	0.962411
313725	Gpr157	-0.01115	0.8888225	0.950189
313478	Cc2d1b	-0.01119	0.65215119	0.801356
29236	Rpsa	-0.01124	0.37631556	0.573217
300980	Dusp7	-0.01125	0.80741627	0.901785
294331	Ube2g2	-0.01125	0.80682698	0.901233
291388	Cbln2	-0.01126	0.71935754	0.846525
102554977	LOC102554977	-0.01138	0.99549369	1
362575	Med8	-0.01138	0.88996852	0.950508
363241	Eef1b2	-0.01141	0.63852972	0.793268
307302	Cep120	-0.01141	0.72395856	0.849054
362335	Nup205	-0.01142	0.82087097	0.909664
367153	Cep70	-0.01144	0.89921413	0.956146
29380	Phlda1	-0.01146	0.82611301	0.912659
259270	Zfp335	-0.01148	0.7349434	0.857186
25405	Ccng1	-0.01151	0.45912566	0.650357
287419	Rangrf	-0.01156	0.90925334	0.961987
308757	Man2a2	-0.01157	0.6420497	0.796031
362832	Izumo4	-0.01158	0.92421014	0.971497
501103	Slc35b2	-0.0116	0.78872059	0.890566
292747	Fb1	-0.01162	0.82470417	0.911578
100910318	Trappc2b	-0.01164	0.81335716	0.905765
108351723	LOC108351723	-0.01166	0.93907909	0.981601
252939	Gpr3711	-0.01166	0.57748454	0.745186
307997	Hspa12a	-0.01167	0.17476141	0.342386
678759	Ndufa10	-0.01171	0.50622639	0.693055
500843	RGD1565498	-0.01172	0.81855945	0.908901
85263	Slc25a14	-0.01175	0.83559419	0.918127
288692	Wsb2	-0.01177	0.42452387	0.619782
24240	Cad	-0.01178	0.77761205	0.883945
100361133	Mycbp	-0.0118	0.79889165	0.896893
361778	Sfxn4	-0.01182	0.83504648	0.917896
361789	Atat1	-0.01184	0.79102907	0.891957
362855	Rtcb	-0.01186	0.65117331	0.8029
363009	Uhrflbp11	-0.01187	0.54556856	0.726547
59074	Stx8	-0.01187	0.81046561	0.904289
306589	Klhdc8b	-0.01189	0.78143117	0.886382
687127	Zfp526	-0.01193	0.86177059	0.932471
84556	Rims1	-0.01195	0.6757493	0.818315
290850	Mrps31	-0.012	0.82139245	0.909766
25573	Ube2i	-0.01203	0.5734333	0.742372
298982	Maea	-0.01204	0.58176201	0.748474
140941	Siah1	-0.01207	0.78385978	0.887868
297961	Ube2j1	-0.01207	0.48736986	0.675445
361666	Bccip	-0.0121	0.84171973	0.921084
362185	Mpped2	-0.01212	0.76096059	0.873673
304813	Ppp1r12b	-0.01212	0.62191687	0.779802
311545	Hml3	-0.01213	0.62860376	0.785755
361293	Riok3	-0.01214	0.62587417	0.783577
361798	Ehmt2	-0.01215	0.65033325	0.80254
83709	Git1	-0.01218	0.46837697	0.658952
25745	Myh9l1	-0.01219	0.44459085	0.637593
303073	Cyfip2	-0.01221	0.32264772	0.517895
100360914	Fbxw7	-0.01223	0.64590383	0.799041

305887	Ngdn	-0.01229	0.80197312	0.898657
680835	LOC680835	-0.0123	0.62658078	0.784049
361649	Atxn21	-0.01232	0.51840761	0.703361
309256	Fan1	-0.01232	0.87553015	0.941795
361795	Ltb	-0.01233	0.9527861	0.989358
290864	Usp4	-0.01233	0.6328076	0.789145
363056	Rnf214	-0.01233	0.63828434	0.793015
287442	Tmem256	-0.01233	0.85141079	0.926525
296562	Npdc1	-0.01234	0.40316065	0.600234
498140	Cdk8	-0.01235	0.77623875	0.883228
497941	Gps2	-0.01238	0.79368574	0.893418
192275	Dad1	-0.01239	0.61187253	0.772958
313253	Zfp618	-0.01242	0.85577722	0.9291
83516	Ppargcla	-0.01242	0.78546015	0.888465
84383	Timm8a1	-0.01245	0.8005149	0.897868
308067	Brd9	-0.01246	0.7044323	0.837709
60421	Prmt1	-0.01247	0.68991986	0.828208
685332	Rpp30	-0.01248	0.78458339	0.887843
290803	Tex15	-0.01249	0.90498775	0.958592
311350	Tmem62	-0.0125	0.75643762	0.870632
305258	Utp3	-0.01251	0.76978366	0.879087
300974	Mrpl3	-0.01255	0.77409323	0.881999
500324	Cracr2a	-0.01257	0.95222973	0.988942
192277	Stip1	-0.01262	0.38544432	0.582186
303456	Utp18	-0.01263	0.82216609	0.909882
499768	Tbcd13	-0.01267	0.6467048	0.79972
299207	Erg28	-0.01269	0.77722391	0.883821
311151	Dusp19	-0.01274	0.90390787	0.958035
24224	Bcl2	-0.01275	0.90302611	0.9579
287429	Naa38	-0.01279	0.66298458	0.807995
291609	Ndfip1	-0.01281	0.1991699	0.374525
124323	Rps23	-0.01287	0.55382945	0.733752
361833	Ank3	-0.01288	0.36850606	0.564527
311844	Kyat1	-0.0129	0.8264072	0.912878
24171	Add2	-0.01293	0.27447283	0.466601
29717	Cacnalg	-0.01293	0.91839104	0.967784
315645	Pih1d2	-0.01294	0.78724492	0.889691
103689921	NEWGENE_1306267	-0.01296	0.9178613	0.967493
314401	Unc79	-0.01297	0.78428462	0.887715
293671	Sf3b2	-0.01299	0.53349316	0.715419
81755	Rab3b	-0.01302	0.88095624	0.945069
303407	Gdpd1	-0.01302	0.76931075	0.878731
64514	Eif2b1	-0.01302	0.76931075	0.878731
367767	Mageh1	-0.01303	0.81272682	0.905327
362002	Rnf115	-0.01306	0.6408014	0.794794
89806	Tiel	-0.01306	0.79490643	0.893841
25547	St8sia3	-0.01307	0.73707178	0.857725
361309	Paip2	-0.01308	0.47611086	0.665702
316023	Dclk3	-0.0131	0.86222933	0.932649
313743	Klh121	-0.0131	0.73681106	0.857684
292554	Aurkc	-0.01312	0.90224373	0.95771
315160	Desi1	-0.01312	0.69770274	0.834081
362688	Gemin6	-0.01315	0.85877365	0.930656
288482	Usp42	-0.01315	0.81225366	0.905171
364070	Iars2	-0.01316	0.58382402	0.750214
306768	Nop16	-0.01317	0.74734171	0.864395

288065	Ccdc58	-0.01318	0.89047922	0.95084
100361633	Cd300ld	-0.0132	0.97972714	1
365024	Chmpla	-0.01323	0.583257	0.74984
24334	Eno2	-0.01324	0.1772846	0.345693
301123	Ndufa11	-0.01328	0.60989758	0.77164
94268	Efna1	-0.01329	0.80446725	0.900551
364656	Mrpl36	-0.0133	0.82967672	0.914739
108349732	LOC108349732	-0.01331	0.94914155	0.98762
316051	Azi2	-0.01332	0.6810253	0.822039
293666	mrpl11	-0.01333	0.79823787	0.896317
362818	Pmel	-0.01334	0.90129519	0.957664
292244	Mrpl18	-0.0134	0.78636591	0.889067
361655	Tial1	-0.01343	0.74617414	0.863726
688966	Borcs8	-0.01346	0.83618707	0.91846
367085	Arhgap20	-0.01346	0.84071115	0.92051
25686	Gnail	-0.01347	0.59666837	0.760358
685045	Abrac1	-0.01347	0.80907443	0.903161
308518	Nudt19	-0.01353	0.79956448	0.897172
361677	Tollip	-0.01355	0.52726755	0.710824
117026	Apbb3	-0.01357	0.63324445	0.78938
116675	Pgap2	-0.01359	0.80852018	0.902648
140592	Ppfia4	-0.01359	0.70287984	0.837589
298141	Frmd3	-0.01362	0.70835547	0.839648
310848	Cyp2u1	-0.01363	0.78428798	0.887667
309399	Abhd17b	-0.01364	0.6875023	0.826609
361809	Zfp523	-0.01365	0.751575	0.86729
246773	Lrrc3	-0.01365	0.82069636	0.909629
365842	Clk2	-0.01365	0.7785816	0.884678
373065	Ddx24	-0.01367	0.57118147	0.740413
307798	Acd	-0.01373	0.7948335	0.893865
303244	Mpdu1	-0.01376	0.66016192	0.805483
361273	Sec61a2	-0.01379	0.60206633	0.765393
54238	Cdkn2c	-0.01379	0.88753771	0.949349
116687	Dnase113	-0.01383	0.96322082	0.99742
498599	Slc35e1	-0.01383	0.71590616	0.844342
24666	Ppmla	-0.01386	0.53866772	0.720734
100911440	LOC100911440	-0.01387	0.69741576	0.834
316231	Abcc10	-0.01387	0.85641417	0.929527
24784	Slc9a3	-0.01388	0.81237412	0.905093
360645	Taco1	-0.01395	0.88682319	0.948851
309140	Mrpl21	-0.01399	0.8402286	0.92014
362614	Gpn2	-0.01399	0.8569035	0.929793
313520	Mmachc	-0.01407	0.82463901	0.911612
29675	Psmb2	-0.01407	0.60591927	0.768445
360302	Ptprk	-0.01409	0.77090187	0.879942
360623	Krt28	-0.01409	0.8464874	0.923278
303188	Rail	-0.01411	0.67819307	0.820075
311486	Dzank1	-0.01412	0.7112373	0.841284
682390	Eif3i	-0.01413	0.69253642	0.830303
361732	Tmem109	-0.01417	0.74329335	0.861229
114209	Phyh	-0.01417	0.63934786	0.793663
366618	Ap4s1	-0.01418	0.84711642	0.923594
680987	Ciao2b	-0.01419	0.72920358	0.852319
25587	Id2	-0.01419	0.79092941	0.89195
362214	Nop56	-0.0142	0.58784009	0.753494
680451	Nrbp2	-0.0142	0.24391772	0.432172

307816	Tango6	-0.01422	0.83096764	0.915367
29737	Kcnab1	-0.01424	0.48523561	0.673369
296637	Prrc2b	-0.01425	0.34314418	0.539607
288585	Ift22	-0.01425	0.79652533	0.894975
294560	Mcu	-0.01428	0.64495123	0.798226
140933	Trpc5	-0.0143	0.89749668	0.95512
25455	Ggh	-0.0143	0.82390162	0.911114
295053	Spart	-0.01432	0.64437268	0.797924
304670	Tnpo2	-0.01438	0.41688736	0.612672
502225	Lrrc14b	-0.01438	0.91065088	0.962877
300069	Eif31	-0.01438	0.5721824	0.741307
682902	Taf12	-0.0144	0.75584624	0.870215
296300	Zfp341	-0.0144	0.83753464	0.919198
310856	Ppa2	-0.0144	0.73149732	0.854213
113960	Cdc42bpb	-0.01441	0.48108228	0.669801
306352	Armc6	-0.01442	0.83811314	0.91925
245983	I111ral	-0.01444	0.72649863	0.850985
291580	RGD1312005	-0.01446	0.65293098	0.802056
291317	Rpp38	-0.01446	0.88443823	0.946991
116686	Gsr	-0.01448	0.62033322	0.778482
79558	Acvr1	-0.0145	0.76009379	0.873521
313845	Sos1	-0.01456	0.55940294	0.735152
303275	Dhrs13	-0.01456	0.84478026	0.922525
287961	Cdc45	-0.01458	0.94791918	0.986779
311743	Map3k20	-0.01458	0.81380793	0.906108
295586	Clcn6	-0.01459	0.42993516	0.624284
293615	Sirt3	-0.0146	0.78758039	0.889754
362437	Iffo1	-0.01464	0.55491977	0.73443
361378	Man2b1	-0.01465	0.67502009	0.817588
296565	Paxx	-0.01468	0.70643681	0.839359
683713	Gal3st1	-0.01469	0.80613648	0.900726
290963	Npepo	-0.0147	0.68975147	0.828267
288321	Rbm11	-0.01472	0.59649221	0.760184
311215	Ext2	-0.01472	0.67789067	0.819866
291874	Nup93	-0.01472	0.7138789	0.8431
361387	Zfp330	-0.01473	0.73764429	0.858182
24673	Ppp2cb	-0.01479	0.40638048	0.603001
297428	Copg1	-0.01479	0.25082306	0.438814
100912608	LOC100912608	-0.01479	0.80199664	0.898631
361606	Aamdc	-0.01479	0.92579212	0.972355
102548917	LOC102548917	-0.01483	0.87166287	0.939439
64526	Ech1	-0.01488	0.52842215	0.711323
85425	Tdrd7	-0.0149	0.59969941	0.762995
81521	Msn	-0.01491	0.43710392	0.631229
494346	Preli3b	-0.01492	0.68724359	0.826506
81761	Rnpep	-0.01493	0.74060174	0.860676
64353	Pdlim5	-0.01494	0.65068695	0.80256
312607	Pdzrn3	-0.01496	0.75290792	0.868144
84575	Fads1	-0.01497	0.30417697	0.501042
291671	Hspa9	-0.01498	0.32692662	0.522517
363781	Plcx2	-0.01501	0.44181369	0.634805
59102	Rpa2	-0.01506	0.85069915	0.926227
290596	Ghitm	-0.01508	0.30424276	0.501107
299905	Med30	-0.01509	0.80465055	0.900598
680752	Ccdc74a	-0.01515	0.83031765	0.915286
307742	Snx20	-0.01523	0.92454806	0.971638

681352	Letmd1	-0.01525	0.6321305	0.788507
316335	Tmem131	-0.0153	0.57430097	0.742436
300235	Dazap2	-0.01532	0.40272739	0.599777
25579	Map3k12	-0.01535	0.60913948	0.770783
361532	Sirt2	-0.01536	0.42416729	0.619499
100360977	LOC100360977	-0.01537	0.85711161	0.929918
116665	Rere	-0.01538	0.50704779	0.693581
366138	Ldlrad3	-0.0154	0.83325185	0.916346
301124	LOC301124	-0.0154	0.54334541	0.724752
361640	Polr3e	-0.01541	0.76301862	0.874929
64152	Chp1	-0.01552	0.17835919	0.34722
289278	Cox20	-0.01553	0.80519291	0.900781
116697	Pabpn1	-0.01555	0.57342182	0.742408
60664	Pik3r3	-0.01559	0.69913907	0.835012
24468	Hspa8	-0.01561	0.00127007	0.006355
117049	Rab28	-0.01564	0.66325773	0.808225
29384	H2afy	-0.01568	0.63356039	0.789567
300455	Bmper	-0.01569	0.89164213	0.951548
100910342	Bbip1	-0.01569	0.85698679	0.92983
300052	Vps28	-0.01575	0.57335759	0.742476
84595	Nucb1	-0.0158	0.25747486	0.446432
24686	Prnp	-0.01583	0.07534892	0.185932
103690203	Znf48	-0.01585	0.80486879	0.90063
293489	Slx1b	-0.01586	0.72169862	0.847761
296349	Ttpal	-0.01587	0.6314837	0.788165
25743	Kcnj6	-0.01587	0.75314297	0.868257
25019	Xrcc6	-0.01588	0.72653929	0.85098
54263	Kcnn3	-0.01588	0.7405782	0.860701
304567	Pus1	-0.01592	0.81188939	0.90503
312647	Atg7	-0.01592	0.79713392	0.895447
691075	Mrpl10	-0.01593	0.65433242	0.803104
100364162	Rnf1111	-0.01595	0.62767893	0.784959
687711	Snrpd3	-0.01599	0.6968433	0.833472
287173	Bod1	-0.01599	0.79664318	0.895055
360882	Cadm3	-0.01602	0.06534182	0.166524
171445	Akr7a2	-0.01604	0.7249639	0.84971
100911417	LOC100911417	-0.01605	0.40609613	0.602673
309029	RGD1305014	-0.01605	0.80346565	0.899747
24424	Gstm2	-0.01609	0.63297905	0.789204
361242	Dusp22	-0.0161	0.6782869	0.820085
94170	Atp6v0e1	-0.01612	0.66566191	0.810169
287822	Hid1	-0.01612	0.43012608	0.624371
360495	Lmf1	-0.01618	0.76249057	0.874692
681193	LOC681193	-0.01619	0.86265473	0.932951
24162	Acp2	-0.01623	0.57261485	0.741666
315203	Gramd4	-0.01625	0.70816576	0.839685
498886	RGD1562987	-0.01625	0.52158034	0.706006
364148	Kctd8	-0.01626	0.62295708	0.780797
689248	Ecsr	-0.01627	0.77422751	0.882046
641521	Lrrc4	-0.01631	0.78057744	0.88573
296596	Rpl7a	-0.01633	0.32596177	0.521632
295382	Ntng1	-0.01635	0.64737974	0.800295
102547413	LOC102547413	-0.01637	0.81527964	0.907216
499941	Dbnidd2	-0.01639	0.53735413	0.719482
266608	Fzd9	-0.01642	0.92124436	0.969932
501907	RGD1559459	-0.01643	0.9710037	1

361709	Ap5b1	-0.01645	0.75817453	0.871946
60418	Gde1	-0.01646	0.44499007	0.637781
362240	No141	-0.01647	0.46876176	0.659396
100910434	Chad1	-0.01647	0.65780581	0.803947
294239	Ddah2	-0.01652	0.53807619	0.720145
24158	Acadm	-0.01657	0.57396099	0.742298
293691	Snx15	-0.01659	0.77844957	0.884581
360230	Stk40	-0.01665	0.62181991	0.779783
315352	Nxt2	-0.01668	0.87376414	0.940798
498002	RGD1561590	-0.01673	0.7219684	0.847973
291848	Mmp15	-0.01677	0.25567959	0.444493
287151	Metrn	-0.01677	0.62036324	0.778469
100360100	Taf3	-0.0168	0.77026825	0.879324
54294	Rgs5	-0.0168	0.77688622	0.883595
64185	Cap1	-0.01682	0.14479064	0.299374
297332	Thns12	-0.01682	0.80599526	0.900621
290666	Sugp1	-0.01683	0.65381588	0.80278
305076	Utp25	-0.01683	0.74518284	0.862736
303918	Gtf2e1	-0.01685	0.76340157	0.875157
367100	Smad6	-0.01685	0.90219522	0.957712
681234	Dbr1	-0.01685	0.83144385	0.915362
311944	Paxip1	-0.01686	0.72433445	0.849338
499380	Emx2	-0.0169	0.97803867	1
500694	Isca2	-0.0169	0.66126879	0.806317
307234	Kcng2	-0.01695	0.7827207	0.887052
362278	Tmem189	-0.01696	0.29188662	0.487331
290564	Mettl6	-0.01698	0.82401142	0.91113
304271	Rnf6	-0.01699	0.59364167	0.758378
171155	Hadhb	-0.01717	0.30673986	0.502742
171565	Stampb	-0.01721	0.61546893	0.775341
686590	Iqsec1	-0.01721	0.33791619	0.534653
363327	Vmac	-0.01724	0.75405559	0.869046
84409	Robo2	-0.01724	0.28849929	0.483285
103690141	LOC103690141	-0.01726	0.86199757	0.932452
171581	Rhov	-0.01728	0.72995268	0.852776
500569	Kdmla	-0.01728	0.6572543	0.803789
25012	Snap25	-0.0173	0.00290168	0.013055
502632	Mettl5	-0.0173	0.77589874	0.883105
54296	Rgs7	-0.01733	0.59624337	0.759969
308339	Zfp579	-0.01733	0.79487273	0.893856
311718	Zbtb46	-0.01736	0.82859165	0.914018
307821	Psmd7	-0.01738	0.41209171	0.607782
245918	Cgref1	-0.01747	0.67737998	0.819665
684800	Smap1	-0.01747	0.38141016	0.578248
360650	Amz2	-0.01747	0.52500274	0.708875
367746	LOC367746	-0.01752	0.96726571	0.999814
300644	Gramd1b	-0.01753	0.22140651	0.403588
363522	Dnase111	-0.01754	0.77858596	0.88463
309169	Ehbp111	-0.01754	0.67205502	0.815345
361898	Ankrd55	-0.01755	0.79236428	0.892986
108352362	Cxx1a	-0.01759	0.85326388	0.927853
108348250	LOC108348250	-0.01761	0.71897198	0.846385
315461	Tmed1	-0.01761	0.77191934	0.880681
290692	Klhl2	-0.01768	0.67996495	0.821331
260430	Gpr156	-0.01771	0.8954579	0.953856
314681	Ric8b	-0.01774	0.57137619	0.740514

300759	Parp6	-0.01776	0.35651214	0.553589
25385	Faslg	-0.01777	0.94170125	0.982993
114115	P2rx2	-0.01788	0.83556615	0.918149
365191	Chmp2a	-0.01789	0.58952561	0.754994
297994	Bag1	-0.01792	0.5190752	0.703915
287962	Mrpl40	-0.01793	0.71878858	0.846274
300713	Slc35f2	-0.01794	0.84577131	0.923025
308404	Irf2bp1	-0.01794	0.67742054	0.819558
309596	Vars2	-0.01796	0.7550847	0.869759
103690164	LOC103690164	-0.01798	0.87253961	0.939958
308576	Pnkp	-0.01798	0.78296669	0.887226
100910143	LOC100910143	-0.01799	0.72688937	0.851207
305626	Pigg	-0.01799	0.72688937	0.851207
364240	Dnajc9	-0.01802	0.741665	0.860284
312694	Necap1	-0.01804	0.38792606	0.5851
287178	Ubtd2	-0.01807	0.6577594	0.803942
300035	Pycr3	-0.0181	0.71906782	0.846446
366468	Lsm10	-0.01811	0.84461048	0.922393
314586	Zfp763	-0.01814	0.80857184	0.902652
502727	RGD1563349	-0.01814	0.47551128	0.665793
361038	RGD1308430	-0.01817	0.77613491	0.883162
361110	Tmem110	-0.01819	0.74038074	0.860577
315033	Spag1	-0.01819	0.84454743	0.922377
288615	Sbds	-0.01821	0.5207734	0.705415
688981	LOC688981	-0.01822	0.9778628	1
360962	Tacc3	-0.01822	0.86329178	0.93311
113898	Prdx5	-0.01826	0.37275355	0.569111
497936	Tmem88	-0.01832	0.81280646	0.905363
60450	Matk	-0.01841	0.7654	0.876446
289372	Smyd2	-0.01842	0.46930944	0.659631
299075	Trappc6b	-0.01842	0.60889369	0.770677
100192314	Inafm1	-0.01845	0.79584756	0.89453
360505	Npr13	-0.01848	0.70853178	0.839753
81741	Cdk16	-0.01855	0.2156998	0.39664
366734	Bag5	-0.01856	0.62889048	0.785958
100362495	Haus5	-0.01858	0.82201863	0.909877
171415	Atg3	-0.0186	0.5514259	0.731738
140593	Siah2	-0.01862	0.81233202	0.905099
65139	Rps12	-0.01862	0.37774404	0.574749
100359662	Ankdd1b	-0.01866	0.88991205	0.950554
116484	Txn1	-0.01866	0.41209154	0.607829
103690149	LOC103690149	-0.01868	0.71113168	0.841316
307492	Hars	-0.01873	0.35301843	0.549958
308051	Rnf146	-0.01876	0.62096979	0.778819
296279	Tm9sf4	-0.01876	0.59387391	0.758522
294518	Sesn1	-0.01882	0.64590534	0.798991
83730	Vamp8	-0.01886	0.84139513	0.921047
29752	Fau	-0.0189	0.30514024	0.502108
406866	Ly6g6e	-0.01892	0.84904514	0.925061
84591	Pick1	-0.01896	0.71602725	0.84438
308390	Fkrp	-0.01897	0.63562378	0.790793
365388	Psmd13	-0.01899	0.43444904	0.628682
360946	Zcchc4	-0.019	0.8362296	0.918454
302817	Enox2	-0.019	0.81976992	0.909132
683983	Nup43	-0.01903	0.79231925	0.893041
296480	Tpd5212	-0.01903	0.44043345	0.633682

363519	Hcfc1	-0.01905	0.52745945	0.711032
81747	Pi4kb	-0.01912	0.53585389	0.718079
364952	Nkd1	-0.01915	0.69977354	0.835403
304530	Taok3	-0.01915	0.67104754	0.814538
291000	Faf2	-0.01916	0.47668204	0.66611
299261	Moap1	-0.01919	0.53968854	0.721694
312451	Tcf7l1	-0.01919	0.70827594	0.839659
360622	Igfbp4	-0.0192	0.46976503	0.660125
116504	Mprip	-0.0192	0.12091085	0.263834
366854	Fbxo7	-0.01923	0.54396741	0.725277
100910275	LOC100910275	-0.01923	0.41181497	0.607515
313666	Zbtb17	-0.01927	0.73213176	0.85464
117017	Polr2g	-0.01927	0.61568801	0.775361
494520	Ggnbp1	-0.01933	0.93887226	0.981438
310615	Crtc2	-0.01934	0.61496678	0.775119
171145	Eif2b3	-0.01935	0.70703094	0.838705
304285	Tecpr1	-0.01937	0.4249084	0.620153
301020	Smarcc1	-0.01938	0.55990306	0.735556
192351	Fbxo6	-0.01942	0.66365191	0.808291
305845	Mettl17	-0.01942	0.82786857	0.913432
60661	Max	-0.01944	0.51390416	0.699693
246117	Mcfd2	-0.01945	0.70039041	0.835773
299201	Dlst	-0.01947	0.30087796	0.497761
373545	Prkag2	-0.01947	0.41345337	0.609318
245709	Exoc8	-0.01951	0.6697439	0.813267
79433	Myh10	-0.01955	0.21336202	0.393557
29381	Acvrlb	-0.0196	0.6659543	0.810422
500280	Lrrn1	-0.0196	0.14447762	0.298922
363259	Obsl1	-0.01961	0.69347455	0.830852
83688	Taldo1	-0.01965	0.356322	0.553384
81715	Camlg	-0.01978	0.55758591	0.736525
299691	Cry1	-0.01981	0.82598048	0.912618
296973	Bpgm	-0.01981	0.52148416	0.705925
301552	Mrpl44	-0.01983	0.70913817	0.839949
362358	Krba1	-0.01984	0.69158776	0.829426
362666	Dnajc11	-0.01988	0.5027581	0.689496
307642	Cfap20	-0.01992	0.58133391	0.748226
287840	Ubald2	-0.01993	0.63982872	0.793846
292814	Pdcd5	-0.01996	0.56168014	0.733137
171131	Chrn3	-0.01998	0.53198874	0.714256
499814	Ttc30b	-0.01999	0.74002764	0.860271
102553032	LOC102553032	-0.02003	0.99117434	1
306766	LOC306766	-0.02004	0.34436112	0.540895
501201	Tmem200c	-0.02004	0.77774095	0.884039
287835	Galk1	-0.02005	0.68978907	0.828208
500555	Zcchc17	-0.02006	0.4944538	0.681197
308703	Lrrk1	-0.02007	0.70951847	0.840242
361728	Tmem138	-0.0201	0.86088384	0.932094
103690884	LOC103690884	-0.0201	0.79363834	0.893418
315189	Prr5	-0.0201	0.64765185	0.800268
685448	Pcp4l1	-0.02012	0.63931738	0.793729
54234	Cacna1e	-0.02013	0.72234173	0.848098
308709	Synm	-0.02015	0.06993175	0.175497
100158225	Tedc2	-0.02016	0.79410669	0.89347
317247	Nap112	-0.02016	0.38387961	0.58056
365155	Prdm9	-0.02021	0.91148049	0.963434

114700	Cyp27b1	-0.02023	0.95222804	0.988994
294691	Naip5	-0.0203	0.75324468	0.868269
314623	Midn	-0.02031	0.48359571	0.672023
366012	Trub2	-0.02031	0.70537255	0.838461
102551518	LOC102551518	-0.02034	0.82339162	0.911026
29154	Capn2	-0.02035	0.0985459	0.226149
83499	Psm4	-0.02035	0.36089409	0.557756
362246	Tp53inp2	-0.02037	0.37730347	0.574308
686980	Srrt	-0.02038	0.56165943	0.73316
161476	Hspb2	-0.02039	0.77574661	0.883037
25480	Mip	-0.02039	0.80317413	0.899527
29513	Mapk13	-0.02042	0.91434819	0.964965
307859	Chst5	-0.02046	0.81247878	0.905104
362194	Bahd1	-0.0205	0.51038834	0.696599
360630	Naglu	-0.02052	0.72289692	0.848488
289508	Rchyl	-0.02057	0.64258814	0.796388
297393	Nagk	-0.02057	0.52922801	0.711955
117096	Nlgn2	-0.02059	0.45614525	0.647484
24787	Sod2	-0.0206	0.2291016	0.413538
59106	Ltbp2	-0.02062	0.82206526	0.909876
288718	Tfip11	-0.02064	0.57714055	0.745045
304522	Fbxw8	-0.02066	0.47108507	0.661638
65142	Arl2	-0.02066	0.57358557	0.742468
89817	Sh2b1	-0.02066	0.54440924	0.725511
360967	Rnf185	-0.02068	0.64244153	0.79631
60586	Clcn4	-0.02071	0.30208465	0.49902
29715	Slc8a1	-0.02072	0.65879175	0.804636
307199	Cd226	-0.02077	0.89004727	0.950538
362865	Gnptab	-0.02077	0.43792439	0.631743
287656	Mrpl45	-0.02078	0.54411435	0.725372
294456	Nt5dc1	-0.02081	0.82116877	0.909835
24629	Pdgfrb	-0.02083	0.47180494	0.66221
295395	Rtca	-0.02083	0.43339436	0.627871
65040	Dlgap1	-0.02085	0.61732095	0.77639
360515	Clint1	-0.02087	0.40993075	0.606426
288985	Insig2	-0.02089	0.71001784	0.840625
311456	Mkks	-0.02091	0.59503863	0.75889
314961	Asap1	-0.02093	0.31353171	0.508491
414784	RT1-T24-4	-0.02094	0.60682349	0.76913
171500	Stau2	-0.02099	0.24338447	0.431468
308961	Dctn5	-0.021	0.34890431	0.545781
294881	Slc7a12	-0.021	0.97689614	1
366909	Slc26a10	-0.02104	0.86118655	0.932316
684028	Cryga	-0.02106	0.87219786	0.939749
25055	Lipa	-0.02106	0.24971495	0.438244
64476	Mfn2	-0.02109	0.22975668	0.414524
304293	Zfp316	-0.0211	0.76319317	0.875076
286988	Pnrc1	-0.0211	0.54670658	0.727605
690343	Zfp141	-0.02112	0.80115709	0.898113
291659	Ik	-0.02112	0.34384188	0.540303
362891	Os9	-0.02113	0.21089362	0.389759
100362022	Zfp27	-0.02113	0.83066042	0.915081
102554066	LOC102554066	-0.02115	0.93572664	0.979144
24172	Adh1	-0.02115	0.93572664	0.979144
93646	Sec31a	-0.02116	0.40845485	0.605277
94269	Fez2	-0.02118	0.44907212	0.640883

301062	Exog	-0.02118	0.69632759	0.833065
25652	Ptgfr	-0.02121	0.71794478	0.845803
245958	Atp5fle	-0.02126	0.39854936	0.595837
294512	Ascc1	-0.02128	0.64575206	0.798905
500990	LOC500990	-0.02129	0.97499769	1
317598	Mcf2	-0.02129	0.84287479	0.921819
689397	Sssca1	-0.0213	0.56706832	0.737088
313843	Galm	-0.02134	0.7028982	0.837558
298096	Wdr31	-0.02135	0.87120716	0.939001
314214	L3hypdh	-0.02135	0.90873061	0.961594
317580	Rab33a	-0.02136	0.74326619	0.86125
292762	Eif3k	-0.02138	0.47930473	0.667815
117039	Gps1	-0.02139	0.35115727	0.547955
246144	I13ra	-0.02141	0.78774621	0.889888
24957	Glul	-0.02141	0.13493647	0.285129
100911519	LOC100911519	-0.02145	0.82000675	0.909235
312652	Plxnd1	-0.02147	0.25850702	0.447855
140937	Higd1a	-0.02151	0.56108223	0.732708
308061	Pdcd6	-0.02152	0.51810515	0.703
191573	Grin3a	-0.02155	0.85541552	0.928919
500545	Cdca8	-0.02155	0.87053713	0.93881
288240	Hlcs	-0.02158	0.5149093	0.700561
171384	Trpm8	-0.0216	0.32330232	0.518509
60381	Tsn	-0.0216	0.7221447	0.847971
306255	Nisch	-0.02161	0.04175499	0.116962
304579	Usp30	-0.02162	0.63916573	0.793696
311414	Zc3h8	-0.02164	0.79622838	0.894905
300259	Aaas	-0.0217	0.70121402	0.836494
502531	Eif2a	-0.02171	0.5697612	0.739277
108351076	LOC108351076	-0.02178	0.86273326	0.93293
299295	Setd3	-0.02182	0.20493928	0.38198
64559	Slc22a23	-0.02185	0.34562988	0.542173
293180	Micalc1	-0.02197	0.93436508	0.978311
311113	Ccdc173	-0.02197	0.93436508	0.978311
361102	Polr3a	-0.02199	0.58468814	0.750869
100361574	Polr2k	-0.02201	0.65158721	0.802943
100362005	Grcc10	-0.02204	0.40386774	0.600817
500126	Hoxa7	-0.02207	0.76717803	0.87769
302395	Abcb7	-0.0221	0.79389031	0.893385
364838	Reep5	-0.02211	1.93E-04	0.001204
29642	Slc38a2	-0.02211	0.11889193	0.260414
287146	Chtf18	-0.02216	0.88398231	0.946716
100360621	I14i1	-0.02217	0.83787822	0.919205
117035	Slc25a20	-0.02222	0.52092761	0.705523
303653	Cdc42ep4	-0.02222	0.50404547	0.690764
294288	Cuta	-0.02224	0.52771611	0.710825
301514	Bcs11	-0.02227	0.75617659	0.87049
117536	Nsmf	-0.02228	0.36517164	0.561315
691534	Nop10	-0.02229	0.31417482	0.508581
102556781	LOC102556781	-0.02229	0.96496122	0.998516
100361774	Ralgps1	-0.02229	0.76740529	0.877739
54348	Stk39	-0.02231	0.14102387	0.29427
316102	Lztf11	-0.02231	0.67791147	0.819839
292228	Tmem242	-0.02235	0.60248583	0.765773
171566	Nme7	-0.02238	0.68527189	0.825177
308857	Dnajb13	-0.02238	0.87647784	0.942601

114004	Ppp1r14a	-0.0224	0.867777	0.936947
361565	Vrk3	-0.02241	0.60306808	0.766411
501584	Amer1	-0.02244	0.68945876	0.827968
362238	Dusp15	-0.02245	0.22472646	0.407922
289021	Pik3c2b	-0.02246	0.74680243	0.864138
362149	Cir1	-0.02246	0.58919201	0.75477
25176	Slc25a5	-0.02246	0.16678366	0.330461
294380	Lrrtm3	-0.02246	0.84019004	0.920151
297459	Mrps25	-0.02247	0.68288029	0.823286
314224	Tmem30b	-0.0225	0.73077969	0.853585
309911	Qrs11	-0.02254	0.802103	0.898644
445371	Kcnk18	-0.02255	0.75453346	0.869492
316033	Glb1	-0.02257	0.54506707	0.726083
303478	Ube2z	-0.02261	0.24990695	0.438379
170917	Cry2	-0.02262	0.35985674	0.55665
301242	Ptk7	-0.02264	0.54982785	0.730432
314897	Ppmlh	-0.02264	0.47127966	0.661765
299628	Mrpl54	-0.02264	0.59177845	0.756861
24780	Slc4a2	-0.02267	0.34900106	0.545753
24260	Chrm3	-0.02269	0.83727717	0.919075
50599	Kcnj3	-0.0227	0.69407178	0.831306
689197	Kin	-0.02271	0.82435417	0.911403
25566	Tmod1	-0.02273	0.18482281	0.35591
683420	LOC683420	-0.02277	0.67729943	0.819619
294258	Nelfe	-0.02284	0.65042733	0.8025
500475	LOC500475	-0.02284	0.83669258	0.918698
308201	Riok2	-0.02286	0.69291682	0.830445
361434	Cdk10	-0.02289	0.51048871	0.696586
681021	Paqr6	-0.02292	0.41617434	0.612049
306030	Med4	-0.02292	0.6924812	0.830289
313524	Zswim5	-0.02293	0.55493471	0.734399
316333	Actr1b	-0.02294	0.12601562	0.271582
64639	Bad	-0.02294	0.62800439	0.785263
685079	Sys1	-0.02298	0.68286168	0.823316
192117	Syngap1	-0.02299	0.6549774	0.803585
300519	Esam	-0.02299	0.74358629	0.861464
60564	Syt9	-0.023	0.53101517	0.713201
312826	Cmas	-0.02303	0.27465712	0.466706
54281	Furin	-0.02304	0.51600337	0.701498
292535	Leng1	-0.02306	0.73221372	0.854683
292944	Reps1	-0.02312	0.52572276	0.709545
304503	Hectd4	-0.02315	0.18444574	0.355328
316242	Tctel1	-0.02316	0.60399936	0.767134
296583	Nacc2	-0.02318	0.08259074	0.19951
171297	Nlgn3	-0.0232	0.48722953	0.675348
315851	Elovl4	-0.0232	0.38398215	0.580622
314304	Acot3	-0.0232	0.75114523	0.867056
29667	Srsf5	-0.02321	0.25468149	0.443365
308837	Ints4	-0.02321	0.49368811	0.680733
308875	Rhog	-0.02321	0.4621364	0.652777
680933	LOC680933	-0.02321	0.82953192	0.914791
498805	Thns11	-0.02322	0.76861169	0.87838
303356	Tmem98	-0.02325	0.79877436	0.896814
309444	Fbxw4	-0.02325	0.60430983	0.767426
79210	Fstl1	-0.02326	1.99E-05	1.54E-04
84578	Hdac3	-0.02326	0.52103747	0.705572

288025	Hrasls	-0.02328	0.87946748	0.94427
293852	Bcap31	-0.02329	0.2147651	0.395227
113965	Hadh	-0.0233	0.40208752	0.599152
108351584	LOC108351584	-0.0233	0.7417595	0.860237
64619	Zbtb18	-0.02338	0.43738618	0.631301
257648	Cacna1b	-0.02338	0.22678668	0.410644
297832	Cntnap5a	-0.02339	0.93447402	0.978344
361987	Dennd4b	-0.02341	0.49495456	0.681591
360871	Mpz11	-0.02343	0.46901208	0.659602
140868	Fabp5	-0.0235	0.17565526	0.343642
503165	Arfgap3	-0.02351	0.44732589	0.639589
24426	Gstp1	-0.02353	0.31535338	0.509882
298784	Nlrc4	-0.02354	0.91490538	0.965232
81636	Adcy2	-0.02354	0.63934037	0.793706
297082	Malsu1	-0.02355	0.70911315	0.839971
171378	Ppp3cc	-0.02357	0.53561261	0.717806
100911374	LOC100911374	-0.02359	0.75208448	0.867615
360834	Vps4b	-0.02359	0.29895069	0.495519
500270	Ier3ip1	-0.02362	0.88197498	0.945736
619436	Med24	-0.0237	0.44238757	0.635246
362648	Arhgef19	-0.02371	0.73934027	0.859735
116479	F11r	-0.02373	0.71120375	0.841297
689314	Mapk11	-0.02373	0.39009387	0.587021
301579	Armc9	-0.02374	0.56589383	0.736416
296211	Ralgapa2	-0.02379	0.54283596	0.724276
309025	Tacc2	-0.0238	0.41411943	0.609922
64520	Mtal	-0.02381	0.44409783	0.63703
246047	Calcocol	-0.02381	0.48090247	0.669649
100909955	LOC100909955	-0.02382	0.97523096	1
103693219	NEWGENE_1308196	-0.02384	0.62066893	0.778647
85482	Nbn	-0.02386	0.47392527	0.664158
50558	Npepps	-0.02391	0.14650512	0.301675
305471	Patz1	-0.02392	0.58986779	0.75528
89823	Trpc6	-0.02392	0.81935802	0.909098
308218	Fam120b	-0.02393	0.37754533	0.574585
363045	Siae	-0.02397	0.6594861	0.805019
312200	Tmem209	-0.02397	0.67854147	0.820288
361384	Dnajb1	-0.02399	0.42806416	0.623183
293408	Hbs11	-0.024	0.22477151	0.407965
81674	Gtf2f2	-0.024	0.75516415	0.869692
305464	Depdc5	-0.02401	0.33721242	0.534027
64511	Fntb	-0.02406	0.41922552	0.61478
367302	Kcne4	-0.02408	0.75475027	0.869584
313346	Focad	-0.0241	0.51163127	0.697546
65038	Inpp11	-0.02412	0.46211909	0.652801
81024	Ical	-0.02417	0.49776769	0.684031
282826	Elac2	-0.02417	0.54752975	0.728293
29233	C1cn7	-0.02423	0.49014202	0.677561
294252	Msh5	-0.02427	0.93065635	0.975608
64896	Nolc1	-0.02427	0.27706763	0.469671
80977	Syt13	-0.02427	0.93065635	0.975608
500420	Tstd3	-0.0243	0.48656757	0.674676
366434	Btf314	-0.02432	0.61678499	0.776177
690195	Primal	-0.02432	0.61301013	0.773779
300988	Tex264	-0.02433	0.41910622	0.6147
114557	Wif1	-0.02434	0.80531095	0.900807

362384	Reep1	-0.02434	0.00576381	0.023351
79462	Txn2	-0.0244	0.46210523	0.652829
363481	Hdac8	-0.02441	0.77171232	0.880497
360874	Tada1	-0.02441	0.71110799	0.841392
498945	Zfp90	-0.02443	0.72201349	0.847974
290843	Gpat4	-0.02444	0.4178663	0.613779
310803	Extl2	-0.02445	0.40376785	0.600762
304645	Tbc1d9	-0.02447	0.23448624	0.420745
366004	Rnf224	-0.02447	0.97485989	1
100909954	LOC100909954	-0.02448	0.67703712	0.819458
29340	Prkce	-0.02451	0.31123386	0.50649
295686	Ube2e3	-0.02453	0.41820884	0.614046
293129	Alg8	-0.02455	0.77149381	0.880353
266689	Cyp4f6	-0.02459	0.68706733	0.826451
365389	Lrrc56	-0.02462	0.87925453	0.944307
289264	Grem2	-0.02468	0.45618302	0.647489
300146	Ppp6r2	-0.0247	0.31097179	0.506236
309828	Tspyl4	-0.0247	0.21635969	0.397662
78966	Arhgef11	-0.0247	0.17719132	0.345688
29677	Psmc3	-0.02472	0.16123638	0.323339
501702	Cenpv	-0.02473	0.79198067	0.892818
58970	Degs1	-0.02474	0.17172303	0.338347
303163	Igtp	-0.02475	0.72821989	0.851535
100360427	E2f4	-0.02478	0.63145332	0.788179
298300	Ttc22	-0.02479	0.92985591	0.975171
287299	Mfap3	-0.02479	0.78073297	0.885854
299607	Med16	-0.02489	0.44790361	0.639838
689030	Tbpl1	-0.02489	0.57682497	0.744839
361126	Sugp2	-0.0249	0.34370283	0.540129
290303	Spryd7	-0.02493	0.42107004	0.616536
315611	Scn4b	-0.02494	0.02795724	0.0853
361888	Sreklipl	-0.02495	0.90333595	0.957855
292584	Fiz1	-0.02495	0.63425049	0.789755
362419	Tamm41	-0.02497	0.71553293	0.844215
290527	Anxa11	-0.02499	0.22171779	0.404039
102548778	Parp10	-0.02499	0.74382252	0.861633
116673	Sdc3	-0.02504	0.038758	0.110369
116565	Lrpap1	-0.02509	0.34621303	0.54273
297388	Bola3	-0.02509	0.65135778	0.803024
681024	Ndufa4	-0.0251	0.13321298	0.282805
64028	Tsnax	-0.02511	0.26997895	0.461392
314046	Ankmy2	-0.02513	0.43339632	0.627826
252879	Cdk11b	-0.02514	0.38462121	0.581312
63836	Actn4	-0.02514	0.06414224	0.16428
102548559	Vcpkmt	-0.02514	0.73115885	0.853975
289159	Mettl13	-0.02515	0.61569375	0.775317
246211	Hsd3b7	-0.02515	0.71309184	0.842588
298594	Rcc2	-0.02516	0.2901742	0.485323
26962	Rpl8	-0.0252	0.13214894	0.281204
64363	Araf	-0.02521	0.30734015	0.50312
25416	Dpysl2	-0.02527	0.01299238	0.046018
64302	Rpl4	-0.02532	0.04264451	0.119138
296119	Dtwd1	-0.02532	0.77822314	0.884429
685269	Itga2b	-0.02532	0.8774066	0.943014
294204	Olr1750	-0.02541	0.92714747	0.973564
307938	Trim67	-0.02555	0.77487313	0.882465

309643	Fance	-0.02556	0.68165802	0.822333
29606	Pcsk7	-0.02558	0.56161475	0.733202
681989	Vipas39	-0.02559	0.45679633	0.648118
307913	Gsel	-0.02559	0.58963491	0.755083
171113	Blcap	-0.02563	0.49325232	0.680477
309207	Dagla	-0.02572	0.25289014	0.441457
300677	Atp5mg	-0.02575	0.20030296	0.376173
288669	Arpc3	-0.02576	0.22392695	0.406897
361094	Ubac2	-0.0258	0.55060759	0.730958
362703	Wdr43	-0.02584	0.61044216	0.77197
365684	Paip1	-0.02585	0.3954428	0.592635
291939	Mmaa	-0.02589	0.77266025	0.881051
29701	Scn11a	-0.02593	0.03862605	0.110059
684830	Ttc32	-0.02599	0.83991131	0.920057
500351	RGD1562378	-0.026	0.70794866	0.83948
114850	Wnt7a	-0.026	0.78631919	0.889067
691678	Tmem121	-0.02602	0.7176664	0.845685
245957	Ddx46	-0.02604	0.4044257	0.601506
29287	Rps19	-0.02606	0.28465819	0.478788
300186	Amigo2	-0.02608	0.61184453	0.773128
502176	LOC502176	-0.02613	0.94498429	0.985016
113975	Pom121	-0.02615	0.45473649	0.645917
102550196	Gcnt7	-0.02617	0.89084404	0.951069
501869	Sh2d1b	-0.02617	0.87313403	0.940332
300733	Tspan3	-0.0262	0.11006719	0.24546
363237	Wdr12	-0.02626	0.52906535	0.711887
29648	Nudc	-0.02628	0.22900901	0.413488
315731	Larp6	-0.02632	0.6696183	0.813218
78967	Mcam	-0.02635	0.05672264	0.149293
78973	Senp2	-0.02635	0.39858552	0.595845
24716	Ret	-0.02637	0.00570792	0.023149
289934	Oxsm	-0.02637	0.69133123	0.829275
307410	Rbm22	-0.02637	0.5457937	0.726746
316764	Mtcl1	-0.02639	0.4459774	0.638524
315047	Laptm4b	-0.02639	0.23907075	0.42636
305131	Lrrc8d	-0.0264	0.33272037	0.52876
288088	Ndufb4	-0.02641	0.26753324	0.458653
287447	Ctdnep1	-0.02643	0.40054634	0.597556
362524	Ptpn3	-0.02644	0.42352453	0.618987
171365	Snrpb	-0.02644	0.55452498	0.734214
289878	Pde6b	-0.02645	0.92731989	0.973584
314330	Cipc	-0.02645	0.39758649	0.594818
363855	Map2k7	-0.02649	0.61705515	0.776261
287398	Map2k4	-0.0265	0.40265293	0.599713
252934	Cox5a	-0.02656	0.107424	0.240976
499507	Fam151b	-0.02658	0.69016552	0.828451
306012	Polr3d	-0.02662	0.39326638	0.590489
94198	Psmbl	-0.02662	0.14620576	0.301221
29219	Snca	-0.02663	0.35048108	0.547169
85242	Pola2	-0.02665	0.78349514	0.887613
680549	Pknox2	-0.02671	0.45623928	0.64752
155430	Hey2	-0.02675	0.45255277	0.644161
294973	Acad9	-0.02678	0.47327081	0.66368
308336	Zfp580	-0.02681	0.61475391	0.774953
306549	Pomk	-0.02684	0.3910066	0.588023
502957	Ccdc171	-0.02688	0.71273236	0.842477

362125	Nr6a1	-0.02694	0.67289673	0.815847
171503	Camk1	-0.02697	0.55308296	0.733222
363662	Bcas3	-0.02699	0.3763955	0.573247
25179	Idh3g	-0.027	0.20238152	0.378397
100361134	Shisa9	-0.027	0.74930499	0.865929
290615	RGD1311847	-0.027	0.72043111	0.846951
311676	Pmepal	-0.02702	0.36098864	0.557812
25518	Ppia	-0.02708	1.27E-05	1.02E-04
362134	Mmadhc	-0.02711	0.55384874	0.733726
498910	Arl2bp	-0.02713	0.21342537	0.393636
100363455	Zfp69	-0.02715	0.84612072	0.923142
100359937	LOC100359937	-0.02724	0.09270755	0.21656
83471	Prep	-0.02725	0.30586206	0.501735
308430	Zfp575	-0.02726	0.87240501	0.939866
290783	Tusc3	-0.02726	0.33295197	0.528951
59312	Shank3	-0.02727	0.5832531	0.749886
303670	Tmem104	-0.02727	0.44444682	0.637482
362322	Slc25a13	-0.02727	0.6564813	0.80305
252902	Dync11i1	-0.02727	0.2052174	0.382348
306387	Naf1	-0.02728	0.75834815	0.872041
81775	Rps21	-0.02729	0.28638856	0.480637
362199	Vps39	-0.02738	0.27488613	0.466971
291844	Setd6	-0.02741	0.80563865	0.900592
192270	Plpp3	-0.02742	0.23781294	0.424913
316096	Zfp105	-0.02747	0.74703804	0.864306
299799	Rab21	-0.02752	0.36109587	0.557525
311130	Prkra	-0.02759	0.54526	0.726238
295961	Apip	-0.02765	0.66848939	0.812106
313436	Zcchc12	-0.02765	0.56227409	0.73361
140669	Abcb6	-0.02767	0.48420618	0.672479
305149	Nudt9	-0.02767	0.46167371	0.652559
498987	Tmem200a	-0.02768	0.65385111	0.802772
684322	Kcmf1	-0.0277	0.32658332	0.522276
287474	Txndc17	-0.0277	0.44964116	0.641262
64462	Csnk1d	-0.02776	0.09192793	0.215188
286899	Hsbp1	-0.02777	0.06676204	0.169283
414793	RT1-CE3	-0.02779	0.58051404	0.747929
80278	Cdk5rap3	-0.0278	0.51612115	0.701508
300726	Etfa	-0.02783	0.25881833	0.448109
289717	Tada2b	-0.02786	0.44936051	0.641102
314030	Cog5	-0.02787	0.51994346	0.704591
363599	Tnip1	-0.0279	0.3627147	0.559118
24765	Scg2	-0.02791	0.03318222	0.097645
360709	Tfg	-0.02793	0.13420945	0.284255
680178	Cldn20	-0.02797	0.81227064	0.905137
83533	Aifm1	-0.028	0.49008671	0.677583
313236	Trim14	-0.028	0.89413944	0.953145
171456	Nsa2	-0.02801	0.20547088	0.382634
140725	Cacng4	-0.02803	0.71542644	0.844404
309456	Wbp11	-0.02806	0.33630016	0.532893
309628	Wdr46	-0.02808	0.55628573	0.735471
60326	Kcnv1	-0.02816	0.62383226	0.781637
315298	Racgap1	-0.02818	0.58083675	0.74794
297516	Cpne9	-0.02819	0.72382735	0.849005
362217	Cenpb	-0.02828	0.23526066	0.421618
361542	U2af114	-0.02829	0.48290725	0.671606

308776	Pde8a	-0.0283	0.67213507	0.81539
108348322	LOC108348322	-0.02833	0.9245573	0.971594
360559	Pimreg	-0.02833	0.89346692	0.952801
84497	Dgat1	-0.02835	0.59203179	0.757084
294025	Stn1	-0.02836	0.59787359	0.761333
289568	RGD1311575	-0.02837	0.20866213	0.386723
309377	Sfrp5	-0.02839	0.02113148	0.068432
691426	Tmem201	-0.02842	0.64917915	0.801687
25581	Psmc2	-0.02843	0.09640493	0.222522
289590	Ociad1	-0.02845	0.08563899	0.204719
317498	Ppef1	-0.02845	0.14566871	0.300603
306582	Agpat5	-0.02847	0.50629994	0.693056
100359821	Zik1	-0.02848	0.72226932	0.848065
362455	Fam234b	-0.02849	0.30647346	0.502521
299053	Brms11	-0.0285	0.42017916	0.615468
680021	Grhpr	-0.02852	0.75263358	0.867933
296272	Tcf15	-0.02854	0.88004972	0.944522
25529	Ptprs	-0.02861	0.05215126	0.139282
290669	Gatad2a	-0.02861	0.36644344	0.562498
304104	Urb1	-0.02862	0.55726394	0.736355
313775	RGD1311517	-0.02862	0.72163623	0.84774
117020	Mcf21	-0.02864	0.23419008	0.420372
654495	Zdhhc16	-0.02866	0.64771181	0.80029
291006	Diras2	-0.02866	0.34586778	0.542233
691712	LOC691712	-0.02867	0.83158726	0.915361
295229	Naxe	-0.02869	0.56729244	0.737178
314612	Shc2	-0.02871	0.19746858	0.372171
296710	Arpc51	-0.02872	0.32605115	0.521731
297029	Gstk1	-0.02875	0.5128676	0.698481
108348051	LOC108348051	-0.02877	0.24700497	0.435575
259242	Wipf3	-0.02877	0.12411093	0.268876
100216475	Hexdc	-0.02877	0.67925298	0.82094
362432	Clec4d	-0.02878	0.89417789	0.953079
317260	Zmym3	-0.02884	0.32043414	0.515646
303393	Cox7b	-0.02884	0.21389511	0.394197
81518	Mef2d	-0.02889	0.26930753	0.46074
367112	Hmgcl11	-0.02892	0.64694196	0.79991
291824	Tk2	-0.02893	0.58798422	0.753628
300045	Exosc4	-0.02896	0.72970411	0.852642
303260	Spag7	-0.029	0.46066543	0.651908
315139	Tab1	-0.02902	0.55429865	0.734016
691153	Epop	-0.02902	0.92357979	0.97121
361654	RGD1310127	-0.02905	0.4650657	0.655893
266631	Rbm45	-0.02907	0.61140638	0.772779
100360682	Snrpe	-0.02907	0.50584371	0.69263
303056	Atp10b	-0.0291	0.78580543	0.888697
304490	Anapc7	-0.02912	0.54326593	0.724748
360983	Lgals1	-0.02916	0.26019365	0.449591
363110	Rwdd2a	-0.02917	0.86527412	0.934722
29230	Sqle	-0.02918	0.11862443	0.260037
361520	Dmac2	-0.02919	0.4835529	0.672111
289084	RGD1309104	-0.0292	0.40256061	0.599622
361736	Pat11	-0.02921	0.49600359	0.682395
100534597	Cenps	-0.02927	0.74922175	0.865886
686132	Hmcn2	-0.02928	0.78512056	0.888398
316424	Aox4	-0.02929	0.72813373	0.851539

289664	Ldb2	-0.02929	0.16744216	0.331525
360483	RGD1561796	-0.02929	0.85404212	0.927851
64529	Ctsb	-0.02932	6.82E-08	8.16E-07
307779	Rbmxt1	-0.02935	0.56063464	0.735553
171347	Mat2a	-0.02937	0.3789932	0.576097
54322	Cox6c	-0.02938	0.13785329	0.289493
366276	Prpf6	-0.02939	0.35152601	0.548306
292724	Ccdc97	-0.0294	0.39655147	0.593923
304570	Ddx51	-0.02945	0.67993609	0.821401
24416	Grm3	-0.02946	0.65413302	0.802911
114488	Rbm3	-0.02952	0.37197729	0.568427
24513	Ivd	-0.02953	0.39541924	0.592647
292160	Znhit6	-0.02955	0.6082219	0.770032
296467	Ythdf1	-0.02959	0.32280512	0.518017
171396	Sulf1	-0.02959	0.61439666	0.774605
25524	Psap	-0.0296	1.21E-07	1.40E-06
117596	Atp6v1b2	-0.02966	0.00844042	0.032182
501007	RGD1562618	-0.02966	0.34152348	0.538258
683519	Mrps22	-0.02966	0.52440229	0.708215
83785	Vegfa	-0.02968	0.28540792	0.479583
298584	Capzb	-0.02968	0.05700455	0.14991
288533	Taf6	-0.0297	0.44767304	0.639701
246295	Cep104	-0.0297	0.29747743	0.494066
313535	Eri3	-0.02972	0.21469248	0.395208
102546990	LOC102546990	-0.02973	0.92257137	0.970578
688717	Slirp	-0.02973	0.58556437	0.751589
291019	Fam120a	-0.02977	0.09561855	0.221351
306439	Gpm6a	-0.02979	0.38707827	0.58433
360547	Sat2	-0.0298	0.65561819	0.802613
681177	LOC681177	-0.02983	0.77244174	0.88096
296558	Anapc2	-0.02986	0.15700155	0.317016
84495	Xrcc1	-0.02986	0.49521367	0.6818
282581	Fzd6	-0.02987	0.77494137	0.88249
360477	Glyr1	-0.02987	0.3606426	0.557548
117103	Rab8a	-0.02992	0.41775811	0.613668
500111	Lrrc61	-0.02995	0.44679844	0.639266
499010	Syne1	-0.02995	0.07893659	0.192515
303811	Dvl3	-0.02996	0.25499148	0.443661
29434	Rasgrp1	-0.02997	0.51183478	0.697773
58812	Apln	-0.02997	0.86572119	0.935152
287134	Gnptg	-0.02997	0.4495094	0.641218
288611	Galnt17	-0.02998	0.34128601	0.538107
307210	Timm21	-0.02999	0.58662852	0.752549
292041	Wwox	-0.02999	0.59326786	0.758308
29283	Rpl29	-0.03	0.07994977	0.194388
363915	Tmem132c	-0.03	0.43099436	0.625203
363109	Pgm3	-0.03004	0.57444661	0.742523
310720	Wdr3	-0.03005	0.63918134	0.793663
406167	Prrt1	-0.03009	0.37273361	0.569126
306576	Nek3	-0.0301	0.75700567	0.871023
499431	Col13a1	-0.0301	0.84485201	0.922498
298586	Mrto4	-0.03016	0.55739447	0.736426
24185	Akt1	-0.0302	0.08510767	0.203884
360616	Ppp1r1b	-0.03021	0.59748791	0.761046
683402	Ap3s2	-0.03025	0.30341853	0.500572
312754	Ppp2r5a	-0.03027	0.52969193	0.712328

365381	Stk32c	-0.03027	0.51025827	0.696522
309607	RT1-CE5	-0.03028	0.32199328	0.517193
81005	Nptxr	-0.03029	0.05128269	0.137541
307248	Pstpip2	-0.0303	0.72328933	0.84874
266711	Lzts1	-0.0303	0.49223904	0.679621
303652	Cog1	-0.0303	0.39825422	0.595536
60373	Nop58	-0.03031	0.43924965	0.632601
100294508	LOC100294508	-0.03035	0.20811853	0.386129
313241	Mcart1	-0.03036	0.27283834	0.464777
103690139	LOC103690139	-0.03037	0.82359406	0.911144
684327	LOC684327	-0.0304	0.08523111	0.204102
300981	Acy1	-0.03045	0.45726032	0.648535
445268	Ufc1	-0.03046	0.29945198	0.496048
311332	Dl14	-0.03047	0.75541677	0.869825
305246	Ppef2	-0.03048	0.81293401	0.905452
290562	Sema3g	-0.03049	0.27843118	0.471479
303501	Arhgap23	-0.03049	0.23062048	0.41561
100359642	Chmp4b	-0.03054	0.36040143	0.557266
64315	Cd151	-0.03056	0.03333361	0.098014
25427	Cyp51	-0.03065	0.0067547	0.026717
363083	Fbxl22	-0.03067	0.84484901	0.922547
691898	Prr14	-0.03067	0.55867384	0.737758
294797	I17r	-0.03067	0.36490437	0.561131
296883	Rpa3	-0.03068	0.7429722	0.861119
295214	S100a1	-0.03069	0.67484616	0.817482
306599	Tubgcp3	-0.0307	0.43614831	0.630135
59315	Nxph3	-0.03073	0.73176107	0.854364
362517	Mrpl50	-0.03074	0.59405763	0.758554
302612	Tspyl2	-0.03075	0.29919563	0.495753
313056	Snrnp40	-0.03077	0.5938843	0.758485
64039	Fbxl20	-0.03078	0.23360864	0.419566
300206	Kans12	-0.03084	0.29110349	0.486407
100911668	LOC100911668	-0.03085	0.55321522	0.733219
103692129	Hoxa10	-0.03085	0.55321522	0.733219
313525	Hectd3	-0.03091	0.24234697	0.43043
366061	Galnt3	-0.03092	0.7928149	0.89323
497778	Dut	-0.03092	0.51499115	0.700572
64845	Gphn	-0.03093	0.41287424	0.6087
361614	Fam168a	-0.03094	0.08534646	0.204276
680252	Dmwd	-0.03095	0.34332448	0.539757
680858	Tmem40	-0.03097	0.88495947	0.947389
103694877	LOC103694877	-0.031	0.74126935	0.860035
29282	Rpl23	-0.031	0.14102853	0.294247
29723	Slc19a1	-0.03101	0.6908271	0.828984
305751	Nkiras1	-0.03101	0.26432924	0.454592
360822	Sppl3	-0.03101	0.30138546	0.498297
501083	Pdcd6ip	-0.03101	0.05130659	0.137586
688429	Arhgap10	-0.03104	0.44920262	0.641021
296315	Rab5if	-0.03105	0.35119828	0.547929
360550	Phf23	-0.03105	0.41884883	0.614512
116839	Rims2	-0.03108	0.36357624	0.560083
305428	Zbtb49	-0.03112	0.80719363	0.90159
311078	Psm14	-0.03112	0.26339269	0.453719
287984	Psm2	-0.03114	0.03762219	0.107714
108348046	LOC108348046	-0.03117	0.36734986	0.563481
303743	Notum	-0.03125	0.92045471	0.969368

691979	Esco2	-0.03125	0.77759844	0.883983
171442	Svop	-0.03128	0.34984973	0.546586
288606	Gtf2ird2	-0.03132	0.63746269	0.792149
304410	Castor2	-0.03134	0.4399174	0.633179
310815	Snx7	-0.03139	0.20265887	0.378767
100911959	LOC100911959	-0.03139	0.75807035	0.871985
64510	Rbm10	-0.03141	0.4304475	0.624647
117524	Ccnf	-0.03141	0.82282404	0.910451
58958	Nup210	-0.03145	0.72849551	0.851648
297784	Rrs1	-0.03148	0.64592164	0.798959
368001	Bcl7b	-0.03149	0.44122694	0.634489
690163	Oxct1	-0.03151	0.10849549	0.242751
292462	Lrp11	-0.03151	0.02444619	0.076689
497672	Brca1	-0.03152	0.76343832	0.875146
170923	Rap2b	-0.03152	0.8604629	0.931903
294672	Gfm2	-0.03153	0.58437576	0.750569
100360017	Mrps6	-0.03154	0.55845245	0.737619
286896	Sgpl1	-0.03163	0.25734638	0.446331
363065	Ube2q2	-0.03163	0.31481793	0.509276
293653	Acy3	-0.03164	0.64504752	0.798293
499391	Gemin7	-0.03164	0.72560926	0.850152
170538	Prkcd	-0.03165	0.1241343	0.268896
362201	Ccndbp1	-0.03167	0.40007236	0.59713
313610	Extl1	-0.03168	0.83402307	0.916982
304919	Dars2	-0.03168	0.66104249	0.806196
367033	Zfp26	-0.03169	0.63499925	0.790429
304709	Bfar	-0.0317	0.43720961	0.631333
290706	Hpf1	-0.03173	0.51915813	0.703928
315949	Armc8	-0.03173	0.35341123	0.550435
81008	Itga7	-0.03177	0.04659675	0.127854
294010	Actrla	-0.0318	0.0042787	0.018157
59317	Epb4111	-0.03189	0.0069767	0.027441
309415	Fam189a2	-0.0319	0.50792114	0.694376
363447	Tspan7	-0.03191	0.01645299	0.055855
29568	Map2k5	-0.03196	0.46182688	0.652581
58961	Azin1	-0.03196	0.05028374	0.135338
691931	Fam241a	-0.03198	0.7616518	0.874045
308592	Grwd1	-0.03199	0.64306174	0.796664
290322	Ints9	-0.03199	0.47218044	0.662639
313211	Nipsnap3b	-0.03203	0.43700269	0.631178
83588	Kcns3	-0.03203	0.22622802	0.409944
302557	Pqbp1	-0.03205	0.48307393	0.67169
305000	Exo1	-0.03207	0.91934253	0.968465
362110	Cdk9	-0.03209	0.294745	0.490898
298689	Ube2j2	-0.0321	0.31345361	0.508451
500532	Rnf220	-0.03212	0.24246673	0.430241
252918	Spag5	-0.03213	0.6853177	0.825076
94172	Slc27a1	-0.03214	0.15688744	0.316886
313235	Coro2a	-0.03218	0.15514754	0.314205
307811	Slc7a6	-0.03219	0.50094985	0.687561
361679	Dusp8	-0.0322	0.52100354	0.705576
25429	Cyp7b1	-0.03224	0.82037062	0.909427
301618	Ppp1r7	-0.03224	0.24659541	0.435215
100125362	LOC100125362	-0.03225	0.08584975	0.204991
300839	Lysmd2	-0.03227	0.31954193	0.514471
289810	C1d	-0.03227	0.47246852	0.662799

100362331	Ndufa4l2	-0.03228	0.83894774	0.91961
289796	Pkd1l1	-0.03228	0.83894774	0.91961
314555	Tspyl5	-0.0323	0.40539282	0.602051
679934	Brk1	-0.03232	0.15994894	0.321637
24399	Glud1	-0.03237	0.02341061	0.074173
313510	Atpaf1	-0.03237	0.38340229	0.58016
293652	Ndufs8	-0.03238	0.30395999	0.501032
680532	Sem1	-0.03238	0.47613607	0.665689
689988	Sox12	-0.03242	0.61777007	0.776647
29580	Fdft1	-0.03246	0.04305752	0.120028
25715	Slc11a2	-0.03249	0.44180366	0.634839
102552182	LOC102552182	-0.0325	0.61735374	0.77638
83809	Nsf11c	-0.0325	0.11483475	0.253774
29559	Grik1	-0.0325	0.09619689	0.222258
100361457	LOC100361457	-0.03252	5.23E-05	3.70E-04
315478	Snx19	-0.03253	0.11240227	0.249848
499724	RGD1560065	-0.03255	0.51338968	0.699092
360610	Nfe2l1	-0.03256	0.00341745	0.015024
308846	Uvrag	-0.03258	0.39043406	0.587394
290673	Atp13a1	-0.03258	0.34640954	0.542993
25257	Gamt	-0.0326	0.44455487	0.637589
102555033	LOC102555033	-0.03262	0.85294913	0.927616
114096	Idh3a	-0.03265	0.02881121	0.087305
315952	Dzip11	-0.03266	0.76719899	0.877661
246768	Cby1	-0.03267	0.49748928	0.683796
29234	Galr2	-0.03268	0.69520259	0.832033
500991	Nxpe4	-0.03271	0.83781468	0.919188
362720	Rrm2	-0.0328	0.7117415	0.841724
369016	Myadm	-0.03281	0.13431206	0.284314
304547	Tchp	-0.03281	0.58092654	0.747904
500102	Fam131b	-0.03288	0.07139339	0.178366
685867	Myl6	-0.03292	0.0054063	0.022157
300129	Cerk	-0.03292	0.14739292	0.302913
299938	Mrpl13	-0.03292	0.43286183	0.627243
364844	Pcdhgb7	-0.03297	0.61250172	0.773445
312638	Creld1	-0.03299	0.14304697	0.297448
83513	Mmp24	-0.03301	0.26801324	0.459186
294043	Sorcs3	-0.03302	0.47604035	0.665701
361453	Adat2	-0.03304	0.77102324	0.880027
24404	Gpx1	-0.03309	0.27150208	0.463122
289657	Tbc1d19	-0.0331	0.3129199	0.507931
246772	Vps4a	-0.03312	0.1712054	0.337502
290381	Vwa8	-0.03313	0.27329716	0.465309
361472	Mthfd11	-0.03315	0.49411406	0.680926
316039	Osbpl10	-0.03316	0.18541472	0.356833
360537	Tom1l2	-0.03321	0.00268307	0.012195
361853	Fam184a	-0.03322	0.56559827	0.736233
679693	Med12	-0.03327	0.298561	0.495089
113990	Hmgn3	-0.03328	0.4835661	0.672031
314280	Smoc1	-0.03331	0.46940111	0.659711
360491	Traf7	-0.03332	0.37394345	0.57047
293150	Stard10	-0.03335	0.27163914	0.463273
365567	Micul	-0.03337	0.05645668	0.148675
314627	Plk5	-0.03338	0.88367717	0.946602
361794	Nfkbil1	-0.03339	0.57030339	0.739728
301511	Arpc2	-0.03339	0.0163686	0.055628

499191	Ngrn	-0.03339	0.20497788	0.382014
501282	Mydgf	-0.03346	0.45943102	0.650693
295401	Plppr4	-0.03349	0.51213792	0.697887
29392	Bace1	-0.03352	0.27895365	0.472196
307948	Map10	-0.03353	0.85744573	0.93001
362588	Ndufs5	-0.03353	0.11862159	0.260061
81657	Gabbr1	-0.03354	6.86E-04	0.003712
298557	Pithd1	-0.03354	0.16402089	0.327818
100360936	Anapc16	-0.03354	0.54097168	0.7227
108348052	LOC108348052	-0.03355	0.7155145	0.844351
295695	Zfp804a	-0.03356	0.43340028	0.627784
25266	Pdgfa	-0.03357	0.35328965	0.55029
362103	Ntmt1	-0.03358	0.62635496	0.78387
494521	Kctd10	-0.03358	0.12251807	0.266547
100911848	LOC100911848	-0.03359	0.74417702	0.861886
498001	Cntd1	-0.0336	0.76389839	0.875568
501003	RGD1563578	-0.0336	0.82395472	0.91112
363291	Thap4	-0.03362	0.56944947	0.739023
301245	Yipf3	-0.03363	0.21256013	0.392382
310306	Usp13	-0.03365	0.15650342	0.316379
680248	Nudt11	-0.0337	0.42313537	0.618609
679221	Mapre2	-0.0337	0.0059942	0.0241
298652	Ube4b	-0.0337	0.07402823	0.183457
287722	Tmem106a	-0.03374	0.51579173	0.70131
50672	Ednrb	-0.03375	0.14892465	0.304746
116717	Trip10	-0.03376	0.40497288	0.602038
50685	Myl12b	-0.03377	0.03759986	0.107666
286937	Pex5l	-0.0338	0.34264413	0.539311
307585	Cables1	-0.0338	0.56831851	0.738008
303332	Tmem199	-0.03382	0.3483587	0.545286
100910121	LOC100910121	-0.0339	0.81072876	0.90453
296372	Ncoa5	-0.03393	0.43885769	0.632562
300053	Kifc2	-0.03404	0.33780945	0.534617
171046	Tcf3	-0.03409	0.47314001	0.663546
364388	Cideb	-0.03413	0.81709031	0.908117
501231	Vwc2	-0.03414	0.85605948	0.929354
680133	Tbcl8	-0.03415	0.5184927	0.703426
289181	Dcaf6	-0.0342	0.16556216	0.329412
680594	Dph3	-0.0342	0.44076444	0.633967
29489	Dync1h1	-0.03422	1.63E-06	1.56E-05
289502	Ccdc158	-0.03422	0.72812473	0.85158
81765	Rpl13	-0.03423	0.04479439	0.124071
58845	Igbp1	-0.03424	0.36693189	0.563021
50545	Dpf1	-0.03425	0.75299048	0.868134
679091	Mettl1	-0.03426	0.65357671	0.802538
292534	Tsen34	-0.03426	0.32829321	0.523866
25238	Grk2	-0.03428	0.1650254	0.329307
681282	LOC681282	-0.0343	0.63870301	0.79338
85489	Twist1	-0.03437	0.78096526	0.885959
290426	Klh11	-0.03438	0.71575893	0.844221
287125	Nubp2	-0.03439	0.43146019	0.625593
266712	Rnf40	-0.03441	0.3691254	0.565294
103692165	LOC103692165	-0.03444	0.21062772	0.389419
292894	Nosip	-0.03448	0.43490876	0.628917
140910	Msmo1	-0.03448	0.04633654	0.127452
689593	Dnajb2	-0.03453	0.05307424	0.141311

171443	Slc12a9	-0.03458	0.60546082	0.76817
298757	Atl2	-0.0346	0.34851632	0.545398
140946	Paics	-0.0346	0.17461819	0.342211
288778	Pa2g4	-0.0346	0.28204006	0.475644
360662	Sap30bp	-0.03461	0.34842518	0.545345
307989	Ablim1	-0.03462	0.01531672	0.052788
286922	Fads3	-0.03464	0.27496727	0.467025
291670	Cxxc5	-0.03464	0.26753703	0.458618
100362764	Ddx55	-0.03469	0.62837293	0.785569
140940	Arf3	-0.03469	0.00538215	0.022086
367113	Lrrc1	-0.03471	0.70325733	0.836782
60571	Mybbpla	-0.03471	0.23270348	0.418532
291772	Kctd1	-0.03478	0.46094665	0.65216
114521	Tdg	-0.03478	0.4165275	0.61238
292699	Cblc	-0.03478	0.91576349	0.96571
25388	Arrb2	-0.03482	0.26058923	0.449988
312706	Emg1	-0.03482	0.53951099	0.721558
117243	Acs16	-0.03484	0.08659203	0.206324
500915	Fam19a5	-0.03484	0.2897374	0.484933
293016	Map7	-0.03485	0.17642984	0.344697
407764	St6galnac4	-0.03489	0.58195759	0.748675
259170	Casc3	-0.03492	0.26839826	0.459598
29745	Sema4f	-0.03493	0.23857195	0.42571
316122	Abhd5	-0.03493	0.3255391	0.521218
679383	Sepsecs	-0.03494	0.55495896	0.73438
84509	Ran	-0.03494	0.03132697	0.093368
171366	Ppp4c	-0.03495	0.39258178	0.589879
246254	Gpsm1	-0.03496	0.36485484	0.5611
50689	Mapk3	-0.03496	1.52E-05	1.20E-04
287661	Cisd3	-0.03497	0.38171465	0.578572
300721	Dnaj4	-0.03507	0.13297867	0.282465
687696	Stambpl1	-0.03513	0.39489175	0.592136
363123	Rab6b	-0.03517	1.80E-07	2.01E-06
297900	Pef1	-0.03517	0.21127589	0.390314
360826	Hscb	-0.03521	0.60963025	0.771353
114613	Slc5a5	-0.03524	0.77716739	0.883809
292485	Fuca2	-0.03525	0.42950055	0.624177
309434	Hif1an	-0.03526	0.52845911	0.711323
308836	Kctd14	-0.03527	0.7940552	0.893517
360972	Thoc5	-0.03527	0.35283981	0.549815
498888	Siglec15	-0.03527	0.8801996	0.94463
292624	Nop53	-0.0353	0.22234613	0.404758
246246	Pnpla7	-0.03532	0.52817808	0.711045
367314	Lrrfip1	-0.03536	0.24242104	0.430441
299310	Ndufb11	-0.03544	0.24582725	0.434222
60356	Csad	-0.03545	0.3888958	0.586052
103694866	LOC103694866	-0.03546	0.39929719	0.596487
498957	Klhl36	-0.03548	0.7353341	0.857275
309674	Rrp1	-0.03549	0.35767358	0.55476
292413	Fpr3	-0.03553	0.97586124	1
681062	Slbp	-0.03556	0.44017613	0.633456
303693	Mgat5b	-0.03562	0.58486636	0.750895
685699	LOC685699	-0.03564	0.90732634	0.960429
361402	Prmt7	-0.03565	0.5088305	0.69527
315136	Cbx6	-0.03565	0.01386553	0.04848
316435	Cyp20a1	-0.03567	0.48198003	0.670806

29421	Urod	-0.0357	0.28105233	0.474693
293620	Ptdss2	-0.0357	0.22674529	0.410608
498278	Cfap126	-0.03578	0.77631583	0.88321
691069	Pkd112	-0.03578	0.91448088	0.964945
79107	Duox2	-0.03579	0.76881166	0.878451
362441	Itfg2	-0.03583	0.60629916	0.768568
363219	Mitd1	-0.03583	0.62238164	0.780179
24611	Gnal	-0.03586	0.02181064	0.070154
498606	Kxd1	-0.03591	0.30739002	0.503115
295928	Slc39a13	-0.03596	0.30697633	0.503
117107	Zbtb7a	-0.03601	0.10673713	0.239916
688634	Kat6b	-0.03602	0.42386091	0.619384
360746	Ppil2	-0.03604	0.35047901	0.54721
58827	Mest	-0.03605	0.27856386	0.47162
25392	Atp5if1	-0.03605	0.0519137	0.138745
313231	Alg2	-0.03606	0.04976983	0.134487
361613	Ppme1	-0.03607	0.0587619	0.153704
683955	Flvcr1	-0.03609	0.73297964	0.855367
361879	Wdr41	-0.03609	0.39180468	0.58899
309681	Cfap410	-0.0361	0.26215764	0.451796
84478	Ufd1	-0.03613	0.18908155	0.361879
65096	Adgrl1	-0.03617	0.10516293	0.237133
306091	Pcdh9	-0.0362	0.18420988	0.355017
367903	Armcx2	-0.03621	0.0779563	0.190588
25075	Htr1b	-0.03624	0.6464169	0.799468
102556031	Coa6	-0.03626	0.56300297	0.73431
114591	Dpp3	-0.03628	0.09722064	0.223944
682058	Nom1	-0.03632	0.44219035	0.635059
294504	Ppa1	-0.03635	0.07901184	0.192649
296350	Serinc3	-0.03635	0.00245165	0.011273
363103	Slc17a5	-0.03636	0.43039851	0.624624
252881	Exoc3	-0.03636	0.24128333	0.429021
497921	Slc47a2	-0.03638	0.77438664	0.882175
502782	Pigy	-0.03639	0.29860102	0.495112
314655	Adamts10	-0.03639	0.37151172	0.568035
306182	Ipo5	-0.0364	0.06222766	0.160521
362533	Tle1	-0.03651	0.26288904	0.452892
294783	Wdr70	-0.03656	0.52245459	0.706687
304900	Astn1	-0.03657	0.15778221	0.318154
303076	Surf6	-0.03657	0.53250946	0.714804
293500	Pagr1	-0.03658	0.38883635	0.586008
298646	Agtrap	-0.0366	0.49075566	0.678114
102557368	LOC102557368	-0.03662	0.92498185	0.971933
100233213	Insyn2	-0.03668	0.65633124	0.80297
171454	Nacc1	-0.03668	0.07589999	0.186904
310746	Ap4b1	-0.03671	0.40302934	0.600086
313742	Phf13	-0.03672	0.63504727	0.790179
306261	Eaf1	-0.03672	0.21890422	0.40056
300445	Prkcsh	-0.03677	0.10674079	0.239896
308913	Egln1	-0.03681	0.2771751	0.469769
361531	Paf1	-0.03682	0.31187613	0.507015
498024	Kctd2	-0.03685	0.37545643	0.57232
266713	Mnat1	-0.03688	0.42257558	0.618027
314329	Irf2bpl	-0.03689	0.34108842	0.537973
362952	Eif3d	-0.0369	0.26714866	0.458447
103689948	LOC103689948	-0.03696	0.91518551	0.965314

24465	Hprt1	-0.03701	0.3037387	0.50084
83782	Nme2	-0.03707	0.04917715	0.133473
361774	Fam160b1	-0.03708	0.31863522	0.513402
361801	Rxrb	-0.03709	0.31240324	0.507612
304023	St3gal6	-0.03711	0.44807023	0.640028
294014	Cnnm2	-0.03713	0.50523714	0.691999
79240	Nr4a1	-0.03714	0.19327228	0.366986
108348229	LOC108348229	-0.0372	0.54210776	0.723659
363272	Pde6d	-0.03721	0.26339738	0.453686
360821	Gatc	-0.03723	0.18150929	0.351305
501167	Gmppa	-0.03724	0.45683491	0.648076
305438	Sorcs2	-0.03727	0.13338278	0.283071
360801	Ncor2	-0.03731	0.01118766	0.040623
689955	LOC689955	-0.03734	2.62E-10	4.34E-09
362791	Sival	-0.03735	0.67043963	0.813956
502643	Ypel4	-0.03738	0.45590296	0.647236
306969	Hist1h2bf	-0.03751	0.96273389	0.997078
100360757	Ctcf1	-0.03757	0.78716361	0.889705
304761	Zranb3	-0.03758	0.60834286	0.770082
301512	Aamp	-0.03762	0.12032235	0.263002
301252	Hsp90ab1	-0.03763	8.62E-13	1.86E-11
684035	Rnpepl1	-0.03767	0.30884534	0.503894
362590	Inpp5b	-0.03767	0.34224848	0.538955
691799	I117d	-0.03769	0.53870846	0.720687
297383	Rtkn	-0.03772	0.19495248	0.369219
303499	Sp2	-0.03773	0.44881683	0.640854
64371	Prdx3	-0.0378	0.15053343	0.307147
292007	Dhx38	-0.03781	0.43881716	0.632552
362438	Ncapd2	-0.03783	0.59405142	0.758597
25061	Crabp1	-0.03784	0.71362111	0.843109
60323	Arhgef1	-0.03787	0.21404855	0.394365
689054	Lin28b	-0.03789	0.74383346	0.861593
170929	Bcl2a1	-0.03795	0.87546826	0.941781
246331	Nrpl	-0.03797	0.24074457	0.428383
171432	Tmem14c	-0.03798	0.1594729	0.320883
308765	Arpin	-0.038	0.58695834	0.752769
319113	Yrdc	-0.03803	0.56427462	0.735314
306945	Hist1h2bh	-0.03806	0.16163272	0.324031
100910596	LOC100910596	-0.03814	0.78549023	0.888446
498402	Ascc2	-0.03815	0.54955741	0.730124
306257	Bap1	-0.03816	0.05147427	0.137958
100362346	Mta3	-0.0382	0.17896559	0.347654
363989	Phlda3	-0.03824	0.12919601	0.276434
170897	Sphk1	-0.03826	0.46032261	0.651713
313030	Ppp1r8	-0.03827	0.41336155	0.60923
290657	Klh126	-0.03828	0.38776212	0.584991
301460	Adam23	-0.03831	2.92E-05	2.19E-04
81730	Fez1	-0.03833	0.00557065	0.022665
305386	Tapt1	-0.03836	0.36888858	0.564977
114495	Map2k6	-0.03841	0.57706717	0.745051
293455	Gga2	-0.03843	0.26935602	0.460699
362622	Cep85	-0.03844	0.43776924	0.631663
687183	Kri1	-0.03844	0.41611423	0.612008
311187	Pacsin3	-0.03844	0.45417568	0.645554
293152	Art2b	-0.03845	0.92249829	0.970608
24206	Apeh	-0.03847	0.18974884	0.362755

83474	Tfam	-0.03849	0.5276205	0.710746
363061	Sdhd	-0.03851	0.16436636	0.328336
100302465	LOC100302465	-0.03853	0.87446482	0.941021
65272	Kcnk10	-0.03857	0.59794588	0.761375
296649	Rabepk	-0.03861	0.45816645	0.649385
303190	Atpaf2	-0.03861	0.55396033	0.733721
102546809	Smim35	-0.03865	0.72344894	0.848875
290995	Preli1	-0.03866	0.0842329	0.202476
500400	Fam110b	-0.0387	0.35773898	0.554816
289753	Rhbdd3	-0.03873	0.46785161	0.658749
314917	Pkhd111	-0.03873	0.8461569	0.923129
303660	Btbd17	-0.03875	0.90989512	0.962399
316241	Nfkbie	-0.03876	0.48401231	0.672406
363595	Tcf7	-0.03877	0.75135571	0.867247
29757	Atp6v0a1	-0.03877	0.00243561	0.011213
362776	Glrx5	-0.03883	0.25487278	0.443495
293692	Ehd1	-0.03893	0.10273505	0.2334
287444	Eif5a	-0.03894	0.00113007	0.005738
103691033	LOC103691033	-0.03895	0.61533131	0.775322
314788	RGD1307947	-0.03896	0.50849329	0.695059
100360334	Fhod3	-0.03897	0.18197456	0.35192
303659	Kif19	-0.03898	0.14630422	0.301391
304558	Ttc28	-0.03903	0.37965569	0.576782
100362470	Mrtfb	-0.03905	0.8208571	0.909702
306564	Htra4	-0.03907	0.27653402	0.468975
361190	Usp19	-0.03912	0.08357606	0.201176
292640	Vtal	-0.03913	0.22111813	0.403217
29602	Ptgfrn	-0.03913	0.19394125	0.367816
291906	Aktip	-0.03921	0.07577127	0.186659
83583	Rabac1	-0.03921	0.03902212	0.110972
100911699	LOC100911699	-0.03921	0.93970486	0.981877
58851	Nr1h2	-0.03923	0.12910946	0.276373
102555038	LOC102555038	-0.03924	0.86070115	0.932002
94271	Atp5pf	-0.03928	0.07646033	0.187847
313644	Raplgap	-0.03928	0.04217161	0.117955
367172	Dhx30	-0.0393	0.14557505	0.300442
306594	McpH1	-0.03939	0.67234077	0.815536
170914	Nap113	-0.0394	0.18594284	0.357525
307366	Malt1	-0.0394	0.63129008	0.788078
296162	DdrGk1	-0.03942	0.20974559	0.388165
641434	Atp5pd	-0.03944	0.05201588	0.138979
302593	Tceal1	-0.03947	0.45807445	0.649351
296639	Ciz1	-0.03953	0.26711817	0.458436
100360501	Rnh1	-0.03956	0.1431499	0.297403
294508	PalD1	-0.03959	0.40513767	0.602189
293128	Nars2	-0.03961	0.58665203	0.752528
100912582	LOC100912582	-0.03961	0.69056865	0.828778
84489	Fgfr3	-0.03962	0.79985536	0.89734
140662	Rplp2	-0.03964	0.07726196	0.189279
310348	Larplb	-0.03967	0.21774987	0.399215
300089	Pmm1	-0.03967	0.08195193	0.198446
140720	BaalC	-0.03969	0.39962778	0.596653
363332	Ubxn6	-0.03973	0.20602788	0.383483
246311	Pdp2	-0.03974	0.62991109	0.786924
361836	Slc25a16	-0.03978	0.23199929	0.417463
498159	Spry3	-0.03979	0.41726709	0.612994

29640	Dpm2	-0.0398	0.46134668	0.652435
25488	Ndufa5	-0.03985	0.18468189	0.355711
311427	Hspa12b	-0.03988	0.34458689	0.541205
307861	Terf2ip	-0.03993	0.2241026	0.407061
361107	Actr8	-0.03994	0.28818325	0.482968
289397	Kif21b	-0.03994	0.24100499	0.428606
296564	Fut7	-0.03995	0.78026503	0.885534
25591	Parp1	-0.03997	0.08819726	0.208738
108348076	NEWGENE_1308105	-0.04	0.3360416	0.532616
619558	Fam134b	-0.04003	0.16912543	0.334232
315992	Dock3	-0.04007	0.12912101	0.276367
498972	Cpne2	-0.04007	0.23583759	0.422533
362385	Pole4	-0.04009	0.36510594	0.561259
100910792	LOC100910792	-0.04016	0.07400938	0.183434
58822	Csnkle	-0.04017	0.20517258	0.382302
24697	Ptpn1	-0.04024	0.53809324	0.720117
691135	LOC691135	-0.04025	0.70350917	0.83703
29565	Eef2	-0.04025	3.65E-08	4.52E-07
298933	Rnaseh1	-0.04029	0.65770704	0.80393
64060	Vps33b	-0.04031	0.46921529	0.659742
259275	Ostf1	-0.04032	0.02453053	0.07689
360971	Nipsnap1	-0.04033	0.11950149	0.261448
293456	Cog7	-0.04034	0.34773667	0.54467
309280	Plxna3	-0.04034	0.14572823	0.300693
303298	Raplgap2	-0.04037	0.0344442	0.100504
302325	Sat11	-0.04038	0.90881633	0.961632
313050	Lck	-0.04038	0.84275185	0.92179
303259	Mink1	-0.04041	0.00588912	0.023767
245925	Phrf1	-0.04045	0.22922465	0.413721
297720	Casc1	-0.04045	0.59493235	0.758806
298203	Stoml2	-0.04045	0.24923309	0.437721
303350	Rnf135	-0.04046	0.68035548	0.821491
295161	Fhdcl	-0.04047	0.34433028	0.540892
290614	Cherp	-0.04049	0.28395477	0.477858
306804	Iars	-0.0405	0.04813468	0.131073
311802	Ssna1	-0.04052	0.36622724	0.562393
114087	Banf1	-0.04054	0.26831776	0.459542
360531	Sap301	-0.04056	0.14270311	0.296895
293722	B3gat3	-0.04058	0.03094141	0.092363
303248	Neurl4	-0.04065	0.17226867	0.339107
100361928	Tmem198	-0.04069	0.56529209	0.735985
64120	Kcnk13	-0.0407	0.81806256	0.908614
100362255	Adgrv1	-0.04071	0.55000502	0.730565
81528	Ogg1	-0.04074	0.56031102	0.735686
313977	Lpin1	-0.04076	0.05995474	0.155925
498814	Mtcp1	-0.04078	0.82729653	0.913013
65025	Rims3	-0.04079	0.33879249	0.535372
313450	Rnf113a1	-0.0408	0.72956001	0.852683
680476	Bloc1s3	-0.04081	0.57256469	0.741701
102546764	LOC102546764	-0.04087	0.49889365	0.68538
292658	Prkd2	-0.04088	0.67765847	0.819637
305441	Sh3tc1	-0.0409	0.79652344	0.895026
63864	Hsd17b10	-0.04092	0.24636382	0.434887
29163	Cdh9	-0.04092	0.57201775	0.741195
117262	Psmc4	-0.04098	0.07997004	0.194388
301563	Mff	-0.04102	0.04514169	0.124887

301221	Mocs1	-0.04109	0.50663725	0.693268
302562	Plp2	-0.0411	0.19984653	0.375464
683077	Pja1	-0.0411	0.01551722	0.053383
299569	Akap81	-0.04112	0.21092182	0.389774
245961	Dmgdh	-0.04114	0.68862945	0.827546
314704	Hcfc2	-0.04114	0.53330356	0.715215
679811	LOC679811	-0.04115	0.1854065	0.356854
293056	Cpeb1	-0.04122	0.04560861	0.125868
303372	Nle1	-0.04122	0.66482167	0.809302
24215	Atp2b2	-0.04125	0.05788396	0.151825
78958	Bcam	-0.04126	7.62E-04	0.004082
81649	Mapk14	-0.04128	0.19329381	0.36699
298712	Gpalpp1	-0.04135	0.54670382	0.727652
65031	Doc2a	-0.04137	0.46321284	0.653958
307579	Zfp521	-0.04139	0.36079647	0.557696
680309	Snrpd2	-0.0414	0.28724063	0.481728
290396	Diaph3	-0.04143	0.65293419	0.802008
291709	Slc25a46	-0.04143	0.07344177	0.182336
315599	Nlrx1	-0.04145	0.42104522	0.616547
58853	Nr4a3	-0.04149	0.78202422	0.886738
103694872	LOC103694872	-0.04149	0.17034845	0.336195
303306	Srr	-0.04154	0.47522753	0.665493
100363361	LOC100363361	-0.04155	0.38843804	0.585593
294930	Nceh1	-0.04157	0.22886559	0.413347
311245	Traf6	-0.04158	0.69963102	0.835338
300968	Uba5	-0.04161	0.20809939	0.386169
313699	RGD1305350	-0.04161	0.18964613	0.362595
257647	Slc35a4	-0.04163	0.15956736	0.321006
29134	Axin2	-0.04163	0.6118724	0.773009
117251	Dnah9	-0.0417	0.79445564	0.893757
170668	Rasgrp4	-0.0417	0.84006924	0.920124
310727	Cd101	-0.0417	0.86912267	0.937922
362502	Ubap1	-0.04173	0.21740369	0.398811
252962	Phtf1	-0.04174	0.10643088	0.239454
689432	Mrps21	-0.04182	0.30701053	0.502969
102555298	Wdr90	-0.04185	0.6512828	0.802983
54292	Rgs12	-0.04186	0.45884542	0.650105
309447	Ldb1	-0.04186	0.18147079	0.351267
360658	Gga3	-0.04192	0.16103526	0.32331
54398	Ppt2	-0.04193	0.33885162	0.535377
291352	Gpr158	-0.04196	0.00761558	0.029479
25284	Amacr	-0.04197	0.51510659	0.700579
29153	Capn1	-0.04198	0.02470037	0.077308
362641	Minos1	-0.042	0.1849486	0.356044
29666	Psmb6	-0.04203	0.03956863	0.112324
296131	Fahd2a	-0.04204	0.43249353	0.626852
499689	Gstm4	-0.04205	0.3507476	0.547405
406230	Rpp21	-0.04206	0.51463256	0.700434
56611	Anxa2	-0.04207	9.87E-09	1.33E-07
100190936	Rnf123	-0.04209	0.08750204	0.207505
311791	Zmynd19	-0.0421	0.5598038	0.735476
292597	Ttyh1	-0.04213	0.0032017	0.014224
24522	Zfp354a	-0.04213	0.69373156	0.831055
685131	Meal	-0.04217	0.10638888	0.239388
365176	Zfp787	-0.04218	0.57399479	0.742292
500331	LOC500331	-0.0422	0.36703611	0.56309

24596	Ngfr	-0.04227	8.41E-07	8.45E-06
29477	Mapt	-0.04227	8.11E-05	5.49E-04
294207	Ppp1r11	-0.04235	0.07174606	0.179107
103693432	Ptges31	-0.0424	0.76042862	0.873853
60568	Syt11	-0.0424	1.80E-09	2.68E-08
684352	Twf2	-0.04246	0.44584285	0.638475
296864	Zc3h12b	-0.04254	0.79233351	0.893005
499209	Kctd21	-0.04254	0.55605029	0.735262
300521	Tbrg1	-0.04259	0.25330557	0.441817
689574	LOC689574	-0.04269	0.19624709	0.370897
293181	Galnt18	-0.0427	0.16270963	0.325676
679126	Zcchc18	-0.04271	0.0205022	0.06686
291966	Tppp3	-0.04271	1.27E-07	1.46E-06
246185	Dus11	-0.04279	0.44944365	0.641173
292788	Psenen	-0.0428	0.16523197	0.328961
303000	Capn15	-0.0428	0.30954305	0.504514
140657	Faf1	-0.04286	0.20096854	0.376532
360631	Mlx	-0.04288	0.18092455	0.35053
687633	Ube3b	-0.04292	0.01698763	0.057313
171435	Aagab	-0.04299	0.19586924	0.370403
78975	Prkaa2	-0.04301	0.18353338	0.353928
498967	RGD1559896	-0.04301	0.07001051	0.175649
362528	Fkbp15	-0.04303	0.19267738	0.366331
29202	Epha6	-0.04303	0.60557124	0.768259
295324	Ttf2	-0.04306	0.51626061	0.701597
361207	Tmed9	-0.04307	0.15350409	0.311672
312301	Zfp956	-0.04307	0.61712427	0.776245
289036	Adipor1	-0.04309	0.00707433	0.027745
302540	Lancl3	-0.04311	0.72202944	0.84794
311496	Cfap61	-0.04311	0.83726679	0.919169
291171	Trim27	-0.04319	0.30397356	0.501011
287535	Vps53	-0.04324	0.08748155	0.207509
361800	Stk19	-0.04326	0.59523307	0.759037
685620	Tomm7	-0.04328	0.17711901	0.345583
81859	Sharpin	-0.04328	0.18049948	0.349813
294762	Parp8	-0.04329	0.25693098	0.446017
316212	Prickle4	-0.04331	0.64525357	0.798444
297357	Ctnna2	-0.04333	0.05048926	0.135834
295629	Cd302	-0.04339	0.44062741	0.633866
299208	Tt115	-0.04343	0.190375	0.363332
291394	Cndp2	-0.04345	0.07535263	0.185917
65201	Clip1	-0.0435	0.11291557	0.250755
688912	Mrps16	-0.04354	0.42907674	0.624228
314465	Ppp1r13b	-0.04356	0.20700655	0.384703
362172	Trim44	-0.04356	0.34779381	0.544625
287069	Trap1	-0.04357	0.09415487	0.218787
362946	MGC94207	-0.04359	0.26866151	0.460007
60341	Camkk1	-0.04365	0.18200265	0.351938
64351	Ykt6	-0.04371	0.08344502	0.200937
501281	Ranbp3	-0.04371	0.18523277	0.356555
300025	Ly6h	-0.04374	0.75187728	0.867533
292751	Med29	-0.04375	0.34667112	0.543314
360891	Enah	-0.0438	0.03507021	0.101831
305792	Kctd6	-0.04382	0.36714061	0.563205
305984	Cdca2	-0.04385	0.81086739	0.904579
684233	Rbm15	-0.04385	0.70514952	0.838248

361840	Spock2	-0.04385	4.27E-11	7.67E-10
289859	Cfap36	-0.04387	0.05743932	0.150846
29599	Atp2b3	-0.04389	0.0384361	0.109534
294674	Enc1	-0.04391	0.55745502	0.736455
497978	Dgke	-0.04395	0.17798087	0.346731
192241	Atp5po	-0.04396	0.02377279	0.075146
500394	Sntg1	-0.04397	0.83667372	0.91873
288772	Spryd4	-0.04399	0.57401155	0.742263
25084	Il4r	-0.04402	0.50440631	0.69101
100911970	Mipol1	-0.04404	0.58208769	0.748792
312246	RGD1306271	-0.04404	0.48058966	0.669262
361370	Tom1	-0.04405	0.12224366	0.266133
289950	Pdhh	-0.04405	0.02631593	0.081256
500711	Ppp4r4	-0.04407	0.36502925	0.561232
304555	Hps4	-0.0441	0.3301559	0.526442
361025	Txndc16	-0.04412	0.33314685	0.529217
314380	Tdp1	-0.04413	0.63105095	0.787883
362812	Slc39a5	-0.0442	0.32533868	0.521029
299202	Rps6k11	-0.04421	0.36294031	0.559375
361825	Smarcb1	-0.04422	0.18863375	0.361203
25620	Crem	-0.04426	0.47390753	0.664182
64204	Plec	-0.04426	1.09E-05	8.89E-05
363289	Mterf4	-0.04426	0.50315317	0.689839
171093	Shank2	-0.04427	0.22835715	0.412859
108351182	LOC108351182	-0.04428	0.65268442	0.801908
307973	Def8	-0.04431	0.29770487	0.494228
363015	Endod1	-0.04433	8.05E-06	6.72E-05
360618	Ormdl3	-0.04434	0.19296672	0.366662
364050	Dcaf8	-0.04434	0.09363506	0.217898
296478	Zgpat	-0.04436	0.47011322	0.660468
315904	Paqr9	-0.04436	0.37635606	0.573233
407784	Rnf5	-0.0444	0.13245349	0.281726
303734	Tbc1d16	-0.04443	0.43489149	0.62894
303002	Rab11fip3	-0.04444	0.06357719	0.163382
500900	Lrrc14	-0.04445	0.45164743	0.643545
103692002	LOC103692002	-0.04447	0.42392141	0.619425
192126	Dab2ip	-0.04447	0.04759098	0.130095
315287	Asb8	-0.04448	0.13085355	0.279134
157074	Sdha	-0.04451	0.00746302	0.028965
303902	Dirc2	-0.04451	0.17406866	0.341415
500546	RGD1560436	-0.04452	0.68093638	0.821983
85493	Abcf1	-0.04453	0.0762161	0.187392
170670	Hadha	-0.04456	0.00867339	0.032886
679127	Rrp12	-0.04459	0.32309219	0.518303
25557	Star	-0.04461	0.90388912	0.958121
312641	Fancd2	-0.04461	0.6888008	0.827647
85494	Tpral	-0.04461	0.35777397	0.55478
295923	Ndufs3	-0.04462	0.11869796	0.260168
246771	Slc25a25	-0.04464	0.0907981	0.213041
689161	Gabarapl1	-0.04465	5.86E-07	6.05E-06
499474	Ostml	-0.04469	0.21997352	0.402053
294385	Supv311	-0.04469	0.34519409	0.541757
102547612	LOC102547612	-0.04478	0.91118573	0.963282
499913	Abhd12	-0.04478	0.0032122	0.014257
65041	Clpb	-0.04478	0.29796155	0.494611
691026	Aspscr1	-0.04479	0.1761048	0.344274

308134	Tmem35a	-0.04482	0.04171584	0.116887
360034	Myrip	-0.04483	0.46554325	0.65642
361984	Ubp21	-0.04486	0.02248873	0.071766
259229	Ppmlg	-0.04487	0.17565839	0.343613
288671	Anapc5	-0.04488	0.00550853	0.022465
192349	Caly	-0.04491	0.35609364	0.553346
65052	Pik3c3	-0.04491	0.14449671	0.298929
303567	Tmub2	-0.04493	0.11910588	0.260792
298771	Prepl	-0.04495	7.69E-04	0.004115
313705	Disp3	-0.04498	0.50654316	0.693239
116808	Pcdh12	-0.045	0.73151489	0.854182
498963	Spata2L	-0.04503	0.53606465	0.718311
304334	Fam20c	-0.04504	0.16808789	0.332596
311692	Fam217b	-0.04504	0.3860987	0.583036
305203	Paqr3	-0.04507	0.30770615	0.502251
688047	Lyc2	-0.04507	0.73969669	0.859939
192362	Lamc2	-0.04514	0.71549454	0.844432
103694903	LOC103694903	-0.04517	0.27777	0.470568
170566	Slc16a10	-0.04526	0.7522652	0.86777
309111	Slc25a22	-0.04527	0.16320331	0.326424
29525	Pitpna	-0.04527	0.00244271	0.011242
361423	Fam92b	-0.04527	0.78408565	0.887596
687346	Brap	-0.04528	0.05830957	0.15271
364064	Pycr2	-0.04529	0.47149138	0.661916
293485	Cln3	-0.04529	0.4194403	0.614858
290635	Mvb12a	-0.04535	0.18958885	0.362522
300286	Lhfp11	-0.04538	0.32225645	0.517529
112400	Nrg1	-0.0454	0.00996192	0.036947
682445	Ccdc28b	-0.0454	0.73031367	0.853145
29382	Ctbp1	-0.04541	0.00893729	0.033732
308869	Lamtor1	-0.04542	0.05645536	0.148692
25031	Plcb4	-0.04556	0.26463672	0.454956
58983	Rabggta	-0.04558	0.33621851	0.532852
288051	Umps	-0.04559	0.32477079	0.520294
117038	Mt3	-0.04559	0.0245151	0.076867
498356	Shisa3	-0.0456	0.45747332	0.648788
25757	Cpt1a	-0.04564	0.02184684	0.070235
474147	Mib2	-0.04565	0.22391053	0.406906
102549397	LOC102549397	-0.04567	0.80923066	0.903229
313749	Nphp4	-0.0457	0.48172555	0.670599
361063	Entpd4	-0.04571	0.00429441	0.018195
308337	Zfp865	-0.04573	0.60891593	0.770603
362084	Rabl6	-0.04573	0.02693996	0.082794
103689992	Rps911	-0.04575	0.12048461	0.263191
81772	Rps9	-0.04575	0.12048461	0.263191
289218	Ndufs2	-0.04581	0.00577111	0.023375
83838	Ltbp3	-0.04584	0.03239851	0.095901
25739	Pygb	-0.04585	7.58E-07	7.67E-06
315600	Vps11	-0.04586	0.03759069	0.107656
294250	Prrc2a	-0.04587	5.27E-04	0.002938
686809	Exoc312	-0.04589	0.78404527	0.887629
691849	Ccpg1os	-0.04589	0.78404527	0.887629
287727	Dhx8	-0.0459	0.21519646	0.395829
312492	Dysf	-0.04593	0.02776419	0.084888
366602	Tspan13	-0.046	0.01446622	0.050248
684961	Zmat4	-0.04601	0.72848567	0.851689

304278	Ptcd1	-0.04601	0.44613078	0.638695
83462	Dynlt1	-0.04603	0.36698113	0.563051
501266	LOC501266	-0.04608	0.33230109	0.528402
300191	Slc48a1	-0.04608	0.06480723	0.165583
680883	Lrtm2	-0.04609	0.55677622	0.735864
29622	Ralgs	-0.04612	0.06669938	0.169191
288740	Iscu	-0.04614	0.00588245	0.023751
361643	Lcmt1	-0.04618	0.25690858	0.446019
25673	Anxa5	-0.04621	2.43E-09	3.57E-08
292082	Tcf25	-0.04621	6.71E-05	4.63E-04
100361092	Malrd1	-0.04622	0.86188083	0.932484
100912347	LOC100912347	-0.04622	0.9020891	0.957839
287533	Inpp5k	-0.04622	0.1483932	0.304247
309145	RGD1311946	-0.04622	0.49336552	0.680584
59116	Dbil5	-0.04622	0.9020891	0.957839
691531	Rps28	-0.04632	0.16061985	0.322714
305235	Art3	-0.04636	0.0292431	0.08836
360833	Kdsr	-0.04637	0.36074608	0.557663
307180	Txndc15	-0.04645	0.08740056	0.20742
108348178	NEWGENE_1309258	-0.04649	0.3396608	0.536166
301067	Slc25a38	-0.0465	0.28193152	0.475588
690164	Harbil	-0.0465	0.4374505	0.631346
311959	Abcf2	-0.04652	0.06005853	0.156131
103690981	LOC103690981	-0.04655	0.97797053	1
304719	Ercc4	-0.04655	0.25725981	0.446262
83519	Pex3	-0.04659	0.17591192	0.343967
684828	LOC684828	-0.04663	0.81082823	0.904588
687739	Naif1	-0.04663	0.66851053	0.81208
500668	Ccdc175	-0.04663	0.58040323	0.747938
25150	Fyn	-0.04664	0.03255307	0.096254
288153	Hoxd4	-0.04664	0.50093097	0.687584
64134	Xylt2	-0.04668	0.14335333	0.297728
292588	Ube2s	-0.04668	0.06974867	0.17513
29336	Sigmar1	-0.0467	0.03072749	0.091854
261738	Clrn1	-0.04675	0.39613508	0.593486
25734	Hck	-0.04678	0.57047686	0.739802
289217	Sdhc	-0.04685	0.07322318	0.181935
64192	Qdpr	-0.04691	0.02261876	0.07206
83586	Usf1	-0.04693	0.18163734	0.351517
54312	Timm23	-0.04693	0.09135439	0.214135
307868	Mon1b	-0.04696	0.16579223	0.329766
293702	Fkbp2	-0.04698	0.15709891	0.317145
29693	Atp2a2	-0.04701	4.15E-04	0.002385
606294	Kif1bp	-0.04701	0.05651776	0.148815
298573	Eif4g3	-0.04703	0.00692527	0.027267
81727	Mvk	-0.04705	0.17016717	0.335907
29416	Aadat	-0.04706	0.72536692	0.850025
690848	Uqcr11	-0.04706	0.07823603	0.191149
65206	Kcnn4	-0.04711	0.52054223	0.705152
288557	Mospd3	-0.04713	0.37944407	0.576645
300763	Lrrc49	-0.04713	0.00553388	0.022549
311721	Zfp512b	-0.04721	0.22045086	0.402424
679357	Irf2bp2	-0.04723	0.31572297	0.51035
207126	Muc13	-0.04723	0.96861007	1
65043	Rpl14	-0.04724	0.01362939	0.047812
296410	Rtfdc1	-0.04724	0.07763792	0.18998

100362059	Ttc16	-0.04725	0.73682724	0.85765
29271	Cf11	-0.04727	6.61E-10	1.04E-08
315135	Sun2	-0.04729	0.01332003	0.046908
305291	Srd5a3	-0.0473	0.10043597	0.229408
116656	Cdc123	-0.0473	0.10544673	0.237689
24916	Rnf112	-0.04731	0.13233996	0.281548
313913	Zfp513	-0.04732	0.38321634	0.580109
364298	Pip4p1	-0.04737	0.0935794	0.217795
315166	Smdt1	-0.04743	0.06742378	0.170597
295325	Igsf3	-0.04745	0.04375775	0.121659
24434	Gusb	-0.04752	0.4941061	0.680965
60660	Ppp2r2b	-0.04763	0.01835447	0.061112
293476	Xpo6	-0.04767	0.06520009	0.166319
171335	Cox8a	-0.04769	0.00408237	0.017448
192229	Cep19	-0.0477	0.14462228	0.299091
652929	Cd99	-0.04775	0.13044567	0.27842
81817	Usf2	-0.04777	0.09642398	0.222539
100361529	Rad9a	-0.04782	0.45830109	0.649527
362704	Babam2	-0.04783	0.14988655	0.306221
299618	Mknk2	-0.04783	0.10240054	0.232862
298555	Grhl3	-0.04787	0.50723553	0.693638
287731	Lsm12	-0.0479	0.12219919	0.266066
360652	Sdk2	-0.04791	0.3125665	0.507704
306102	Bora	-0.04793	0.72280435	0.848484
500567	LOC500567	-0.04793	0.90019902	0.956873
291137	Gmn	-0.04793	0.60510029	0.767968
685187	LOC685187	-0.04798	0.85402339	0.927884
24460	Hoxc8	-0.04801	0.63360796	0.789523
309629	Pfdn6	-0.04804	0.18195173	0.351911
308999	Fbxl19	-0.04804	0.21859014	0.400216
502776	Scrn1	-0.04805	4.08E-04	0.002355
287633	Lrrc59	-0.04806	0.02229248	0.071307
297968	Akirin2	-0.04806	0.12275708	0.266976
59267	Syt7	-0.04807	0.00152008	0.00744
297797	Atp6v1h	-0.04807	0.01946633	0.064041
24567	Mt1	-0.04808	0.53830058	0.720344
361454	Ccdc28a	-0.04811	0.13095895	0.279265
29593	Ckmt1	-0.04814	6.16E-04	0.003378
500255	Eefsec	-0.04814	0.33427421	0.530565
687118	Dedd2	-0.04815	0.30728875	0.503079
81729	Rpl10a	-0.04815	0.01533653	0.052837
690769	Znrf1	-0.04816	0.21802688	0.399492
406165	Agpat1	-0.04817	0.01157321	0.041745
309630	Zbtb22	-0.04817	0.23551977	0.422043
302982	Eme2	-0.04818	0.30703906	0.502886
298590	Klhdc7a	-0.0483	0.69932142	0.835178
25217	Tapbp	-0.0483	0.31379539	0.508789
297952	Gpr63	-0.04832	0.62078626	0.778692
291974	Ripor1	-0.04833	0.04773928	0.130238
25721	Got2	-0.04834	1.18E-04	7.71E-04
364686	Ranbp9	-0.04838	0.14309043	0.297344
293725	Eef1g	-0.0484	4.56E-05	3.28E-04
25035	Cyb5r3	-0.04841	1.22E-04	7.93E-04
316477	Smarc11	-0.04842	0.4353993	0.62934
498131	N4bp211	-0.04843	0.6190174	0.777651
25589	Kdr	-0.04844	0.35857316	0.555567

360594	Mrps23	-0.04845	0.23149296	0.416867
303922	Timmdc1	-0.04848	0.34945012	0.546096
84583	Rgs2	-0.0485	0.55391088	0.733707
501688	Lsm11	-0.04851	0.26203249	0.451743
500679	Rad51b	-0.04853	0.82692913	0.912978
690437	Catip	-0.04861	0.83614283	0.918465
362840	R3hdm4	-0.04863	0.08205096	0.198635
689639	Tdrd12	-0.04865	0.77745497	0.883925
316425	Sgo2	-0.04866	0.88627286	0.948422
362643	Emc1	-0.04868	0.05399709	0.143447
362710	Agbl5	-0.04869	0.53773487	0.719789
541462	Sprn	-0.04871	0.16945672	0.334748
294260	Skiv21	-0.04872	0.12639137	0.272176
679068	Tsfm	-0.04872	0.41795149	0.613857
288622	Zbed5	-0.04875	0.28895323	0.483875
293733	Incenp	-0.04877	0.15707818	0.317137
299954	Ndufb9	-0.04877	0.03418624	0.100027
361195	Cdc14b	-0.04881	0.48917644	0.676668
364420	Tnfrsf10b	-0.04884	0.85785165	0.930133
298576	Mull1	-0.04886	0.34216184	0.538863
363441	Ndufa1	-0.04886	0.23664078	0.423534
192648	Prokr1	-0.04892	0.46648659	0.65741
290868	Qars	-0.04894	0.08052937	0.195623
108348128	LOC108348128	-0.04895	0.73580149	0.857347
688393	Gpn1	-0.04899	0.28172528	0.475282
362652	Dnajc16	-0.04899	0.35570092	0.552826
308983	Nfatc2ip	-0.04902	0.6882007	0.827187
171140	Camk2g	-0.04906	2.83E-04	0.001696
366995	Tbca	-0.0491	0.07686753	0.188579
311637	Slc35c2	-0.04912	0.24785901	0.436596
56646	Lgals1	-0.04912	8.85E-09	1.20E-07
140547	Echs1	-0.04928	0.13606255	0.286649
306009	Slc39a14	-0.04929	0.33957214	0.536115
282546	Arid1b	-0.04929	0.13631159	0.287047
81827	Psmc5	-0.0493	0.00578744	0.023422
29338	Prdx2	-0.04932	2.51E-05	1.91E-04
499758	Tmem250	-0.04935	0.08840487	0.209126
50665	Tmsb10	-0.04936	1.01E-08	1.36E-07
54395	Cr1f3	-0.04937	0.28656444	0.480805
64312	Aplp2	-0.0494	6.03E-07	6.22E-06
308434	Zfp574	-0.0494	0.34032714	0.536995
306575	Ckap2	-0.04946	0.75481594	0.869607
100366017	Ube2e1	-0.04947	0.11239824	0.249869
497798	Lmo3	-0.0495	0.73575594	0.857347
314969	Nop2	-0.04952	0.30001157	0.496716
309686	Pofut2	-0.04956	0.20408904	0.38073
81728	Ndufv2	-0.04957	0.01356368	0.047643
499017	Syt13	-0.04962	0.36170982	0.558156
292847	Ctuf1	-0.04966	0.59832396	0.761754
296623	Miga2	-0.04967	0.09470656	0.219774
64664	Arl3	-0.04968	0.08562938	0.204722
362029	Ag1	-0.04974	0.01328767	0.046838
316164	Satb1	-0.04974	0.16781939	0.332202
317576	Ocr1	-0.04976	0.18583188	0.357347
60347	Cep78	-0.04977	0.53086323	0.713097
680844	Trem12	-0.04977	0.89821089	0.95556

362287	Slc17a9	-0.04977	0.82465092	0.911572
64829	Unc13a	-0.04979	0.09725549	0.223997
288591	Tmem120a	-0.0498	0.22224242	0.404608
297597	Ing4	-0.0498	0.24948553	0.437922
291022	Ptpdc1	-0.04982	0.13556468	0.28579
362111	Sh2d3c	-0.04989	0.25323053	0.441848
245980	Nr2f6	-0.0499	0.26101451	0.450559
313453	Tmem255a	-0.0499	1.88E-04	0.001172
103693266	Rsl1d111	-0.04996	0.26744409	0.458685
302898	Rsl1d1	-0.04996	0.26744409	0.458685
312670	Adipor2	-0.04999	0.08335638	0.200774
684755	Zfp11	-0.05001	0.27493933	0.467019
89818	Vamp5	-0.05005	0.73428764	0.856631
246757	Klhl17	-0.05008	0.26638001	0.45754
296301	Raly	-0.05009	0.02722012	0.083533
29713	Kcnj5	-0.05011	0.61811268	0.776976
100362172	LOC100362172	-0.05025	0.79002073	0.891559
361771	Zdhhc6	-0.05026	0.30744825	0.501916
499671	Lysmd1	-0.05029	0.43398455	0.628248
302473	Slitrk4	-0.0503	0.28527191	0.479481
362504	Dctn3	-0.05031	0.04718016	0.129157
79239	Hmox2	-0.05032	0.04030894	0.113967
63995	Dusp10	-0.05034	0.59570492	0.759384
362454	Hebp1	-0.05036	0.53704549	0.719271
291355	Prtfcd1	-0.05037	0.26812565	0.459337
497900	Rmnd5b	-0.05039	0.34926918	0.546127
297458	Ccdc174	-0.05039	0.49566657	0.682029
29322	Plcb3	-0.0504	0.00106295	0.005452
292072	Aprt	-0.05043	0.22691219	0.410793
252961	Tank	-0.05044	0.31436402	0.508844
64300	Mthfd1	-0.05046	0.23857749	0.42568
680656	Fndc10	-0.0505	0.13712282	0.288309
362216	Mrps26	-0.0505	0.31404048	0.50845
288259	Gart	-0.05053	0.14465445	0.299125
299186	Dpf3	-0.05055	0.77306176	0.881351
684097	Snx3	-0.05055	0.00231294	0.010726
289736	Morc2	-0.05059	0.25448132	0.443219
500633	Greb1	-0.05062	0.60567804	0.768343
691484	Eri2	-0.05064	0.60583025	0.768434
689959	LOC689959	-0.05065	0.56371259	0.734933
296761	Tmem60	-0.05067	0.31456194	0.508992
313496	Ccdc107	-0.05067	0.07499757	0.185257
288656	Arl6ip4	-0.05069	0.18779875	0.360075
300177	Irak4	-0.05071	0.5087223	0.695222
362414	Tada3	-0.05074	0.19855039	0.373729
289752	Ewsr1	-0.05074	0.11601052	0.255779
103690130	Hoxa3	-0.05074	0.72096119	0.847234
108348320	LOC108348320	-0.05074	0.72096119	0.847234
688394	Mab2111	-0.05075	0.6543988	0.803133
361711	Dpf2	-0.05081	0.03106785	0.092712
287208	Ttc1	-0.05082	0.01725219	0.058123
360743	Med15	-0.05083	0.09487212	0.220024
29425	Psmb5	-0.05085	0.02145518	0.069315
117276	Pfkfb3	-0.05086	0.02551234	0.079276
361443	Ntpcr	-0.05087	0.36999979	0.566314
680266	Gnb11	-0.05089	0.62821778	0.785427

687090	Tprg11	-0.05089	3.25E-04	0.001932
309252	Otud7a	-0.05092	0.2143305	0.394847
689938	Ndufc1	-0.05092	0.24944619	0.437893
287521	Mnt	-0.05094	0.1268471	0.272849
299743	Mrpl42	-0.05097	0.17365308	0.340916
300084	Rbx1	-0.05098	0.0574924	0.150923
309586	Trim26	-0.05106	0.144531	0.298967
307404	Arsi	-0.05108	0.82229266	0.909916
363278	Atg16l1	-0.05112	0.11449816	0.253295
364900	Ctif	-0.05115	0.16588732	0.329921
170587	Cs	-0.05116	0.00740862	0.028807
502663	Serf2	-0.05117	0.0030731	0.013726
303836	Bcl6	-0.05117	0.25470571	0.443366
29376	Irs2	-0.0512	0.06238294	0.160813
360638	Adam11	-0.05122	9.31E-04	0.004861
207117	Dnah8	-0.05125	0.79502671	0.893924
29668	Psmal	-0.05127	0.02441215	0.076632
94173	Idh3B	-0.05131	0.00416224	0.01777
288529	Gjc3	-0.05131	0.5330389	0.715112
302826	Frmd7	-0.05131	0.69962852	0.835387
171063	Gtf3c1	-0.05133	0.01486266	0.051419
308409	Opa3	-0.05134	0.25085439	0.438788
116458	Ipo13	-0.05134	0.13972138	0.292385
313490	Tmem8b	-0.05135	0.07614542	0.187266
364843	Pcdhga8	-0.05135	0.51947317	0.704154
100363129	LOC100363129	-0.05137	0.82985695	0.914831
293491	Ypel3	-0.05137	0.00269933	0.012266
691938	Fam124a	-0.05138	0.49913001	0.685557
300741	Mpi	-0.05138	0.08710943	0.206935
367166	Hyal1	-0.05145	0.24199429	0.429924
108348123	LOC108348123	-0.05145	0.71551894	0.844303
117281	Ppp2r1a	-0.05145	7.08E-06	5.98E-05
291206	Mrpl32	-0.05145	0.33879557	0.535332
25532	Rab4a	-0.05148	0.04279519	0.119436
303240	Cntrob	-0.05149	0.67218497	0.815399
303515	Rapgef11	-0.05151	0.45434995	0.645464
691024	Fam219a	-0.05151	0.00222541	0.010355
259248	Slc16a2	-0.05151	0.51490132	0.7006
29474	Coro1b	-0.05151	0.02781302	0.084956
25014	Acat1	-0.05157	0.04906251	0.1332
24184	Ak2	-0.05162	0.38174729	0.578575
288657	Ogfod2	-0.05162	0.47512058	0.665441
113961	Gorasp2	-0.05163	0.03288818	0.096944
25356	Cntn2	-0.05169	6.48E-06	5.51E-05
301463	Fastkd2	-0.05174	0.30100638	0.497887
65278	Csnklg2	-0.05175	0.01009481	0.037317
24769	Sct	-0.05175	0.89611565	0.954343
499468	RGD1561147	-0.05175	0.89611565	0.954343
81919	Fut1	-0.05175	0.89611565	0.954343
292764	Fam98c	-0.05181	0.43956606	0.632865
309000	Orai3	-0.05181	0.46120065	0.652471
116658	Cntn4	-0.05184	0.26747393	0.458592
295341	Ppmlj	-0.05186	0.04374366	0.121656
680647	Fam19a2	-0.05187	0.09217955	0.215565
362247	Trpc4ap	-0.05189	0.0079656	0.030691
298544	Sh3bgr13	-0.05191	1.17E-06	1.14E-05

679038	Rtl8a	-0.05192	0.0336583	0.09874
304655	Zswim4	-0.05192	0.42011695	0.615519
297113	Gars	-0.05193	0.00325363	0.014407
297376	Htra2	-0.05194	0.18645317	0.35818
100364984	Rab37	-0.05194	0.13511302	0.285249
305055	Kctd3	-0.05196	0.11837323	0.259606
29292	Ft11	-0.05197	1.69E-08	2.20E-07
25243	Arnt2	-0.05199	0.14667136	0.301952
29435	Ssr4	-0.052	0.18618241	0.357877
306505	Lonrf1	-0.052	0.23304135	0.418903
140675	Gabra4	-0.05201	0.71117934	0.84132
94342	Bag6	-0.05202	0.00537332	0.022064
170837	Snrk	-0.05205	0.08231559	0.199048
362102	Ptpa	-0.05206	0.00203058	0.009577
298447	Dmap1	-0.05216	0.32653113	0.52228
81751	Psen2	-0.05217	0.03815056	0.108932
301131	Tnfaip811	-0.05218	0.65991447	0.805284
684536	Gba	-0.05219	0.01386836	0.048481
117256	Ppp2r2c	-0.0522	0.04524867	0.12511
114588	Cdh4	-0.05221	0.34428238	0.540861
287805	Gprc5c	-0.05222	0.19632239	0.370892
100233176	Gon7	-0.05227	0.20684414	0.384514
316530	Cnppd1	-0.05227	0.13010754	0.277791
290632	Mrpl34	-0.05227	0.43097029	0.625216
289582	Fip111	-0.05233	0.16456589	0.328666
365361	Lyrml	-0.05236	0.30323469	0.500486
311055	Tanc1	-0.05239	0.01713773	0.057778
680558	Tmem241	-0.05239	0.63562777	0.790746
302986	Telo2	-0.0524	0.31688244	0.51153
360459	RGD1305733	-0.05241	0.00481634	0.020076
83764	Flot2	-0.05245	1.48E-04	9.46E-04
364476	Hs6st3	-0.05249	0.56648126	0.736727
252929	Ctsz	-0.0525	0.10949624	0.244502
317341	Ube2q21	-0.0525	0.51066843	0.696607
60590	Grm8	-0.0525	0.51066843	0.696607
501099	Srf	-0.05251	0.23928443	0.426622
499390	Clasrp	-0.05261	0.18783805	0.360114
288515	Micall2	-0.05261	0.44251282	0.63533
292935	Htatip2	-0.05264	0.16902554	0.334069
313668	Ddi2	-0.05265	0.04492198	0.124352
24586	Ncam1	-0.05266	2.68E-04	0.001621
687539	Mthfsd	-0.0527	0.53637629	0.718577
501555	Rai2	-0.05275	0.54341844	0.724799
310417	Proser1	-0.05277	0.28388792	0.477788
287371	Drc3	-0.0528	0.4698534	0.660201
498153	Gpr146	-0.0528	0.21398199	0.394319
363221	Cnot11	-0.05285	0.27283004	0.464804
192234	Eif2b5	-0.05289	0.0888277	0.209787
170906	Zdhhc7	-0.0529	0.09901322	0.22692
29691	Pdelb	-0.05294	0.61682451	0.776176
361698	Pold4	-0.05294	0.52628741	0.710106
81525	Nfkbib	-0.05298	0.35977448	0.556658
303337	Rab11fip4	-0.05299	0.02248136	0.071754
362645	Atp13a2	-0.05299	5.30E-04	0.002947
293648	Mrgprd	-0.05301	0.08507416	0.203855
287596	Smg8	-0.05302	0.40298747	0.60007

361438	Gas8	-0.05305	0.63342138	0.789497
691703	C2cd4a	-0.0531	0.74155878	0.860214
295645	Slc4a10	-0.05316	0.7456694	0.863194
317296	Mtmr1	-0.0532	0.27820772	0.471226
294297	Scube3	-0.0532	0.45361506	0.645094
60395	Trpc3	-0.05322	0.28544033	0.479553
684527	Crtc1	-0.05322	0.05149212	0.137967
288710	Rnf10	-0.05323	1.04E-04	6.91E-04
302973	Abca3	-0.05324	8.04E-04	0.00427
305234	Stbd1	-0.05328	0.16058948	0.322687
83620	Cit	-0.05328	0.31263561	0.507773
360576	Trarg1	-0.05333	2.25E-08	2.87E-07
289587	Lrrc66	-0.05334	0.79077364	0.89188
100158233	Slc35a2	-0.05335	0.22959687	0.414314
313021	Tmem222	-0.05342	0.250257	0.438226
294513	Dnajb12	-0.05351	0.09079155	0.213051
29181	Cdh10	-0.05354	0.50634002	0.693061
100910864	LOC100910864	-0.05356	0.71149052	0.841479
266609	Bles03	-0.05361	0.13543994	0.285685
26989	Cadps	-0.05361	9.81E-04	0.005092
192152	Tgoln2	-0.05362	0.00323389	0.01434
282824	Elavl3	-0.05363	0.06814581	0.172104
295635	Arhgap15	-0.05365	0.71108213	0.841571
312373	Nt5c3a	-0.05365	0.20186963	0.377811
361555	Ankrd27	-0.05366	0.10201729	0.232101
64533	Pnpo	-0.05367	0.11342717	0.251452
29544	Tspyl1	-0.05367	0.02816676	0.085775
303497	Osbpl7	-0.0537	0.30242536	0.499496
500446	Phf24	-0.05371	4.45E-17	1.37E-15
100911575	LOC100911575	-0.05374	0.41582532	0.61182
100362124	Ift140	-0.05382	0.2086492	0.386737
311129	Osbpl6	-0.05384	0.06926842	0.174246
102553506	LOC102553506	-0.05389	0.89390305	0.953
302822	Igsf1	-0.05389	0.85039879	0.926032
499368	Calhm3	-0.05389	0.85039879	0.926032
294281	Slc39a7	-0.05396	0.04885661	0.132735
312800	Atf7ip	-0.05399	0.08261818	0.199551
308589	Sphk2	-0.05401	0.0381802	0.108968
291940	Zfp827	-0.05405	0.16943375	0.334737
360549	Plscr3	-0.05408	0.12619928	0.271885
687808	Slc16a9	-0.0541	0.44966585	0.641249
290985	Isca1	-0.0541	0.01014688	0.037502
64464	Timm10	-0.0541	0.3351799	0.531737
689523	Lin9	-0.05411	0.65639411	0.802995
64524	Tkt	-0.05414	8.24E-05	5.58E-04
89804	Tek	-0.05417	0.30909872	0.504178
362811	Ankrd52	-0.05422	0.02970559	0.089446
359959	Rheb11	-0.05424	0.61195191	0.773007
687575	U2af1	-0.05428	0.22827349	0.412787
100360679	LOC100360679	-0.05429	0.51872847	0.703545
116692	Cyth2	-0.0543	0.07023366	0.176046
295701	Tmx2	-0.05431	6.71E-04	0.003641
171355	Pou4f2	-0.05432	0.36136684	0.557762
498431	RGD1562229	-0.05434	0.76454935	0.876104
310909	Rap1gds1	-0.05434	5.01E-07	5.22E-06
303787	Slc7a4	-0.05443	0.44119649	0.634493

24175	Adra2c	-0.05445	0.37375105	0.570268
246187	Slc7a6os	-0.05446	0.35788701	0.55491
363195	Gtpbp2	-0.05447	0.13921618	0.29168
361160	Leprotl1	-0.05447	0.13688086	0.287991
292696	Clptm1	-0.05448	0.00140239	0.006943
293614	Ric8a	-0.0545	0.0118351	0.042552
316087	Zbtb47	-0.05452	0.03723251	0.106807
54251	Flt1	-0.05457	0.18194636	0.351937
362899	Nipal2	-0.05472	0.26760252	0.458647
292766	Psm8	-0.05476	0.00351574	0.015389
314633	Ap3d1	-0.05478	3.00E-05	2.25E-04
680047	Pcdhb9	-0.05478	0.61223685	0.773213
313053	Ythdf2	-0.05492	0.13521166	0.285362
303343	Abhd15	-0.05498	0.78545371	0.888511
499094	Zfp61	-0.05505	0.22158507	0.403875
682033	Ppp2r3b	-0.05506	0.42492927	0.620136
113956	Pecr	-0.05508	0.39355327	0.590733
29309	Coq3	-0.05509	0.28042559	0.473761
25095	Ampd3	-0.05515	0.17489725	0.342546
301388	Mfsd6	-0.05515	1.27E-04	8.23E-04
100910054	Nkrf	-0.05517	0.67365343	0.816556
65262	Atp5fla	-0.0552	1.66E-07	1.87E-06
360838	Lypd1	-0.0552	0.36766014	0.563821
170916	Lonpl	-0.05524	0.04410101	0.122453
305714	Thoc7	-0.05525	0.13184955	0.280724
497040	Prss36	-0.05525	0.76254138	0.874645
362364	Tril	-0.05526	0.02610898	0.080748
307649	Ciapin1	-0.05527	0.0876953	0.207834
297879	Zfp362	-0.05529	0.24812023	0.436894
362833	Mob3a	-0.05536	0.09012199	0.211898
100911661	LOC100911661	-0.05538	0.51648212	0.701648
300057	Recq14	-0.05541	0.68476654	0.824829
315329	Mfsd5	-0.05542	0.14669877	0.301976
293710	Lgals12	-0.0555	0.87496184	0.941449
361066	RGD1308117	-0.05553	0.52186633	0.706242
308415	Ercc2	-0.05554	0.34672162	0.543348
299129	Lrrc9	-0.05561	0.63861491	0.793322
688298	Ccdc137	-0.05564	0.36805215	0.56424
296580	Camsap1	-0.05567	0.02809789	0.085634
364419	Chmp7	-0.05572	0.06488004	0.165702
501047	Col6a5	-0.05573	0.24452972	0.432813
29542	Pebp1	-0.05574	8.18E-07	8.23E-06
360677	Mcrip1	-0.05578	0.10686042	0.240136
25367	Adarb1	-0.05579	0.0307616	0.091942
314694	Chst11	-0.05584	0.09282264	0.216723
192183	Nectin1	-0.05584	0.07940822	0.193343
305156	Arhgap24	-0.05588	0.29239973	0.488102
303539	Kat2a	-0.05588	0.05703724	0.149976
102553763	Znf768	-0.05591	0.40445402	0.601501
304512	Rbm19	-0.05591	0.43478027	0.628827
116777	Cdh3	-0.05595	0.30026557	0.49692
294961	Kcnmb2	-0.05596	0.66708749	0.810868
310704	Bcl9	-0.05599	0.1827272	0.352909
361351	Hdhd2	-0.05606	0.13914634	0.291566
300822	Tex9	-0.05606	0.26155128	0.451159
29603	Bckdk	-0.05607	0.11910846	0.260768

690229	Wdr74	-0.05609	0.36631829	0.562397
362098	Gle1	-0.05611	0.21691961	0.39823
315093	Maf1	-0.05613	0.0494185	0.133956
100362155	Cyhr1	-0.05615	0.35020806	0.546922
288447	Usp11	-0.05615	0.18645177	0.358214
681458	LOC681458	-0.05616	0.25248821	0.440998
25232	Tyro3	-0.05619	0.08466393	0.203179
282832	Ccr9	-0.0562	0.89319044	0.95272
365834	Fam160a1	-0.0562	0.89156138	0.951515
687105	Arhgef16	-0.0562	0.7183294	0.846047
192260	Cdipt	-0.05621	2.27E-04	0.001397
140673	Napa	-0.05621	2.87E-04	0.001721
308632	Hebp2	-0.05628	0.00573433	0.023241
297570	Pex26	-0.05628	0.45490396	0.646059
108353239	LOC108353239	-0.05631	0.45113988	0.64287
314441	Slc25a29	-0.05635	0.43995087	0.633179
303518	Smarce1	-0.05636	0.06052318	0.157124
686911	Exoc11	-0.05637	0.06129922	0.158728
498545	Tsc22d1	-0.05638	1.71E-07	1.92E-06
292874	RGD1309036	-0.05639	0.68403821	0.824317
83505	St3gal5	-0.05639	0.09011431	0.211906
116550	Atp5f1c	-0.05642	0.00284632	0.012846
311671	Npep11	-0.05644	0.19002355	0.362989
29272	Dpp6	-0.05646	1.10E-06	1.08E-05
246307	Asrgl1	-0.05652	0.10822377	0.242342
363228	Tmeff2	-0.05653	0.10565866	0.237998
302032	Amn1	-0.05655	0.33837975	0.534942
308320	Zfp772	-0.05658	0.31055923	0.505781
171293	Ctsd	-0.05658	2.56E-09	3.74E-08
311902	Rbm18	-0.05662	0.0598865	0.15579
94202	Ptprr	-0.05663	0.07432397	0.183927
316249	Enpp5	-0.05664	0.0098983	0.036769
314442	Wars	-0.05664	9.41E-04	0.004908
305373	Hmgb3	-0.05665	0.19084007	0.363928
312054	Gtpbp10	-0.05666	0.53038664	0.712859
102551714	LOC102551714	-0.05668	0.63736812	0.792083
684304	Mrpl39	-0.05669	0.35828199	0.555296
293050	Abhd2	-0.05669	0.01084809	0.039586
116493	Gripap1	-0.0567	0.02167526	0.069778
291414	Ctdpl	-0.05673	0.24177744	0.429659
361504	Rdh13	-0.05675	0.33787565	0.534633
102552101	LOC102552101	-0.05677	0.83819952	0.919292
287746	Fmn11	-0.05679	0.04493012	0.124356
317374	Timm17b	-0.05683	0.48756426	0.675665
362388	Mrpl53	-0.05687	0.25557935	0.444481
102556446	LOC102556446	-0.05687	0.89034682	0.950805
290541	Arhgef3	-0.0569	0.19056965	0.363522
25751	Dnm2	-0.0569	0.03700297	0.106357
315112	Foxred2	-0.05693	0.66426736	0.808886
315218	Lmf2	-0.05694	0.05982284	0.155688
365224	Zfp74	-0.05694	0.38199781	0.578863
266600	Csdc2	-0.05696	0.0206302	0.067197
108352882	LOC108352882	-0.05701	0.97316019	1
497935	RGD1563441	-0.05701	0.81195351	0.905048
245959	Slc25a3	-0.05703	9.11E-06	7.54E-05
684258	Chchd7	-0.05711	0.41603914	0.611992

311840	Urm1	-0.05713	0.15301468	0.310911
292687	Qpctl	-0.05722	0.24713289	0.43576
304344	Ap4ml	-0.05725	0.42969127	0.624263
315996	Sema3f	-0.05726	0.17966614	0.34873
499779	Swi5	-0.05727	0.06042452	0.156932
84469	Maged1	-0.05727	2.73E-05	2.06E-04
24804	Syp	-0.05727	1.05E-09	1.61E-08
64023	Maspl	-0.05738	0.32031317	0.515495
307852	Pdpr	-0.05741	0.27387859	0.465965
64156	Uba52	-0.05743	4.20E-04	0.002411
315212	Alg12	-0.05743	0.48203213	0.67078
124461	Pacsin2	-0.05743	0.00375382	0.016281
58857	Vapa	-0.05746	7.20E-04	0.003881
312680	Hdhd5	-0.05756	0.39479479	0.592083
114554	Pi4k2a	-0.05757	0.06548753	0.166829
289046	Tmem9	-0.05758	0.13700166	0.28815
25244	Bckdha	-0.05758	0.12569914	0.271022
290277	Cryl1	-0.05758	0.58074662	0.747875
50567	Slc3a2	-0.05766	0.00439284	0.018546
64369	Plpp1	-0.05767	0.01377576	0.048201
299050	RGD1305089	-0.05769	0.39422595	0.59137
300046	Gpaal	-0.05771	0.1207521	0.263518
60431	Vapb	-0.05775	8.95E-04	0.004699
500251	Hmces	-0.0578	0.29625025	0.492759
299739	Ndufa12	-0.05782	0.08447812	0.202912
63837	Tagln3	-0.05782	0.00542008	0.022189
303311	Rtn4r11	-0.05783	0.01482368	0.051321
303583	Arhgap27	-0.05784	0.17067635	0.336668
303196	Tmem11	-0.05786	0.23694679	0.423962
29158	Fbln5	-0.05788	0.00190115	0.009056
363006	Tarbp2	-0.05789	0.22740551	0.411608
80846	Hnrnp1	-0.05792	0.00326846	0.014459
288719	Tpst2	-0.05792	0.2183222	0.399803
301024	Scap	-0.05792	0.01644092	0.055824
100125378	Nudcd3	-0.05795	0.4192335	0.614745
170818	Icmt	-0.05795	0.15377962	0.312132
25669	Cpe	-0.05799	4.69E-06	4.11E-05
291987	Utp4	-0.05801	0.23313326	0.41891
287845	Dnah17	-0.05801	0.50492297	0.691668
684980	Tsc22d4	-0.05802	0.04380631	0.121759
290775	Vps37a	-0.05802	0.31287915	0.507952
25484	Myo1e	-0.05804	0.02011076	0.065809
54293	Rgs3	-0.05807	4.74E-06	4.15E-05
94188	Zfp423	-0.05808	0.2747947	0.466857
361858	Gtf3c6	-0.05812	0.43981523	0.633128
688163	Prr151	-0.05813	0.67721172	0.819565
64187	Ar11	-0.05814	0.06486712	0.165691
688495	Smim7	-0.05816	0.06125927	0.158646
108348293	LOC108348293	-0.0582	0.673508	0.816432
685068	Gemin711	-0.0582	0.51555964	0.701045
301515	Rnf25	-0.05821	0.22007539	0.402162
311876	Pbx3	-0.05821	0.2083276	0.386404
691001	Ndufa3	-0.05822	0.10189865	0.231942
312682	Bcl2l13	-0.05822	0.13141193	0.280011
100912034	LOC100912034	-0.05823	0.61560602	0.775411
688841	Fam155b	-0.05824	0.19261376	0.36632

303596	10-Mar	-0.05827	0.73361605	0.856005
81769	Rpl36al	-0.05829	0.08973161	0.211319
56718	Mtor	-0.05831	0.02502525	0.078119
288599	Eif4h	-0.05834	8.67E-05	5.84E-04
360678	Arhgdia	-0.05837	2.44E-11	4.54E-10
362781	Hhip11	-0.0584	0.30951593	0.504513
290519	Thoc3	-0.05843	0.20226412	0.378326
619579	Nrbp1	-0.05845	0.00933197	0.034999
140610	Brinp1	-0.05845	0.20291838	0.379141
102549059	LOC102549059	-0.05846	0.5236476	0.707848
108348137	LOC108348137	-0.05849	0.28501757	0.479223
85248	Kif3c	-0.05849	2.30E-04	0.001414
291440	Cxxc1	-0.05849	0.19934094	0.374736
361991	S100a16	-0.05851	0.31077197	0.506041
25218	Vps52	-0.05858	0.03748405	0.107383
295241	Mtx1	-0.05861	0.14385477	0.298281
170848	Kcnq2	-0.05861	5.27E-04	0.002937
29231	Ciao1	-0.05863	0.10155555	0.231355
108350166	LOC108350166	-0.05863	0.85454407	0.928291
691589	Chd5	-0.05866	0.08269121	0.199677
313978	E2f6	-0.05867	0.09092977	0.213297
25624	Vamp1	-0.05869	7.10E-17	2.16E-15
304323	Mrm2	-0.0587	0.61358585	0.774249
114493	Cacnalf	-0.05871	0.88907722	0.950275
499361	Tlx1	-0.05871	0.88907722	0.950275
292536	Prpf31	-0.05871	0.16309366	0.326273
361185	Naxd	-0.05875	0.29641364	0.492944
192276	Coro7	-0.05877	0.04383375	0.1218
502750	Wee2	-0.05882	0.8466102	0.923306
303923	B4galt4	-0.05882	0.33850405	0.535049
81739	P2rx3	-0.05887	2.26E-08	2.88E-07
100361946	Lrrc74b	-0.05889	0.65818658	0.804258
308654	Zmat1	-0.05892	0.30549532	0.502475
83522	Acox3	-0.05893	0.04783533	0.130444
79116	Apex1	-0.05896	0.0912096	0.213848
313038	Phc2	-0.05896	0.0064972	0.025909
81734	Nell2	-0.05898	0.16635624	0.32982
64360	Mrpl23	-0.05899	0.34295203	0.539483
300673	Bcl1l1	-0.059	0.10824408	0.242331
50551	Txnrd2	-0.05909	0.34045005	0.5371
362592	RGD1559909	-0.0591	0.27436199	0.466496
302656	Frmpd4	-0.05914	0.06399242	0.164139
288518	Get4	-0.05919	0.08217611	0.198837
291784	Rmc1	-0.05919	0.03540952	0.102644
361162	Purg	-0.05919	0.12648158	0.272309
100359816	Setd1b	-0.0592	0.14535688	0.300187
689226	Ube2r2	-0.05929	0.01404963	0.049024
293427	Eif3f	-0.05932	0.0106118	0.038933
290659	Cope	-0.05933	0.01210914	0.043406
79250	Aco2	-0.05936	2.48E-08	3.14E-07
619393	Dnajc12	-0.0594	0.34123312	0.538113
100910729	Islr2	-0.05941	0.58675235	0.752556
363145	Gmppb	-0.05942	0.35699833	0.554073
290834	Adam9	-0.05942	0.02038464	0.066523
316356	Mfsd9	-0.05945	0.24700324	0.435612
298400	Creb3	-0.05946	0.00930269	0.03491

691056	Lmtk3	-0.05947	0.39005085	0.587142
498596	Nrg3	-0.05948	0.12578714	0.271151
116563	Ap2m1	-0.05948	8.73E-10	1.36E-08
83581	Polr1a	-0.05951	0.2301063	0.414919
313615	Paqr7	-0.05951	0.0846483	0.203192
308100	Acat2	-0.05953	0.01760603	0.059106
294292	Nudt3	-0.05958	8.09E-04	0.004291
683684	Fam156b	-0.05959	0.80764678	0.90199
292792	Tmem147	-0.05961	0.2927828	0.488613
680891	Sf3b5	-0.05977	0.11844238	0.259698
298506	Myc1	-0.05977	0.65617525	0.802934
293042	Sema4b	-0.0598	0.13970198	0.292376
117519	Keap1	-0.05982	0.05098655	0.136901
497770	Scn3a	-0.05984	0.26995673	0.461437
296733	Chpf2	-0.05985	0.06388322	0.163904
309071	Fank1	-0.05987	0.76124379	0.873788
363288	Kif1a	-0.05991	2.79E-15	7.58E-14
304315	Ttyh3	-0.05991	0.04012297	0.113543
298694	Plekhn1	-0.05995	0.58498587	0.750998
81681	Lss	-0.05998	0.07717629	0.189191
56082	Gorasp1	-0.05998	0.12709029	0.273248
25338	Nin1	-0.06004	0.17587267	0.343926
100910623	LOC100910623	-0.06004	0.84181644	0.921137
300948	Rnf7	-0.06005	0.07107176	0.177773
314478	Ahnak2	-0.06007	2.34E-14	5.96E-13
140908	Cdk5	-0.06008	0.01431401	0.049801
299707	Washc3	-0.06014	0.23401292	0.420173
499331	LOC499331	-0.06014	0.29930785	0.495895
25719	Scg5	-0.06017	7.84E-04	0.004187
690898	Sh3bp51	-0.06018	0.01300264	0.046037
114634	Six1	-0.06018	0.02377811	0.07515
24668	Ppplca	-0.06019	0.00115393	0.005846
500317	Lpar5	-0.06021	0.42401758	0.619518
364430	Nufip1	-0.06022	0.27358961	0.46564
100362555	Sptssb	-0.06024	0.5171263	0.701972
312711	Pianp	-0.06025	0.12146596	0.264864
681123	Tomm6	-0.06025	0.04892876	0.132893
63938	Hibadh	-0.06029	0.0684359	0.172676
24877	Vsn11	-0.06031	7.72E-05	5.27E-04
25361	Vcam1	-0.06031	0.43446671	0.62866
305461	Fam53a	-0.06036	0.60990844	0.771603
25550	Slc1a1	-0.06039	0.68891467	0.827575
296634	Nup214	-0.06043	0.05816119	0.152447
306527	Dusp26	-0.06044	0.0040925	0.017487
313040	Csmd2	-0.06045	0.19434617	0.368401
362836	Dazap1	-0.06047	0.09028755	0.212156
65138	Adrml	-0.06053	0.01230662	0.043974
365839	LOC365839	-0.06054	0.75203977	0.867668
501539	Ammecr1	-0.06055	0.7112583	0.841257
25287	Acad1	-0.06056	0.00827342	0.031646
298095	Prpf4	-0.06056	0.28032541	0.473634
25717	Tgfb3	-0.06056	0.18609268	0.357777
361208	Rab24	-0.06057	0.13182811	0.28071
364901	St8sia5	-0.06057	0.33984724	0.536371
681381	Zcwpw2	-0.06058	0.01136776	0.041175
259221	Osbpl1a	-0.0606	0.01666985	0.05645

25112	Gadd45a	-0.0606	0.20186889	0.377847
103694635	LOC103694635	-0.06062	0.65187714	0.803144
170724	Anp32b	-0.06062	0.04651439	0.127757
303796	Zdhhc8	-0.06063	0.0112997	0.04096
307759	Gpt2	-0.06063	0.07016986	0.175979
102556957	LOC102556957	-0.06066	0.83147491	0.915343
497010	Eng	-0.06067	0.12485751	0.270002
306270	Oxnad1	-0.06071	0.27973095	0.473175
170667	Atp6v0c	-0.06071	4.21E-09	6.01E-08
296651	Psm5	-0.06071	0.11998991	0.262366
309014	Plpp4	-0.06071	0.42938029	0.624145
25446	Fosl2	-0.06073	0.68803384	0.827091
305623	Tmem175	-0.06075	0.10753234	0.241134
294964	Ndufb5	-0.0608	0.02027866	0.066279
292735	Shkbp1	-0.06083	0.3571544	0.554225
291952	Ces2g	-0.06084	0.87478205	0.941309
290660	Ddx49	-0.06084	0.1785794	0.3474
290923	Aga	-0.06085	0.17523566	0.342962
300092	Nhp211	-0.06088	0.12151147	0.264933
301285	Tfap2b	-0.06092	0.87319001	0.940339
25740	Gnaz	-0.06092	0.0181562	0.06059
79218	Gng5	-0.06094	0.47360745	0.663908
295264	Mllt11	-0.06096	1.09E-06	1.08E-05
686104	Eif4e1b	-0.06098	0.81891159	0.908921
406169	Atf6b	-0.06101	0.02780899	0.084957
690945	Dera	-0.06104	0.15671931	0.316614
114017	Gfml	-0.06106	0.11734623	0.257858
308958	Cdr2	-0.06114	0.03897496	0.110854
317385	Fus	-0.06115	0.00804422	0.030925
681091	Ccdc157	-0.0612	0.48501974	0.673167
292486	Aig1	-0.06128	0.03418368	0.100035
367315	Gpr35	-0.06129	0.20485337	0.381894
81824	Arp1a	-0.06133	0.00288728	0.013009
311165	Med19	-0.06133	0.17372755	0.341027
499335	Fxn	-0.06139	0.28112609	0.474692
294767	Mrps30	-0.06139	0.09715244	0.223814
300517	Hepacam	-0.06141	0.04042433	0.114209
292409	Fpr1	-0.06144	0.8046254	0.900622
310781	Atxn712	-0.06144	0.42651334	0.621591
500549	Zscan20	-0.06144	0.49339055	0.680569
503194	Glb112	-0.06147	0.43014721	0.624354
299211	Zdhhc22	-0.06149	0.30284502	0.500059
296271	Srxn1	-0.06153	0.02034073	0.066413
294154	LOC294154	-0.06156	1.73E-04	0.00109
25636	Prkaca	-0.0616	6.82E-04	0.003694
140734	Dynl12	-0.0616	1.92E-11	3.62E-10
363474	Apoo	-0.06164	0.18717843	0.359211
29718	Kcnj10	-0.06169	0.03670577	0.105678
102556178	LOC102556178	-0.06171	0.90953994	0.96213
407765	St6galnac6	-0.06173	0.05148575	0.137969
79563	Grpel1	-0.06175	0.15214434	0.309737
287523	Dph1	-0.06176	0.33188141	0.528132
361648	Spns1	-0.06177	0.12790275	0.274561
25521	Prkar1b	-0.06177	2.31E-07	2.54E-06
85423	Tfpt	-0.06177	0.26726036	0.458432
498729	C17h6orf52	-0.06177	0.63570172	0.790683

50687	L1cam	-0.06177	1.31E-08	1.74E-07
306157	Gpc5	-0.06179	0.24814188	0.436892
309036	Rexo5	-0.0618	0.68535103	0.825064
685634	Smim12	-0.0618	0.09480063	0.219966
260321	Fkbp4	-0.06181	1.36E-07	1.56E-06
287544	Poldip2	-0.06181	0.02203222	0.070676
64635	Snd1	-0.06183	0.01875901	0.062231
288527	Asmt1	-0.06185	0.19165267	0.36493
85333	Slc25a4	-0.06189	2.76E-12	5.64E-11
291905	Fto	-0.06192	0.14754952	0.302876
688174	Pgap3	-0.06192	0.54293865	0.724362
50561	Resp18	-0.06196	0.00393447	0.016903
100361939	Rnaseh2c	-0.06198	0.56605406	0.736423
304756	RGD1563709	-0.06207	0.8934669	0.952855
364624	Lsml	-0.06209	0.29604197	0.492541
301111	Ano10	-0.06211	0.00540917	0.022159
303300	Cluh	-0.06212	5.72E-04	0.003155
85309	Folh1	-0.06212	0.14103544	0.294229
304805	Cyb5r1	-0.06217	2.39E-05	1.82E-04
58935	Gas6	-0.06218	9.96E-05	6.62E-04
361301	Tpgs2	-0.06223	4.68E-04	0.002644
85245	Kpna2	-0.06224	0.13484749	0.284972
315549	Fam118b	-0.06226	0.44666565	0.639221
25371	Adprh	-0.06231	0.1330728	0.28257
301295	Efhc1	-0.0624	0.35076704	0.547391
171352	Cyp3a9	-0.06242	0.61848063	0.777233
301130	Dpp9	-0.0625	0.01078723	0.039395
155437	Hey1	-0.06254	0.43761082	0.631482
288454	Slc46a3	-0.06268	0.58920665	0.754738
684050	PCOLCE2	-0.06277	0.3796621	0.576746
300221	Spats2	-0.06279	0.07787489	0.190438
170944	Dkc1	-0.06279	0.09208828	0.215378
192255	Ubb	-0.06279	8.17E-27	4.11E-25
690660	Hint1	-0.0628	0.00104356	0.005366
366360	Myorg	-0.06289	0.02294614	0.072969
102549491	LOC102549491	-0.0629	0.83799817	0.919283
81821	Dgkz	-0.06297	3.45E-08	4.29E-07
261730	Aurka	-0.06299	0.23983728	0.427247
689404	Amtn	-0.063	0.84150442	0.920955
24923	Stx1b	-0.06302	1.33E-05	1.06E-04
301309	Adgrb3	-0.06302	0.13438402	0.284372
100360358	Tmem251	-0.06303	0.46803591	0.658619
311185	Kbtbd4	-0.06303	0.33292641	0.528955
312710	Cops7a	-0.06309	0.00286573	0.012924
306000	Slc25a37	-0.0631	0.21912859	0.40074
685174	Cnpy3	-0.06312	0.05605582	0.147947
498171	Prkrip1	-0.06312	0.31057415	0.505762
288665	Cux2	-0.06313	0.30569139	0.502711
116690	Nfasc	-0.06314	3.69E-07	3.94E-06
287375	Flii	-0.06316	8.03E-04	0.004271
84347	Cacng2	-0.06316	0.11704951	0.257385
362859	Ckap4	-0.06318	0.04042133	0.114217
310511	RGD1563620	-0.06319	0.77359992	0.8817
498667	Fam155a	-0.06321	0.06952919	0.17474
81736	Nfkb1	-0.06322	0.08631481	0.20574
306004	Rhobtb2	-0.06324	0.02755145	0.084387

297096	Snx10	-0.06324	2.11E-05	1.62E-04
81812	Thra	-0.06326	0.00104362	0.005365
308468	Dyrk1b	-0.06327	0.16652377	0.330049
313560	Ctsp1	-0.0633	0.02922231	0.088325
100361138	Dgkq	-0.06332	0.07559857	0.186306
499425	Zfp365	-0.06332	0.14091762	0.294145
171133	Gcsh	-0.06335	0.07848795	0.191641
282827	Aip	-0.06336	0.05614278	0.148135
305479	Sf3a1	-0.06337	0.02607527	0.080657
60335	Tgm1	-0.0634	0.8014735	0.898362
291922	Lonp2	-0.06342	0.01475491	0.051111
293938	Bloc1s2	-0.06345	0.08242003	0.199224
171548	Dkk3	-0.06347	0.00689109	0.027155
297372	Mrpl19	-0.06348	0.25269059	0.44123
313950	Hs1bp3	-0.0635	0.19376367	0.367589
102552331	LOC102552331	-0.06354	0.70058026	0.835895
361502	Ppp6r1	-0.06355	1.59E-04	0.001009
50664	Gnao1	-0.06355	1.85E-08	2.39E-07
170824	Steap3	-0.06358	0.02745872	0.084157
309157	Peli3	-0.06361	0.22909546	0.413566
498179	RGD1563482	-0.06363	0.49403918	0.680971
103689982	Mboat711	-0.06364	0.18119257	0.350853
308309	Mboat7	-0.06364	0.18119257	0.350853
361807	Lemd2	-0.06376	0.22189827	0.404175
362227	Dtd1	-0.06379	0.06059754	0.157232
301068	Eif1b	-0.06391	0.00338484	0.014891
85260	Entpd6	-0.06392	0.09027848	0.212161
303185	Flcn	-0.06394	0.09900333	0.226925
316643	Chchd2	-0.06395	0.00471391	0.019722
294048	Pik3ap1	-0.06396	0.51427566	0.700149
364510	Phf7	-0.06399	0.38143435	0.578239
266735	Adgrg2	-0.06399	0.02031879	0.066376
314243	Wdr89	-0.06399	0.56712705	0.737064
361808	Snrpc	-0.06401	0.13305619	0.282598
502367	Bola2	-0.06401	0.05859983	0.153301
361940	Pgrmc2	-0.06412	0.02644472	0.081574
308593	Tmem143	-0.06413	0.17816326	0.346945
266807	Duox1	-0.06416	0.81698044	0.908047
361704	Ctsf	-0.06423	0.00173854	0.00837
24244	Calm3	-0.06427	2.58E-07	2.83E-06
83800	Clta	-0.06431	8.11E-05	5.50E-04
309860	Sobp	-0.06435	0.10328864	0.234378
499129	Kctd15	-0.06435	0.17996715	0.349137
300837	Leo1	-0.06435	0.08124781	0.197041
116546	Ralb	-0.06436	0.12660533	0.272483
64390	Prpsap1	-0.06438	0.08674908	0.206672
306147	Slitrk1	-0.06439	0.0549299	0.145418
100363280	Tmem74bos	-0.06442	0.88361718	0.946591
24179	Agt	-0.06443	0.48425138	0.672493
500690	Map3k9	-0.06448	0.03020636	0.090624
291159	Hist1h2a11	-0.06458	0.81246881	0.905146
299203	Acyp1	-0.06458	0.26022451	0.449603
25353	Spp1	-0.0646	4.09E-14	1.02E-12
113938	Snurf	-0.06463	7.21E-09	9.89E-08
680415	Pappa2	-0.06466	0.38837204	0.58554
312225	Wdr91	-0.06468	0.21008604	0.388644

292673	Ercc1	-0.06474	0.13368351	0.283456
108349973	LOC108349973	-0.06475	0.90437364	0.958208
690068	Tatdn1	-0.06475	0.36557783	0.561622
314432	Uba1	-0.06478	2.28E-08	2.90E-07
315668	Rab39a	-0.06478	0.28974098	0.484896
246074	Scd	-0.06478	3.15E-06	2.86E-05
362678	Faap20	-0.06481	0.30400594	0.501021
293023	Klh125	-0.06481	0.43131799	0.625434
292876	Josd2	-0.06492	0.0842357	0.202457
81670	Gpt	-0.06495	0.53283383	0.714887
300033	Eef1d	-0.06497	0.02360256	0.074682
293864	Ubl4a	-0.06506	0.05952899	0.155157
29751	Sema3a	-0.06509	0.80277284	0.899183
192268	Gls2	-0.06514	0.12956466	0.277005
299694	Nuak1	-0.06516	0.25402467	0.442666
362539	Adamts11	-0.06517	0.14693703	0.302368
313806	Rnf19b	-0.0652	0.0353881	0.102598
296570	Edf1	-0.0652	0.00154347	0.007537
83502	Cdh1	-0.06523	2.01E-06	1.90E-05
291403	Zadh2	-0.06526	0.2111276	0.390078
50866	Rab4b	-0.06538	0.00668625	0.026518
361041	Carmil3	-0.06541	0.02039604	0.066548
313874	Rasgrp3	-0.06545	0.31125494	0.506481
299979	Grhl2	-0.06548	0.79818121	0.896412
170796	Grin3b	-0.06548	0.50198845	0.688688
311796	Nelfb	-0.06555	0.00320929	0.014254
297525	Mkrn2	-0.06555	0.0533955	0.142008
304582	Sart3	-0.06557	0.21973849	0.401739
103690112	LOC103690112	-0.06558	0.62412556	0.781953
685384	Rnf180	-0.06559	0.22304752	0.405841
81766	Rpl18	-0.06565	0.00858925	0.032632
296408	Fam210b	-0.06568	0.24051957	0.428022
315054	Slc45a4	-0.0657	0.01081252	0.039464
64161	Pi4ka	-0.06571	8.92E-06	7.40E-05
301418	Maip1	-0.06573	0.3193766	0.514335
314906	Kif5a	-0.06576	4.68E-13	1.04E-11
312303	Zfp746	-0.06576	0.25335161	0.441776
64527	Pdap1	-0.06577	0.00928884	0.034865
313672	Kazn	-0.06578	0.0183511	0.061112
117030	Erp29	-0.06578	0.08212654	0.198767
498234	Arl8a	-0.06582	1.98E-07	2.20E-06
286996	Zfp689	-0.06583	0.35638108	0.553431
361815	Rnf8	-0.06584	0.18270595	0.352904
50686	Gsk3a	-0.06584	0.00178261	0.00856
497878	Nsg2	-0.06585	4.08E-08	5.03E-07
301634	Fam174a	-0.06587	0.13666364	0.287598
362788	Traf3	-0.06591	0.01789267	0.059878
103692127	LOC103692127	-0.06593	0.50401836	0.690776
314644	Dohh	-0.06601	0.07226195	0.180158
500221	Evala	-0.06602	0.83392178	0.916924
308690	Ndn	-0.06604	2.90E-06	2.65E-05
680448	Pcdhgb5	-0.0661	0.48200993	0.670799
140724	Cacng3	-0.06618	0.40850742	0.605308
64203	Bcat2	-0.06618	0.05882243	0.153841
293668	Brms1	-0.06624	0.05526145	0.146134
81917	Hiplr	-0.06625	0.03176894	0.094375

100360041	Zfp366	-0.06625	0.69432781	0.831508
289335	Susd4	-0.06626	5.01E-05	3.56E-04
29354	Pla2g5	-0.06628	0.23463582	0.420974
307481	Pcdh1	-0.06638	0.03458392	0.100834
362711	Tmem214	-0.06639	0.03885543	0.110613
317575	Smarca1	-0.06641	0.1948058	0.368978
100360120	Smim1011	-0.06645	0.35910796	0.556033
364974	Rnaseh2a	-0.06646	0.07029056	0.176143
360646	Limd2	-0.0665	0.19450155	0.368659
691995	LOC691995	-0.0665	0.123704	0.268484
288917	Farsa	-0.0665	0.13281385	0.282178
362081	Fbxw5	-0.06654	0.03024836	0.090707
294289	Zbtb9	-0.06655	0.33336849	0.529437
300018	Lynx1	-0.06655	1.88E-09	2.80E-08
24896	Gnas	-0.06658	3.25E-28	1.74E-26
361087	Slain1	-0.06662	0.30715686	0.502906
314262	Plekhhl1	-0.06664	0.11633009	0.256276
25120	Aanat	-0.06665	0.76598863	0.877014
303635	Fam20a	-0.06668	0.41433911	0.610104
502091	Rnf122	-0.06669	0.36462338	0.560789
365592	Pdss2	-0.06671	0.26893622	0.460395
302934	Ppl	-0.06685	0.55057249	0.731013
362252	Scand1	-0.06685	0.06321641	0.162675
64303	Pfn1	-0.06688	1.41E-05	1.12E-04
311171	Lrrc55	-0.06689	0.06225328	0.160543
303830	Tbccd1	-0.06693	0.20831394	0.386417
360912	Helq	-0.06697	0.39084564	0.58792
81826	Slc20a1	-0.06699	0.00263164	0.011987
29512	Padi4	-0.067	0.83102928	0.915382
29681	Clqbp	-0.06708	0.02493476	0.077939
310880	Zgrf1	-0.0671	0.4560785	0.647437
84401	Puf60	-0.0671	6.74E-04	0.003656
362829	Lsm7	-0.06711	0.21398863	0.394293
295238	Dap3	-0.06712	0.15630047	0.316069
308572	Myh14	-0.06716	0.00249474	0.011446
25415	Crmp1	-0.06716	0.00844327	0.03218
308417	Nectin2	-0.06718	0.10412903	0.235499
84008	Cntnap1	-0.06718	1.11E-06	1.09E-05
313296	Dcaf1211	-0.06725	0.27784181	0.470648
294696	Mrps36	-0.06735	0.07735371	0.189431
690820	Klf16	-0.06737	0.20049596	0.376461
307514	Epb4114a	-0.06744	0.18582405	0.357368
308976	Kdm8	-0.06747	0.24545534	0.433726
366311	Clvs1	-0.0675	0.26443805	0.454738
311862	Lamc3	-0.06754	0.3499635	0.54663
751787	Flad1	-0.06759	0.05716008	0.150216
360526	P4ha2	-0.06762	0.32493526	0.52047
299127	Jkamp	-0.06768	0.01166085	0.042013
266733	Slc12a8	-0.0677	0.71292753	0.842472
298084	Zbtb5	-0.0677	0.3421181	0.538839
308868	Lrtomt	-0.0677	0.63479252	0.790223
311742	Cdca7	-0.0677	0.71292753	0.842472
311852	RGD1311084	-0.0677	0.69106748	0.829168
361594	Aen	-0.0677	0.36746195	0.563607
500986	Pdzd3	-0.0677	0.79473751	0.89381
686035	LOC686035	-0.0677	0.97320651	1

288704	RGD1311899	-0.06775	4.62E-04	0.002617
308435	Cic	-0.06775	4.51E-05	3.25E-04
361884	Mccc2	-0.06776	0.17885446	0.347615
310769	Wdr77	-0.06776	0.08200399	0.198546
84510	Stmn2	-0.06779	4.94E-39	3.73E-37
360810	Gpn3	-0.06781	0.24421357	0.432495
295462	Mcub	-0.06781	0.26894968	0.460376
117099	Bdh1	-0.06786	0.23991261	0.427302
288832	Olr1058	-0.06787	0.94637268	0.985708
59076	Grk6	-0.06787	0.03476223	0.101199
361364	Dok4	-0.06794	2.86E-05	2.15E-04
288031	Fam43a	-0.06795	0.38334169	0.580115
246120	Plbd2	-0.06796	2.27E-05	1.74E-04
292069	Ctu2	-0.06798	0.4608329	0.652048
360480	Cdip1	-0.068	0.00244473	0.011246
367145	Chst2	-0.06803	0.00110873	0.005649
313811	Dnajb5	-0.06804	0.20765364	0.38553
286930	Dlgap4	-0.0681	0.03883386	0.110568
140667	Ap3m2	-0.06813	0.29643788	0.492942
305338	Apbb2	-0.06813	0.00758056	0.029374
361637	Acsm5	-0.06813	0.89343998	0.952879
294333	Fam207a	-0.06817	0.15759758	0.317849
297903	Fam92a	-0.06817	0.15967791	0.321126
502317	Aplp1	-0.06819	5.78E-04	0.003183
362558	Lrp8	-0.06821	0.05138921	0.137749
502291	RGD1562625	-0.06824	0.75171216	0.867395
85435	Smad9	-0.06824	0.0054727	0.022362
360839	Tmem163	-0.06825	0.10883117	0.243273
361056	Rnaseh2b	-0.06825	0.25896989	0.448249
500295	Tatdn2	-0.06828	0.04848805	0.131903
502990	Nipal3	-0.06829	0.01004252	0.037181
310838	Bcar3	-0.06831	0.12747913	0.273961
171374	Atp5f1b	-0.06835	5.00E-21	1.89E-19
311423	Slc4a11	-0.06838	0.25851833	0.447834
83425	Akap12	-0.06841	2.30E-25	1.08E-23
310662	Scnml	-0.06843	0.3855442	0.582291
294313	Mtch1	-0.06843	1.20E-07	1.38E-06
113906	Hspb8	-0.06846	4.92E-06	4.29E-05
312709	Mlf2	-0.06846	2.98E-06	2.72E-05
500552	RGD1561149	-0.06849	0.00668962	0.02652
114592	Aurkb	-0.06857	0.76234183	0.874627
362941	Fbxl6	-0.06859	0.39976025	0.596804
360804	Cdk2ap1	-0.0686	0.00254975	0.011673
315167	Ndufa6	-0.06861	0.03467379	0.100988
362481	Tox	-0.06868	0.39196887	0.589144
288563	Actl6b	-0.0687	0.19594404	0.370508
301709	Arhgap28	-0.0687	0.04843762	0.131823
366473	Azin2	-0.06871	0.14436146	0.298714
363112	Mrap2	-0.06875	0.02005357	0.065633
65171	Scamp5	-0.06876	0.0014255	0.007041
295490	Emcn	-0.06878	0.20191625	0.377861
304528	Rfc5	-0.0688	0.35940886	0.556273
359725	Cbr4	-0.06883	0.33795419	0.534624
171492	Map3k2	-0.06886	0.64938211	0.801834
298003	Gal t	-0.06886	0.17260662	0.339561
287827	Armc7	-0.06886	0.40278871	0.599821

292708	Irgq	-0.06888	3.47E-04	0.002042
361651	Prrt2	-0.0689	0.00184525	0.008825
361410	Tmem231	-0.0689	0.14378542	0.298235
304201	Evi5l	-0.0689	0.0278205	0.084965
100363436	Mdfic2	-0.06891	0.02802561	0.085454
293693	Cdc42bpg	-0.06891	0.46719858	0.65817
288913	LOC288913	-0.06892	0.07925023	0.193131
690966	Polr2e	-0.06893	0.03287806	0.096929
29337	Plcg2	-0.06894	0.57046054	0.739831
171103	Cdc25b	-0.06895	0.0081635	0.031276
362963	Sgsm3	-0.06901	0.09652918	0.222674
81823	Cib1	-0.06908	0.34942882	0.546108
24383	Gapdh	-0.06909	2.42E-49	2.30E-47
81725	Musk	-0.0691	0.73426352	0.856656
302998	Mettl26	-0.06911	0.38118046	0.578176
681096	Nxpe3	-0.06916	0.04045639	0.114265
312258	Adck2	-0.0692	0.20368335	0.380197
298688	Ints11	-0.06923	0.1253256	0.270646
260326	Adgrg1	-0.06925	1.13E-05	9.17E-05
301173	Plcl2	-0.06926	0.33796724	0.5346
287097	Hcfclrl	-0.06926	9.28E-04	0.00485
84016	Grip1	-0.06927	0.1909623	0.364125
288584	Fis1	-0.0693	0.00146164	0.0072
83725	Wfs1	-0.06939	0.00829744	0.031719
24401	Got1	-0.06942	1.89E-05	1.46E-04
291981	Nutf2	-0.06943	0.00458083	0.01925
691193	Elof1	-0.06943	0.18749143	0.359595
297990	Ndufb6	-0.06944	0.02668241	0.082161
502414	Tbc1d22b	-0.06944	0.09844707	0.226031
58844	Grb14	-0.06945	0.09197245	0.215213
108352187	LOC108352187	-0.06946	0.8032106	0.899515
503214	Rbpms2	-0.06946	0.66680124	0.810727
684555	Gp6	-0.06946	0.82955608	0.914764
361435	Fanca	-0.06948	0.51463047	0.700482
500715	Ccnk	-0.06948	0.07891853	0.192495
252880	Drgx	-0.06953	0.00686652	0.027081
287803	Ttyh2	-0.06958	0.15292486	0.310794
56777	Adam1a	-0.06961	0.61101549	0.772439
361578	Nomol	-0.06961	8.41E-04	0.004449
298762	Cox7a2l	-0.06964	1.04E-05	8.54E-05
367083	Alg9	-0.06966	0.17004917	0.335709
315327	Spryd3	-0.06967	3.48E-05	2.56E-04
293049	Rlbp1	-0.0697	0.55851011	0.737644
289783	Zmiz2	-0.06972	0.05014474	0.135193
365571	Tysnd1	-0.06979	0.28543511	0.479586
89811	Vegfb	-0.06979	0.03598317	0.103912
25297	Cacnb3	-0.06983	2.26E-08	2.88E-07
689852	Psmf1	-0.06987	0.01007718	0.037288
362721	Eipr1	-0.0699	0.12115221	0.264301
25247	Nsg1	-0.06992	3.96E-04	0.002288
306007	Ccar2	-0.06997	0.03566962	0.103241
288663	Atxn2	-0.06999	0.00346297	0.015207
365096	Acat211	-0.07002	0.06413185	0.164298
306117	Tbc1d4	-0.07002	0.13419158	0.28428
29674	Psm7	-0.07004	0.00102776	0.005299
360785	Ap1s1	-0.07007	0.00314342	0.013991

297969	Rars2	-0.07011	0.41829998	0.614038
499358	Scd4	-0.07011	0.76737593	0.877758
294291	Smim29	-0.07016	0.1240918	0.268896
113958	Mrps7	-0.0702	0.03781555	0.108186
307056	Anln1	-0.07021	0.80541279	0.900551
685029	Anapc13	-0.07026	0.24785629	0.436631
306508	Mfhas1	-0.07026	0.00314057	0.013981
313557	Hivep3	-0.07028	0.0851656	0.203971
360926	Lnx1	-0.07029	0.17895378	0.347666
25272	Mapk10	-0.07031	1.11E-07	1.29E-06
83589	Apba1	-0.07032	6.33E-06	5.40E-05
305795	Abhd6	-0.07034	0.11639026	0.256379
679135	Slc25a53	-0.07037	0.5954953	0.759269
308416	Tomm40	-0.07046	0.02261744	0.072068
406196	Cchcr1	-0.07046	0.19627914	0.37092
296190	Ndufaf5	-0.07051	0.11768675	0.258517
100912195	LOC100912195	-0.07053	0.04372098	0.121628
296849	Pdk3	-0.07053	0.06108378	0.158278
291969	Atp6v0d1	-0.07054	4.74E-09	6.70E-08
360815	Ddx54	-0.07057	0.05152792	0.138043
292804	Gpi	-0.07061	3.96E-13	8.82E-12
302913	RGD1309748	-0.07063	0.0068603	0.027073
100359731	Tipin1	-0.07066	0.66321219	0.808221
294004	Dpcd	-0.07069	0.06252485	0.161091
361431	Cbfa2t3	-0.07069	0.31376232	0.508778
29264	Clip2	-0.07071	1.53E-05	1.21E-04
58819	Txnrd1	-0.07081	0.00146727	0.007224
81504	Grb2	-0.07082	7.09E-05	4.88E-04
306805	Aspn	-0.07082	0.52078817	0.705384
29328	Gpx4	-0.07082	1.49E-07	1.70E-06
310645	Pmvk	-0.07083	0.03090167	0.092274
499497	Mef2c	-0.07083	0.09908108	0.226994
289785	Myo1g	-0.07084	0.66359636	0.808275
287044	Clec16a	-0.07085	0.0225772	0.071976
24642	Pgam1	-0.07086	3.25E-11	5.95E-10
63885	Pde10a	-0.07089	0.30208126	0.499058
306840	Sirt5	-0.0709	0.01017146	0.037571
303875	Nrros	-0.0709	0.41557394	0.611733
114210	Spata2	-0.07096	0.07811549	0.190928
288741	Ficd	-0.07103	0.13542884	0.285694
300967	Tmem108	-0.07105	0.24081236	0.428423
690000	LOC690000	-0.0711	0.06540838	0.166671
361567	Bcl2l12	-0.07112	0.51125505	0.697183
315807	Pigb	-0.07113	0.6328349	0.789127
503035	Tmem229b	-0.0712	2.29E-05	1.75E-04
171082	Atp5mc2	-0.07122	0.00679922	0.02686
307395	Ablim3	-0.07129	0.01064629	0.039
363498	Bex2	-0.0713	0.0048891	0.020339
405982	Olr1343	-0.07131	0.91311312	0.96441
103691065	Bsph1	-0.07131	0.97247489	1
296152	Tgm6	-0.07131	0.87736639	0.943024
313653	Vwa5b1	-0.07131	0.82725351	0.913151
316521	Vil1	-0.07131	0.82725351	0.913151
307850	Exosc6	-0.07133	0.39911038	0.596442
681219	Cox14	-0.07139	0.07175632	0.179109
362326	Tspan12	-0.0714	0.00293626	0.013186

299156	Rab15	-0.07144	6.61E-04	0.003595
361517	Vasp	-0.07151	0.00996292	0.036944
497972	Heatr6	-0.07152	0.25608981	0.445084
300866	Lca5	-0.07153	0.42477129	0.620048
313772	Acap3	-0.07156	0.03701636	0.106347
100911951	LOC100911951	-0.07158	0.00677406	0.026788
25104	Pc	-0.07158	0.01106699	0.04027
25713	Itgb7	-0.07158	0.65175957	0.803103
81652	Ctbs	-0.0716	0.14887675	0.305074
54226	App	-0.07161	1.13E-18	3.81E-17
353230	Lhfpl4	-0.07166	0.04303687	0.120005
299338	Exoc3l4	-0.07168	0.82425948	0.911351
288683	Rita1	-0.07168	0.0307207	0.091863
307511	Cdc25c	-0.07168	0.31271573	0.50773
305812	Gpr137c	-0.07177	0.32148945	0.516602
25098	Foxa1	-0.07179	0.87572198	0.941948
305455	Nelfa	-0.0719	0.19161066	0.364886
290796	Saraf	-0.07197	1.68E-04	0.00106
360819	Suds3	-0.07197	0.01364924	0.047855
436582	Atp6v0e2	-0.07197	1.28E-05	1.02E-04
498145	Fam220a	-0.07201	0.09771765	0.224762
100361417	Tbcd	-0.07205	1.18E-04	7.69E-04
304375	Agfg2	-0.07206	0.08996426	0.211684
309651	Ppil1	-0.07207	0.24983385	0.438331
290529	Tmem254	-0.07212	0.13032097	0.278216
171495	Capn5	-0.07217	2.26E-08	2.88E-07
299850	Dctn2	-0.07218	2.62E-08	3.31E-07
171073	Hdgf12	-0.07218	0.03516189	0.102051
171114	Ndrg2	-0.0722	1.93E-08	2.49E-07
304077	Dop1b	-0.0722	0.00381269	0.01648
24406	Grik4	-0.07221	0.12035733	0.263018
287873	Chmp6	-0.07225	0.05624273	0.148235
499780	RGD1561113	-0.07225	1.28E-04	8.27E-04
100301568	Abo	-0.0723	0.37960508	0.576751
689963	Tmem52b	-0.07235	0.82133077	0.909803
306152	Slitrk5	-0.07238	0.06873861	0.173257
363632	Sox15	-0.0724	0.84842904	0.924548
363333	Chaf1a	-0.07241	0.35747904	0.554548
304537	Bicd11	-0.07242	0.16414714	0.327967
25280	St8sial	-0.07243	0.24863281	0.436828
303100	Mgat4b	-0.07247	0.02698909	0.082918
302983	Mapk8ip3	-0.07248	2.23E-13	5.09E-12
316123	Gtf2f1	-0.07248	0.01985314	0.065134
100360180	Pgd	-0.07252	0.00260715	0.011902
81709	Msh2	-0.07255	0.25702424	0.446016
298508	Ppie	-0.07257	0.27570539	0.467903
310745	Dclrelb	-0.07259	0.22765987	0.411951
690161	Hfml	-0.07259	0.78734552	0.8897
679668	LRRTM1	-0.07263	0.15834132	0.319045
84596	Srm	-0.07263	0.09746451	0.22437
312675	Fbxl14	-0.07264	0.14235578	0.296335
56084	Hgs	-0.07273	5.35E-04	0.002975
311621	Tomm34	-0.07275	0.00105892	0.005436
24805	Syt2	-0.07277	1.71E-04	0.001079
313169	Ubap2	-0.07277	2.83E-04	0.001696
100911859	Hoxc11	-0.0728	0.57387211	0.742234

29663	Ap1b1	-0.07283	3.99E-04	0.002307
103690028	LOC103690028	-0.0729	0.58902178	0.754602
293621	Hras	-0.07294	0.00698479	0.027468
29659	P2rx4	-0.07298	0.07275433	0.181101
311562	Necab3	-0.073	9.33E-04	0.004871
311338	Rpap1	-0.07301	0.20441607	0.381191
363129	Nudt16	-0.07303	0.19118238	0.364435
300240	Atg101	-0.07307	0.10119833	0.230651
305454	Zfyve28	-0.07308	0.00422784	0.017965
362754	Trmt5	-0.07314	0.25500654	0.443647
102552527	LOC102552527	-0.07319	0.30996807	0.505077
361268	Asb13	-0.0732	0.32864132	0.524334
287357	Wnt9a	-0.07322	0.26392058	0.454176
297954	Fhl5	-0.07326	0.82486432	0.911596
292888	Ptov1	-0.07332	4.60E-05	3.30E-04
81829	Mdh2	-0.07341	3.77E-08	4.65E-07
311839	Slc27a4	-0.07345	0.00279227	0.012641
29564	Dync11l	-0.07348	1.14E-06	1.12E-05
29592	Bcat1	-0.0735	8.06E-29	4.37E-27
24191	Aldoc	-0.07353	6.02E-11	1.07E-09
303745	Sirt7	-0.0737	0.24870285	0.43691
103689922	LOC103689922	-0.07381	0.45378133	0.64521
79241	Hoxa5	-0.07381	0.45378133	0.64521
314164	Lrfn5	-0.07386	0.02259823	0.072031
171437	Dnrtip1	-0.07386	0.12762157	0.274174
302022	LOC302022	-0.07386	0.08960973	0.211084
361887	Cwc27	-0.07388	0.25708015	0.445991
305540	Slc1a4	-0.07388	0.08255804	0.199507
25101	Chrna3	-0.07391	0.03494147	0.101613
690442	Tmem116	-0.07393	0.78538199	0.888535
102557427	LOC102557427	-0.07393	0.49394876	0.680896
25391	Atp2a3	-0.07402	0.14742262	0.302942
681300	LOC681300	-0.07402	0.59145064	0.756493
81925	Cds1	-0.07405	0.04139302	0.116153
79117	Arf5	-0.07405	2.73E-04	0.001648
85383	Nol3	-0.07407	0.04892658	0.132906
116720	Pik3c2g	-0.07409	0.51636475	0.701689
406164	Pbx2	-0.0741	0.03572147	0.103329
290642	Ccdc124	-0.07411	0.02318233	0.07356
361717	Dnajc4	-0.07415	0.34475208	0.541376
291202	Hax1	-0.07418	0.10960016	0.244648
314630	Rexo1	-0.0742	0.02782913	0.084964
685607	Pfdn2	-0.07423	0.01643491	0.055824
361664	Eef1akmt2	-0.07427	0.42787081	0.622997
100362785	Ankdd1a	-0.07427	0.75261889	0.867968
170551	Slc5a6	-0.07429	0.02543471	0.079112
289728	RGD1560394	-0.07431	0.28498273	0.479207
303746	Mrpl12	-0.07434	0.04963866	0.134304
308777	Ap3b2	-0.07445	2.04E-07	2.26E-06
298298	Dhcr24	-0.07446	1.98E-06	1.86E-05
25527	Ptgis	-0.07447	0.6177296	0.776648
25330	Lipe	-0.07449	0.06468617	0.165362
364380	Abhd4	-0.07453	4.13E-19	1.42E-17
100911483	Ndufa13	-0.07457	0.01758758	0.059065
293991	Ndufb8	-0.07457	8.29E-04	0.00439
306600	Atp11a	-0.0746	2.45E-14	6.20E-13

116644	Rtn1	-0.07464	2.56E-20	9.29E-19
300668	Dpagt1	-0.07466	0.01211937	0.043435
310201	Cmb1	-0.07469	0.24545075	0.433758
170919	Agpat4	-0.07469	0.01582635	0.054191
266601	Tomm20	-0.0747	0.00161288	0.007832
502764	Zfp777	-0.07474	0.12133306	0.264634
362981	Hdac10	-0.07477	0.18578895	0.357337
24788	Sord	-0.07479	0.01924558	0.063436
308495	Lrfn3	-0.07483	0.21659042	0.397779
500947	Vstm5	-0.0749	0.12688507	0.2729
641525	Pcdhgc5	-0.07491	0.15010467	0.306502
289369	Ush2a	-0.07493	0.68740514	0.826596
499626	Erich6	-0.07493	0.66649555	0.810511
79227	Thoc6	-0.07494	0.19688036	0.371504
56081	Scaf1	-0.07495	3.67E-05	2.69E-04
289831	Commd1	-0.07495	0.01538003	0.052978
361675	Cend1	-0.07496	1.78E-11	3.37E-10
363023	Mrpl4	-0.07498	0.0419157	0.11736
29138	Bsn	-0.07499	0.00399769	0.017132
305453	Cfap99	-0.075	0.45284591	0.644433
103689987	Mfsd14a	-0.07506	0.18658094	0.358317
79125	Anxa6	-0.07507	1.46E-18	4.90E-17
84005	Eif2b2	-0.07507	0.02164668	0.069709
500242	Pcbp1	-0.07507	2.38E-05	1.81E-04
362302	Abcb8	-0.0751	0.05099477	0.136904
114245	Hcn3	-0.07523	0.15232014	0.309929
114504	Msx3	-0.07531	0.87387986	0.94079
365183	Fcar	-0.07531	0.87387986	0.94079
365390	Tspan32	-0.07531	0.87387986	0.94079
498229	Tmem81	-0.07531	0.75089113	0.866973
60667	Gpr20	-0.07531	0.87387986	0.94079
619550	Gpr153	-0.07532	0.09606615	0.222144
289081	Colgalt2	-0.07533	0.01017939	0.037578
102552073	LOC102552073	-0.07545	0.81875205	0.908956
683891	Ccdc160	-0.07548	0.42685518	0.621946
64358	Kcna6	-0.07549	1.50E-04	9.58E-04
24314	Nqo1	-0.07552	0.01418834	0.049427
316077	Entpd3	-0.07561	0.00437251	0.018464
690345	Srp9	-0.07564	0.05711388	0.150136
81667	Gnb2	-0.07565	5.63E-06	4.86E-05
360793	Rhbdd2	-0.07566	0.04687745	0.12855
288152	Hoxd3	-0.07572	0.53272947	0.714948
25202	Gucylb1	-0.07578	0.40797299	0.60494
298801	Clip4	-0.07579	0.11676241	0.256931
171381	Psd	-0.07582	0.42577891	0.620948
293863	Lage3	-0.07585	0.01062669	0.038973
300047	Cycl	-0.07586	2.91E-04	0.001741
306844	Phactr1	-0.07587	0.14418906	0.298584
246274	Faim2	-0.07587	5.76E-06	4.96E-05
303772	Slc16a6	-0.0759	0.04948667	0.134103
66016	Kcnmb4	-0.07593	0.35261459	0.549599
296318	Ndr3	-0.07595	0.00466952	0.019567
291673	Sil1	-0.07596	0.07581728	0.186749
304822	Pkp1	-0.07597	0.15595547	0.315573
298696	Pin1	-0.07601	2.37E-04	0.001454
50676	Slc6a12	-0.07613	0.78217637	0.886858

24451	Hmox1	-0.07615	0.19464044	0.368775
116724	Epb4113	-0.07617	5.53E-27	2.79E-25
314332	Tmem63c	-0.07618	1.86E-05	1.45E-04
500899	Mfsd3	-0.07622	0.15312724	0.311106
690137	Tmem120b	-0.07626	0.24038614	0.427865
65208	Dpysl5	-0.07635	8.65E-07	8.67E-06
292845	Etfb	-0.07638	0.04868566	0.132365
292875	Aspdh	-0.07638	0.74913006	0.865832
29739	Gclm	-0.07639	0.01304593	0.046148
365222	Lrfn1	-0.07639	0.05050057	0.135845
305248	Mthfd21	-0.07644	0.48565927	0.673858
81530	Pdk2	-0.07647	0.03135789	0.093431
305468	Eif4enif1	-0.07648	0.0480804	0.130963
171143	Trpm4	-0.07653	0.14972904	0.305997
363022	Zfp846	-0.07668	0.02872565	0.087101
25485	Myold	-0.0767	0.15177231	0.309112
102555457	LOC102555457	-0.07674	0.44728947	0.639585
366508	Pik3cd	-0.07676	0.02203733	0.070681
85496	Enpp1	-0.07683	0.15120947	0.308163
679869	Tcf712	-0.07684	0.28195486	0.475543
192226	Cand2	-0.07685	0.3960207	0.593361
306636	Efnb2	-0.07693	0.24263745	0.430464
338401	Crip2	-0.07694	4.09E-10	6.61E-09
56281	Mrpl37	-0.07696	0.0410409	0.115437
64632	Exoc7	-0.077	0.1380087	0.289788
25308	Cstb	-0.07701	0.00489932	0.020377
308398	Ppplr37	-0.07706	0.00265396	0.012075
171079	B3galt4	-0.07711	0.5777913	0.74548
363462	Gemin8	-0.07717	0.28628048	0.48054
688813	Ddal	-0.07718	4.60E-04	0.002607
366277	Polr3k	-0.07723	0.07333937	0.182177
310269	Egfem1	-0.07723	0.4300363	0.624289
81650	Csnk2b	-0.07725	0.00186739	0.008916
25203	Ccnb1	-0.07726	0.44278068	0.635571
309301	Rcl1	-0.07729	0.26501866	0.45549
688869	Cox6b1	-0.0773	1.74E-05	1.36E-04
298528	Epha10	-0.07735	0.50697021	0.693574
288753	Diablo	-0.07737	1.48E-04	9.46E-04
363516	Abcd1	-0.07738	0.25331634	0.441755
361416	Cenpn	-0.0774	0.22829376	0.412784
314641	Pip5k1c	-0.0774	2.34E-08	2.97E-07
363239	Raph1	-0.07743	0.01571627	0.053863
364675	B4galt7	-0.07744	0.11777098	0.258672
116635	Scg3	-0.07746	1.68E-11	3.19E-10
108349796	LOC108349796	-0.07748	0.71338457	0.842882
303376	Fndc8	-0.07748	0.81980283	0.909115
308701	Tarsl2	-0.07748	0.1307729	0.279024
313020	Wdte1	-0.07754	4.63E-04	0.00262
304244	Fry	-0.07757	4.37E-04	0.002494
29616	Ptpm	-0.07758	0.01584524	0.054237
362176	Lmo2	-0.07759	0.30796154	0.502539
361120	Eps15l1	-0.07761	0.00812055	0.031149
309866	Crybg1	-0.07763	0.5323177	0.714648
298201	Fam214b	-0.07763	0.03953148	0.112236
29179	Syn2	-0.07766	6.47E-06	5.50E-05
108351600	LOC108351600	-0.07768	0.59267849	0.757707

311864	Uck1	-0.07769	0.07018936	0.175982
296267	Snph	-0.07769	1.93E-04	0.001203
306347	Ell	-0.07769	0.15260647	0.310346
498600	Fam32a	-0.07786	0.00119225	0.00602
360975	Ogdh	-0.0779	4.19E-08	5.16E-07
171386	Avpil	-0.07797	0.11521223	0.254372
54268	Mapk4	-0.078	0.13850488	0.290605
60462	Batf3	-0.07805	0.66790832	0.811555
361816	Zfand3	-0.07805	2.46E-04	0.001502
288923	Dhps	-0.07807	0.06632508	0.168421
83466	Celsr3	-0.0781	0.00650555	0.025936
64347	Sncg	-0.07824	3.12E-46	2.72E-44
171499	Crlf2	-0.07825	0.21754916	0.398924
25501	Nxph1	-0.0783	0.4474716	0.639701
363283	Cops8	-0.07832	0.00633731	0.025356
246770	Gtf2ird1	-0.07839	0.11445228	0.253223
25666	Dgkg	-0.07848	0.01182503	0.042524
257644	Zwint	-0.07851	3.58E-47	3.27E-45
306015	Fam160b2	-0.07853	0.02718413	0.083463
363216	Cnnm4	-0.07854	0.02947616	0.088938
282837	Fibp	-0.0786	0.03597962	0.103917
25344	Phb	-0.0786	7.98E-04	0.004246
305957	Neil2	-0.07861	0.74550351	0.863055
84354	Ssbp3	-0.07865	3.28E-05	2.44E-04
310653	mrpl9	-0.07881	0.06703983	0.169761
361588	Lrrc28	-0.07884	0.04652096	0.127738
360567	Ccdc92b	-0.07885	0.09423212	0.218887
288514	Ints1	-0.07889	0.00550032	0.022441
94194	Cox5b	-0.07891	1.81E-04	0.001137
24225	Bdnf	-0.07892	0.11485689	0.253794
363192	Klhdc3	-0.07893	0.00218422	0.010198
58960	Map2k2	-0.07898	0.00436466	0.018435
50938	Cdon	-0.07899	0.29168922	0.487129
29211	Sptbn2	-0.079	5.31E-05	3.75E-04
94174	Tinagl1	-0.07903	0.17332034	0.340578
60324	Synpo	-0.07906	3.94E-04	0.002282
362983	Dennd6b	-0.07907	0.14540893	0.300229
362594	Meaf6	-0.07911	0.04265244	0.119143
301384	Hibch	-0.07911	0.10346375	0.234468
29573	Slc37a4	-0.07913	0.08911068	0.210325
498890	RGD1560212	-0.07913	0.00154047	0.007526
360554	Rnf167	-0.07913	0.00826759	0.031637
266813	Prrxl	-0.07914	0.49583044	0.682206
316578	Slc16a14	-0.0792	0.1470285	0.302426
310411	Cog6	-0.07922	0.15277029	0.31058
445415	S100a11	-0.07924	8.44E-05	5.70E-04
306353	Rfxank	-0.07925	0.31912228	0.514099
140447	Slc8a2	-0.07927	0.09646077	0.222597
266764	Tbkbp1	-0.0793	0.08288828	0.199976
310801	Slc30a7	-0.07936	0.43412674	0.628311
292078	Spata33	-0.07938	0.42425572	0.619533
312916	Cops5	-0.0794	9.65E-04	0.005018
64045	Glrx	-0.07941	9.15E-04	0.004792
56029	Srcin1	-0.07942	0.11177752	0.248779
60416	Pfkip	-0.07943	1.21E-16	3.59E-15
298782	Ttc27	-0.07943	0.08703421	0.207118

24484	Igfbp3	-0.07944	0.10457732	0.23626
315430	Amotl1	-0.07945	0.00520619	0.021466
289357	Lyplal1	-0.07949	0.24843237	0.436717
85256	Slc2a8	-0.07957	0.03649106	0.105108
681418	Ndufb10	-0.07958	2.75E-04	0.001659
100909599	LOC100909599	-0.0796	0.90271294	0.957888
64544	B3gat2	-0.0796	0.2174836	0.398881
103693780	LOC103693780	-0.07964	0.004836	0.020149
84609	Sema6b	-0.07965	0.20480169	0.381835
27139	Rps26	-0.07968	0.05004612	0.135023
100362606	Akain1	-0.07968	0.17344936	0.340621
103693393	LOC103693393	-0.07976	0.39094384	0.588021
24888	Bc12l1	-0.07976	0.00326878	0.014457
287603	Tex14	-0.07977	0.87010804	0.93856
311532	Sdcbp2	-0.07977	0.81711748	0.908094
363555	Wfikkn1	-0.07977	0.6652786	0.809806
500954	Ub15	-0.07981	0.00941715	0.035277
292654	Tmem160	-0.07982	0.13380706	0.283686
103690129	LOC103690129	-0.07983	0.52415473	0.707981
304343	Cops6	-0.07988	2.82E-04	0.001692
29579	Esytl	-0.07989	5.15E-09	7.25E-08
288924	Wdr83	-0.07996	0.21213025	0.391741
303872	Pigz	-0.07999	0.16309172	0.326303
641316	Aldh4a1	-0.08	0.09978942	0.228232
310344	Plk4	-0.08003	0.32570661	0.521399
360797	Rabgef1	-0.08017	0.06059662	0.157251
100911225	LOC100911225	-0.08021	0.37857463	0.575645
362994	Ccdc65	-0.08021	0.35357587	0.550556
308311	Cnot3	-0.08021	0.05263375	0.140374
619440	Aarsd1	-0.08026	0.04158361	0.116602
689172	Tmem25	-0.08027	0.00593257	0.023902
83631	Dedd	-0.08028	0.07112437	0.177811
64306	Rpl27	-0.08031	5.69E-04	0.00314
245976	Xab2	-0.08031	0.06035579	0.156797
297432	Abtb1	-0.08033	0.07341113	0.182331
303920	Maats1	-0.08036	0.64244607	0.796264
306842	Gfod1	-0.08042	2.99E-05	2.24E-04
689582	Kdm4d	-0.08046	0.6342439	0.789798
296588	Pmpca	-0.08049	0.00382069	0.016504
361712	Syvn1	-0.08055	0.00380674	0.016462
500889	Mroh5	-0.08057	0.81528826	0.907173
362965	Rangap1	-0.08063	8.92E-06	7.41E-05
295326	Mab2113	-0.08064	0.44054576	0.633796
303089	Trim7	-0.08067	0.21034655	0.38905
102550385	LOC102550385	-0.08068	0.08450623	0.202928
286895	Brinp2	-0.08073	0.06691883	0.169545
500378	Chtop11	-0.08074	0.14747174	0.30301
297416	Nful	-0.08082	0.12681908	0.272819
363496	Armcx6	-0.08087	0.14249869	0.296567
300015	Them6	-0.0809	1.23E-06	1.20E-05
305251	Rassf6	-0.08097	0.62357937	0.781372
300768	Coro2b	-0.08097	1.13E-07	1.31E-06
296390	Ube2v1	-0.08097	3.91E-07	4.15E-06
309446	Hps6	-0.08098	0.11593477	0.255671
65164	Htra1	-0.08099	2.15E-10	3.62E-09
301382	Ercc5	-0.08101	0.20062315	0.376514

498728	Elov12	-0.08112	2.74E-06	2.52E-05
64015	Khdrbs3	-0.08113	0.04477216	0.124045
114022	Glrx2	-0.08117	0.00786638	0.030358
100362940	Snx21	-0.08119	0.00420084	0.01787
362377	Herc3	-0.08119	3.02E-05	2.26E-04
25650	Atp1b1	-0.08121	4.54E-29	2.48E-27
100909732	LOC100909732	-0.08124	0.59519766	0.759042
300147	Sbf1	-0.08127	1.67E-05	1.31E-04
292023	Aars	-0.08131	5.09E-09	7.17E-08
65046	Ap2s1	-0.08135	1.12E-04	7.34E-04
25311	Dcc	-0.08137	0.56712035	0.737106
683404	LOC683404	-0.08137	0.77476438	0.882394
64350	Itgad	-0.0814	0.85401467	0.927927
102557590	LOC102557590	-0.08144	0.69467391	0.831766
24439	Hagh	-0.08149	0.00639637	0.025544
315546	Kirrel3	-0.08149	0.01152575	0.041605
315500	Eepd1	-0.08152	4.26E-04	0.002438
315159	Tob2	-0.08162	0.14390042	0.298344
83529	Vdac1	-0.08162	5.46E-09	7.63E-08
296469	Nkain4	-0.08175	0.30104221	0.497903
171549	Klc3	-0.08175	0.71758226	0.845638
58856	Ddx25	-0.08185	0.05883642	0.153815
681996	Ahsa1	-0.08187	3.95E-05	2.88E-04
170898	Tmlhe	-0.08188	0.34845108	0.545341
65984	Aacs	-0.08188	9.16E-04	0.004798
29710	Scn8a	-0.08196	1.25E-04	8.11E-04
310687	Prcc	-0.08217	0.01886123	0.062483
288750	Tmem132d	-0.0822	0.81431928	0.906545
366013	Coq4	-0.0822	0.37953183	0.576686
690079	Tex38	-0.0822	0.81431928	0.906545
314678	Fhl4	-0.08221	0.65967049	0.805141
114503	Pou4f1	-0.08229	7.42E-06	6.25E-05
362825	Hmg20b	-0.08232	0.09165645	0.214711
102555079	Poln	-0.08247	0.56378242	0.734924
25240	Aqp1	-0.0825	4.62E-04	0.002615
29430	Hap1	-0.08252	0.29871297	0.495255
297076	Gimap6	-0.08255	0.65967245	0.80504
361705	Cnih2	-0.08264	0.13636281	0.287123
362242	Snta1	-0.08266	0.02669578	0.082189
297099	Hoxa9	-0.08271	0.2537221	0.442382
365372	Tbc1d10b	-0.08273	5.55E-04	0.003078
103694905	LOC103694905	-0.08273	0.38826023	0.585511
363252	Retreg2	-0.0828	1.55E-04	9.87E-04
293705	Otub1	-0.08294	1.65E-04	0.001041
361196	Habp4	-0.08296	1.26E-04	8.18E-04
295338	Ptpn22	-0.08304	0.77246321	0.880905
296200	Mgme1	-0.08304	0.56305522	0.734328
309871	Prdm1	-0.08304	0.68259379	0.823149
314264	Rdh12	-0.08304	0.77246321	0.880905
499205	Fam181b	-0.08307	0.22855211	0.413016
360509	Dock2	-0.08307	0.19508579	0.369362
140722	Caskin1	-0.08308	1.48E-07	1.69E-06
362378	Fam13a	-0.08317	0.09311647	0.217143
295323	Trim45	-0.08321	0.36000519	0.556744
299643	Ndufa7	-0.08323	0.02122148	0.068653
361064	R3hcc1	-0.08325	0.05039281	0.135613

312511	RGD1306746	-0.08325	0.15606123	0.315753
299611	Apc2	-0.08327	4.17E-07	4.40E-06
64536	Esm1	-0.0833	0.42994975	0.624258
302552	Tbc1d25	-0.08332	0.12946348	0.276851
685890	Srrm3	-0.08334	0.02826003	0.08599
313771	Cptp	-0.08336	0.00588902	0.023772
363646	Eral1	-0.08338	0.097673	0.224714
306570	Ank1	-0.08344	1.13E-08	1.51E-07
25400	Camk2a	-0.08347	0.03595167	0.103852
64158	Tubala	-0.08352	1.25E-126	#####
117024	Crym	-0.08356	0.1769077	0.345453
315286	Tmem106c	-0.08358	0.14686721	0.302257
498295	Smyd3	-0.08362	0.34322186	0.539685
306542	Brf2	-0.08364	0.27715609	0.469779
686505	Atg4d	-0.08367	0.0621257	0.160366
306332	Aplm1	-0.0837	3.05E-04	0.001817
494223	Fbxl16	-0.08374	1.61E-04	0.001018
287653	Lrrc46	-0.08384	0.48908422	0.67659
312863	Ccdc91	-0.08386	0.02532333	0.078843
364534	Ssbp4	-0.08388	0.02773752	0.084848
316256	Tnfrsf21	-0.08391	2.74E-10	4.53E-09
58953	Sult4a1	-0.08392	1.84E-17	5.75E-16
361682	Tssc4	-0.08392	0.09488432	0.220026
84408	Cdh8	-0.08393	0.28849423	0.483319
306771	Tspan17	-0.08398	1.46E-10	2.49E-09
367562	Gaa	-0.08399	1.53E-05	1.21E-04
499420	Prmt2	-0.08405	0.00802677	0.03087
317366	Pim2	-0.08406	0.12816916	0.274885
304775	Dyrk3	-0.08411	0.50144576	0.688043
678743	Tl11	-0.08412	0.14651258	0.301658
310674	Plekho1	-0.08412	0.004694	0.019661
171553	A3galt2	-0.08414	4.51E-05	3.25E-04
287433	Fxr2	-0.08418	2.29E-06	2.13E-05
294436	Rpf2	-0.08434	0.15048052	0.307171
300666	C2cd21	-0.08434	3.91E-04	0.002265
192360	Eml2	-0.08438	1.26E-04	8.17E-04
29256	Oprl1	-0.08442	0.03106953	0.092702
85497	Klf15	-0.08444	0.13202895	0.281043
29460	Tesk1	-0.08445	0.01275511	0.045304
79123	Asic1	-0.08446	2.79E-07	3.04E-06
287525	Smyd4	-0.08449	0.35935068	0.556274
691278	Triap1	-0.0845	0.1349411	0.285107
24472	Hspala	-0.08458	0.56797439	0.737964
306324	Tspan14	-0.08458	0.04460032	0.123641
313667	Plekhm2	-0.08465	0.00255864	0.011708
103690002	LOC103690002	-0.08475	0.55550659	0.734798
108353263	LOC108353263	-0.08477	0.86600896	0.93533
311861	Fibcd1	-0.08477	0.86600896	0.93533
500640	Ccdc711	-0.08485	0.16084255	0.323025
100362027	LOC100362027	-0.08486	0.07023278	0.176067
171142	Ehhadh	-0.08488	0.27272274	0.464746
688736	Kiaa08951	-0.0849	3.50E-04	0.002057
361945	Postn	-0.08494	0.33935129	0.535899
287453	Rnasek	-0.08497	2.97E-05	2.22E-04
85492	Psmb7	-0.08498	1.77E-07	1.98E-06
25451	Gabbrb2	-0.08499	0.18185125	0.35186

360551	Bcl6b	-0.08505	0.4612867	0.65252
365960	Gipc2	-0.08505	0.4612867	0.65252
298575	Pink1	-0.0851	7.43E-04	0.003994
64119	Kcnk12	-0.08512	0.25665974	0.445749
501146	Stradb	-0.0853	0.0585119	0.153113
300289	Amot	-0.08534	0.10249867	0.232974
59109	Ntrk1	-0.08535	1.02E-08	1.37E-07
363285	Scly	-0.08539	0.22197756	0.404165
171447	Adgrl2	-0.08544	0.0420526	0.117674
24806	Tac1	-0.08545	1.97E-08	2.53E-07
685088	She	-0.08548	0.05230647	0.139579
287637	Samd14	-0.08549	7.57E-04	0.004058
366848	Kank3	-0.08557	0.28356609	0.477373
25302	Chrna7	-0.08558	0.00153999	0.007526
296470	Pdpf	-0.0856	4.79E-04	0.002703
288525	Dhrsx	-0.08566	0.09313663	0.21711
316205	Lrfn2	-0.08569	0.3608577	0.557745
315073	Jrk	-0.08572	0.16170109	0.3241
83708	Mybph	-0.08573	0.03765071	0.10778
366333	Faxc	-0.08574	0.26022969	0.449571
684259	Rusc2	-0.08577	1.11E-05	9.04E-05
290228	Ipo4	-0.08586	2.78E-04	0.001673
313045	Trim62	-0.08587	0.01921328	0.063362
307907	RGD1304884	-0.08588	1.51E-13	3.53E-12
290925	Coprs	-0.08591	0.09950771	0.227752
171061	Mrpl17	-0.08599	6.60E-05	4.57E-04
362975	Cdpl1	-0.08599	0.42529175	0.620475
309139	Tpcn2	-0.08606	0.08287979	0.19998
309170	Fam89b	-0.0861	8.09E-05	5.48E-04
65036	Bche	-0.08612	0.4046503	0.601699
300443	Plppr2	-0.08613	0.00680928	0.026894
301240	Mrpl2	-0.0862	0.17334046	0.340583
289094	Hmcn1	-0.08625	0.22406993	0.40704
300748	Stoml1	-0.08626	0.0010082	0.005213
690961	Cog2	-0.0863	0.04531626	0.12517
361623	Trim66	-0.08635	0.4386616	0.632375
58842	Preb	-0.08636	6.39E-04	0.003491
360520	Tbcd9b	-0.08643	1.39E-08	1.85E-07
296161	Ubox5	-0.08644	0.07151871	0.178633
56782	Srgn	-0.0865	0.12543166	0.270721
192213	Rasgrf1	-0.08654	0.19401571	0.367921
64457	Ndr4	-0.08655	5.93E-60	7.14E-58
361396	Ranbp10	-0.08657	0.00809869	0.031084
291325	St8sia6	-0.08657	0.67608498	0.81867
365985	LOC365985	-0.08659	7.20E-04	0.003881
100188937	Cox7c	-0.08659	2.74E-04	0.001654
25282	Cox6a1	-0.08663	9.39E-12	1.83E-10
288545	RGD1305455	-0.08667	4.14E-04	0.002382
364855	Pou4f3	-0.08668	0.04901699	0.133114
170673	Palm	-0.08677	3.05E-06	2.77E-05
293684	Scyl1	-0.08681	8.83E-04	0.004643
102551408	LOC102551408	-0.08686	0.64117354	0.795152
24407	Grik5	-0.08687	0.02460566	0.077075
304971	Tomm401	-0.08689	0.0042035	0.017878
25558	Stxbp1	-0.0869	3.35E-28	1.79E-26
103691871	LOC103691871	-0.08694	0.70227887	0.837187

102555469	LOC102555469	-0.08695	0.4100795	0.606599
681944	Mpnd	-0.08707	0.02362657	0.074746
312936	Sox17	-0.08715	0.13499112	0.285181
360575	Ankrd13b	-0.08715	0.0105425	0.038731
84468	Chst3	-0.08722	0.06848735	0.172783
688292	Card14	-0.08725	0.57004467	0.739443
60355	Nsf	-0.08729	3.07E-13	6.93E-12
308763	Gdpgp1	-0.08736	0.29288715	0.488573
309112	Cracr2b	-0.08737	0.46729102	0.658203
293719	Ubxn1	-0.08741	1.84E-04	0.001152
294324	Agpat3	-0.08744	6.18E-07	6.36E-06
306622	Erich1	-0.08745	0.23006756	0.414888
24577	Myc	-0.08745	0.22078253	0.402798
171109	Dusp5	-0.08745	0.20351815	0.38
103691267	LOC103691267	-0.08752	0.00549492	0.022424
292886	Tbc1d17	-0.08756	0.02661444	0.082005
65169	Scamp3	-0.08756	3.40E-04	0.002006
29639	Fxyd2	-0.0876	2.07E-09	3.06E-08
266976	Rims4	-0.08763	0.21608056	0.397225
309105	B4galnt4	-0.08763	0.07312899	0.181796
305349	Wdr19	-0.08766	0.10149867	0.231308
364845	Pcdhgb8	-0.08778	0.15180565	0.309147
65179	Ppp5c	-0.08779	2.22E-04	0.001366
100362315	LOC100362315	-0.08779	0.27723726	0.469833
64665	Flot1	-0.0878	7.72E-08	9.18E-07
64862	Map11c3b	-0.08781	6.83E-21	2.55E-19
305880	Lrp10	-0.08782	3.39E-05	2.51E-04
360843	Etnk2	-0.08782	0.60621216	0.76856
360569	Mrm3	-0.08785	0.27113754	0.462666
366478	Pigv	-0.0879	0.23175248	0.417176
300799	Dapk2	-0.08798	0.33089928	0.527186
64107	Npffr1	-0.08798	0.52003538	0.704666
291661	Tmco6	-0.088	0.21193261	0.391414
116691	Cyth1	-0.08803	0.03391597	0.099404
292683	Sympk	-0.08804	5.72E-05	4.02E-04
363138	Npr12	-0.08805	0.0793084	0.193149
362873	Plxnc1	-0.08809	3.64E-04	0.002129
306349	Tmem591	-0.08812	6.13E-06	5.24E-05
289716	Ccdc96	-0.08813	0.48492205	0.673081
685691	Eid2	-0.08819	0.04786968	0.130501
305457	Letm1	-0.0882	0.00429211	0.018193
308453	Coq8b	-0.08822	0.06834751	0.172545
500540	Slfn11	-0.08822	0.62616349	0.783785
363133	Pcbp4	-0.08823	6.37E-11	1.12E-09
501181	Efhd1	-0.08823	0.19225243	0.365816
83506	Camkk2	-0.08823	0.25869225	0.447972
680624	LOC680624	-0.08824	0.88541106	0.947766
300664	Abcg4	-0.08824	0.00320944	0.014251
245977	Adgrf5	-0.08828	0.01365841	0.04787
791259	Car14	-0.08836	0.44078297	0.633946
316916	Clptm11	-0.08837	1.23E-04	8.05E-04
360753	Pnpla6	-0.08839	0.00204077	0.009609
499125	Sdhaf1	-0.08841	0.04079258	0.114857
100137086	Jmjd7	-0.08845	0.60487373	0.767988
367160	Cpne4	-0.08848	3.81E-05	2.78E-04
295691	Frzb	-0.08852	0.3612519	0.557675

25073	Scarb1	-0.08854	0.01679844	0.056755
114636	Zyx	-0.08868	0.00154502	0.007539
100910536	Elf2	-0.0887	0.33622464	0.532817
686432	Ly6l	-0.08873	0.64764393	0.800362
312634	Mtmr14	-0.08876	0.03433519	0.100247
305830	Fbxo34	-0.08882	0.01873114	0.062171
500087	Fmc1	-0.08882	0.17725711	0.345675
681820	Erich5	-0.08883	0.73285431	0.855326
682102	LOC682102	-0.08894	0.62471329	0.782587
83633	Gabbr2	-0.08896	1.66E-09	2.49E-08
298700	Eif3g	-0.08896	8.62E-04	0.004546
313262	Pappal	-0.08901	0.26215628	0.451834
29457	Map6	-0.08902	3.69E-08	4.56E-07
500153	Ccser1	-0.08907	0.48054945	0.669255
305581	Pex13	-0.08909	0.11041117	0.246083
298381	Echdc2	-0.0891	0.60352274	0.766835
300993	Hyal3	-0.08912	0.14823497	0.303955
304318	Iqce	-0.08913	0.06811327	0.17209
305475	Osbp2	-0.08914	0.02705211	0.083098
362440	Ndufa9	-0.08915	1.15E-04	7.53E-04
361286	Msrb2	-0.08915	0.07884239	0.192334
362087	Ubac1	-0.0892	0.00217938	0.010186
316507	Shd	-0.08921	0.07874431	0.192169
316273	Mcm3	-0.08923	0.43847541	0.632203
314648	Ncln	-0.08929	0.00111073	0.005656
314639	Zfr2	-0.08931	0.05359062	0.142427
361694	Pitpnml	-0.08936	0.00223771	0.0104
498709	Cks2	-0.08942	0.67095542	0.814478
292787	Lin37	-0.08944	0.13834322	0.290362
501403	Cbx4	-0.08945	0.10945834	0.244446
290652	Fkbp8	-0.08951	2.96E-10	4.88E-09
313783	Olfm2	-0.08953	0.1354632	0.285703
679907	Pam16	-0.08956	0.05936295	0.154787
103694097	Pgbd1	-0.08957	0.54581358	0.726721
499171	Klf13	-0.08959	0.34983479	0.546608
361495	Usp29	-0.08967	0.1900657	0.36296
498662	Tdrp	-0.0897	0.00800941	0.030816
29443	Ahcy	-0.08972	0.00611491	0.024523
171572	Tt1	-0.08978	6.63E-15	1.74E-13
108349535	LOC108349535	-0.08979	0.90415285	0.958134
303698	Pgs1	-0.08982	3.51E-04	0.002063
300036	Tsta3	-0.08985	0.05006879	0.135065
100911825	LOC100911825	-0.08987	0.60354134	0.766808
301701	Ndc80	-0.08996	0.53049441	0.712903
688272	Rnf157	-0.09	1.06E-14	2.74E-13
303812	Vwa5b2	-0.09003	0.00121382	0.006109
100912141	Tro	-0.09009	0.01267144	0.045057
304667	Rtbdn	-0.0901	0.44788954	0.639866
25728	Apoe	-0.09013	8.51E-118	#####
300989	Hemk1	-0.09014	0.41400875	0.609854
299857	Shmt2	-0.09019	0.00770443	0.029799
171041	Klc1	-0.09025	1.82E-57	2.07E-55
304542	Coq5	-0.09026	0.03002977	0.090179
287645	Snf8	-0.09036	0.00986542	0.036668
117092	Serpinb7	-0.09042	0.86153136	0.932345
288909	Nanos3	-0.09042	0.86153136	0.932345

408246	C1rl	-0.09042	0.64445009	0.797917
291793	Abhd3	-0.09051	0.01730316	0.058274
140581	Patj	-0.09052	1.16E-05	9.45E-05
363076	Tipin	-0.09053	0.42436314	0.619642
288743	Sgsm1	-0.09057	5.21E-04	0.002909
293649	Lrp5	-0.09062	0.10334145	0.234386
246310	Arfgap1	-0.09063	0.01423791	0.049581
316136	Gpr108	-0.09065	0.01282528	0.045511
305628	Ccdc18	-0.09066	0.63422623	0.789828
29422	Chrne	-0.09068	0.12288557	0.267103
360467	Tvp23a	-0.09072	0.07098494	0.177602
287635	Mrpl27	-0.09073	0.0620787	0.160289
29201	Ctf1	-0.09073	0.4462542	0.638728
308451	Itpkc	-0.09082	0.24089184	0.428485
364879	Isoc1	-0.09083	0.01180587	0.042463
684811	Arhgef101	-0.09084	1.95E-04	0.001212
361219	Fbxw17	-0.09085	0.1463635	0.301448
689625	Slc25a45	-0.09086	0.1493064	0.305363
103690156	LOC103690156	-0.09088	0.01978673	0.064939
100360015	Car10	-0.09092	7.94E-04	0.004233
314670	RGD1564409	-0.09094	0.76111677	0.873695
311021	Nmi	-0.09095	0.30765754	0.502215
367743	Praf2	-0.09097	1.73E-06	1.65E-05
116457	Mapk8ipl	-0.09102	1.06E-22	4.36E-21
287545	Sarm1	-0.09103	4.14E-04	0.002381
103690005	LOC103690005	-0.09104	6.33E-04	0.003462
501002	Tmem266	-0.09109	0.59939244	0.762758
362837	Ndufs7	-0.0911	0.00242136	0.01116
287273	Nhp2	-0.09112	0.1903902	0.363288
246767	Cyp4x1	-0.09113	0.09122845	0.213866
304785	Slc45a3	-0.09117	0.48348933	0.672072
114562	Cdc37	-0.0912	2.35E-06	2.18E-05
100360664	Rrp36	-0.09122	0.07065562	0.176894
161475	PsmD9	-0.09123	0.01142564	0.041353
680036	MsrB3	-0.09126	0.15224122	0.309901
297337	Rnf181	-0.09127	6.55E-04	0.003568
103690082	LOC103690082	-0.09128	5.81E-05	4.08E-04
304479	Mlxip	-0.09135	0.05786523	0.151797
312275	Ephb6	-0.09135	0.00743467	0.028879
360878	Klhdc9	-0.09136	0.67492355	0.817523
290877	Tmem255b	-0.09139	0.18934681	0.362132
315707	Csk	-0.09143	1.52E-05	1.20E-04
689046	Ccdc84	-0.09159	0.32824851	0.523883
294251	Ncr3	-0.09161	0.84620172	0.923019
287556	Rhbd13	-0.09162	0.12577575	0.271157
94340	Acs15	-0.09163	0.01277634	0.045354
503000	Ctnnbip1	-0.09164	0.01018814	0.037596
25326	Jak3	-0.09166	0.24394523	0.43218
100360867	Ypel1	-0.09167	0.1744451	0.342012
114597	Suclg1	-0.09167	2.05E-05	1.58E-04
361437	DbnDd1	-0.09173	0.1306149	0.27875
366001	Arrdc1	-0.09174	0.00705998	0.027706
362944	Ppp1r16a	-0.09178	0.07443957	0.184141
287199	Nudcd2	-0.09182	0.20485536	0.381861
366466	Maneal	-0.09185	0.00197589	0.009359
58934	Pdcd2	-0.09188	0.13836305	0.290372

361128	Nr2c2ap	-0.09192	0.02531896	0.078842
64304	Acads	-0.09192	0.02515114	0.078422
309376	Zfyve27	-0.09196	2.57E-06	2.38E-05
312488	Atp6v1b1	-0.09199	0.87967617	0.944175
84355	Atox1	-0.092	0.00969329	0.036099
362959	Tmem184b	-0.09202	6.75E-06	5.71E-05
301254	Aars2	-0.09208	0.11972407	0.261845
64667	Sgta	-0.09214	7.31E-05	5.01E-04
682812	Dcaf12	-0.09214	0.0225043	0.071767
100361126	RGD2320734	-0.09217	0.2478032	0.436578
314622	Cbarp	-0.09218	1.42E-04	9.12E-04
29571	Scn10a	-0.09219	4.13E-22	1.64E-20
679154	Gareml	-0.09219	0.32662394	0.522253
116560	Kcnj9	-0.09223	0.44640165	0.638891
296988	Mkrn1	-0.09232	3.61E-05	2.65E-04
56769	Ndufaf3	-0.09233	0.08406637	0.202178
291960	Hsf4	-0.09237	0.02036423	0.066467
64391	Dapk3	-0.09237	0.0137914	0.048238
295956	CommD9	-0.09242	0.03619918	0.104393
311827	Adamts12	-0.09246	0.41875956	0.614475
100910811	Tmem249	-0.09246	0.7599	0.873351
307644	Kifc3	-0.09249	0.11008049	0.245461
301008	P4htm	-0.09251	0.00176281	0.008478
292661	Ptgir	-0.09255	0.05515484	0.145933
300719	Cib2	-0.09258	3.94E-05	2.87E-04
102554302	LOC102554302	-0.09259	0.33196774	0.528181
303565	G6pc3	-0.09269	4.10E-04	0.002364
25648	Slc7a1	-0.09273	6.43E-04	0.003509
501052	Tusc2	-0.09278	3.21E-06	2.91E-05
306750	Fbxl21	-0.09281	0.52918701	0.71195
266975	Sars	-0.09282	3.43E-08	4.27E-07
681708	Tmem41a	-0.09293	0.00932262	0.034971
246272	Cant1	-0.09295	0.01760821	0.059103
301249	Mrps18a	-0.09296	0.0105313	0.038697
303277	Pigs	-0.09298	0.00249662	0.011452
311617	Fitm2	-0.09301	0.01229223	0.043947
54133	Pdlim1	-0.09302	0.00690021	0.027185
301117	Clpp	-0.09303	0.05450737	0.144501
315463	Timm29	-0.09305	2.40E-04	0.00147
100360692	Pbld2	-0.0931	0.59527104	0.759034
114505	Klf4	-0.09315	0.20151889	0.377266
300111	Samm50	-0.09316	0.00191205	0.009101
83527	Dbn1	-0.09319	2.19E-05	1.68E-04
292878	Emc10	-0.0932	3.90E-05	2.84E-04
192249	Ehd3	-0.09333	3.52E-15	9.45E-14
64832	Cplx1	-0.09337	4.30E-37	3.13E-35
100360417	Rusc1	-0.09345	1.51E-08	1.98E-07
302915	Pmm2	-0.09351	0.00187328	0.008937
103693563	LOC103693563	-0.09357	0.04042449	0.114192
117089	Bex3	-0.09359	2.67E-04	0.001618
296551	Mrpl41	-0.09363	0.00751898	0.029165
313085	Osgin2	-0.09369	0.17241615	0.339257
316794	Brcc3	-0.0937	0.04361807	0.121377
691857	Pygo1	-0.09374	0.49133491	0.678766
499076	Ppp1r12c	-0.09375	1.06E-04	6.98E-04
287462	Camta2	-0.09384	9.81E-07	9.75E-06

116745	Kcnh6	-0.09394	0.04174621	0.116954
363153	Arpp21	-0.09398	0.02800949	0.085433
25502	Oaz1	-0.09399	9.80E-12	1.90E-10
310537	RGD1560010	-0.094	0.31761113	0.512489
306490	Mtmr7	-0.09401	3.43E-05	2.53E-04
65199	Kcnip3	-0.09402	2.57E-09	3.75E-08
365972	Bhmt2	-0.09408	0.77577268	0.883014
25510	Pcp4	-0.09409	2.63E-16	7.59E-15
500685	Plekhd1	-0.09411	8.96E-06	7.42E-05
24159	Acly	-0.09413	2.39E-16	6.93E-15
317578	Sash3	-0.09417	0.49031119	0.677696
310641	Trim46	-0.09417	0.01808099	0.060381
361831	Ube2d1	-0.09422	0.00421249	0.017912
29678	Sart1	-0.0943	0.00662891	0.026318
83535	Kcnj11	-0.09433	0.2168018	0.398052
192645	Wbp2	-0.09437	2.07E-21	7.95E-20
311336	Nusap1	-0.09441	0.55419559	0.733982
56780	Acpp	-0.09447	1.12E-04	7.34E-04
25121	Pcsk2	-0.0945	4.48E-04	0.002544
641315	Iffo2	-0.09452	0.49428821	0.681068
360958	Ablim2	-0.09457	0.0071591	0.028026
290279	Eeflakmt1	-0.09457	0.13255706	0.281789
303689	Ube2o	-0.09457	7.90E-12	1.55E-10
317431	Ribc1	-0.0946	0.48928186	0.676642
450225	Krt10	-0.0946	0.48928186	0.676642
116498	F2r13	-0.0946	0.75714952	0.871083
365546	Tspear	-0.0946	0.66188516	0.80681
85327	Lin7a	-0.0946	0.413279	0.609156
103691294	LOC103691294	-0.09466	0.82128394	0.90991
312502	Rab11fip5	-0.09468	3.30E-07	3.56E-06
305506	Eif6	-0.0947	0.00390268	0.016782
361069	Dmtn	-0.09477	2.64E-10	4.38E-09
79115	Evl	-0.09478	8.73E-05	5.87E-04
498433	Psme4	-0.09478	1.31E-06	1.27E-05
192248	Cdh13	-0.09478	2.46E-04	0.001498
361722	Bsc12	-0.09486	7.83E-06	6.56E-05
29445	Cox4i1	-0.09489	4.71E-13	1.04E-11
289083	Tsen15	-0.09489	0.04646719	0.127719
25576	Ywhah	-0.09489	7.34E-61	8.96E-59
362667	Thap3	-0.0949	0.23032033	0.415266
500911	Serh12	-0.09493	0.04471389	0.123902
685989	LOC685989	-0.09496	0.78799467	0.890063
308443	B9d2	-0.09498	0.22003319	0.402124
103693389	LOC103693389	-0.09504	0.48824686	0.675922
56778	Ly6c	-0.09506	0.71738732	0.845513
305478	Rnf215	-0.09509	0.03457487	0.100824
295270	Sf3b4	-0.09512	0.033512	0.098417
288044	Tm4sf19	-0.09515	0.72024712	0.846892
54237	Cdk1	-0.09515	0.61252643	0.773425
362672	Lrrc47	-0.09521	0.02557684	0.079438
679119	Bmp8b	-0.09523	0.93457312	0.978394
308441	Exosc5	-0.09531	0.14541468	0.300208
361796	Abhd16a	-0.09539	4.13E-04	0.002377
295430	Ndst3	-0.09542	0.11624657	0.256151
25545	Selenow	-0.09543	2.64E-11	4.91E-10
103694037	LOC103694037	-0.09553	0.74076446	0.859711

450224	Omg	-0.09564	0.01923599	0.063415
100912566	LOC100912566	-0.09567	8.47E-05	5.72E-04
266805	Has3	-0.0957	0.48613803	0.674179
308458	Sptbn4	-0.0957	0.00218643	0.010203
309613	Zbtb12	-0.09571	0.53383846	0.715781
362436	Gpr162	-0.09575	0.03977025	0.112779
652956	Mpp1	-0.09579	0.00107872	0.005517
25736	Kcnb1	-0.0958	0.00376275	0.016305
100360645	LOC100360645	-0.0958	1.17E-32	7.27E-31
684871	LOC684871	-0.09586	0.35462306	0.551465
291648	Pcdhb11	-0.09587	0.38272929	0.579648
498546	Serp2	-0.09603	0.03728681	0.106947
64445	St3gal3	-0.09637	0.06870738	0.173201
316209	Med20	-0.09637	0.02941545	0.088811
286894	Parm1	-0.09638	2.10E-07	2.33E-06
303569	Rundc3a	-0.09642	6.13E-10	9.69E-09
292268	Rmnd1	-0.09644	0.02524957	0.078665
305166	Gpat3	-0.09652	0.24241371	0.430468
293484	Eif3c	-0.09652	1.79E-09	2.67E-08
361013	Ube2e2	-0.09654	0.0224921	0.071764
58839	Nrbf2	-0.09654	0.04728657	0.129411
102550903	Ufsp1	-0.09655	0.02086646	0.067747
116782	Pcdhgc3	-0.09656	1.71E-05	1.34E-04
500572	Otud3	-0.09664	0.2925871	0.488329
25339	Npr3	-0.09674	0.00312573	0.013925
362851	Cd320	-0.09678	0.05071771	0.136314
308405	Dmpk	-0.09681	0.00837246	0.031967
300074	Fam227a	-0.09684	0.45627213	0.647519
501145	Satb2	-0.09684	0.71781743	0.845706
690038	Bag2	-0.09701	0.25269782	0.441202
362518	Tmem246	-0.09703	0.0019963	0.009439
103690067	LOC103690067	-0.09705	0.06193227	0.160019
311254	Pdhx	-0.09708	0.03108763	0.092742
361224	Card19	-0.0971	0.01359868	0.04774
298944	Gpr22	-0.09723	0.08761313	0.207691
500485	Cer1	-0.09725	0.80545247	0.90049
60377	Lin7b	-0.09727	0.10312742	0.23404
316226	Klc4	-0.09727	0.03969551	0.112601
295213	S100a13	-0.09731	0.03601281	0.103982
29246	Stmn3	-0.09732	8.01E-22	3.14E-20
290811	Tti2	-0.09735	0.17577364	0.343768
613226	Slc6a17	-0.09736	2.04E-07	2.26E-06
494196	Ly49s6	-0.09736	0.75645599	0.870601
64194	Insig1	-0.09738	1.81E-08	2.34E-07
83579	Gnb5	-0.09742	0.00141679	0.007007
691093	Tpgs1	-0.09747	0.00861038	0.032692
24628	Pdgfb	-0.09747	0.17879113	0.347563
29619	Btg2	-0.09748	0.07415843	0.183684
24255	Cftr	-0.09751	0.64849873	0.801054
296587	Dnlz	-0.09756	0.05668517	0.149215
114214	Dffa	-0.09759	2.16E-06	2.02E-05
685322	Uqcr10	-0.09765	0.00991157	0.036804
689025	Mrps28	-0.09766	0.45433333	0.645489
83616	Trim3	-0.09773	4.31E-04	0.002465
689711	Rflna	-0.09777	0.48191495	0.670813
64201	Slc25a11	-0.0978	0.00157061	0.007656

24644	Pgk1	-0.09785	2.11E-12	4.36E-11
313633	Ephb2	-0.09789	0.37231406	0.568668
288691	Ksr2	-0.0979	0.08136876	0.197309
302975	Syngn3	-0.09793	3.14E-08	3.93E-07
363081	Igdcc4	-0.09793	0.00882968	0.033365
116548	Pcsk5	-0.09795	0.13111819	0.279479
260327	Fndc5	-0.09797	0.02409025	0.07596
60349	Nr5a2	-0.098	0.65609986	0.802893
29743	Slc25a1	-0.0981	3.13E-05	2.33E-04
93667	Olfm1	-0.09817	2.20E-13	5.04E-12
361604	Syt12	-0.09817	5.53E-10	8.81E-09
684516	Kcnc4	-0.09822	3.13E-05	2.33E-04
64345	Hif3a	-0.09824	0.68400429	0.824328
25274	Tst	-0.09825	0.03868962	0.11019
108348056	NEWGENE_1306714	-0.09828	0.26004471	0.449578
292569	Zfp444	-0.09832	0.04988998	0.134735
682105	Reep2	-0.09836	2.56E-10	4.26E-09
25237	Acvrl1	-0.09837	0.11591485	0.255657
288564	Pop7	-0.09837	0.14507156	0.299793
54279	Cntn3	-0.09838	0.1617632	0.32419
288109	Sidtl	-0.09839	0.5847202	0.750809
63848	Fxyd7	-0.09841	2.80E-14	7.05E-13
303685	Mrpl38	-0.09844	0.02420459	0.076245
308178	Vps37c	-0.09857	0.03273374	0.096564
29216	Lrp2	-0.09859	0.46574464	0.656607
117018	Kcnh2	-0.0986	3.77E-07	4.01E-06
114518	Slc7a10	-0.0988	0.7247641	0.849633
309525	Slc16a12	-0.09887	0.09616084	0.222255
297593	Usp5	-0.09891	4.58E-15	1.22E-13
297846	Cntnap5c	-0.09897	0.15501186	0.314031
502374	Polr21	-0.099	0.04418037	0.122637
287982	Abcf3	-0.09903	2.32E-05	1.77E-04
103692785	LOC103692785	-0.09905	0.24622833	0.434688
25066	PVR	-0.09912	0.26601405	0.456994
498523	RGD1565170	-0.09914	0.89813992	0.955537
29333	Cd46	-0.09916	0.35720927	0.55422
100362102	Lsm14b	-0.09917	6.70E-04	0.003636
691770	Ankrd63	-0.09919	0.75137529	0.867217
445271	Jph4	-0.09921	5.53E-07	5.74E-06
297518	Arpc4	-0.09937	4.48E-09	6.36E-08
360617	Mien1	-0.09938	9.54E-04	0.004972
63834	Capn10	-0.0994	0.05157981	0.138143
364878	3-Mar	-0.09944	0.47823145	0.667638
305685	Comtd1	-0.09949	0.02390044	0.075449
287876	Actg1	-0.0995	1.35E-70	1.84E-68
304474	Pitpnm2	-0.09951	2.24E-12	4.60E-11
287120	Tb13	-0.09953	0.0159394	0.05451
361527	Pld3	-0.09964	1.02E-07	1.19E-06
79246	Htr3a	-0.09984	4.54E-06	3.99E-05
293586	Zfp511	-0.09989	0.16326694	0.326517
362301	Tmub1	-0.09996	0.0479321	0.130633
292732	Numb1	-0.1	9.32E-06	7.69E-05
301606	Espn1	-0.10006	0.70451297	0.837701
29214	Tubb5	-0.10007	1.46E-54	1.55E-52
301432	Ppil3	-0.10007	0.10240745	0.23285
108348912	LOC108348912	-0.1001	0.3829097	0.579829

299647	Zfp414	-0.10018	0.06874866	0.173259
293704	Trpt1	-0.10032	0.15142302	0.308565
89791	Ncdn	-0.10032	2.59E-30	1.48E-28
315746	Cln6	-0.10033	0.00604508	0.024268
314613	Rnf126	-0.1004	0.01405826	0.049046
316626	Hes6	-0.1004	0.09555624	0.221288
680874	Rnf223	-0.10041	0.27961967	0.473155
499781	Cfap157	-0.10045	0.25471792	0.443347
100910754	LOC100910754	-0.10052	0.63584771	0.790813
59114	Slc9a3r1	-0.10053	1.22E-04	7.97E-04
311866	Lrsam1	-0.10053	8.52E-07	8.54E-06
291234	Mki67	-0.10053	0.12062819	0.263429
315405	Dcun1d5	-0.10056	0.02018299	0.066012
171124	Mms19	-0.10057	1.00E-04	6.63E-04
24816	Tbxa2r	-0.10059	0.4878058	0.675655
289745	Mtfp1	-0.10068	0.50629465	0.693098
300744	Ub17	-0.10072	4.24E-05	3.07E-04
364069	Hlx	-0.10074	0.38713618	0.584371
117540	Plscr1	-0.10076	0.44706462	0.639455
306868	Bloc1s5	-0.10091	0.00959176	0.035819
290370	Dnajc15	-0.10091	0.02678736	0.082378
497857	Dexi	-0.10094	0.00416535	0.017771
362826	Atcay	-0.10101	6.40E-07	6.57E-06
246216	Prpf19	-0.10104	1.43E-09	2.16E-08
100911871	LOC100911871	-0.10104	0.56963959	0.73922
499688	Gstm6	-0.1011	0.47389701	0.664216
100910806	Trim15	-0.10114	0.33929043	0.535892
306344	Arrdc2	-0.10114	0.15238349	0.309992
291852	Katnb1	-0.10121	0.00310342	0.013839
29270	Spr	-0.10124	0.06239759	0.160829
29533	Pxmp2	-0.10129	0.39683004	0.594013
29884	Bok	-0.1013	0.01388853	0.048533
103689977	LOC103689977	-0.10131	0.39620119	0.593492
316539	Epha4	-0.10139	0.35759782	0.554687
298917	Iah1	-0.10139	0.07925363	0.19309
399489	E2f1	-0.10142	0.08263056	0.199556
287155	Stub1	-0.10144	7.97E-07	8.03E-06
102546889	LOC102546889	-0.10148	0.46650816	0.657343
297799	Mrpl15	-0.1015	0.01490938	0.051571
300078	Dna14	-0.10153	0.09481823	0.21998
360827	Ulk1	-0.10153	0.00111594	0.005677
432367	Npc111	-0.10164	0.74834107	0.86513
353305	Tbx3	-0.10174	0.05639235	0.148567
83525	Ogfr	-0.10179	0.01041171	0.038332
361215	Auh	-0.10193	3.46E-06	3.11E-05
310486	Rarres1	-0.10194	3.54E-05	2.60E-04
84422	Gfra3	-0.10197	5.09E-04	0.002849
140635	Flt3	-0.10198	0.03579901	0.103506
689730	LOC689730	-0.102	0.92177937	0.970388
361627	Zfp143	-0.10206	0.14713699	0.302616
299154	Churc1	-0.10212	0.14053772	0.293577
688811	Slc25a28	-0.10215	0.03355005	0.098483
84030	Chn1	-0.10216	3.07E-06	2.80E-05
108350662	LOC108350662	-0.1022	0.18903114	0.361819
315973	Acad11	-0.10221	0.14354763	0.297969
296658	Ndufa8	-0.10225	7.41E-06	6.23E-05

296957	Zc3hc1	-0.10235	0.09848983	0.226074
361974	Gatb	-0.10241	0.05914474	0.154409
293655	Ndufv1	-0.10244	1.15E-06	1.13E-05
24832	Thy1	-0.10247	2.18E-73	3.12E-71
306759	Spock1	-0.10248	3.59E-04	0.002104
25152	Map1a	-0.10251	4.26E-87	7.18E-85
100912292	Enho	-0.10255	0.04413811	0.122538
687758	Pip5k11	-0.10261	0.13957316	0.292203
360977	Tbrg4	-0.10268	0.01214378	0.043506
361972	Tmem154	-0.10273	0.13933179	0.29189
298848	Mapre3	-0.10287	1.73E-10	2.93E-09
500689	Ttc9	-0.10288	7.15E-09	9.81E-08
691393	Oxa11	-0.10308	1.55E-04	9.89E-04
60565	Syt6	-0.10309	0.10383861	0.235093
316444	Mdh1b	-0.1031	0.62154395	0.779488
497967	Zfp830	-0.10316	0.25624664	0.445235
290626	Haus8	-0.10318	0.27668766	0.469194
54311	Timm17a	-0.10327	0.0017252	0.008318
29740	Eci1	-0.10332	0.08146296	0.197513
298072	Trmo	-0.10335	0.57517354	0.743261
687861	Mmab	-0.1034	0.06988831	0.175412
303180	RGD1304587	-0.10342	0.14120486	0.294454
78968	Srebf1	-0.10345	7.27E-05	4.99E-04
64534	Pim3	-0.10347	0.00555992	0.022631
103690013	LOC103690013	-0.10349	0.14395597	0.298361
108350059	LOC108350059	-0.10354	0.09238199	0.215932
298805	Slc4a1ap	-0.10357	0.00598444	0.024076
24659	Pmch	-0.10362	0.90700183	0.960245
304947	Pbx1	-0.10369	0.10744686	0.240999
293631	Brsk2	-0.10379	0.00394739	0.016947
117277	Epn1	-0.10381	3.06E-06	2.79E-05
291990	Cog8	-0.10387	0.00732214	0.028547
245962	Cd48	-0.10389	2.17E-08	2.77E-07
727679	Pdpx	-0.10396	0.01147219	0.041459
310661	Vps72	-0.10405	0.02654332	0.081812
81675	Gyg1	-0.10408	1.48E-09	2.22E-08
316131	Fem1a	-0.10414	0.00710382	0.027849
108352018	LOC108352018	-0.10422	0.85117177	0.92653
25081	Apoa1	-0.10422	0.85117177	0.92653
310587	Hrnrr	-0.10422	0.79074772	0.891956
310772	Dennd2d	-0.10422	0.79074772	0.891956
313183	Actl7b	-0.10422	0.85117177	0.92653
499732	Lrriq3	-0.10422	0.70747664	0.839181
64305	Sult1b1	-0.10422	0.79074772	0.891956
291967	Zdhhc1	-0.10422	0.03984659	0.112928
500528	Ccdc17	-0.10422	0.30411015	0.501106
310640	Fam189b	-0.10433	6.05E-27	3.05E-25
500801	Cyp4f17	-0.10441	0.1034162	0.234388
313047	Yars	-0.10445	9.81E-06	8.08E-05
497986	Hoxb6	-0.10445	0.12657958	0.272458
293345	Taf10	-0.10447	0.00264961	0.012058
497959	Proca1	-0.1045	0.31165921	0.506706
293599	Olr300	-0.10455	0.6771118	0.819496
29417	Men1	-0.10468	3.27E-04	0.00194
29553	Kcnk3	-0.1047	0.27023175	0.461741
687295	Timm50	-0.10473	0.00480323	0.020035

25659	Khk	-0.10474	0.01958038	0.06435
288717	Srrd	-0.10477	0.25331411	0.441792
100361053	Hbq1b	-0.10478	0.557302	0.736355
498309	Vash2	-0.10485	0.51198412	0.697777
291685	Srp19	-0.10494	0.00774937	0.029949
64561	Phka1	-0.10509	0.0105902	0.038876
497876	Mrpl28	-0.10516	0.00696012	0.027393
288920	Trir	-0.10523	3.26E-04	0.001935
100909474	LOC100909474	-0.1053	0.76781796	0.877842
303059	Ccnj1	-0.10537	0.61764495	0.776644
362272	Tp53rk	-0.10537	0.37036038	0.566729
50522	Ubc	-0.10541	2.61E-47	2.39E-45
29738	Kcnab2	-0.10541	1.03E-39	7.85E-38
304361	Mepce	-0.10543	0.0668887	0.169491
116468	Rfc2	-0.10544	0.20049597	0.376424
84573	Otof	-0.10554	0.0816799	0.197888
100911238	LOC100911238	-0.10561	2.09E-04	0.001294
298490	Ppcs	-0.10566	0.06553032	0.166871
362838	Mum1	-0.10566	0.01499041	0.051823
689995	Ppplr3d	-0.10579	0.00828623	0.031689
309420	Fam122a	-0.10581	0.12451442	0.269475
102547078	LOC102547078	-0.10583	0.67240818	0.815566
117278	Ebp	-0.10588	0.03039376	0.091028
60371	Birc2	-0.10591	0.00708037	0.027763
497914	Med9	-0.10596	0.01738612	0.058512
79434	Rab11b	-0.10596	1.13E-11	2.18E-10
688721	Lrfn4	-0.10598	0.02004726	0.065624
307171	Apbb1ip	-0.10601	0.25611818	0.445052
368084	Bud23	-0.10603	0.07414051	0.183711
29688	Minpp1	-0.10604	0.00757562	0.029367
25434	Sparc11	-0.1061	1.44E-14	3.71E-13
681287	Map7d1	-0.10616	1.23E-09	1.88E-08
303333	Slc46a1	-0.10617	0.0114086	0.0413
57233	Isl2	-0.10619	1.29E-05	1.04E-04
314596	Rasa13	-0.1062	0.08535384	0.204268
289197	Mgst3	-0.10623	3.62E-07	3.87E-06
287940	Hic2	-0.10624	0.41071229	0.607347
59294	Pold1	-0.10624	0.28378924	0.477664
362765	Angell1	-0.10637	9.29E-04	0.004854
313173	Cntfr	-0.10644	4.19E-04	0.002402
300999	Mst1r	-0.10646	0.19347564	0.367189
24534	Ldhd	-0.10648	3.94E-16	1.12E-14
102547897	LOC102547897	-0.10651	0.19817616	0.373135
170845	Ndel1	-0.10656	1.01E-06	9.99E-06
311299	Aven	-0.10658	0.02422199	0.076249
299269	Ifi2712b	-0.1066	5.77E-05	4.05E-04
299312	LOC299312	-0.10663	0.3165262	0.511041
306284	Gprin2	-0.10664	0.31160153	0.506655
100364350	Nwd1	-0.10674	0.17084667	0.336865
100910438	LOC100910438	-0.10676	0.20607349	0.383493
100366121	Smim24	-0.10678	0.5661832	0.736491
367328	Washc1	-0.10686	0.00812067	0.031143
171047	Dnph1	-0.10693	0.51018632	0.696473
29481	Rgs9	-0.10693	0.56846149	0.738093
300886	Mthfs	-0.10693	0.15120814	0.308193
29722	Apbb1	-0.10703	7.20E-13	1.57E-11

24211	Atp1a1	-0.10705	6.86E-126	#####
500959	LOC500959	-0.10708	0.00451384	0.018998
362331	Ccdc136	-0.10712	4.86E-07	5.07E-06
170641	Adgrl3	-0.10712	7.15E-04	0.003862
29707	Gabra5	-0.10713	0.21749916	0.398871
499194	Nmb	-0.10714	0.00228304	0.0106
303786	Aifm3	-0.10717	0.01606164	0.05483
497902	Uqcrq	-0.10727	6.61E-05	4.58E-04
306288	Mmrn2	-0.10737	0.05554373	0.146717
314131	Insm2	-0.1074	0.0261506	0.080811
171519	Calcb	-0.10741	6.64E-07	6.78E-06
301007	Wdr6	-0.10746	5.75E-07	5.96E-06
360580	Dusp14	-0.10747	0.14004501	0.292965
83514	Tsc22d3	-0.10752	2.00E-11	3.76E-10
291655	Pcdhb4	-0.10756	0.52694227	0.710637
309855	Fig4	-0.10756	4.92E-04	0.002765
85268	Hrh3	-0.10757	0.17466784	0.342238
304289	Daglb	-0.10768	0.01463605	0.050764
297821	Ndufaf6	-0.10768	0.16887869	0.333848
246146	Hspbp1	-0.1077	3.46E-05	2.55E-04
291660	Ndufa2	-0.10774	0.00663289	0.026328
362827	Pias4	-0.10781	0.01820672	0.060726
299609	Abca7	-0.10781	7.32E-11	1.28E-09
25741	Pfkl	-0.10788	8.91E-05	5.98E-04
83807	Ybx3	-0.1079	1.80E-05	1.41E-04
309179	Ppp2r5b	-0.10796	5.69E-13	1.25E-11
103690221	Nyap2	-0.10798	0.10029534	0.229142
306526	Mak16	-0.10802	0.05227047	0.139503
102552805	LOC102552805	-0.10803	0.27632727	0.468791
292758	Mrps12	-0.10804	0.05476943	0.145074
302963	Mmp25	-0.10805	0.09788295	0.225034
304979	Igsf8	-0.1081	0.00459176	0.019283
65047	Slit1	-0.10819	4.78E-06	4.18E-05
25729	Ccnel	-0.10823	0.22063277	0.402679
680477	Haus3	-0.10832	0.10960597	0.244603
155140	Il23a	-0.10834	0.7018939	0.83699
25605	Hcrtr2	-0.10834	0.78665578	0.889289
292912	Rasip1	-0.10838	0.06207234	0.160294
84011	Atp9a	-0.1084	7.51E-22	2.95E-20
102548600	LOC102548600	-0.10844	0.35555968	0.552651
360776	Lamtor4	-0.10847	4.84E-04	0.002724
294303	Lhfp15	-0.10857	0.01274951	0.045293
85239	Mlycd	-0.10861	0.030158	0.090507
307479	Jakmip2	-0.10862	0.00327674	0.014479
296083	Vps18	-0.10865	0.01353264	0.047543
59085	As1	-0.10892	0.03709802	0.106534
300438	Ldlr	-0.10899	1.40E-07	1.60E-06
29526	Pla2g1b	-0.10901	0.69746302	0.834004
363029	Swsap1	-0.10902	0.11073584	0.24672
294846	Zfp622	-0.10903	0.02513245	0.07839
81781	Snrpn	-0.10905	0.01017821	0.037581
292051	Cmip	-0.10906	1.38E-07	1.57E-06
309200	Ints5	-0.10917	0.03608628	0.104178
56813	Pthlr	-0.10919	0.04213792	0.117878
306960	Abt1	-0.1092	0.08566105	0.204694
317396	Ubqln2	-0.1092	8.00E-08	9.48E-07

691842	Maz	-0.10922	0.00116463	0.005894
309593	Gn11	-0.10934	3.84E-04	0.002231
289786	Nacad	-0.10934	2.78E-22	1.12E-20
307842	Vac14	-0.10938	1.32E-04	8.54E-04
102552540	LOC102552540	-0.10938	0.10280843	0.233483
58950	Fkbp1b	-0.10941	2.40E-16	6.93E-15
685656	Kti12	-0.10942	0.15001851	0.306425
94193	Madd	-0.10946	1.37E-06	1.33E-05
100362120	Catsperz	-0.10952	0.52329901	0.707502
246281	Asmt	-0.10952	0.52329901	0.707502
688600	Tcf23	-0.10952	0.32886873	0.524565
29704	Pacsin1	-0.10958	4.79E-05	3.43E-04
678880	Rtl8b	-0.1096	0.00514071	0.021237
103691319	CIH9orf66	-0.10961	0.93672899	0.979897
307350	Afg3l2	-0.10962	1.30E-04	8.41E-04
259272	Msi1	-0.10964	0.38917152	0.586189
362834	Mbd3	-0.10966	9.04E-04	0.004739
292889	Med25	-0.10967	3.88E-05	2.83E-04
305493	Urgcp	-0.10969	0.00222801	0.010365
25546	Shox2	-0.10978	0.02213657	0.070927
291773	Taf4b	-0.10978	0.08288928	0.199953
303879	Slc51a	-0.10986	0.09728791	0.224045
64508	Adcy3	-0.10996	0.00305136	0.013648
114501	Lmx1b	-0.11001	0.4867671	0.674904
500587	Fbxo44	-0.11002	2.53E-06	2.34E-05
499185	Mrps11	-0.11003	0.02906929	0.087961
304376	Nyap1	-0.11007	8.53E-04	0.004504
288272	Mis18a	-0.11009	0.31026751	0.505435
360955	Man2b2	-0.11012	2.56E-04	0.001553
83510	Lypla2	-0.11013	6.03E-05	4.22E-04
116695	Kcnd1	-0.11019	4.16E-12	8.40E-11
60663	Insrr	-0.11024	0.04284997	0.119572
296571	Phpt1	-0.11029	0.02003373	0.065625
680262	Hyls1	-0.11032	0.26715522	0.458417
684785	Plekha2	-0.11052	0.02870951	0.08708
310025	Ptcd2	-0.11058	0.11613016	0.255924
311203	Pex16	-0.11059	0.02865824	0.087049
500084	Trim24	-0.11066	0.05887345	0.153848
29167	Dctn1	-0.11068	8.16E-37	5.91E-35
306782	Ror2	-0.11071	0.25227264	0.440662
363471	Pnpla4	-0.11076	0.41151763	0.607217
100912380	LOC100912380	-0.11078	3.74E-22	1.49E-20
24782	Slc9a1	-0.11078	3.11E-05	2.32E-04
288176	Cmss1	-0.11084	0.14734167	0.302873
103693239	Ar14c	-0.11084	0.00305576	0.013658
308393	Pnma8b	-0.11101	0.01035895	0.03816
63886	Abcb9	-0.11114	6.40E-04	0.003495
309790	Msl13l2	-0.11123	0.1835607	0.353945
292988	Mkrn3	-0.11126	0.63462722	0.790121
688843	Nap115	-0.11126	4.38E-15	1.17E-13
308579	Cpt1c	-0.11135	0.00239457	0.011056
103693776	LOC103693776	-0.11146	5.25E-06	4.57E-05
314617	Wdr18	-0.11153	0.0085933	0.032641
299620	Sf3a2	-0.11155	0.0085694	0.032582
300142	Trabd	-0.11156	0.01772067	0.059407
498465	LOC498465	-0.11157	0.76680586	0.877528

361992	Them4	-0.11157	0.07672291	0.188395
362298	Actr3b	-0.11158	0.01972725	0.064766
301334	Arhgef4	-0.11173	7.96E-15	2.07E-13
310732	Slc22a15	-0.11176	0.16201901	0.3246
65210	Cyp2j4	-0.11191	0.36971707	0.566018
499114	Fbxo27	-0.11195	0.11385184	0.252188
171441	Yif1a	-0.11196	0.02425597	0.076344
114031	Fstl3	-0.11205	0.33028118	0.526553
50671	Fasn	-0.11207	2.88E-24	1.28E-22
497934	Borcs6	-0.11209	0.00807661	0.031012
311324	Disp2	-0.11214	1.29E-10	2.21E-09
171379	Smarca4	-0.11216	1.01E-08	1.35E-07
315939	Pxylp1	-0.1122	0.05888328	0.153853
304575	Plcxdl	-0.11223	0.78339551	0.887659
102553587	Peg10	-0.11224	0.42167605	0.617233
363518	Naa10	-0.11224	0.07237866	0.180355
289733	Pla2g3	-0.11228	0.00548267	0.022383
305505	Ccm2	-0.1123	0.00205417	0.009662
500059	Prprt4	-0.11232	0.38328594	0.580169
192180	Nip7	-0.11232	0.21757751	0.398937
29714	Ptprn2	-0.11239	3.31E-04	0.001957
83613	Nefl	-0.1124	0	0
288912	Mri1	-0.11258	0.0238599	0.075371
171160	Hopx	-0.11274	2.58E-05	1.95E-04
289562	Noa1	-0.11278	0.0353673	0.102553
102549235	LOC102549235	-0.11278	0.78233087	0.886874
108350942	LOC108350942	-0.11278	0.78233087	0.886874
24182	Agtr2	-0.11278	0.78233087	0.886874
292129	Tdrd1	-0.11278	0.51702305	0.701982
29446	Ghrh	-0.11278	0.84511002	0.922674
315820	Myo5c	-0.11278	0.58056071	0.747787
362042	Gimd1	-0.11278	0.84511002	0.922674
362047	RGD1309170	-0.11278	0.84511002	0.922674
290789	Cldn23	-0.11278	0.63226875	0.788628
116489	Kcnk4	-0.11285	0.01079808	0.039427
361550	Gramd1a	-0.11304	1.86E-05	1.45E-04
299511	Rdh16	-0.11306	0.45450158	0.645632
361131	Pbx4	-0.11319	0.34791825	0.544775
294422	Smpd13a	-0.11323	0.07279476	0.181155
298500	Smad2	-0.11336	4.66E-07	4.88E-06
289633	Nwd2	-0.11338	0.00199379	0.009434
361358	Bean1	-0.11341	3.48E-10	5.66E-09
362284	Phactr3	-0.11345	0.07250793	0.18063
366515	Wrap73	-0.11352	0.08748853	0.207499
305963	Pinx1	-0.11366	0.20171518	0.377596
289193	Fmo13	-0.11367	0.89884766	0.955917
681410	LOC681410	-0.11378	4.62E-06	4.05E-05
306340	Ano8	-0.11386	1.83E-04	0.001146
306243	Cacna2d3	-0.11394	1.15E-05	9.34E-05
300689	Rexo2	-0.11397	3.22E-05	2.40E-04
313156	Lingo2	-0.11403	0.18753214	0.359636
64444	Isl1	-0.11405	0.01238941	0.044211
192253	Myo16	-0.11412	0.3677644	0.563935
24245	Camk2b	-0.11415	2.86E-06	2.62E-05
102549836	LOC102549836	-0.11417	0.3070213	0.502922
29189	Fdx1	-0.11417	0.3070213	0.502922

64517	Thop1	-0.11417	0.00520442	0.021463
360754	Zfp358	-0.11423	0.02919451	0.088269
308571	Lrrc4b	-0.11424	1.87E-04	0.001167
500925	Ccdc184	-0.11424	0.04006134	0.113436
171039	Rph3a	-0.11425	9.05E-32	5.49E-30
117287	Park7	-0.11427	1.64E-08	2.14E-07
116486	Sec1412	-0.11438	0.00178562	0.008572
294236	Gtf2h4	-0.11443	0.09043958	0.212382
313717	Clstn1	-0.11456	3.54E-29	1.94E-27
296635	Plpp7	-0.1147	0.14760957	0.302966
304521	Rnft2	-0.11472	1.59E-05	1.25E-04
24333	Eno1	-0.11479	2.04E-31	1.23E-29
79247	Htr5b	-0.11483	0.36945515	0.565662
293701	Esrra	-0.11491	0.00448524	0.01889
170588	Acot8	-0.11493	0.08301364	0.200177
308097	Tagap	-0.11496	0.47690009	0.666219
25058	Hk1	-0.11501	9.14E-18	2.94E-16
680465	Trappc6a	-0.11503	0.20092771	0.376529
29575	Tcea2	-0.11509	5.55E-05	3.91E-04
311615	Tox2	-0.11514	0.0028699	0.01294
502334	Ceacam18	-0.11514	0.69293097	0.83041
65275	Gpr27	-0.11514	0.42966671	0.624275
29145	Ctxn1	-0.11525	1.28E-04	8.30E-04
50592	Grial	-0.11527	0.38917855	0.586153
313892	Togaram2	-0.11536	0.51216327	0.697847
84393	Kif4a	-0.11536	0.51216327	0.697847
84388	I118bp	-0.11542	0.12259796	0.266691
287115	Pgp	-0.11542	2.86E-05	2.15E-04
83610	Apba2	-0.11554	2.72E-05	2.05E-04
29466	Aes	-0.11558	1.94E-25	9.14E-24
116561	Cltb	-0.11573	2.28E-12	4.67E-11
25413	Cpt2	-0.11575	0.0122737	0.043889
299800	Tmem19	-0.11576	0.02441028	0.076639
300446	Zfp653	-0.11589	0.14179949	0.29537
29452	Epas1	-0.11593	1.65E-07	1.86E-06
680440	Nkpd1	-0.11595	0.62742114	0.784792
60352	Mapk12	-0.11596	1.05E-04	6.92E-04
287828	Jpt1	-0.11597	3.35E-07	3.60E-06
114028	Ctnnd2	-0.11597	1.14E-04	7.50E-04
116728	5-Sep	-0.116	5.02E-17	1.54E-15
314405	Otub2	-0.11603	0.18857933	0.361136
303730	Cbx2	-0.11604	0.24090055	0.42846
362053	Clca4	-0.11611	0.77595596	0.883117
252928	Timm13	-0.11617	0.00203253	0.009582
100910270	LOC100910270	-0.11618	0.42295746	0.618396
432361	Nrg2	-0.1162	0.08584242	0.204999
24338	Ephb1	-0.11624	0.00947523	0.035439
170843	Khdrbs2	-0.11625	0.51051302	0.69652
313244	Frmpd1	-0.11661	1.33E-09	2.02E-08
362768	Ttc7b	-0.11665	1.08E-05	8.85E-05
171097	Adap1	-0.11669	4.86E-10	7.79E-09
100363376	Cmc2	-0.11672	0.05927813	0.154651
116671	Cdk5r1	-0.11675	0.07176279	0.179101
79435	Ube2d4	-0.11676	0.74068242	0.860665
359728	Rab40c	-0.11686	0.02128554	0.068826
54239	Chrn2	-0.11689	2.82E-05	2.12E-04

289778	RGD1309870	-0.11694	0.71976749	0.846746
290658	Cers1	-0.11699	0.00858207	0.032614
306351	Gdf1	-0.11699	0.00858207	0.032614
682787	Sumo4	-0.117	0.04992989	0.134805
100188944	Pnkd	-0.11708	8.40E-13	1.82E-11
685244	Iqsec2	-0.11713	5.04E-04	0.002826
291434	Rpl17	-0.11718	1.55E-11	2.94E-10
155151	Corola	-0.11719	3.98E-04	0.002298
117016	Mark1	-0.1173	5.05E-06	4.40E-05
362783	Eml1	-0.11735	4.34E-09	6.17E-08
312504	Fbxo41	-0.11737	0.037375	0.107119
317232	Magee1	-0.11741	2.60E-07	2.84E-06
306808	Ippk	-0.11742	0.13559785	0.285797
291103	Uqcrfs1	-0.11745	7.71E-07	7.80E-06
25398	Cacnala	-0.11752	1.77E-07	1.98E-06
102548151	LOC102548151	-0.1176	0.68977104	0.828238
366631	RGD1560556	-0.1176	0.62492924	0.782703
499603	RGD1565989	-0.1176	0.77774968	0.88397
682968	Isx	-0.1176	0.77774968	0.88397
315119	Mfng	-0.1176	0.39712918	0.594321
298873	Slc7a15	-0.11767	0.1042686	0.235731
64528	Golga2	-0.11769	2.82E-09	4.10E-08
102554102	Trim30c	-0.11777	0.82540063	0.91203
361672	Kndc1	-0.11792	0.01199748	0.043071
499870	Rad51	-0.11794	0.4388671	0.632528
361232	Pak1ip1	-0.11795	0.18994166	0.362905
103693202	LOC103693202	-0.11798	0.63078085	0.787856
500929	Tuba1b	-0.11802	1.74E-154	#####
140728	Cacng7	-0.11804	1.14E-07	1.33E-06
25665	Scn5a	-0.11808	0.38122032	0.578099
291983	Psmb10	-0.11812	0.02418088	0.076183
83801	Ptms	-0.11819	1.11E-24	5.09E-23
315220	Mapk8ip2	-0.1182	2.40E-22	9.76E-21
116664	Atp6v1f	-0.11821	3.03E-07	3.28E-06
299195	Coq6	-0.11823	0.02195169	0.070465
25364	Asic2	-0.11825	0.02821217	0.085872
81752	Ptger2	-0.11832	0.35889846	0.55589
309459	Neur11	-0.11835	1.03E-04	6.84E-04
56827	Cacnali	-0.11841	0.22786725	0.412209
290771	Pdgfr1	-0.11844	0.32643244	0.52221
103693794	LOC103693794	-0.11847	0.64030934	0.794287
100359592	Palm3	-0.11851	2.61E-04	0.001585
295310	Zfp697	-0.11851	0.27974577	0.473158
24588	Nefm	-0.11853	0	0
83791	Fdps	-0.11858	1.75E-18	5.83E-17
499558	11-Mar	-0.11858	0.11452066	0.253315
315695	Odf311	-0.11861	0.65398079	0.802776
293494	Ino80e	-0.11867	0.00223404	0.010388
29213	Tubb4a	-0.11873	4.46E-41	3.53E-39
29463	Ptp4a1	-0.11873	7.50E-04	0.004025
404280	Mid1ip1	-0.11875	3.18E-11	5.84E-10
361528	Ttc9b	-0.11876	0.00365153	0.015899
301529	Dnpep	-0.11885	2.75E-06	2.52E-05
690795	H2afj	-0.11894	0.1829964	0.35325
303794	Dgcr6	-0.11895	1.39E-04	8.97E-04
500709	Itpk1	-0.11908	3.45E-06	3.11E-05

140591	Ppfia3	-0.11909	4.08E-06	3.62E-05
497987	Hoxb5	-0.1191	0.20398078	0.38064
360636	Slc25a39	-0.11911	1.91E-07	2.13E-06
171088	Inpp5j	-0.11914	0.00125021	0.006267
500566	Stpgl	-0.11914	0.18808875	0.360377
289007	Thsd7b	-0.11922	0.05133848	0.137633
302967	Paqr4	-0.11922	8.50E-11	1.48E-09
445541	Repin1	-0.11926	0.00798724	0.030756
100361465	Pate2	-0.1193	0.72767055	0.851232
314328	Lrrc74a	-0.1193	0.72767055	0.851232
689035	Cyb5r1	-0.1193	0.62239002	0.780138
29657	Arntl	-0.11934	0.06375238	0.163634
25495	Nog	-0.11938	0.16950751	0.334813
501624	Bex4	-0.11938	0.20336832	0.379795
362810	Coq10a	-0.11939	0.03175663	0.094353
286920	Asic3	-0.11947	4.44E-10	7.14E-09
108348136	LOC108348136	-0.1195	0.01234382	0.04409
65180	Kcnd2	-0.11955	0.46177397	0.652604
300222	Mcrs1	-0.11963	0.00231305	0.010723
117252	Dnah10	-0.11965	0.01619849	0.055208
313878	Galnt14	-0.11965	3.09E-04	0.001841
246264	Zfp382	-0.1197	0.04265699	0.119121
309373	Ubt1	-0.11971	0.01363563	0.047825
117265	Pex6	-0.1198	0.01187533	0.042665
311616	Gdap111	-0.11983	1.20E-05	9.69E-05
500793	Btbd2	-0.11998	1.55E-09	2.33E-08
81613	Ceacam1	-0.12006	0.1349974	0.285163
25630	Pkm	-0.12007	2.65E-63	3.35E-61
300066	Ggal	-0.1201	3.27E-06	2.95E-05
501582	Gspt2	-0.12013	0.07724139	0.189277
156435	Tmprss2	-0.12014	0.56532008	0.735971
29465	Trpv2	-0.12014	3.55E-05	2.60E-04
102548695	LOC102548695	-0.12014	0.05677349	0.149406
293628	Chid1	-0.12015	0.02227071	0.071273
362169	Alkbh3	-0.12016	3.86E-05	2.81E-04
361368	Largel	-0.12029	2.59E-13	5.89E-12
114630	Atp5mc3	-0.1203	9.93E-11	1.72E-09
288499	Slc29a4	-0.12033	0.01649012	0.055941
294286	Kifc1	-0.12037	0.46649291	0.65737
498909	Coq9	-0.12042	0.00195588	0.009273
291081	Tubb2b	-0.12043	1.34E-29	7.47E-28
282819	Ppif	-0.12043	0.08794638	0.208274
304298	Foxk1	-0.12048	0.19571289	0.370144
102553890	LOC102553890	-0.12052	0.90216217	0.957784
500305	Dcp1b	-0.12058	0.12696279	0.273036
310256	Lrrc31	-0.1206	0.42383923	0.6194
315059	Trappc9	-0.12065	5.87E-04	0.00323
311848	Sh3glb2	-0.12067	4.69E-14	1.16E-12
25638	Pde4a	-0.12069	0.31191309	0.507032
100361647	Galnt6	-0.12079	0.10828626	0.242368
297437	Txnrd3	-0.12079	0.00540909	0.022164
310721	Tent5c	-0.12086	0.30705596	0.50287
303790	Smpd4	-0.12087	0.00351051	0.015373
501923	Smim20	-0.1209	0.05617259	0.148173
311849	Crat	-0.12095	2.20E-09	3.24E-08
307916	Jph3	-0.12098	5.08E-09	7.16E-08

81743	Pde2a	-0.12102	1.53E-05	1.21E-04
24518	Jund	-0.12104	1.98E-08	2.55E-07
25590	Chrna4	-0.12104	0.61980195	0.777969
293665	Zdhhc24	-0.12118	0.14390154	0.298313
171053	Pank4	-0.12123	0.00638867	0.025529
100912294	LOC100912294	-0.12129	0.40026371	0.597369
314637	Slc39a3	-0.1213	0.07520195	0.185665
363197	Tmem63b	-0.12131	1.33E-11	2.54E-10
689616	Apcdd1	-0.12135	0.00321872	0.014279
313595	RGD1563072	-0.12141	0.02969172	0.089446
363082	Pdcd7	-0.12156	0.00563346	0.022876
361696	Rps6kb2	-0.12157	0.02163883	0.069696
114860	Gale	-0.12157	0.00537944	0.02208
83681	Cish	-0.12163	0.02320126	0.073608
290640	Map1s	-0.12165	2.41E-04	0.001471
366826	Diras1	-0.12165	1.17E-07	1.36E-06
300447	Ecsit	-0.12175	0.00131732	0.006569
64569	Lst1	-0.12181	0.69280051	0.830462
683460	Proser2	-0.12182	0.29661502	0.493193
360738	Tango2	-0.12194	4.13E-07	4.37E-06
299608	Tmem259	-0.12199	5.52E-06	4.77E-05
292739	RGD1307554	-0.122	0.05238241	0.139743
29205	Syngn1	-0.12202	4.42E-04	0.002519
58979	Gng7	-0.12205	0.01609859	0.054936
29147	Jag2	-0.12213	2.21E-06	2.07E-05
296134	Mrps5	-0.12217	0.00937055	0.035117
298081	Trmt10b	-0.12231	0.1922942	0.365822
364224	Acyp2	-0.12236	8.00E-04	0.004256
690367	Btbd6	-0.12239	4.41E-06	3.89E-05
54702	Egln3	-0.12245	0.06185353	0.159902
689074	Camsap3	-0.1225	0.00213754	0.01002
81653	Dbn1	-0.1225	4.33E-11	7.78E-10
303631	Arsg	-0.12251	0.15865607	0.319611
362090	Fam69b	-0.12253	1.04E-05	8.50E-05
103692164	NEWGENE_1595506	-0.12254	0.00195995	0.00929
171119	Dscam	-0.1227	0.06986135	0.175367
100363510	LOC100363510	-0.12284	0.83829657	0.919213
24715	Ren	-0.12284	0.72374016	0.848955
303070	Nipal4	-0.12284	0.83829657	0.919213
303167	Trim58	-0.12284	0.83829657	0.919213
364899	Cfap53	-0.12284	0.56380064	0.734897
689856	L3mbt14	-0.12284	0.83829657	0.919213
29545	Uchl1	-0.12288	4.63E-143	#####
688785	Trim8	-0.12289	5.67E-05	3.99E-04
24183	Ak1	-0.12309	2.46E-06	2.28E-05
309637	Uhrf1bp1	-0.12311	0.00386035	0.016641
25462	Hspe1	-0.12323	6.25E-04	0.003424
287477	Emc6	-0.12326	0.00772561	0.029869
25103	Chrn4	-0.12341	0.11927057	0.261003
310519	Slitrk3	-0.12342	2.26E-06	2.11E-05
140608	Atp5me	-0.12345	0.00121653	0.006121
116660	Ptprn	-0.12353	5.08E-19	1.74E-17
500110	Zfp467	-0.12358	0.02554769	0.07936
362285	Col9a3	-0.12361	0.00107798	0.005514
60668	Amph	-0.1237	3.39E-05	2.51E-04
308704	Lins1	-0.12372	0.1475364	0.302881

54315	Ucp2	-0.12375	4.75E-16	1.35E-14
296600	Slc2a6	-0.12376	1.96E-04	0.001217
100361931	Tmem221	-0.12383	0.75960903	0.873122
292671	Mil11	-0.12385	0.68531183	0.825121
65153	Ncs1	-0.12385	4.52E-04	0.002566
287670	Psm3	-0.12388	3.02E-10	4.96E-09
25417	Dpysl4	-0.12389	5.98E-08	7.20E-07
364427	Lrrc63	-0.12394	0.35923985	0.556147
100912478	LOC100912478	-0.12405	0.02252912	0.071834
83512	Fads2	-0.12406	2.71E-09	3.95E-08
362196	Chac1	-0.12406	0.06489191	0.16571
688502	Prmt8	-0.12412	0.11305056	0.250909
81804	Stxbp2	-0.12422	0.24563384	0.433961
24664	Pomc	-0.12422	0.56157155	0.733196
292907	Ruvbl2	-0.12434	0.00534534	0.021987
304020	Filip11	-0.12436	0.08963287	0.211113
500225	Ino80b	-0.12439	0.07544911	0.186106
684558	Upf1	-0.1244	3.47E-05	2.55E-04
292680	Ccdc61	-0.12442	0.18312069	0.353418
361671	Pwmp2b	-0.12446	0.01063075	0.03898
117241	Pop5	-0.12448	0.13109032	0.279482
360552	Pelp1	-0.1245	3.42E-04	0.002012
296368	Ube2c	-0.12454	0.45870058	0.649996
309159	Klc2	-0.12467	1.45E-29	8.07E-28
500286	Ssuh2	-0.12469	0.61447274	0.77465
500608	Arhgef33	-0.12469	0.4762551	0.665806
287452	RGD1308134	-0.12471	0.04233533	0.118361
360872	Rcsd1	-0.12481	0.02196323	0.070478
308543	Plekhf1	-0.12481	0.02542104	0.079083
24786	Sod1	-0.12485	7.48E-17	2.26E-15
117019	Eif2b4	-0.12485	0.00222044	0.010337
102550932	Tigd4	-0.12486	0.49493002	0.681607
499871	Zfyve19	-0.1249	0.0850731	0.203878
170901	Efna3	-0.12507	0.30311602	0.50042
289185	Cregl	-0.12509	0.01221611	0.043732
307482	Fchsd1	-0.1251	0.00311111	0.013863
64076	Slc26a1	-0.12514	0.28835162	0.483165
498830	MGC116121	-0.12522	0.08466201	0.203199
366431	Tceanc2	-0.12523	0.06697735	0.169648
690914	Muc15	-0.12531	0.68816657	0.827198
361137	Tmem192	-0.12533	0.00469935	0.019679
308988	Sez612	-0.12536	1.86E-12	3.85E-11
298377	Coa7	-0.12537	0.17135889	0.33777
362535	Lurap11	-0.1254	0.03917142	0.11133
299714	Ano4	-0.12545	2.98E-06	2.72E-05
304396	Lrwd1	-0.12552	0.06665783	0.169131
64636	Ntsr2	-0.12556	0.18636359	0.358117
687694	Elp4	-0.12558	0.12925819	0.276536
300091	RGD1306782	-0.12563	0.55931026	0.735183
24157	Acaala	-0.12573	0.00551411	0.022483
288626	Mmp17	-0.12577	0.0583579	0.152815
302938	Mgrn1	-0.12589	5.36E-08	6.51E-07
362881	RGD1306474	-0.12598	0.75286614	0.868148
83817	Ache	-0.12599	1.10E-16	3.27E-15
353498	Cyp11b3	-0.12604	0.90263997	0.958024
309722	Rhobtb1	-0.12613	0.1611031	0.323378

100911510	LOC100911510	-0.12618	0.583849	0.750196
360896	Esrrg	-0.12622	0.00208844	0.009814
291135	Acot13	-0.12629	0.09516638	0.220519
60629	Unc5a	-0.12639	0.11798702	0.259027
362914	Wdyhvl	-0.1264	0.10872369	0.24309
59324	Kcnk1	-0.12646	7.78E-06	6.52E-05
114101	Cds2	-0.12654	2.52E-06	2.33E-05
408230	Wfdc15b	-0.12659	0.71964515	0.846733
60393	Sult1d1	-0.12659	0.71964515	0.846733
300238	Figl12	-0.12664	0.40955082	0.606005
311865	Ptges2	-0.12674	0.00960079	0.035831
288271	Mrap	-0.12694	0.01307744	0.046233
362245	Map11c3a	-0.12695	4.13E-18	1.35E-16
29431	Pak1	-0.12711	3.49E-10	5.68E-09
361500	Nat14	-0.12716	0.17651985	0.344837
295052	Ccnal	-0.12721	0.38507693	0.58177
308493	Clip3	-0.12725	1.39E-20	5.08E-19
294568	Wasf1	-0.12726	1.54E-06	1.48E-05
292995	Tm2d3	-0.12728	0.05683087	0.149536
689984	Gpr137	-0.12731	1.52E-07	1.73E-06
171460	Hspbap1	-0.12737	0.21876155	0.400376
103689951	LOC103689951	-0.12744	0.06389755	0.163918
311204	Slc35c1	-0.12747	0.00304567	0.013632
309259	Nsmce3	-0.12751	0.03567207	0.103233
117062	Hmgal	-0.12752	9.78E-07	9.73E-06
290999	Higd2a	-0.12753	1.04E-04	6.89E-04
502694	Dok5	-0.12758	0.12283276	0.267049
689637	Pdcd21	-0.1276	0.14120722	0.294426
309901	Phyhip1	-0.1277	1.74E-21	6.70E-20
308578	Ap2a1	-0.12771	3.06E-19	1.06E-17
293114	Tmem126b	-0.12778	0.04580577	0.126302
315670	Elmod1	-0.12782	8.22E-04	0.004357
298296	Pcsk9	-0.12786	0.17198851	0.338695
690315	Derl3	-0.12793	0.3650496	0.561218
315094	Hgh1	-0.12794	0.03914524	0.111288
299617	Abhd17a	-0.12811	1.54E-08	2.03E-07
302421	Gdpd2	-0.12815	0.01539497	0.053
288914	Trmt1	-0.12817	0.00145588	0.007181
679944	Alkbh7	-0.12822	0.04909208	0.133261
683897	LOC683897	-0.12827	0.01825519	0.060867
688990	Trnp1	-0.12831	3.71E-25	1.72E-23
362562	362562	-0.12833	0.2941692	0.490196
301427	Ndufb3	-0.12838	7.84E-05	5.35E-04
94338	Smpd3	-0.1284	1.54E-05	1.21E-04
296741	Fastk	-0.12845	1.50E-06	1.44E-05
257642	LOC257642	-0.12855	0.67614949	0.818644
303924	Upk1b	-0.12855	0.76770752	0.877795
307472	Sh3rf2	-0.12855	0.76770752	0.877795
304301	Mmd2	-0.12862	2.14E-09	3.17E-08
313058	Adgrb2	-0.1287	0.0082051	0.031417
307797	Carmil2	-0.12877	8.59E-08	1.01E-06
494342	B4galt3	-0.12878	0.00818611	0.03135
317630	Bloc1s6	-0.12893	0.01870826	0.062105
100911261	LOC100911261	-0.12896	0.0021139	0.009926
287473	Nek8	-0.12898	0.12005163	0.262471
266777	Nptx1	-0.12901	2.78E-18	9.16E-17

287005	Camk2n1	-0.12903	0.13895677	0.291425
368128	Hpse2	-0.12907	0.43572151	0.629614
103694863	LOC103694863	-0.1291	2.57E-07	2.82E-06
311210	Tspan18	-0.12915	4.09E-06	3.63E-05
679312	Tubb1	-0.12918	0.76658249	0.877378
303749	Ogfod3	-0.12922	0.12383476	0.268645
362186	Kif18a	-0.12922	0.52984605	0.712485
24368	Fh	-0.12927	3.44E-05	2.54E-04
362521	Tmem38b	-0.1295	0.19623395	0.370909
690407	Rab36	-0.12952	0.06900509	0.173813
361976	Rrnad1	-0.12956	0.06421327	0.16444
65045	Ppp1r10	-0.12965	1.39E-04	8.92E-04
25731	Syt3	-0.1297	2.25E-05	1.73E-04
25414	Bcar1	-0.12974	4.20E-05	3.04E-04
304078	Cbr3	-0.12979	0.18796366	0.360246
362650	Fblim1	-0.12983	0.46177942	0.652563
171563	Nav2	-0.12984	4.62E-04	0.002615
294329	Trpm2	-0.12988	0.0021815	0.01019
85249	Pex11a	-0.12989	0.07480443	0.184851
316573	Dner	-0.12991	6.04E-18	1.97E-16
501661	F8a1	-0.13004	0.00506206	0.020944
680122	Sap30	-0.13006	0.30332771	0.500596
304330	Cox19	-0.13016	0.00636898	0.025467
191575	Nme1	-0.13023	3.35E-07	3.60E-06
363465	Pir	-0.13028	0.0030112	0.0135
24678	Pkib	-0.13031	0.01251154	0.044572
103690393	LOC103690393	-0.13039	0.26458798	0.454955
301011	Uqcrc1	-0.13045	1.61E-13	3.76E-12
360488	Flywch1	-0.13048	5.21E-19	1.78E-17
362842	Syde1	-0.13057	0.00737007	0.028704
29711	Bckdhh	-0.13071	0.00545845	0.022332
29754	Atp5mc1	-0.13073	3.32E-07	3.57E-06
299638	Sirt6	-0.13075	0.00143169	0.007068
64828	B4galnt1	-0.13075	0.00379886	0.016439
317196	Klh14	-0.13083	0.39924732	0.596459
59314	Camk2n2	-0.13086	0.10846483	0.242711
300992	Cacna2d2	-0.13087	1.63E-07	1.84E-06
297433	Podx12	-0.13095	1.12E-04	7.38E-04
100911357	LOC100911357	-0.13108	0.21216578	0.391768
296554	Tubb4b	-0.13123	3.39E-73	4.79E-71
293012	Olig3	-0.13124	0.86181876	0.93247
690987	Gys1	-0.13124	2.71E-06	2.49E-05
500826	Galnt4	-0.13126	0.3704663	0.566846
292780	Alkbh6	-0.1314	0.10783799	0.241649
287061	Rogdi	-0.13142	1.70E-08	2.21E-07
303731	Cbx8	-0.13142	0.21807438	0.399502
302941	Ubal1	-0.13146	2.16E-04	0.001332
60444	Kcnt1	-0.13147	7.70E-08	9.16E-07
266668	Grina	-0.13149	3.90E-40	3.01E-38
499073	Brsk1	-0.13152	3.36E-16	9.63E-15
298521	Grik3	-0.13153	0.18695077	0.358919
501628	Tceal3	-0.13153	0.01675513	0.056628
156275	Ggt7	-0.13154	1.78E-12	3.71E-11
171062	Nkg7	-0.13161	0.67247222	0.81554
304653	Dcaf15	-0.13173	0.01630789	0.055442
362452	Borcs5	-0.13173	0.01805671	0.060321

309177	Znhit2	-0.13197	0.01938587	0.063821
360818	Fbxo21	-0.13201	8.75E-06	7.27E-05
499745	Nrarp	-0.13203	0.00103798	0.005343
307396	Pcyox11	-0.13203	1.13E-05	9.20E-05
363469	Sms	-0.13204	1.06E-04	7.01E-04
64677	Srd5a2	-0.13217	0.08596881	0.205224
171373	Slc12a5	-0.13224	0.63563807	0.790681
81780	Cc15	-0.13224	0.63563807	0.790681
293897	Dkk1	-0.13229	0.75324991	0.868223
24984	RT1-DOa	-0.13231	0.64273259	0.796411
501506	Zbtb33	-0.13232	0.36310777	0.559543
288484	Grid2ip	-0.13236	0.09244622	0.216056
293453	Ndufab1	-0.13246	2.88E-06	2.63E-05
680770	Skida1	-0.13248	0.1604175	0.322375
24795	Serpina3n	-0.13253	0.39015518	0.587067
307486	Pcdhb22	-0.13261	0.28898694	0.483889
298546	Zfp593	-0.13262	0.0591039	0.154323
497944	Zfp3	-0.13266	0.2984575	0.495003
367277	LOC367277	-0.13272	0.24352582	0.431598
680102	Mab2112	-0.13272	0.00326487	0.01445
641528	Dtnbp1	-0.13281	0.05161531	0.138141
362083	Ajml	-0.13283	4.39E-04	0.002503
314462	Trmt61a	-0.13311	0.0575512	0.151056
191595	Syt12	-0.13311	0.09681125	0.22319
361385	Ndufb7	-0.13313	1.30E-04	8.39E-04
362145	Slc25a12	-0.13315	6.34E-10	1.00E-08
65152	Pfkm	-0.13356	1.07E-20	3.95E-19
295255	RGD1560510	-0.13363	0.94367411	0.984135
304581	Tmem119	-0.13373	0.46038096	0.651747
305886	Slc22a17	-0.13378	9.99E-21	3.69E-19
287432	Wrap53	-0.13394	0.06473665	0.165469
300783	Hacd3	-0.13395	1.69E-12	3.52E-11
313255	Whrn	-0.13398	4.79E-04	0.002703
89841	Pcyt2	-0.13401	2.34E-05	1.79E-04
100910708	LOC100910708	-0.13403	0.07814494	0.190975
361068	Nudt18	-0.13414	0.02095746	0.067973
170909	Erg	-0.13417	0.16678986	0.330439
298282	Oma1	-0.13419	0.32792931	0.523637
499931	Sla2	-0.13423	0.69465744	0.831798
252860	Zfp394	-0.13433	0.0535382	0.142347
246153	Kcnc2	-0.13444	0.0042519	0.018051
191576	Tecr	-0.13447	2.48E-57	2.79E-55
293996	Pdzd7	-0.13447	0.07686608	0.1886
314642	Fzr1	-0.13448	3.57E-04	0.002095
25041	P2rx6	-0.13461	0.00160438	0.007803
500865	Sybu	-0.13463	1.62E-06	1.55E-05
94204	Ecel	-0.13469	9.89E-12	1.92E-10
362843	Ilvb1	-0.13477	9.00E-05	6.03E-04
100362089	Zfp663	-0.13481	0.32679016	0.522475
102552047	LOC102552047	-0.13481	0.4778868	0.667255
116682	Kynu	-0.13481	0.83055946	0.915182
25503	Ocm2	-0.13481	0.83055946	0.915182
287414	Mfsd61	-0.13481	0.83055946	0.915182
29248	Tnni3	-0.13481	0.83055946	0.915182
29692	Pla2g2a	-0.13481	0.66867421	0.812227
300017	Lypd2	-0.13481	0.83055946	0.915182

315597	Mfrp	-0.13481	0.76218006	0.874494
689415	Mt2A	-0.13481	0.19855134	0.373694
690319	LOC690319	-0.13481	0.63230638	0.788623
688699	Prdm12	-0.13482	1.36E-12	2.86E-11
362681	Pus11	-0.13487	0.00579513	0.023443
25531	Rab3a	-0.13487	1.78E-37	1.31E-35
297971	Smim8	-0.13497	0.05547597	0.146599
79253	Avil	-0.13504	3.32E-52	3.34E-50
353255	Nadsyn1	-0.13508	0.03488676	0.101469
56010	Ywhag	-0.13511	3.77E-127	#####
306338	Abhd8	-0.13514	1.57E-07	1.78E-06
103693430	LOC103693430	-0.13516	0.08015234	0.194781
297389	Dguok	-0.13517	0.02461823	0.077101
54309	Syt5	-0.13522	4.70E-04	0.002656
314140	LOC314140	-0.13527	0.04127174	0.115949
309161	Ccdc85b	-0.1353	4.27E-04	0.002446
294790	Skp2	-0.13541	0.3144424	0.508885
682404	Tmem234	-0.13557	0.07464785	0.18456
293688	Tm7sf2	-0.13559	2.77E-04	0.001668
289402	Ddx59	-0.13564	0.03641787	0.104945
315999	Mon1a	-0.13569	0.00264958	0.012061
298894	Mycn	-0.13572	0.2475585	0.436268
100909857	LOC100909857	-0.13573	0.06905193	0.173885
361515	Pnma8a	-0.1358	0.10735646	0.240967
290631	Babam1	-0.13584	4.47E-05	3.23E-04
287711	Coasy	-0.13594	5.71E-04	0.00315
302669	Car5b	-0.13596	0.07422859	0.183834
102555217	LOC102555217	-0.13597	0.41999023	0.615475
100909793	Smim18	-0.13603	0.06092333	0.157948
308457	Egln2	-0.13618	2.08E-08	2.67E-07
305970	Fbxo16	-0.1362	0.10436677	0.235925
680712	Scx	-0.13623	0.10742304	0.241003
300317	Kctd17	-0.13623	3.41E-06	3.07E-05
361545	Rbm42	-0.13625	5.70E-05	4.00E-04
314013	Trappc12	-0.13635	6.41E-07	6.57E-06
303222	Arhgap44	-0.13645	1.39E-10	2.38E-09
289222	Nit1	-0.13655	1.23E-04	8.05E-04
100911408	LOC100911408	-0.13655	0.3213335	0.516439
362300	Agap3	-0.13658	1.81E-15	5.00E-14
360721	Fam162a	-0.13691	1.58E-07	1.79E-06
65178	Snap91	-0.13693	3.38E-26	1.66E-24
58977	Ppp1r1a	-0.13697	7.95E-06	6.65E-05
360947	Pacrgl	-0.13698	0.23743335	0.424514
29885	Rab3ip	-0.13713	8.05E-04	0.004276
79219	Grid1	-0.13714	0.05683691	0.149532
81637	Ap2a2	-0.1372	9.34E-28	4.91E-26
108351956	LOC108351956	-0.13726	1.51E-08	1.99E-07
288916	Gadd45gip1	-0.13743	8.15E-04	0.00432
363616	Grap	-0.13748	0.39680541	0.59407
295237	Mstol	-0.13749	0.00178978	0.008588
29741	Pik3r2	-0.13752	2.91E-07	3.16E-06
361509	Ube2m	-0.13765	4.76E-13	1.06E-11
294103	Papss2	-0.1377	0.03522726	0.102194
26760	Akr7a3	-0.13772	0.03799251	0.108595
310787	Fndc7	-0.13784	0.20248048	0.378508
293054	Mrpl46	-0.13802	0.02132952	0.068956

85269	Nme3	-0.13804	0.05422864	0.143942
295315	Tbx15	-0.13817	0.25155458	0.43969
307102	Ankrd16	-0.13817	0.22029366	0.402445
684903	Dhx34	-0.13817	0.02433148	0.076518
364948	Asphd2	-0.13829	0.01059295	0.038879
500992	Nxpe1	-0.13836	0.23907396	0.426326
100362241	Plekhg6	-0.13855	0.35725526	0.554246
294336	Pcbp3	-0.13857	9.57E-22	3.73E-20
683470	Gas1	-0.13879	0.09810036	0.22537
294326	Gatd3a	-0.13889	2.13E-11	3.99E-10
362220	Lamp5	-0.13892	3.31E-04	0.001955
84384	Timm10b	-0.13898	0.04964605	0.134305
316091	Pomgnt2	-0.13899	1.94E-04	0.001208
100912599	LOC100912599	-0.13902	0.01310153	0.046306
679739	LOC679739	-0.13902	0.01310153	0.046306
100911847	LOC100911847	-0.13903	0.02524493	0.078663
290308	Dleu7	-0.13913	0.0322203	0.095478
102546394	LOC102546394	-0.13918	0.20413787	0.380784
317170	Slc9a7	-0.13921	0.0186354	0.061907
298504	Mfsd2a	-0.13925	9.21E-04	0.004821
313506	Stil	-0.13956	0.31043862	0.505628
297436	Chchd6	-0.13957	5.59E-04	0.003096
289486	Fras1	-0.13961	0.03567585	0.103212
689986	LOC689986	-0.13962	0.15669443	0.316631
114512	Aatf	-0.13969	0.03981651	0.11286
292017	Hydin	-0.1397	0.12336446	0.267899
364995	Ddx28	-0.13979	0.06125581	0.158659
79112	Pigm	-0.13986	0.0068858	0.02714
308472	Supt5h	-0.13988	3.12E-12	6.35E-11
300444	Rgl3	-0.13991	0.13083042	0.279116
680006	Mad111	-0.14022	0.00235935	0.010917
679949	Ube2ql1	-0.14023	2.54E-05	1.93E-04
362039	Pla2g12a	-0.14028	0.00926403	0.034806
311184	Clqtnf4	-0.14039	0.14732315	0.302868
24423	Gstm1	-0.14049	1.05E-09	1.61E-08
304280	Tmem130	-0.14053	1.53E-22	6.24E-21
24310	Ace	-0.14056	0.0988815	0.2267
140729	Cacng8	-0.14067	0.56289231	0.734316
304944	Uck2	-0.14074	7.30E-05	5.01E-04
58936	Plk3	-0.1408	0.00565216	0.022942
100359498	LOC100359498	-0.14098	0.01106033	0.040253
498332	Coq2	-0.14102	5.34E-05	3.78E-04
314930	Zfpm2	-0.14104	0.30440208	0.50124
314472	Tmem179	-0.14108	1.47E-09	2.22E-08
498736	Tubb2a	-0.14109	8.12E-77	1.21E-74
117552	Ptpn23	-0.14117	1.80E-06	1.72E-05
303671	Fads6	-0.14123	0.00189305	0.009027
500726	Cep170b	-0.14127	4.04E-17	1.25E-15
100362197	LOC100362197	-0.14138	0.04876376	0.13254
361352	Pqlc1	-0.14138	5.38E-13	1.19E-11
498398	Selenom	-0.14142	2.64E-11	4.90E-10
108348240	LOC108348240	-0.1415	0.81888297	0.908942
353231	Spg7	-0.14159	2.94E-06	2.69E-05
300367	Med17	-0.14169	0.00800131	0.030797
293507	1-Sep	-0.1417	0.24548341	0.433735
366489	Sh2d5	-0.1417	0.53473905	0.716736

114117	Gng3	-0.14179	1.08E-40	8.50E-39
83503	Polr2f	-0.14187	0.00149822	0.007354
362613	Zdhhc18	-0.14188	1.83E-06	1.74E-05
361663	Lhpp	-0.14196	3.85E-05	2.81E-04
83823	Gipc1	-0.142	6.70E-09	9.24E-08
361288	Fundc2	-0.14204	2.84E-04	0.001705
310846	Tram111	-0.14207	0.01697011	0.057264
296627	Asb6	-0.14208	0.00427331	0.018138
362945	Lrrc24	-0.1421	0.00336172	0.014807
641603	Slc41a3	-0.14247	0.01125413	0.040826
311329	Dnajc17	-0.14248	0.14631366	0.301378
24503	Ina	-0.14289	1.79E-12	3.73E-11
308440	B3gnt8	-0.14295	0.01756978	0.059026
100270678	Spns2	-0.14299	0.0050849	0.021025
361118	Prxl2a	-0.14309	7.21E-04	0.003884
360656	Cdr21	-0.14311	1.35E-16	3.99E-15
290647	Lsm4	-0.14312	5.00E-05	3.55E-04
102551565	LOC102551565	-0.14316	0.94437719	0.984653
292700	Ceacam16	-0.14329	0.28978648	0.48493
108349002	LOC108349002	-0.14344	0.79821469	0.896344
497912	Btnl10	-0.1435	0.47751373	0.666929
81679	Jup	-0.1436	6.33E-21	2.37E-19
288289	Chod1	-0.14363	0.02869443	0.087048
303907	Wdr5b	-0.14365	0.2260632	0.409723
102551647	LOC102551647	-0.14373	0.45539772	0.646567
65276	Nmur1	-0.14375	0.44488388	0.637725
404781	Iqsec3	-0.14378	5.83E-05	4.09E-04
353118	MAST1	-0.14379	2.59E-22	1.04E-20
50871	Hpcal1	-0.14384	4.95E-10	7.92E-09
50688	Cacnb1	-0.144	1.53E-06	1.47E-05
688737	Gpr171	-0.14415	0.50655124	0.6932
362846	RGD1560314	-0.14415	0.58759048	0.753225
500606	Morn2	-0.14415	0.39116796	0.588219
683514	Ppp1r42	-0.14415	0.70135954	0.836615
287009	Ceacam4	-0.14438	0.60002112	0.76315
288689	Tesc	-0.14442	7.95E-05	5.41E-04
312707	Lrrc23	-0.14445	0.12899761	0.276258
65172	Limk1	-0.14446	4.60E-21	1.74E-19
306348	Rex1bd	-0.1445	0.00243402	0.011208
100911068	LOC100911068	-0.14457	0.09598005	0.222026
246258	Slc45a1	-0.1446	1.45E-08	1.92E-07
313521	Hpd1	-0.14465	0.11680143	0.256987
100049583	Trex1	-0.14467	0.05160692	0.138138
296395	Kcng1	-0.14468	8.77E-04	0.004613
83635	Gmeb2	-0.14469	0.17723084	0.34573
64183	Pde4dip	-0.14483	7.98E-17	2.41E-15
292831	Pop4	-0.14497	0.00136275	0.006761
54289	Rgs1	-0.14506	0.46131677	0.652442
25585	Id3	-0.14512	7.06E-05	4.86E-04
363137	Cyb561d2	-0.14515	0.00481392	0.020075
25187	Htr2c	-0.14524	0.28646418	0.480722
365360	Tmc5	-0.14533	0.29968944	0.496355
25146	Cyp17a1	-0.14538	0.67739949	0.819584
499518	Ccdc125	-0.14541	0.37371051	0.570252
684148	Lsm2	-0.14541	0.02933598	0.088585
103690158	LOC103690158	-0.14543	0.54490109	0.726014

246279	Zfp180	-0.14545	1.12E-20	4.12E-19
308410	Rtn2	-0.14562	1.85E-11	3.48E-10
116557	Foxj1	-0.14563	0.35880731	0.555816
289468	Abraxas1	-0.14563	0.35880731	0.555816
362605	Tmem54	-0.14566	0.0023543	0.010896
140694	Dnm1	-0.14566	1.17E-40	9.12E-39
170634	Tas1r3	-0.14572	0.78934636	0.891167
156726	Runx3	-0.14575	0.13969356	0.292391
24834	Tk1	-0.14588	0.20763153	0.385526
499090	Mypop	-0.14593	6.90E-04	0.003731
499749	Tprn	-0.14607	0.0768512	0.188612
500410	RGD1559441	-0.14609	0.09546263	0.221125
689623	Psmg4	-0.14624	0.06193728	0.16001
408217	Usp11	-0.14636	1.08E-05	8.81E-05
64455	Rasd1	-0.14641	0.18190279	0.351924
361943	Pcdh10	-0.14643	1.69E-04	0.001068
103693768	LOC103693768	-0.14645	0.02796354	0.085306
315926	Pls1	-0.14646	3.35E-08	4.18E-07
361881	Zbed3	-0.14651	0.13424208	0.284261
108348167	LOC108348167	-0.14653	0.29810224	0.494716
89787	Lrp3	-0.14659	1.16E-07	1.35E-06
24587	Nefh	-0.14663	0	0
201097	Hist1h1d	-0.14663	0.73538783	0.857285
304648	Asf1b	-0.14668	0.5842661	0.750479
287983	Alg3	-0.14677	0.00230833	0.010707
362329	Impdh1	-0.14678	2.85E-25	1.33E-23
316213	Frs3	-0.14684	0.00967594	0.036055
295037	Mgst2	-0.14688	0.42026668	0.615549
25523	Prkg2	-0.14696	0.12530762	0.270668
689945	LOC689945	-0.14696	0.48822224	0.675937
100362471	Tmem240	-0.14699	0.30514213	0.502068
364755	Ero1b	-0.14704	2.79E-04	0.001677
292098	Pgbd5	-0.14727	1.13E-06	1.11E-05
316229	Ttbk1	-0.14736	1.21E-04	7.93E-04
360945	Sel113	-0.14739	8.26E-04	0.004374
100911956	LOC100911956	-0.1474	0.04869376	0.132368
500354	LOC500354	-0.14767	0.19891198	0.374077
29566	Ggt5	-0.14769	0.01153358	0.041617
84398	Cd93	-0.14771	0.02571583	0.079778
687536	Foxf1	-0.14772	0.47837014	0.667685
311703	Cables2	-0.14776	2.30E-11	4.30E-10
100359753	Dnaaf3	-0.1478	0.30413935	0.50111
315151	Mrtfa	-0.14785	2.69E-04	0.001631
309453	Fbxl15	-0.14797	0.02874714	0.087152
295090	Vom2r45	-0.14799	0.93804365	0.980841
691431	Slc25a33	-0.14804	0.00108431	0.005542
25303	Abcc2	-0.14809	0.41833666	0.614044
404660	Mrgpre	-0.14835	0.00120199	0.006058
79131	Fabp3	-0.14838	4.38E-04	0.002501
500249	Rab43	-0.14847	0.32723497	0.522791
103690147	LOC103690147	-0.14861	0.29576466	0.492166
300990	RGD1307461	-0.14876	0.00291779	0.013115
313491	Hint2	-0.14878	0.0055371	0.022552
298787	Memo1	-0.14881	6.17E-05	4.30E-04
362782	Cyp46a1	-0.14881	0.16496805	0.329227
102557179	LOC102557179	-0.14883	0.79447924	0.89373

100359972	LOC100359972	-0.14931	0.82166589	0.909857
103692813	LOC103692813	-0.14931	0.82166589	0.909857
103693041	LOC103693041	-0.14931	0.82166589	0.909857
116569	Lct	-0.14931	0.82166589	0.909857
300220	Clql4	-0.14931	0.61424996	0.774574
365763	Actrt3	-0.14931	0.82166589	0.909857
500348	Bcl2l14	-0.14931	0.82166589	0.909857
682416	Dcdc2b	-0.14931	0.82166589	0.909857
102547505	LOC102547505	-0.14931	0.7499026	0.866357
287936	Ccdc116	-0.14931	0.69623394	0.833005
300034	Tigd5	-0.14931	0.29040454	0.485665
311760	Ism1	-0.14931	0.58086465	0.747875
361230	Tmem170b	-0.14931	0.498908	0.685326
499918	Rspo4	-0.14931	0.498908	0.685326
59304	Gdf9	-0.14931	0.65212951	0.803351
687208	Vps37d	-0.14931	0.14407543	0.298446
304571	Galnt9	-0.14938	4.65E-04	0.00263
290628	Ocell1	-0.14939	0.00224364	0.010425
25443	Fgf10	-0.14941	0.34281211	0.53953
114705	Rgs14	-0.1495	0.18345777	0.353818
498726	Rnf182	-0.14962	0.02138603	0.069115
314799	Ccdc59	-0.14962	0.06101745	0.158127
100360754	LOC100360754	-0.14967	0.58710238	0.752852
299602	Cdc34	-0.14985	1.66E-06	1.59E-05
686999	Mphosph6	-0.15006	0.03611433	0.104212
294747	RGD1561161	-0.15016	0.32445531	0.520008
302890	Cpped1	-0.15025	0.01324616	0.046735
24598	Nos1	-0.15033	0.20790575	0.385847
361653	Armc5	-0.15039	4.79E-04	0.002703
315598	Clqtnf5	-0.15048	0.01762039	0.059133
64672	Pln	-0.15051	0.23959781	0.426941
311535	Fam110a	-0.15055	0.24842215	0.43674
292887	Akt1s1	-0.15085	6.83E-08	8.17E-07
24241	Calca	-0.15088	4.69E-67	6.20E-65
295965	Ehf	-0.15101	0.42171425	0.617242
24604	Npy	-0.15102	0.32305405	0.518285
245965	Atp5f1d	-0.15107	8.95E-34	5.74E-32
171444	Pacs1	-0.15107	2.90E-05	2.18E-04
307639	Gins3	-0.15111	0.23863914	0.42571
361441	Fam89a	-0.15119	4.17E-04	0.002398
64460	Pex14	-0.15127	1.86E-05	1.45E-04
296098	Lcmt2	-0.1513	0.10048781	0.229471
312849	Med21	-0.15136	0.03425272	0.100145
689207	Prob1	-0.15143	0.11788935	0.258873
64461	Decr2	-0.15144	0.02388426	0.07541
291885	Mcm5	-0.15155	0.22130251	0.403476
364227	Asb3	-0.15157	0.02030424	0.066351
100911776	LOC100911776	-0.15162	0.19890998	0.37411
286908	Pdlim7	-0.15174	1.02E-13	2.43E-12
288480	Aimp2	-0.15185	1.35E-04	8.69E-04
362861	Slc41a2	-0.15191	4.95E-07	5.16E-06
113995	P2rx5	-0.15196	0.00979036	0.036425
309523	Kif20b	-0.15203	0.33448522	0.530856
360606	Itga3	-0.15207	1.63E-08	2.14E-07
690136	Zfp939	-0.15215	0.43809136	0.631936
300758	Celf6	-0.15217	1.95E-04	0.001212

315311	Slc4a8	-0.15225	0.0072759	0.028395
261737	Sfxn5	-0.15226	0.00865306	0.032835
100361814	LOC100361814	-0.15244	0.54189591	0.723579
316221	Tbcc	-0.15244	0.00178775	0.008581
364676	Gprin1	-0.15244	0.02720498	0.083514
246209	Kif27	-0.15258	0.09099411	0.213395
685474	Zfp385a	-0.1526	4.38E-08	5.36E-07
313536	B4galt2	-0.15268	0.018364	0.061133
298267	Cachd1	-0.15279	0.02325923	0.073767
499630	RGD1565059	-0.1528	0.11792593	0.258923
288919	Asna1	-0.15283	1.47E-07	1.68E-06
108350747	LOC108350747	-0.15283	0.69376931	0.830996
685059	Msrbl	-0.15288	3.27E-04	0.00194
309544	Rbm20	-0.15289	0.25024459	0.438244
64057	Hapln2	-0.1529	0.06798052	0.171823
363026	Carm1	-0.15301	4.97E-08	6.04E-07
100362176	LOC100362176	-0.15306	4.27E-09	6.10E-08
288475	Nptx2	-0.15314	7.04E-09	9.69E-08
252915	Mxd3	-0.15343	0.64761338	0.800376
100360077	Znhit1	-0.15368	8.46E-05	5.71E-04
498000	Coa3	-0.15381	5.37E-06	4.66E-05
100036765	Ccdc92	-0.15401	7.06E-50	6.86E-48
309611	Vwa7	-0.15405	4.99E-16	1.41E-14
29510	Pctp	-0.15408	0.00422759	0.017968
306862	Tfap2a	-0.15409	0.12442869	0.269412
294679	Ankra2	-0.15415	0.07671551	0.188401
367808	Ptges311	-0.15419	0.54468292	0.725774
288057	Mylk	-0.15427	4.18E-04	0.002402
302981	Spsb3	-0.1544	2.56E-05	1.94E-04
361805	Uqcc2	-0.15467	5.86E-04	0.003228
363682	Ccr10	-0.15472	0.32710606	0.522716
499211	Gdpd5	-0.15481	3.53E-06	3.17E-05
308016	Clca5	-0.15485	0.3299719	0.526192
65198	Kcnh1	-0.15487	4.72E-05	3.38E-04
365603	Bves	-0.15493	0.05822797	0.152559
113893	Sncb	-0.15494	8.57E-18	2.76E-16
309378	Golga7b	-0.15496	0.00449379	0.018918
307309	Sncaip	-0.15501	0.17409943	0.34144
310395	Noct	-0.15504	0.0727402	0.18109
308387	Npas1	-0.1551	0.27042078	0.46194
361327	Prr16	-0.15519	0.34324453	0.539676
690130	Rhof	-0.15528	2.57E-05	1.95E-04
307237	Pard6g	-0.15533	0.10353489	0.234573
290553	Mustn1	-0.15534	0.07985298	0.194203
116595	Nrxn2	-0.15561	7.17E-22	2.83E-20
500870	Mtbp	-0.15583	0.2341067	0.420262
64017	Enpep	-0.15592	0.03809979	0.108803
690965	Ccdc85c	-0.15598	6.46E-05	4.48E-04
685169	Fam163b	-0.156	0.60628962	0.768607
84395	Slc34a2	-0.156	0.30265576	0.499833
84427	Grb7	-0.15603	0.40574851	0.602298
360533	Rnf187	-0.15608	1.81E-40	1.41E-38
306811	Wnk2	-0.1561	4.28E-07	4.51E-06
313713	Casz1	-0.15617	1.24E-06	1.21E-05
311836	Ntng2	-0.15618	3.04E-09	4.41E-08
304368	Zcwpw1	-0.15637	0.88688248	0.948861

316201	Daam2	-0.15647	2.88E-12	5.86E-11
25394	Bfsp1	-0.15671	0.24806956	0.436846
81721	Chrna6	-0.15683	3.74E-04	0.00218
306544	Plpbp	-0.15694	0.00186915	0.008922
499088	Dact3	-0.15709	2.78E-04	0.001672
681337	Acot4	-0.15727	0.25286075	0.441446
301035	Lrrfip2	-0.15728	1.39E-06	1.34E-05
25114	Fgfr4	-0.15738	0.266863	0.458122
102551788	LOC102551788	-0.15744	0.80983144	0.903741
287944	Thap7	-0.15749	0.00370918	0.016113
500893	Gli4	-0.15755	0.0861575	0.205468
25654	Col11a1	-0.15763	4.74E-06	4.15E-05
100910460	Ccdc180	-0.15777	0.74304553	0.861125
299305	Jade3	-0.15777	0.35381016	0.550741
365769	Il21	-0.15777	0.74304553	0.861125
361596	Idh2	-0.15789	6.25E-05	4.35E-04
308759	Unc45a	-0.15795	3.13E-06	2.84E-05
499748	Rnf208	-0.15801	1.59E-04	0.00101
295457	Cisd2	-0.15803	7.49E-07	7.60E-06
301371	Mrps9	-0.15804	3.76E-04	0.00219
64014	Duspl2	-0.15813	0.10079571	0.229954
300115	Arhgap8	-0.15832	0.104054	0.235413
100912052	LOC100912052	-0.15833	0.74635905	0.863888
316325	Hs6st1	-0.15858	4.16E-11	7.48E-10
315219	Tymp	-0.15863	0.01921826	0.063368
290833	Tm2d2	-0.15867	3.72E-07	3.96E-06
100361460	Insyn2b	-0.15889	0.00687619	0.027108
315691	Lingo1	-0.15911	2.47E-11	4.60E-10
25159	Gata2	-0.15923	0.19474511	0.3689
360828	Noc4l	-0.15928	0.01257049	0.04474
108348323	LOC108348323	-0.15934	0.13753859	0.288992
293738	Ccdc86	-0.15935	0.03717342	0.10667
103691004	LOC103691004	-0.15937	0.41232251	0.608075
360605	Epn3	-0.15941	4.43E-09	6.29E-08
85264	Abcg1	-0.15949	1.34E-11	2.57E-10
299210	Esrrb	-0.15958	0.08379239	0.201595
307126	Mcm10	-0.15958	0.60213018	0.765423
293135	Lrrc32	-0.15959	0.04220827	0.118041
296732	Smarcd3	-0.15976	0.00281266	0.012712
108348121	LOC108348121	-0.15986	0.55588038	0.735088
364060	Rpl3011	-0.15986	0.68019715	0.821456
497985	Hoxb7	-0.15994	0.09883141	0.226613
100909856	LOC100909856	-0.15995	0.10482046	0.236585
688319	Rac3	-0.16004	4.50E-06	3.96E-05
309158	Tmem151a	-0.1602	1.24E-17	3.93E-16
679886	Chmp4b11	-0.16023	1.55E-08	2.03E-07
100361087	LOC100361087	-0.16025	0.4383918	0.63213
24173	Adra1b	-0.16025	0.27312627	0.465163
291676	Spata24	-0.16025	0.27312627	0.465163
301650	Cntnap5b	-0.16028	0.31935974	0.514351
103693015	LOC103693015	-0.16036	1.07E-06	1.06E-05
25472	Kcnj8	-0.1605	0.29568846	0.492082
307949	Pcnx2	-0.1605	3.05E-15	8.29E-14
362960	Dmc1	-0.16051	0.51641669	0.701709
305434	Jakmip1	-0.16053	1.36E-07	1.55E-06
171522	Cyp2d4	-0.16061	0.04375634	0.121673

108348151	LOC108348151	-0.1607	0.13705685	0.288234
100360291	Zglp1	-0.16081	0.68518211	0.825121
287359	Jmjd4	-0.16081	0.32069596	0.515893
100911516	LOC100911516	-0.16081	6.30E-04	0.00345
499430	Lrrc20	-0.16101	0.00910645	0.034296
364738	Gabpb11	-0.1611	0.24004343	0.427455
314323	Flvcr2	-0.16117	0.02977644	0.089616
24591	Neu1	-0.16121	0.00158748	0.00773
311428	RGD1311739	-0.16128	8.92E-08	1.05E-06
362937	Fam83h	-0.16133	0.00267813	0.012176
108352474	LOC108352474	-0.16139	0.76747295	0.877764
24408	Grin1	-0.16165	8.23E-13	1.78E-11
303882	Tnk2	-0.16172	3.97E-19	1.37E-17
680498	LOC680498	-0.16174	0.69137025	0.82927
24688	Prph	-0.16192	1.74E-197	#####
301009	Nckipsd	-0.16198	1.49E-08	1.97E-07
291433	Dym	-0.16209	1.35E-12	2.83E-11
304322	Chst12	-0.16225	6.41E-05	4.45E-04
314756	Cradd	-0.16238	0.33255538	0.52863
83509	Slc7a7	-0.16238	1.36E-07	1.56E-06
171410	Acsbg1	-0.16248	1.75E-13	4.06E-12
361894	Ndufaf2	-0.16254	0.01445629	0.050232
25133	Pcdhb12	-0.16259	0.42274599	0.618134
246118	Tubb3	-0.16284	0	0
24250	Cbs	-0.16289	0.31752758	0.512397
315665	RGD1311251	-0.16289	0.47969743	0.668264
361560	Vstm2b	-0.16314	0.01340227	0.047137
103692716	LOC103692716	-0.16324	3.16E-11	5.81E-10
290612	Sh2d4b	-0.16332	0.59784301	0.761345
81642	Abcc6	-0.1636	0.21986283	0.401928
114490	Cited2	-0.16368	0.00201267	0.009502
287606	4-Sep	-0.16376	3.62E-11	6.56E-10
305348	Lias	-0.16376	0.00418079	0.017821
117028	Bin1	-0.16376	4.57E-16	1.30E-14
289727	Nat81	-0.1638	2.36E-45	1.99E-43
59293	Rgs19	-0.16385	5.30E-04	0.002951
24318	Drd2	-0.16396	0.0249309	0.07794
117549	Gpr37	-0.16403	0.00160835	0.007818
298510	Pabpc4	-0.16407	2.05E-06	1.93E-05
103692167	LOC103692167	-0.1642	0.04520323	0.125003
83684	Tpbg	-0.16425	0.17411226	0.34143
361313	Rel12	-0.16433	5.62E-13	1.24E-11
499782	Rpl12	-0.16446	1.10E-09	1.69E-08
306013	Lgi3	-0.1645	9.64E-28	5.06E-26
24258	Chga	-0.16461	1.51E-17	4.75E-16
64458	Scrg1	-0.1647	0.13898823	0.291395
499584	LOC499584	-0.16482	0.57867102	0.746261
100911795	Erich6b	-0.16489	0.59096222	0.756071
498392	Cyt11	-0.16493	0.06629082	0.168379
108352836	LOC108352836	-0.16503	0.47678075	0.66615
24796	Spn	-0.16504	0.22414154	0.407093
290851	Vps36	-0.16513	7.95E-07	8.01E-06
363687	Mett12b	-0.16523	0.02517237	0.078476
680602	Lcn12	-0.16525	0.45296754	0.64451
308556	Vsig101	-0.16532	9.60E-05	6.39E-04
289020	Lrrn2	-0.16538	5.48E-08	6.63E-07

687064	Col25a1	-0.16543	0.43096742	0.625259
681050	Pmf1	-0.16558	0.24450462	0.432809
501742	RGD1562667	-0.16578	0.79206681	0.892863
291923	Abcc12	-0.16581	0.20840939	0.386518
117269	Rps6ka2	-0.16585	2.69E-14	6.79E-13
690050	Tpmt	-0.16593	1.26E-04	8.18E-04
290229	Tssk4	-0.16609	0.18489863	0.35602
691320	LOC691320	-0.16617	0.48853735	0.676177
303605	Strada	-0.16625	3.67E-04	0.002144
360887	Coq8a	-0.16629	0.00377527	0.016348
84406	Hs3st1	-0.16633	0.11424383	0.252909
84683	Cox4i2	-0.1664	0.24331872	0.431472
117100	Slc6a7	-0.16645	0.23782154	0.424888
24949	Syn1	-0.16671	4.31E-38	3.19E-36
25644	Bmp6	-0.16674	0.03190211	0.094712
361784	Znrd1	-0.16687	0.07429567	0.183904
102553659	LOC102553659	-0.16702	0.7442066	0.861868
291926	Mylk3	-0.16723	0.67920726	0.820963
292786	RGD1560986	-0.16723	0.8112914	0.904707
301045	Cmtm8	-0.16723	0.47381758	0.664154
304458	Tmem132b	-0.16723	0.13102898	0.279383
315163	Shisa8	-0.16723	0.67920726	0.820963
361586	Trpm1	-0.16723	0.7356208	0.857242
364853	Plac8l1	-0.16723	0.8112914	0.904707
365744	Hnf4g	-0.16723	0.8112914	0.904707
499607	LOC499607	-0.16723	0.8112914	0.904707
681395	Rnf133	-0.16723	0.8112914	0.904707
689322	Shisa12a	-0.16723	0.8112914	0.904707
315264	Pus7l	-0.16746	0.10336413	0.234381
155812	Trim9	-0.1675	3.48E-04	0.002049
361602	Me3	-0.16771	0.00704765	0.027669
102555598	LOC102555598	-0.16781	0.77872926	0.88474
362850	Angptl4	-0.16784	0.05198131	0.138906
311807	Bmyc	-0.16807	0.00873754	0.033076
100360205	LOC100360205	-0.16818	0.0035791	0.015623
303878	Ubxn7	-0.16825	0.21239829	0.392122
305687	Zfp503	-0.16829	0.01054354	0.038727
682225	LOC682225	-0.1683	0.31618257	0.510919
100361323	Astn2	-0.16843	1.38E-04	8.89E-04
497960	Fam222b	-0.16859	4.57E-08	5.58E-07
286758	Aqp11	-0.16873	0.01268358	0.045092
79430	C1cnkb	-0.16888	0.26958308	0.460922
117559	Sv2a	-0.16893	2.68E-08	3.38E-07
308557	Igln5	-0.16907	1.43E-05	1.14E-04
500563	Fam110d	-0.16907	0.26011245	0.449573
103692169	LOC103692169	-0.1691	0.1595967	0.321031
140448	Slc8a3	-0.16919	0.00243182	0.0112
360973	Gas2l1	-0.1692	3.41E-18	1.12E-16
29628	Gria3	-0.16926	0.0056565	0.022955
679321	Slc35f3	-0.16926	0.02266809	0.072205
116653	Cap2	-0.16937	0.06963935	0.174902
25544	Sele	-0.16946	0.53505109	0.717104
499927	RGD1561517	-0.16949	0.4708067	0.661296
108349776	LOC108349776	-0.1695	0.72447037	0.849393
309570	Slc18b1	-0.16953	0.00323394	0.014337
103693540	LOC103693540	-0.16962	0.3214176	0.51653

84390	Hcn1	-0.16969	6.36E-07	6.53E-06
361708	Snx32	-0.1697	7.27E-05	4.99E-04
362972	Pnpla3	-0.16985	8.37E-06	6.98E-05
100911453	LOC100911453	-0.16988	0.21904821	0.400708
192254	Grasp	-0.16992	0.07971772	0.193923
309175	Cdc42ep2	-0.16998	4.50E-06	3.96E-05
290636	Pgls	-0.17011	3.03E-04	0.001804
680407	Mark4	-0.1705	4.60E-10	7.40E-09
680312	Hist1h2bk	-0.17057	0.26169245	0.451321
266605	Dcps	-0.17068	0.02285222	0.072706
680282	Tceal5	-0.17076	0.03458515	0.100823
367295	4-Mar	-0.17078	0.01834178	0.061091
80754	Rabep2	-0.17082	1.36E-05	1.08E-04
685844	Sh2d1b2	-0.17088	0.21461307	0.395252
64626	Rem2	-0.17093	0.00131812	0.006572
103691272	LOC103691272	-0.17095	0.55424941	0.734002
287564	Tmem132e	-0.17103	3.43E-15	9.23E-14
299613	Mex3d	-0.17109	3.62E-04	0.002119
56825	Cym	-0.17123	0.33833999	0.535012
306534	Unc5d	-0.17125	0.14974671	0.306001
406228	Krt2	-0.17134	0.44464647	0.637577
362942	Slc52a2	-0.1714	0.01778635	0.059554
500307	Tmem121b	-0.17179	0.22854167	0.413036
24256	Psg19	-0.17203	0.69281399	0.830426
65277	Vtila	-0.1721	0.02228563	0.071297
362979	Panx2	-0.17221	1.34E-13	3.13E-12
681200	Skor2	-0.17224	0.00470763	0.019705
502576	RGD1560554	-0.17241	0.65337259	0.802391
366274	Ntsr1	-0.17257	0.022098	0.070839
102547039	LOC102547039	-0.17279	0.41407383	0.609902
691504	Zfpml	-0.17297	6.95E-05	4.79E-04
308758	Hddc3	-0.17318	0.00915383	0.03444
288664	Pheta1	-0.17322	0.02111595	0.068393
689576	Nkain3	-0.17325	0.26990055	0.461382
501828	RGD1566006	-0.17329	0.81859573	0.908888
102553382	LOC102553382	-0.17346	0.44179305	0.634871
292206	Trip13	-0.17347	0.35250736	0.549566
311137	Zfp385b	-0.17353	1.94E-06	1.83E-05
108348093	LOC108348093	-0.17363	0.84445732	0.922437
309659	Mdgal	-0.1737	7.21E-04	0.003884
291961	Exoc311	-0.17374	0.05023993	0.135393
681825	Vbp1	-0.17388	6.60E-08	7.91E-07
29130	Syn3	-0.17392	0.03656008	0.105291
24167	Adcyap1r1	-0.17415	0.08180104	0.198131
308420	Zfp112	-0.17415	0.12883586	0.276035
25684	Mep1a	-0.17418	0.67289533	0.815897
171341	Mgst1	-0.17425	4.16E-07	4.40E-06
314457	Ankrd9	-0.17437	0.00834111	0.031854
497962	Lym9	-0.17455	0.00223252	0.010383
298496	Kcnq4	-0.17471	2.84E-04	0.001705
360583	Dhrs11	-0.1748	0.02610927	0.080736
311287	Ano3	-0.17511	4.53E-14	1.12E-12
313017	Sfn	-0.17523	0.18957634	0.362535
314480	Gpr132	-0.1753	0.37794173	0.574981
84600	Rag1	-0.1753	0.37794173	0.574981
363150	Elp6	-0.17532	0.00292934	0.013161

60669	Cmklr1	-0.17561	0.05915998	0.154427
680906	Fam169b	-0.17564	0.58414551	0.750374
501230	LOC501230	-0.17573	0.23250351	0.418252
29686	Scn1b	-0.1758	3.65E-38	2.71E-36
117052	Kcnj12	-0.17583	8.42E-06	7.01E-05
295458	Bdh2	-0.17595	0.18705895	0.359054
299509	Myo1a	-0.176	0.00213966	0.010027
287095	Zfp13	-0.17614	0.10010362	0.228813
64557	Bard1	-0.17628	0.51646587	0.701701
689786	Catspere	-0.17628	0.51646587	0.701701
25177	Fhl1	-0.17652	1.18E-11	2.26E-10
108348144	LOC108348144	-0.17661	0.30120446	0.498128
298518	Csf3r	-0.17668	0.10692833	0.240232
114244	Hcn2	-0.17673	8.27E-17	2.49E-15
680329	LOC680329	-0.17686	0.2492719	0.437708
117101	Kcnc3	-0.17695	1.55E-17	4.85E-16
113907	Sbk1	-0.17699	8.01E-09	1.09E-07
108352198	LOC108352198	-0.17707	0.10287681	0.233555
103690023	LOC103690023	-0.17709	0.25440092	0.443139
689039	LOC689039	-0.17709	0.25440092	0.443139
310655	Cgn	-0.17713	0.17816278	0.346979
301115	Ak5	-0.17714	0.72874774	0.851838
60666	Gpd1	-0.17715	2.99E-07	3.24E-06
363324	LOC363324	-0.1772	7.70E-04	0.004119
301506	Fsd1	-0.17729	0.00121704	0.006122
691468	RGD1561277	-0.17737	0.01069312	0.039118
498281	Nectin4	-0.17739	0.23807631	0.425144
59318	Negr1	-0.17761	0.02406265	0.075886
295327	Nhlh2	-0.17762	0.10647792	0.239475
64387	Ccdc80	-0.17783	0.00189537	0.009036
65193	Nkx6-1	-0.17788	0.72754463	0.851242
688553	LOC688553	-0.17788	0.72754463	0.851242
360848	Shisa4	-0.17788	4.32E-09	6.15E-08
685729	Pcbd2	-0.17807	0.02033325	0.066412
307806	Thap11	-0.17812	0.00538692	0.022101
288512	Elf1	-0.17825	9.11E-07	9.13E-06
690308	Tsen54	-0.17838	0.01925989	0.063472
102549710	Samd11	-0.17842	0.01222821	0.043759
114502	Pax3	-0.17844	0.54490412	0.725967
362334	Tmem140	-0.17866	0.07439217	0.184048
308834	Usp35	-0.17873	1.15E-08	1.54E-07
305691	Zfp385d	-0.17874	0.01100465	0.040077
315173	Mcat	-0.17874	0.01100465	0.040077
100360856	LOC100360856	-0.1788	0.00947502	0.035445
362841	Mier2	-0.17885	0.0015584	0.0076
500066	Strip2	-0.17901	0.02641599	0.081499
170924	Abcc4	-0.17905	5.54E-05	3.90E-04
24203	Amyla	-0.17906	0.57707031	0.745004
307925	Spire2	-0.17924	1.22E-12	2.59E-11
306328	Med26	-0.17925	0.05166026	0.138184
689996	Tomm201	-0.17939	0.79893859	0.89684
363563	Fb111	-0.17948	1.86E-04	0.001166
100911693	LOC100911693	-0.17952	0.10083471	0.229988
310678	Hist2h3c2	-0.17968	0.53072216	0.713008
688407	Mett127	-0.17983	0.11269972	0.250363
361519	Zfp428	-0.17995	0.00248761	0.011424

684681	Hist1hlc	-0.18044	5.48E-27	2.77E-25
293874	Trpm6	-0.18053	0.04538236	0.125335
293481	Tufm	-0.18059	6.76E-11	1.19E-09
84010	D111	-0.18061	0.25525068	0.444031
497916	Mief2	-0.1807	0.01056865	0.038805
498959	Fbxo31	-0.18076	5.67E-12	1.13E-10
29369	Fgf18	-0.18091	0.06066986	0.157376
288161	B3galt5	-0.18095	0.01840085	0.061213
298690	B3galt6	-0.18095	0.04509626	0.124798
307799	Pard6a	-0.18109	0.05218708	0.139339
361277	Acbd7	-0.18109	0.21042647	0.38916
100360464	Arxes2	-0.18151	0.03678291	0.105836
315705	Rpp25	-0.18173	0.29069833	0.486071
100910207	LOC100910207	-0.18175	0.00182244	0.008734
309390	Entpd7	-0.18196	0.41981684	0.615316
299341	Apopt1	-0.18204	7.98E-04	0.004248
499957	Samd10	-0.18209	0.00418148	0.01782
291157	Hist1h2bo	-0.1821	0.59814177	0.761573
293587	Fuom	-0.18215	0.64764481	0.800311
304346	Mblac1	-0.18222	0.04603535	0.12677
304928	Mettl18	-0.18222	0.31850638	0.513368
116719	Acacb	-0.18238	0.01351826	0.047501
500152	Mmrn1	-0.18242	0.23144571	0.416821
245963	Egfl7	-0.18243	0.01230238	0.043967
294231	RGD1302996	-0.18244	1.09E-10	1.87E-09
680403	Hist1h2bc11	-0.18244	0.7170015	0.845215
117183	Rgcc	-0.18252	0.00159345	0.007756
294208	Trim31	-0.18253	0.41842278	0.614123
364208	Cnrip1	-0.18275	1.54E-08	2.03E-07
314423	Bcl11b	-0.18291	0.08828301	0.208915
314213	Gpr135	-0.18297	0.15746704	0.317703
497899	LOC497899	-0.18297	0.15746704	0.317703
362100	Endog	-0.18342	0.06523888	0.166373
83810	Trpv1	-0.18348	1.67E-16	4.89E-15
100363494	LOC100363494	-0.1835	1.66E-07	1.87E-06
100233177	Zfp949	-0.18355	0.03624612	0.104513
500252	Hlfx	-0.18363	3.51E-08	4.36E-07
114639	Zp3	-0.18372	0.61648732	0.775931
25431	Dlx5	-0.18372	0.61648732	0.775931
307897	Sdr42e1	-0.18372	0.26275559	0.452744
315435	Panx1	-0.18375	9.87E-04	0.00512
304554	Sez6l	-0.1839	0.01099982	0.040079
287148	Rpusd1	-0.18391	0.00458771	0.019271
29331	Hapln1	-0.18397	4.02E-07	4.26E-06
414790	RT1-CE13	-0.18398	0.11235512	0.249831
316003	Amigo3	-0.18402	6.44E-06	5.48E-05
308992	Zfp771	-0.18413	1.61E-05	1.26E-04
287094	Zfp213	-0.18417	0.0145345	0.050457
362676	Prxl2b	-0.18418	1.69E-04	0.001068
361054	Ebpl	-0.1842	0.00768691	0.029737
298534	Clspn	-0.18423	0.53803111	0.720135
100363112	LOC100363112	-0.18447	0.42017131	0.615504
108348070	LOC108348070	-0.18475	0.58140037	0.74816
114491	Cited4	-0.18493	0.57423773	0.742404
688293	Sgsh	-0.18509	0.16165403	0.32404
681936	Ism2	-0.18558	0.01271229	0.045186

305095	Tmcc2	-0.18567	3.25E-08	4.05E-07
691414	LOC691414	-0.18567	6.07E-06	5.20E-05
293524	Bag3	-0.18574	6.56E-28	3.46E-26
170579	Fgf22	-0.18575	0.53735222	0.71953
499470	Armc2	-0.18575	0.28535477	0.479536
303004	Tmem8a	-0.18576	5.23E-07	5.44E-06
25327	Kcnc1	-0.18579	2.31E-05	1.76E-04
680751	Ebf4	-0.18581	0.03924983	0.111536
502908	LOC502908	-0.18584	0.860049	0.931667
29758	St6galnac3	-0.18585	0.09859478	0.226179
25261	Id1	-0.18599	0.00244326	0.011242
365179	Zfp524	-0.18638	0.0200383	0.065617
498228	Mfsd4a	-0.18639	0.14785987	0.303317
292722	Tmem145	-0.18644	6.20E-05	4.32E-04
293493	Fam57b	-0.18646	5.28E-34	3.42E-32
415064	Gpank1	-0.18651	0.00478397	0.019972
293107	Ccdc89	-0.18662	0.38150953	0.578307
690131	Hist2h2aa2	-0.18665	7.07E-05	4.86E-04
102551000	LOC102551000	-0.18671	0.81487976	0.906983
300889	Ankrd34c	-0.18672	0.05271986	0.140544
499099	Cd177	-0.18675	0.19705853	0.371693
100910047	Gfy	-0.18683	3.37E-11	6.16E-10
24799	Eef1a2	-0.18685	6.98E-129	#####
499505	Msh3	-0.18705	0.00278889	0.012634
299604	Polrmt	-0.18706	6.08E-04	0.003335
29204	Neu2	-0.18713	0.44828009	0.64028
360665	Jmjd6	-0.18722	0.01476268	0.051128
684111	E2f2	-0.18728	0.05625299	0.148241
497881	Tlx3	-0.18732	3.01E-09	4.37E-08
289801	Upp1	-0.18741	0.25795538	0.447184
688283	Afmid	-0.18746	0.03994206	0.113132
117105	Kcnb2	-0.18747	0.00169161	0.008171
690333	Sertm1	-0.18753	2.90E-05	2.18E-04
296048	Lpcat4	-0.18753	4.64E-12	9.33E-11
308775	Det1	-0.18755	0.06544145	0.166733
360639	Dcakd	-0.18769	2.56E-08	3.24E-07
25393	Bcan	-0.18778	1.55E-14	3.98E-13
54295	Rgs6	-0.18784	4.34E-04	0.002482
679806	Fer115	-0.18791	0.20534143	0.382505
113912	Rtn4r	-0.18804	0.00876576	0.033157
286923	Dlgap3	-0.18807	1.01E-10	1.74E-09
24264	Ckb	-0.18833	6.57E-100	1.28E-97
304669	Hook2	-0.18842	0.07289077	0.18137
103692792	LOC103692792	-0.18851	0.00556944	0.022665
499980	Ccdc146	-0.18866	0.30699987	0.502995
290633	Gtpbp3	-0.18873	0.00928844	0.034871
305096	Klhdc8a	-0.18877	0.04067243	0.114723
304496	Orail	-0.18888	0.00239059	0.011043
300050	Bop1	-0.18908	1.37E-05	1.09E-04
25688	C1cn1	-0.18914	0.01404752	0.049026
316290	Ogfrl1	-0.18924	1.18E-07	1.37E-06
287847	Rbfox3	-0.18928	3.15E-16	9.05E-15
312679	I117ra	-0.1893	2.62E-05	1.98E-04
360908	Cdc7	-0.18931	0.10783401	0.241668
100361898	LOC100361898	-0.18946	0.22182899	0.404126
114509	Mapk7	-0.1895	5.26E-04	0.002934

108348114	LOC108348114	-0.18979	0.00212884	0.009984
24602	Nppa	-0.18995	0.0875486	0.207564
287102	Kremen2	-0.18995	0.79896753	0.896767
290032	Eddm3b	-0.18995	0.71871482	0.846344
295518	Clnk	-0.18995	0.71871482	0.846344
296608	RGD1306233	-0.18995	0.65912259	0.804859
299316	Slc25a47	-0.18995	0.65912259	0.804859
315712	Ccdc33	-0.18995	0.79896753	0.896767
58922	Sebox	-0.18995	0.79896753	0.896767
79217	Gja3	-0.18995	0.71871482	0.846344
100359918	Lnp1	-0.18995	0.61049489	0.771909
25117	Hsd11b2	-0.18995	0.39828384	0.595487
25633	Dnase1	-0.18995	0.61049489	0.771909
108348080	LOC108348080	-0.18997	0.03162382	0.094047
64191	Dhcr7	-0.19004	8.23E-10	1.28E-08
108352650	LOC108352650	-0.1901	0.56161816	0.733156
316758	Lama1	-0.19012	0.43518079	0.629119
362911	Mal2	-0.19015	0.00280653	0.012699
65155	Alas1	-0.19036	6.79E-08	8.13E-07
56761	Notch3	-0.19066	4.30E-05	3.11E-04
362628	Ifnlr1	-0.19084	0.02774112	0.084845
363206	Tmem14a	-0.19113	0.0189906	0.062813
690126	LOC690126	-0.19143	0.07109025	0.177772
362258	Actr5	-0.19145	0.06520194	0.166301
304929	F5	-0.19158	0.30624447	0.502189
64537	Hpse	-0.1916	0.00130286	0.006504
362931	Adgrb1	-0.19162	1.14E-08	1.52E-07
687827	Haspin	-0.19175	0.16818656	0.332687
102554194	LOC102554194	-0.19186	0.01584166	0.054234
64356	Nrgn	-0.19195	0.3559225	0.553125
171393	Clstn3	-0.19239	1.39E-22	5.71E-21
85275	Mpp2	-0.19264	4.51E-05	3.25E-04
306790	Sema4d	-0.19265	2.33E-06	2.16E-05
315711	Sema7a	-0.19287	2.08E-25	9.74E-24
296545	C8g	-0.19305	0.19792108	0.372839
363256	Speg	-0.1932	4.17E-06	3.69E-05
252882	Mamdc4	-0.19323	0.30414341	0.501074
286939	Clmp	-0.19352	1.69E-15	4.67E-14
108353318	LOC108353318	-0.19356	0.3715071	0.568119
79122	Fdxr	-0.1936	0.02911198	0.088076
362760	Galnt16	-0.19363	0.06899615	0.173837
361921	Ect2	-0.1937	0.23850936	0.425638
311311	Meis2	-0.19375	5.61E-04	0.003105
102556459	LOC102556459	-0.19383	0.3715628	0.568067
103690027	Aspn11	-0.19387	0.62730613	0.784699
24247	Casr	-0.1939	2.74E-10	4.54E-09
29636	F2r12	-0.19397	3.88E-04	0.002253
114090	Egr2	-0.19402	2.37E-06	2.20E-05
81756	Rab13	-0.19422	0.02671391	0.082232
290639	Fchol	-0.19446	1.56E-05	1.23E-04
60433	Rfng	-0.19451	2.00E-08	2.57E-07
114515	Lanc11	-0.19455	4.77E-14	1.18E-12
66024	Npy2r	-0.19458	0.01111462	0.040412
293155	Anapc15	-0.19462	3.53E-04	0.002075
65081	Vps33a	-0.19496	1.76E-06	1.68E-05
25009	Vars	-0.1951	8.77E-12	1.72E-10

100192205	Hsbp111	-0.19515	0.09303502	0.217006
368153	RT1-CE7	-0.19537	0.00279192	0.012642
359727	Bysl	-0.19571	6.25E-04	0.003423
290356	Phyhip	-0.19575	0.00545927	0.022331
252897	Pcdhgall	-0.19577	0.00276955	0.012556
306657	Irx2	-0.19596	0.44511626	0.637818
365511	Zfp296	-0.19611	0.4402716	0.633497
309440	Mrpl43	-0.19628	1.08E-05	8.85E-05
65023	Kcnip1	-0.19642	2.82E-10	4.67E-09
304374	Fbxo24	-0.19662	0.3693022	0.565474
685055	Atr	-0.19669	6.96E-12	1.37E-10
314473	Kif26a	-0.19698	0.05017103	0.135245
171084	Nat8b	-0.19698	0.57344269	0.742334
313650	Fam43b	-0.19701	2.33E-09	3.44E-08
315978	Nek11	-0.19725	0.08808218	0.208492
500474	Rnf183	-0.19736	0.71690339	0.845204
26759	Acot7	-0.19744	3.20E-52	3.24E-50
499421	RGD1564162	-0.19748	0.52050898	0.705157
361016	LOC361016	-0.19761	0.05185118	0.138617
116638	Slc17a7	-0.19779	2.89E-32	1.76E-30
54233	Car5a	-0.19788	0.34356198	0.540041
24417	Grm4	-0.19829	5.96E-04	0.003274
81726	Mvd	-0.19834	1.61E-08	2.11E-07
305253	Adamts3	-0.19847	0.02064171	0.0672
245979	Lmo1	-0.19853	0.03051022	0.091348
688286	LOC688286	-0.19856	0.19280676	0.366468
366491	Spata21	-0.1987	0.43466923	0.628762
282583	Fbln2	-0.19872	4.83E-68	6.47E-66
29685	Mcm6	-0.19874	0.07717356	0.189208
100912338	LOC100912338	-0.19894	0.65158008	0.803038
292916	Syngn4	-0.19894	0.65158008	0.803038
499586	Tmem212	-0.19894	0.65158008	0.803038
690755	Lingo3	-0.19894	0.52307409	0.707273
689439	LOC689439	-0.19897	0.41413579	0.609899
54262	Kcnn2	-0.19914	0.00568619	0.023066
290629	Ushbp1	-0.19915	0.08357327	0.201195
29470	Mecr	-0.19928	0.0167784	0.056697
682360	Fam167b	-0.1995	0.28171978	0.475315
316533	Chpf	-0.19969	2.55E-26	1.26E-24
171051	Cabp1	-0.20001	2.39E-23	1.02E-21
305705	Lrrc3b	-0.20012	0.04728297	0.12942
360323	RT1-N2	-0.20056	0.01384757	0.048426
315789	Fam81a	-0.20061	0.00178096	0.008554
297694	Plbd1	-0.20071	0.08592943	0.205156
681043	Acnat1	-0.20077	0.7319662	0.854551
294754	Pelo	-0.2008	7.88E-06	6.59E-05
103694876	LOC103694876	-0.2011	0.06799753	0.171844
171554	Cdhr5	-0.20118	0.27967518	0.473165
363912	Piwill	-0.20171	0.35992058	0.556703
363301	LOC363301	-0.2018	0.02905339	0.087941
316531	Tuba4a	-0.20185	5.95E-65	7.66E-63
501122	Amer3	-0.20194	6.38E-04	0.003484
29326	Gpx2	-0.20218	6.99E-13	1.52E-11
360243	Top2a	-0.20224	0.04527226	0.125103
501502	Sh2d1a	-0.20228	0.38407148	0.580711
64628	Hes3	-0.20231	0.30706759	0.502846

680842	RT1-M1-5	-0.2025	0.71056613	0.841169
500622	RGD1565766	-0.20294	0.31412268	0.50854
500987	H2afx	-0.20333	1.81E-05	1.41E-04
498353	Scfd2	-0.20333	5.26E-04	0.002932
59301	Ghr1	-0.20376	0.51802774	0.702945
25375	Aldh3a1	-0.20376	0.5976562	0.761158
25477	Lhcgr	-0.20376	0.70900514	0.840052
366432	Slc1a7	-0.20376	0.70900514	0.840052
498065	Lca5l	-0.20376	0.70900514	0.840052
25259	Gp5	-0.20396	0.30507249	0.502083
108349568	LOC108349568	-0.20406	0.65290863	0.80208
108352688	LOC108352688	-0.20409	0.34775329	0.544651
29583	Pecam1	-0.20412	7.74E-04	0.00414
362255	Vstm21	-0.20447	7.75E-17	2.34E-15
192153	Gpr26	-0.20469	0.13459896	0.284668
360661	Llgl2	-0.20485	0.09021545	0.212039
498997	Rspo3	-0.20511	0.37986204	0.576912
303559	Arl4d	-0.20525	0.09390822	0.218427
499943	Spata25	-0.2053	0.80484816	0.90066
170509	Cyp3a62	-0.20534	0.51499645	0.700529
25662	Igfbp2	-0.20534	1.28E-08	1.71E-07
499917	Tmem74b	-0.20557	0.32163457	0.516748
307098	Net1	-0.2056	6.61E-07	6.76E-06
296145	Fbln7	-0.20571	0.20349284	0.37999
266769	Gpr3	-0.20589	0.16039569	0.322366
308724	Agbl1	-0.20589	0.48276005	0.67145
83521	Rrad	-0.20589	0.32090744	0.516059
102557478	LOC102557478	-0.20591	0.70200554	0.837071
366949	Mafa	-0.20603	8.51E-04	0.004495
363120	Esyt3	-0.2064	0.27344979	0.465527
292541	Nlrp12	-0.20647	0.67201007	0.815343
192172	Mpst	-0.20655	1.78E-04	0.001119
103690052	LOC103690052	-0.20673	0.70907073	0.84
103694870	LOC103694870	-0.20673	0.70907073	0.84
108349537	LOC108349537	-0.20676	0.8842294	0.946847
108353041	LOC108353041	-0.20676	0.8842294	0.946847
313785	Icam5	-0.20676	0.55221131	0.732372
315550	Rpusd4	-0.20704	0.00526884	0.021696
103690019	LOC103690019	-0.20728	0.42765234	0.622869
499839	RGD1564664	-0.20774	2.92E-13	6.61E-12
302996	Ccdc78	-0.20793	0.55549444	0.734833
291356	Et14	-0.20798	1.33E-22	5.47E-21
362976	Trmu	-0.20823	0.02456999	0.076988
24189	Aldoa	-0.20833	2.88E-241	#####
361424	RGD1309651	-0.20836	0.2005674	0.376484
499506	Ankrd34b	-0.20839	0.061717	0.159636
295219	Slc27a3	-0.2084	0.00263001	0.011983
106146145	Baiap3	-0.20881	0.51282563	0.698474
25106	Rgn	-0.20881	0.3546933	0.551485
497860	Rpl391	-0.20881	0.64353504	0.797146
362715	Dtnb	-0.20892	8.57E-09	1.17E-07
499561	Fam173b	-0.20925	0.00149349	0.007338
500065	Tspan33	-0.20925	0.0667097	0.169195
317382	Foxp3	-0.20954	0.58514272	0.751098
25362	Slc30a2	-0.20985	0.39698982	0.594206
108348172	LOC108348172	-0.20994	7.67E-07	7.77E-06

108348185	NEWGENE 2724	-0.21007	0.71111162	0.841344
317675	Tph2	-0.21034	0.00511456	0.021134
298002	Rpp251	-0.21055	0.01806625	0.060342
360970	Cabp7	-0.2106	0.00660473	0.026244
689823	Rad2111	-0.21071	0.37336539	0.569862
100910954	LOC100910954	-0.21086	0.7762921	0.883236
85273	Fbxo2	-0.21092	3.91E-48	3.64E-46
114032	Kcnh4	-0.21143	0.59076302	0.755867
24925	Adrb1	-0.21143	0.44697602	0.639473
64826	Foxq1	-0.21143	0.28216799	0.475734
308463	Map3k10	-0.2115	2.17E-12	4.49E-11
362860	Appl2	-0.21168	1.16E-07	1.35E-06
691478	Cpne6	-0.21175	5.05E-57	5.62E-55
685184	LOC685184	-0.21205	0.331633	0.527869
25155	Syk	-0.21209	0.02161621	0.069647
29499	Shh	-0.21215	4.51E-06	3.96E-05
117185	Neu3	-0.21215	0.08602524	0.205256
296985	Clec21	-0.21216	6.75E-50	6.60E-48
499914	Gins1	-0.2122	0.13368065	0.283482
501630	Mum111	-0.21222	0.02322168	0.07366
298404	Arhgef39	-0.21223	0.27227093	0.464142
313108	Mms221	-0.21232	0.25298937	0.441509
100360722	Sirpd	-0.21235	0.77454474	0.882249
108348049	LOC108348049	-0.21285	0.06620195	0.168199
360960	Hmx1	-0.2129	0.05893583	0.153969
366517	Ttc34	-0.21304	0.54617507	0.72705
64348	Cryba4	-0.21304	0.39339301	0.590632
363134	Rrp9	-0.21308	0.00200521	0.009474
102550773	LOC102550773	-0.21317	0.45493235	0.646051
302083	RGD1562660	-0.21336	0.00136645	0.006774
361699	Ankrd13d	-0.21342	9.75E-11	1.69E-09
367786	Bmx	-0.21362	0.37004562	0.566339
305302	Ras111b	-0.21366	0.00877802	0.033196
680117	Tlx2	-0.21374	8.31E-09	1.13E-07
171517	Gpc2	-0.21454	0.328778	0.524486
301372	Gpr45	-0.21454	0.328778	0.524486
305589	Bcl11a	-0.2148	0.01827021	0.060895
303039	Wwc1	-0.21498	0.05011945	0.135144
680110	Rprm	-0.21505	8.21E-08	9.71E-07
502873	Prrt3	-0.21518	1.84E-10	3.12E-09
246333	Pcsk1n	-0.21524	5.63E-84	9.16E-82
681186	LOC681186	-0.21531	0.8539861	0.927949
24566	Mst1	-0.21549	0.44260486	0.635415
302819	Arhgap36	-0.21568	1.19E-05	9.65E-05
493909	Aox3	-0.21569	0.21307301	0.393253
500553	Zbtb8b	-0.21581	0.16598873	0.330019
287796	Slc39a11	-0.21653	0.00487931	0.020303
29644	Ptpn5	-0.21655	0.00199573	0.009438
266687	Slc35e4	-0.21692	7.80E-07	7.87E-06
361514	Meis3	-0.21692	3.34E-05	2.48E-04
102553495	LOC102553495	-0.21718	0.15673355	0.316609
313057	Serinc2	-0.21731	2.09E-04	0.001292
58835	Phgdh	-0.21786	3.46E-22	1.38E-20
290566	Ogdh1	-0.21799	0.00309726	0.013821
308607	E2f8	-0.21845	0.40452296	0.601557
684792	LOC684792	-0.21863	1.57E-04	0.001

29557	Myh7	-0.21868	2.35E-04	0.001439
360573	Ksr1	-0.21871	0.42961015	0.624241
681316	Tpbgl	-0.21888	2.27E-15	6.21E-14
102555167	LOC102555167	-0.21898	6.43E-23	2.67E-21
689746	Tt1111	-0.21906	0.00444584	0.018737
311202	Large2	-0.21944	0.34139459	0.538189
100910163	LOC100910163	-0.21955	0.56190634	0.733331
361432	Cdh15	-0.21958	3.95E-11	7.14E-10
102548506	LOC102548506	-0.2197	0.78398734	0.887748
108351016	LOC108351016	-0.2197	0.78398734	0.887748
192258	Gabrr3	-0.2197	0.69825763	0.834509
25321	Ghrhr	-0.2197	0.78398734	0.887748
292266	Ccdc170	-0.2197	0.58351802	0.750074
298062	Plppr1	-0.2197	0.43813445	0.631902
301016	Spink8	-0.2197	0.69825763	0.834509
302302	Chst7	-0.2197	0.20904094	0.387087
309203	Scgb1d2	-0.2197	0.78398734	0.887748
362506	Ccl19	-0.2197	0.53989896	0.721874
64193	Pttg1	-0.2197	0.28837718	0.483166
83928	Fetub	-0.2197	0.78398734	0.887748
307721	Irx3	-0.21986	0.48988526	0.677353
295228	Gpatch4	-0.22033	0.04175968	0.116958
680493	Cd3eap	-0.2204	0.00338872	0.014905
108351828	Arih2os	-0.22058	0.37251728	0.568933
25560	Abcc9	-0.22078	0.0040119	0.017185
102547212	LOC102547212	-0.22107	0.43469562	0.628752
368190	Dnajc30	-0.22111	8.55E-04	0.004511
291770	Chst9	-0.2212	0.02231689	0.071361
500352	Smco3	-0.22125	0.0301776	0.090552
24558	Mog	-0.22148	0.02238783	0.071564
293894	Tpd5213	-0.22158	0.33290404	0.528964
498848	RGD1560482	-0.22167	0.45966609	0.650929
288079	Polq	-0.22201	0.28582696	0.479991
287368	Nt5m	-0.22228	6.11E-06	5.23E-05
291656	Pcdhb3	-0.2224	0.01739797	0.058541
103691059	LOC103691059	-0.22248	0.29149873	0.486939
54323	Arc	-0.22275	0.03715126	0.106654
502774	Cpv1	-0.22287	0.35978684	0.556632
100365744	Lrrc75b	-0.22352	1.08E-06	1.07E-05
297727	Mrps35	-0.22401	3.27E-07	3.53E-06
689830	Anxa9	-0.22404	0.09346552	0.217663
302405	Pabpc112a	-0.22454	8.45E-04	0.004468
103693341	Tnfrsf13b	-0.22472	0.46319885	0.653986
108349347	LOC108349347	-0.22492	0.42113105	0.616578
100911855	LOC100911855	-0.22542	0.58728592	0.752936
299112	Pole2	-0.22558	0.33587611	0.532442
25515	Plk1	-0.22584	0.18250217	0.352725
362691	Tmem178a	-0.22598	0.06214551	0.160396
25505	P2rx1	-0.22613	0.35626343	0.553339
54266	Madcam1	-0.22613	0.19202072	0.365484
501297	LOC501297	-0.22656	2.94E-04	0.001756
288026	Atp13a4	-0.22695	0.06453967	0.165165
302392	Magee2	-0.22712	0.14793005	0.303395
309387	Cnnm1	-0.22717	6.81E-14	1.66E-12
108352200	C10H5orf58	-0.22719	0.75243245	0.867806
50564	Gjd2	-0.22731	0.29672411	0.493288

102546596	LOC102546596	-0.22734	0.77296843	0.881297
25108	Avpr2	-0.22739	0.2225868	0.40508
298426	Nsun4	-0.22753	4.83E-04	0.002718
103690059	LOC103690059	-0.22759	0.01837599	0.061162
314260	Plek2	-0.22769	0.4920221	0.679371
314818	E2f7	-0.22779	0.19037669	0.363299
302507	Efhc2	-0.22805	0.0254348	0.0791
501101	Lrrc73	-0.2282	2.48E-04	0.001509
501396	LOC501396	-0.22824	0.01075481	0.039291
303218	Hs3st3b1	-0.22825	0.32274422	0.518006
304987	Aim2	-0.22832	0.44921333	0.640988
302333	Dach2	-0.22832	0.38328613	0.580123
311633	Neur12	-0.22848	0.25009354	0.438625
103693564	LOC103693564	-0.22862	0.17839227	0.347249
303965	Myh15	-0.22863	0.57589008	0.743935
360588	Brip1	-0.22863	0.4288807	0.624181
79222	Gucy2e	-0.22863	0.33259199	0.528644
117533	Gmpr	-0.22915	3.25E-10	5.31E-09
500917	Odf3b	-0.22925	0.12501097	0.270212
306342	Nxn11	-0.22929	0.35819306	0.555204
100911672	LOC100911672	-0.22981	1.37E-05	1.09E-04
361669	Tcerg11	-0.22988	0.0021236	0.009962
291637	Pcdhga5	-0.23026	0.02301678	0.073144
294335	Susd2	-0.23035	8.66E-111	#####
100361389	Fam171a2	-0.2304	2.17E-11	4.07E-10
298034	Slc46a2	-0.2308	0.07925079	0.193108
502143	Idi2	-0.2308	0.88605406	0.948241
303140	LOC303140	-0.23088	0.14480683	0.299375
117055	Gjb4	-0.23103	0.7279966	0.851483
29162	Cdh7	-0.23137	0.00583284	0.02358
24471	Hspb1	-0.23146	5.05E-47	4.51E-45
103692273	LOC103692273	-0.23152	4.58E-04	0.002595
289459	Slc10a6	-0.23177	0.27538161	0.467437
686977	RGD1624210	-0.23177	0.85015251	0.925844
108352751	LOC108352751	-0.23177	0.62569201	0.783503
245708	Gucy2g	-0.23177	0.62569201	0.783503
312806	Art4	-0.23177	0.62569201	0.783503
366366	Igfbp11	-0.23177	0.49028697	0.677712
78957	Shank1	-0.23184	1.86E-04	0.001166
494198	Oas1k	-0.23226	0.54192031	0.72351
24450	Hmgcs2	-0.23256	1.06E-15	2.98E-14
294011	Sfxn2	-0.23258	0.08798888	0.208323
282582	Wnt5b	-0.23268	0.29103232	0.486331
690610	Tmem86b	-0.23287	0.12285945	0.267077
114494	Ccna2	-0.23292	0.05021816	0.135353
685488	LOC685488	-0.23311	0.29406209	0.490061
308773	Hapln3	-0.23319	0.27151622	0.463105
499302	Gal3st3	-0.23319	0.13474299	0.284815
24648	Serpinal	-0.23327	6.68E-04	0.003629
192189	Syt17	-0.23337	0.42408926	0.619432
252835	Gdf5	-0.23337	0.25828763	0.447678
501558	Map3k15	-0.23353	0.42567365	0.62089
304053	Ripk4	-0.23375	0.0773397	0.189421
686753	Npnt	-0.23379	0.01795088	0.060041
317258	Itgblbp2	-0.23435	0.52656017	0.710273
63882	Asic4	-0.23435	0.37048082	0.566823

501747	Qrich2	-0.23435	0.25698744	0.445993
300218	Tubalc	-0.23469	4.68E-34	3.05E-32
100362676	Klh133	-0.23519	0.00416429	0.01777
102552503	LOC102552503	-0.23547	0.50710662	0.693611
108353163	LOC108353163	-0.23547	0.45259509	0.644173
100911402	LOC100911402	-0.23555	9.40E-12	1.83E-10
245982	Coro6	-0.23593	7.39E-08	8.80E-07
301122	Dus31	-0.23607	1.01E-04	6.72E-04
366229	Scrt2	-0.23616	4.47E-20	1.59E-18
108349479	LOC108349479	-0.23617	0.01578595	0.054082
415062	Ly6g6d	-0.23617	0.2928176	0.488628
29358	Npylr	-0.23623	9.95E-13	2.14E-11
64392	Aldh111	-0.23627	0.04651953	0.127753
302583	Foxr2	-0.23634	0.44503947	0.637756
501164	Cdk5r2	-0.23662	3.61E-30	2.05E-28
65194	Slc29a2	-0.23738	0.01095449	0.039944
308511	Chst8	-0.23797	0.00193298	0.009185
100364194	LOC100364194	-0.23831	0.68627141	0.82578
116726	Slc7a9	-0.23831	0.68627141	0.82578
292913	Fam83e	-0.23831	0.56784411	0.737845
499971	Iqca11	-0.23831	0.68627141	0.82578
83569	Abcb11	-0.23831	0.68627141	0.82578
170808	Capn8	-0.23831	0.48417064	0.672503
171529	Kif2c	-0.23831	0.32246807	0.51765
300027	Gpihbp1	-0.23831	0.22560374	0.409163
360847	Ube2t	-0.23831	0.48417064	0.672503
500516	Lexm	-0.23831	0.07829767	0.19125
288151	Hoxd1	-0.23839	3.31E-06	2.99E-05
100362216	LOC100362216	-0.2385	0.22646049	0.41017
103690039	LOC103690039	-0.23852	0.27508004	0.467092
89868	Sec16b	-0.23853	0.00535127	0.021993
362993	Rnd1	-0.23854	0.00641302	0.0256
293820	Psat1	-0.23896	3.69E-07	3.94E-06
192363	Noslapp	-0.23899	0.02672415	0.08225
102554500	LOC102554500	-0.23908	0.65963795	0.805153
102554600	LOC102554600	-0.23948	0.37625567	0.573171
50559	Acot1	-0.23962	3.76E-04	0.002193
315866	Prss35	-0.24	0.03698715	0.106344
102549615	LOC102549615	-0.24007	1.39E-08	1.85E-07
297738	Steap1	-0.24016	0.3416165	0.53836
293004	Adamts17	-0.24023	2.42E-05	1.84E-04
100362967	LOC100362967	-0.24042	0.61348298	0.774171
690845	Rps4y2	-0.24048	0.00540561	0.022159
690566	Vom2r12	-0.24051	0.73513918	0.85731
500585	RGD1561413	-0.24057	0.32362113	0.518933
100910735	Oaslq	-0.24074	0.09147268	0.214359
54249	Cfd	-0.24177	0.01158528	0.04178
687399	LOC687399	-0.24204	0.17695984	0.345484
192215	Slc9a5	-0.24228	0.0233441	0.073987
691354	LOC691354	-0.24242	0.51945987	0.704186
361046	Parp4	-0.24263	1.18E-41	9.43E-40
89807	Angpt1	-0.24269	0.02436621	0.076577
100909510	Tsen3411	-0.24288	1.93E-04	0.001201
367782	Tceanc	-0.24306	0.29829486	0.494906
408234	Spink2	-0.24342	0.52195224	0.706258
103692166	LOC103692166	-0.24349	0.08511972	0.203887

362323	Sdhaf3	-0.24359	0.05826501	0.152614
360621	Cdc6	-0.2437	0.15532514	0.314498
311416	RGD1561442	-0.24389	0.02181485	0.070144
84490	Fen1	-0.24392	6.28E-04	0.003437
316642	Neu4	-0.24395	0.65301532	0.802056
365877	Hist2h2aa3	-0.24401	0.03520158	0.102135
688311	Ar116	-0.24403	2.80E-07	3.05E-06
362930	Ptp4a3	-0.24407	1.51E-07	1.71E-06
29402	Unc119	-0.24448	3.78E-04	0.002199
306464	Cenpu	-0.24473	0.42517362	0.620398
102554444	LOC102554444	-0.24501	0.48811534	0.675838
287938	Ydjc	-0.24523	0.00172249	0.008307
497891	Timd4	-0.24523	0.6157437	0.775328
65131	Cldn5	-0.24534	2.51E-09	3.68E-08
100910288	LOC100910288	-0.2454	0.41909495	0.614731
689619	Nrip2	-0.24543	9.24E-05	6.18E-04
289671	Fam184b	-0.24554	0.00541699	0.022182
304725	LOC304725	-0.24562	0.05443053	0.144317
287422	Per1	-0.24568	6.92E-13	1.51E-11
293444	Abca16	-0.24596	0.27212969	0.463985
502907	LOC502907	-0.24599	0.89933484	0.956114
292759	Sars2	-0.24611	4.32E-04	0.00247
289230	Nhlh1	-0.24614	0.47629056	0.665807
361676	Pnpla2	-0.24651	4.11E-15	1.10E-13
363032	Rp9	-0.24651	0.0296966	0.089447
289019	Cdk18	-0.24667	0.0093391	0.035019
360695	Evalc	-0.24676	5.57E-04	0.003086
25586	Alpl	-0.24712	9.62E-10	1.49E-08
24889	Cckar	-0.24728	0.0294397	0.088856
499776	Fam78a	-0.24753	0.03952963	0.112247
81683	Mif	-0.2485	3.81E-31	2.25E-29
291652	Pcdhb7	-0.24893	0.02463097	0.077129
171438	Crtac1	-0.24906	3.40E-06	3.06E-05
259247	Obp3	-0.24932	0.8429078	0.921802
114492	Ccl28	-0.24942	0.49191953	0.679278
252964	Lipogenin	-0.2496	0.31585633	0.510479
293632	Ifitm10	-0.24974	9.05E-12	1.77E-10
308366	Zbtb45	-0.25002	9.05E-05	6.05E-04
63889	Ptgdr1	-0.25005	0.35890723	0.555858
291441	Skal	-0.25007	0.37999416	0.57702
367215	Trem3	-0.2501	0.31516475	0.509751
308854	Chrd12	-0.25029	0.04707628	0.129003
683603	Zscan2	-0.25034	0.07491362	0.185073
309527	Ch25h	-0.25086	0.0518706	0.138649
691092	Ncr3lg1	-0.25106	0.35380139	0.550772
292844	Siglec10	-0.25121	0.37758162	0.574594
29156	Capns1	-0.2513	1.08E-13	2.57E-12
298606	Slc25a34	-0.25135	0.10235868	0.232794
680130	Timp4	-0.25137	0.00591717	0.023855
25559	Abcc8	-0.25148	1.13E-04	7.44E-04
316237	Mad211bp	-0.25173	0.00822963	0.031498
102555635	LOC102555635	-0.25194	0.0032494	0.014392
311169	Rtn4r12	-0.25198	6.68E-12	1.32E-10
287867	Ccdc40	-0.25212	0.2256892	0.40926
654441	Cox6b2	-0.25212	0.2256892	0.40926
58982	Ncan	-0.25228	6.39E-05	4.44E-04

116490	Snai1	-0.25256	0.02272043	0.072335
108348108	LOC108348108	-0.25269	3.55E-09	5.12E-08
367181	Gad11	-0.25269	0.02158591	0.069596
25196	Inhbb	-0.2527	1.10E-04	7.25E-04
308107	Kptn	-0.25337	0.04343553	0.120975
362936	Zfp707	-0.25352	0.03132932	0.09336
170671	Lhx3	-0.25365	0.43550974	0.62938
308653	Nxf2	-0.25365	0.43550974	0.62938
252921	Tubg1	-0.25391	1.92E-18	6.38E-17
103692862	LOC103692862	-0.25408	0.25324812	0.441839
306617	Kbtbd11	-0.25433	5.35E-09	7.49E-08
293854	Srpk3	-0.25446	0.23765876	0.424797
299903	Slc30a8	-0.25464	0.08979773	0.211449
299616	Atp8b3	-0.2548	0.08497224	0.203713
300950	Spsb4	-0.25517	6.34E-07	6.51E-06
102548633	LOC102548633	-0.25518	0.15669439	0.316664
363823	Map6d1	-0.25524	0.05488348	0.145336
684314	Glyctk	-0.25538	0.00305842	0.013664
108352191	LOC108352191	-0.25541	0.09565644	0.221412
310463	Plch1	-0.25562	0.18575068	0.357299
499223	Trim30	-0.25683	0.12328271	0.267752
362175	RGD1563222	-0.25717	0.10403252	0.235393
361267	Akr1c1	-0.25737	0.23497819	0.42131
102552404	LOC102552404	-0.25746	0.76763394	0.877842
304353	Nxpe5l1	-0.25763	0.52585756	0.709626
679924	LOC679924	-0.25777	0.00360384	0.015717
308310	Tmc4	-0.25778	0.53030965	0.712806
171571	Grip2	-0.25908	0.06629993	0.16838
362113	Ptrh1	-0.25912	6.08E-04	0.003333
299687	Ascl4	-0.2593	0.00508448	0.021028
303179	Guk1	-0.25975	2.56E-22	1.04E-20
502125	Hist1h2ah	-0.25982	0.62016214	0.778319
85266	Prss12	-0.25994	5.45E-11	9.70E-10
100364673	LOC100364673	-0.26034	0.76522229	0.876506
24380	Gad2	-0.26034	0.76522229	0.876506
286916	Testin	-0.26034	0.67278653	0.815817
298577	Ubxn10	-0.26034	0.60498685	0.768004
299255	Kif4b	-0.26034	0.60498685	0.768004
299713	RGD1561102	-0.26034	0.60498685	0.768004
311491	Scp2d1	-0.26034	0.76522229	0.876506
315069	Fam135b	-0.26034	0.76522229	0.876506
366214	Nkx2-2	-0.26034	0.76522229	0.876506
683598	Umod1	-0.26034	0.55033362	0.730849
686030	LOC686030	-0.26034	0.60498685	0.768004
689756	Tnip3	-0.26034	0.76522229	0.876506
691516	I117c	-0.26034	0.76522229	0.876506
103691099	Thap8	-0.26034	0.34498999	0.541526
116681	Dlgap2	-0.26034	0.50428852	0.690948
290484	Dct	-0.26034	0.2474399	0.43614
291437	Lipg	-0.26034	0.42946869	0.624178
287647	Hoxb9	-0.2605	0.01843949	0.06132
301073	Hhat1	-0.26053	8.76E-12	1.72E-10
288181	Gpr15	-0.26062	0.57835909	0.746061
498695	Idnk	-0.26102	1.30E-04	8.43E-04
497926	Shisa6	-0.26138	0.09743443	0.224328
311218	Accs	-0.26185	0.01657404	0.056166

24906	LOC24906	-0.26191	0.00120305	0.006061
25561	Sycp3	-0.26207	0.52549729	0.709392
291683	Pkd212	-0.26236	0.35344948	0.550449
108349154	LOC108349154	-0.26239	0.3499366	0.546632
100363502	LOC100363502	-0.26308	5.46E-08	6.60E-07
102556096	LOC102556096	-0.2633	0.5592754	0.735188
54261	Kcnn1	-0.26339	1.71E-07	1.92E-06
24213	Atp1a3	-0.26369	4.16E-142	#####
499947	Cbln4	-0.2637	1.85E-05	1.44E-04
366951	Scrt1	-0.26393	2.02E-13	4.65E-12
499021	Pacrg	-0.26441	0.14035812	0.29333
287534	Rflnb	-0.2646	7.86E-05	5.36E-04
24457	Hoxb8	-0.26469	1.87E-05	1.45E-04
100361902	Zfp421	-0.26489	0.33316776	0.529206
314636	Tmprss9	-0.265	0.1673456	0.331402
690026	Hils1	-0.26524	0.34045814	0.537068
296313	Myl9	-0.26559	1.20E-07	1.38E-06
84574	Tgfb1i1	-0.26591	1.10E-12	2.36E-11
499747	Cysrt1	-0.26605	0.04772812	0.130245
315963	RGD1310507	-0.26612	0.21313795	0.393296
499794	RGD1561736	-0.26617	0.32100243	0.516124
295706	Prg3	-0.2663	0.08270969	0.199697
500993	RGD1563941	-0.26649	0.13879434	0.291149
314313	Rnf113a2	-0.26683	0.0088405	0.0334
100911511	LOC100911511	-0.2671	0.00185617	0.008873
304735	Tmem177	-0.2674	0.01132852	0.041049
25611	Otc	-0.2674	0.25741563	0.446411
29541	Nthl1	-0.26776	0.01896872	0.062762
24331	Cela1	-0.26795	0.12234911	0.266271
64160	Baspl	-0.26829	7.03E-40	5.38E-38
100360514	LOC100360514	-0.26837	0.33022708	0.526511
140924	I12rg	-0.26895	0.00856506	0.032572
293046	Mesp2	-0.269	0.18852928	0.361076
102554294	LOC102554294	-0.26931	0.64287856	0.79654
108350818	LOC108350818	-0.2701	0.72081258	0.847191
100359503	LOC100359503	-0.27033	0.87905139	0.944142
301348	Zap70	-0.27033	0.33583883	0.532494
315318	Krt80	-0.27033	0.33583883	0.532494
317470	Egfl6	-0.27033	0.4961668	0.682521
102546589	LOC102546589	-0.27055	0.25461065	0.443363
309665	Tmprss3	-0.27064	0.46063389	0.651911
286889	Pr18a5	-0.27094	0.61726175	0.776367
102551692	LOC102551692	-0.27104	0.72723934	0.851381
288562	Tfr2	-0.27107	0.25415146	0.442847
25116	Hsd11b1	-0.27148	0.02500817	0.078104
312226	RGD1565367	-0.27175	0.15235238	0.309962
100363484	Ddit41	-0.27206	0.0944555	0.219245
54231	Car2	-0.27219	1.76E-23	7.53E-22
64646	Hist3h2a	-0.2724	1.82E-09	2.71E-08
367620	MGC116197	-0.27256	2.72E-04	0.001646
24994	RT1-S2	-0.27271	1.15E-04	7.56E-04
308022	Mcoln3	-0.27294	0.54077218	0.722585
310230	Slc10a5	-0.27294	0.54077218	0.722585
81644	Opn1sw	-0.27294	0.54077218	0.722585
29131	Cartpt	-0.27294	0.02210417	0.070847
293451	Hs3st2	-0.27312	2.24E-24	1.00E-22

289780	Ddx56	-0.27358	3.60E-06	3.23E-05
406039	Olr1738	-0.27359	0.73521424	0.857345
64539	Ndufv3	-0.27363	1.42E-33	9.05E-32
302991	Tekt4	-0.27442	0.19325084	0.366982
687561	Anks4b	-0.27484	0.41681407	0.612612
687031	Ajap1	-0.27516	0.13249415	0.28175
100912683	LOC100912683	-0.27528	0.44847659	0.640417
100912526	Rt19	-0.27529	0.20537197	0.382487
301265	Pla2g7	-0.27552	9.17E-22	3.58E-20
293660	Rhod	-0.27563	0.40028563	0.597355
100909860	LOC100909860	-0.27575	0.00736481	0.028695
311548	Tt119	-0.2758	0.08746185	0.207488
408207	Mcpt813	-0.27614	0.33529563	0.531699
108349745	LOC108349745	-0.27642	0.10910265	0.243823
100362149	LOC100362149	-0.27657	0.00201293	0.009501
304578	Alkbh2	-0.2771	0.01893119	0.06266
102546698	LOC102546698	-0.27741	0.59330505	0.758228
29530	Amhr2	-0.27741	0.59330505	0.758228
307553	No14	-0.27741	0.35496244	0.551768
315091	Spatc1	-0.27741	0.59330505	0.758228
361228	Adtrp	-0.27741	0.59330505	0.758228
108353203	LOC108353203	-0.27741	0.28547279	0.479565
497756	Si	-0.27741	0.10912033	0.243834
80841	Fabp7	-0.27812	2.33E-06	2.17E-05
58826	Prg2	-0.27922	4.97E-05	3.54E-04
102555637	LOC102555637	-0.27938	8.90E-06	7.39E-05
293498	Asphd1	-0.27968	4.22E-07	4.45E-06
308492	Wdr62	-0.27976	0.4218103	0.617287
300117	Phf21b	-0.28004	0.15570174	0.315126
117184	Ctrl	-0.28024	0.26382144	0.454108
25461	Hrh2	-0.28024	0.26382144	0.454108
103690174	LOC103690174	-0.28053	0.67995369	0.82137
685668	LOC685668	-0.28093	3.04E-20	1.10E-18
24768	Scnn1g	-0.2811	0.48764922	0.67566
298607	Agmat	-0.2811	0.48764922	0.67566
503009	Cdk14	-0.28128	2.96E-04	0.001771
311800	Tmem203	-0.28157	6.66E-04	0.003622
117059	Calb2	-0.28157	1.21E-19	4.24E-18
103692182	LOC103692182	-0.28186	0.02987897	0.089868
103693254	LOC103693254	-0.28249	0.00854257	0.0325
306327	Tmem38a	-0.28253	6.06E-11	1.07E-09
171408	Dcxr	-0.28255	0.00134692	0.006691
685180	Stx19	-0.28269	0.47655246	0.666075
689105	Ackr1	-0.28308	3.21E-13	7.22E-12
60575	Napsa	-0.28361	0.06138771	0.158892
297814	Car8	-0.28383	1.73E-04	0.001089
108348124	NEWGENE_1562416	-0.28438	9.39E-24	4.08E-22
100911356	LOC100911356	-0.28478	1.01E-09	1.55E-08
316353	Creg2	-0.28488	0.22618365	0.409903
103693999	LOC103693999	-0.2849	0.46526862	0.65613
24323	Edn1	-0.28543	0.04265259	0.119126
24259	Chgb	-0.28547	1.43E-53	1.49E-51
291530	Ccdc68	-0.28555	0.00935612	0.035076
501048	Poc1a	-0.28555	0.13351281	0.283252
361129	Hapln4	-0.2859	1.56E-25	7.39E-24
294321	Slc37a1	-0.286	1.32E-11	2.53E-10

311123	Ttc30a1	-0.28624	0.06352559	0.163294
498891	Fam69c	-0.28633	6.00E-04	0.00329
114203	Sh2b2	-0.28653	0.09431777	0.219005
308318	Zfp978	-0.28657	0.10057736	0.229566
103693683	LOC103693683	-0.28667	0.10626633	0.239225
361744	Tmem252	-0.28681	0.10986787	0.245102
103690612	LOC103690612	-0.28681	0.65745948	0.803834
287884	Sectmlb	-0.28681	0.65745948	0.803834
295980	Dcdc5	-0.28681	0.65745948	0.803834
311720	Abhd16b	-0.28681	0.65745948	0.803834
316218	Gucalb	-0.28681	0.53059664	0.712965
360712	Morc1	-0.28681	0.53059664	0.712965
360858	Lhx4	-0.28681	0.65745948	0.803834
363538	Tekt5	-0.28681	0.65745948	0.803834
500576	Cplane2	-0.28681	0.65745948	0.803834
688285	Tmem235	-0.28681	0.44246815	0.635314
29461	Vgf	-0.28711	1.25E-23	5.37E-22
100360117	LOC100360117	-0.28724	0.12807134	0.274737
680216	Dna.jb3	-0.28753	0.00447122	0.018839
360864	RGD1309106	-0.28771	0.53409545	0.716025
312052	Steap2	-0.28823	4.65E-04	0.00263
295417	Slc44a3	-0.28831	0.28575794	0.479917
100362783	LOC100362783	-0.28863	0.51917064	0.703894
500340	Styk1	-0.28942	0.53708644	0.719275
65197	Slc2a5	-0.28954	0.02316446	0.073516
117023	Kcns1	-0.28977	5.20E-25	2.40E-23
100911837	LOC100911837	-0.28989	0.01304378	0.046149
282636	Impa2	-0.28997	2.10E-07	2.33E-06
299052	Aldoart2	-0.29034	0.64832727	0.800895
499462	Mfsd4b	-0.29048	0.01209233	0.043354
685826	Rprml	-0.29067	0.13006455	0.277731
689885	Klrg2	-0.29104	0.01217324	0.043603
503049	Acot5	-0.29138	0.27620929	0.468633
100911790	LOC100911790	-0.29157	0.63608674	0.791007
680020	Pcdhb8	-0.29161	0.02776899	0.084889
312086	Pon3	-0.29175	0.27328382	0.465328
100302372	LOC100302372	-0.29258	0.01415146	0.049325
84416	Smpx	-0.2926	1.11E-04	7.28E-04
683506	Fam83c	-0.29271	0.50207478	0.688757
24253	Cebpb	-0.29356	3.92E-05	2.86E-04
291085	Serpinb6a	-0.29358	6.77E-159	#####
691041	Mamstr	-0.29392	0.14576294	0.300699
103694873	LOC103694873	-0.29434	0.23360576	0.4196
498847	Pcdhga3	-0.29522	8.41E-06	7.01E-05
291965	Kctd19	-0.29539	0.23377238	0.419781
114246	Trpv6	-0.29545	0.0065436	0.026044
103692173	LOC103692173	-0.29611	1.69E-08	2.20E-07
293613	RGD1309350	-0.29687	0.58055703	0.747858
295360	Kcna10	-0.29687	0.58055703	0.747858
365657	Marveld2	-0.29687	0.09737499	0.224218
497895	Mrnip	-0.29687	0.02270792	0.072308
691083	LOC691083	-0.29687	0.33852603	0.53504
102552705	Pcdhgb4	-0.29704	0.04646831	0.127704
100909645	LOC100909645	-0.29709	0.00380309	0.01645
79216	Gdf10	-0.29754	0.07535589	0.185901
298857	Adgrf3	-0.29777	0.25484575	0.443488

289904	Mss51	-0.29782	0.03404088	0.099678
362035	Ndst4	-0.29826	7.87E-14	1.90E-12
301299	RGD1566137	-0.29828	0.54738382	0.728303
64035	Pyg1	-0.29853	2.51E-10	4.19E-09
301957	Efcab1	-0.29896	0.00739234	0.028761
308760	Rccd1	-0.2992	0.0960639	0.222166
292264	Myct1	-0.29934	0.18654485	0.358284
360555	Inca1	-0.29951	0.3412534	0.5381
100360582	Nt5c	-0.30015	0.06956863	0.174793
54355	Rassf5	-0.30031	2.89E-23	1.22E-21
315663	Exph5	-0.30038	0.17334425	0.340555
288358	Tssk1b	-0.30043	0.39681408	0.594036
100911625	LOC100911625	-0.3005	5.50E-38	4.06E-36
287644	Phosphol	-0.30091	2.51E-14	6.35E-13
311901	Lhx6	-0.30126	0.23661679	0.423571
500273	LOC500273	-0.3014	0.54246483	0.723882
405201	Olr1746	-0.30145	0.22489749	0.408116
308212	Dact2	-0.30181	1.01E-06	1.00E-05
367038	Ap1m2	-0.30216	0.63931541	0.793778
498827	RGD1562080	-0.30222	0.12198801	0.265759
361422	Cot11	-0.3024	2.49E-24	1.11E-22
302990	Tpsg1	-0.30314	0.45711193	0.648421
103691813	LOC103691813	-0.30341	0.24485283	0.433184
100911840	LOC100911840	-0.30344	0.00750067	0.0291
25341	Tnfrsf11b	-0.30398	0.0550927	0.145809
360881	Dusp23	-0.3044	0.001103	0.005623
353302	Kif15	-0.30504	0.05932145	0.154743
314443	Wdr25	-0.30539	4.81E-04	0.002709
102547160	LOC102547160	-0.30543	0.14782164	0.303271
24614	Orml	-0.30543	0.46929041	0.659702
252958	Ppp1r32	-0.30543	0.30613138	0.502047
300678	Cd3g	-0.30543	0.46929041	0.659702
499298	Cabp2	-0.30543	0.46929041	0.659702
24873	Vdr	-0.30543	0.21007058	0.388653
102551050	LOC102551050	-0.30548	0.59418117	0.75861
309888	Sim1	-0.3056	0.39720935	0.594394
24249	S100g	-0.30663	0.28217331	0.475701
498711	LOC498711	-0.30663	0.70948585	0.840256
289596	Corin	-0.30699	0.18098098	0.350603
311693	Cdh26	-0.30716	0.11960313	0.26161
24209	Ascl2	-0.30765	0.26053304	0.449973
310900	Mttp	-0.30765	0.4262713	0.621285
690810	Adat1	-0.30783	0.01116429	0.040569
680203	Pcdhb20	-0.30879	0.01527806	0.052693
103694864	LOC103694864	-0.30893	1.14E-05	9.24E-05
117022	I11r2	-0.30925	0.38891777	0.586038
316017	Als2c1	-0.30936	0.00362978	0.015812
364786	Itga8	-0.31015	7.01E-04	0.003789
361824	Chchd10	-0.31042	4.87E-44	4.05E-42
296118	Fam227b	-0.31044	0.11668785	0.256916
680322	LOC680322	-0.31089	0.64260432	0.796356
102551694	K11n	-0.31142	0.32690301	0.522567
299757	Nts	-0.31142	0.32690301	0.522567
367699	Sowahd	-0.31142	0.32690301	0.522567
290317	Sox7	-0.31163	0.09490361	0.220017
102549404	LOC102549404	-0.31208	1.44E-06	1.39E-05

681048	Grxcr2	-0.31214	1.20E-05	9.72E-05
84046	Sox11	-0.31218	0.02068922	0.06732
311168	Slc43a1	-0.31218	0.073115	0.181785
687071	Etnppl	-0.3122	0.20887791	0.38686
108349760	LOC108349760	-0.31222	0.12621715	0.271893
115771	Usp2	-0.31243	2.47E-05	1.88E-04
108348159	LOC108348159	-0.31256	0.28465464	0.478824
54300	Slc12a3	-0.31339	6.19E-05	4.31E-04
294228	RT1-S3	-0.31407	4.88E-18	1.59E-16
60417	Ecell	-0.31447	0.00678904	0.026836
362447	Clec2g	-0.31464	0.20060153	0.376511
691066	Tm4sf20	-0.31471	0.26901964	0.460413
313575	Heyl	-0.31478	4.60E-14	1.14E-12
102547011	LOC102547011	-0.31496	0.74241599	0.860684
313729	Errfil	-0.31506	6.91E-16	1.95E-14
367061	Olr1257	-0.31563	0.74339829	0.861298
24473	Htr1a	-0.31567	0.14117158	0.294449
306760	Dok3	-0.31599	0.02899039	0.087778
25264	Nmbr	-0.31601	0.35238788	0.54947
295144	Rxfp1	-0.31668	0.08118837	0.196922
307950	Map3k21	-0.31679	0.10180644	0.231843
306942	Scgn	-0.31735	0.04198626	0.117541
408222	Senp18	-0.31744	0.76790424	0.87773
25698	Ass1	-0.31787	4.64E-23	1.94E-21
100125372	Ces1f	-0.31795	0.48459032	0.672767
367747	Nudt10	-0.31816	0.02726204	0.083635
314148	Clec14a	-0.31859	4.97E-04	0.002789
108350519	LOC108350519	-0.31923	0.29539792	0.491727
362701	Capn13	-0.31923	0.45937072	0.650656
100911130	LOC100911130	-0.31923	0.13533442	0.285589
100911740	Mrln	-0.31923	0.63982512	0.794049
102549226	LOC102549226	-0.31923	0.74073068	0.860196
102553691	LOC102553691	-0.31923	0.74073068	0.860196
102554323	LOC102554323	-0.31923	0.32087669	0.516053
102555078	LOC102555078	-0.31923	0.63982512	0.794049
108348109	NEWGENE_1310561	-0.31923	0.02089843	0.067839
113936	Cpb2	-0.31923	0.74073068	0.860196
24559	Mos	-0.31923	0.5665694	0.736691
25154	Pgr	-0.31923	0.08555341	0.204643
288175	Tmem30c	-0.31923	0.74073068	0.860196
289399	Inava	-0.31923	0.63982512	0.794049
292310	Gpr31	-0.31923	0.5665694	0.736691
293878	Olr1768	-0.31923	0.74073068	0.860196
296352	Wfdc5	-0.31923	0.74073068	0.860196
297805	Sdr16c5	-0.31923	0.50811745	0.694595
301291	I117f	-0.31923	0.74073068	0.860196
303287	Fbxo39	-0.31923	0.5665694	0.736691
306608	Proz	-0.31923	0.74073068	0.860196
309142	Tesmin	-0.31923	0.74073068	0.860196
309641	Tcp11	-0.31923	0.5665694	0.736691
311793	Noxa1	-0.31923	0.63982512	0.794049
312745	Clec2h	-0.31923	0.74073068	0.860196
313421	C8b	-0.31923	0.74073068	0.860196
365228	Ffar3	-0.31923	0.74073068	0.860196
494233	Vomlr88	-0.31923	0.74073068	0.860196
497099	Xkr9	-0.31923	0.74073068	0.860196

497990	Ar15c	-0.31923	0.34933146	0.54609
498933	LOC498933	-0.31923	0.63982512	0.794049
500873	Fam83a	-0.31923	0.74073068	0.860196
502308	Lypd5	-0.31923	0.74073068	0.860196
502992	Ldlrad2	-0.31923	0.63982512	0.794049
63835	Ctla4	-0.31923	0.74073068	0.860196
680045	LOC680045	-0.31923	0.74073068	0.860196
683753	Prr32	-0.31923	0.38133348	0.578178
685900	Enthd1	-0.31923	0.63982512	0.794049
686013	LOC686013	-0.31923	0.1206638	0.263416
688340	LOC688340	-0.31923	0.5665694	0.736691
689230	LOC689230	-0.31923	0.74073068	0.860196
81506	Bst1	-0.31923	0.03002452	0.090192
103694000	NEWGENE_1582994	-0.31971	9.79E-09	1.32E-07
89808	Cx3c11	-0.32044	2.82E-04	0.001691
500578	Tmem51	-0.32047	3.36E-04	0.001981
363909	Caln1	-0.32144	0.00698781	0.027474
286904	Cyp4f4	-0.32149	0.07359842	0.182701
64865	Pcdh8	-0.32154	0.00839291	0.032033
108353290	LOC108353290	-0.32171	0.05342734	0.142073
102553962	LOC102553962	-0.32208	0.01540879	0.053038
25702	Pnlip	-0.32227	0.00112418	0.005709
103692534	LOC103692534	-0.32259	0.68173872	0.822379
64037	Slc22a4	-0.3227	0.18341188	0.353837
102553138	LOC102553138	-0.32292	0.5412446	0.722963
292450	Raet1e	-0.32313	0.57680648	0.744866
289280	Efcab2	-0.32319	0.0541582	0.143795
499349	Fgfbp3	-0.32329	5.39E-04	0.002992
293625	Pidd1	-0.3235	0.10763987	0.24129
290571	Zfp488	-0.32371	0.07629919	0.187572
100360868	H3f3c	-0.3239	3.30E-07	3.56E-06
362712	Drc1	-0.32412	0.02531041	0.078829
100912563	Insm1	-0.32456	0.15645044	0.316306
313495	Car9	-0.32483	0.3571628	0.554193
102554130	LOC102554130	-0.32538	0.34411603	0.540644
102548111	LOC102548111	-0.32554	0.49346693	0.680527
108348155	LOC108348155	-0.32573	0.03256757	0.096282
100909582	LOC100909582	-0.32625	0.12510976	0.270364
100910905	LOC100910905	-0.32661	0.13443418	0.284414
102552360	LOC102552360	-0.32746	0.31469986	0.509172
680344	Fam189a1	-0.32773	0.00882881	0.033369
309174	Tigd3	-0.32776	0.15316317	0.311113
65146	Pirb	-0.32792	0.30204397	0.499039
29629	Gria4	-0.328	2.95E-10	4.85E-09
29259	Sell	-0.32813	0.0934608	0.217679
103693605	LOC103693605	-0.32851	0.02003693	0.065624
362584	Col9a2	-0.32855	3.36E-07	3.60E-06
685267	LOC685267	-0.32867	0.3610523	0.557774
108353429	LOC108353429	-0.3288	0.63315114	0.789315
24599	Nos2	-0.32898	0.58307825	0.749762
362122	Morn5	-0.32913	0.28276187	0.476482
114508	Fbp2	-0.32958	0.04365924	0.121474
171044	Sstr3	-0.32988	0.37347695	0.569987
66025	Lpar3	-0.3302	6.33E-07	6.50E-06
25493	Nfkbia	-0.33064	9.51E-17	2.85E-15
691418	LOC691418	-0.33085	0.0809399	0.196445

287819	Ush1g	-0.33168	0.05810813	0.152329
310688	Sh2d2a	-0.33173	0.24259691	0.430432
314438	Degs2	-0.332	0.02069311	0.067322
102550241	LOC102550241	-0.33205	0.20879147	0.386737
500120	Stk31	-0.33291	0.26238364	0.452144
680191	LOC680191	-0.3335	0.69757513	0.834086
366455	Mpl	-0.33392	0.03225181	0.095541
102547047	LOC102547047	-0.33401	0.15784554	0.318214
171148	Slc6a5	-0.33434	0.44889692	0.640849
24645	Pgm1	-0.33434	2.14E-28	1.15E-26
300656	Trim29	-0.33434	0.44889692	0.640849
302554	Glod5	-0.33434	0.44889692	0.640849
499958	Linc00176	-0.33434	0.28420501	0.478195
684771	Cdca5	-0.33434	0.09040307	0.212349
690657	Tmem71	-0.33434	0.44889692	0.640849
301965	Tert	-0.33518	0.13940491	0.291979
296566	Clic3	-0.33521	1.25E-04	8.13E-04
100911237	LOC100911237	-0.33581	0.18912584	0.361927
117260	Nudt1	-0.33651	0.02421557	0.076254
100910848	LOC100910848	-0.33667	0.17390305	0.341231
299142	Syt16	-0.33699	0.00267164	0.012149
300242	Krt7	-0.33716	9.24E-06	7.64E-05
29182	Cdh22	-0.33773	0.07063197	0.176882
295117	Otol1	-0.33834	0.3352487	0.531713
300461	Dpy1912	-0.33834	0.49564061	0.682092
309082	Clrn3	-0.33834	0.49564061	0.682092
54225	Apob	-0.33834	0.49564061	0.682092
690871	Ndufaf8	-0.33896	8.94E-05	6.00E-04
307562	Dsg2	-0.33941	0.13692162	0.288045
295934	Chst1	-0.34004	4.16E-05	3.02E-04
64041	Birc5	-0.34019	0.04971172	0.134407
102556485	LOC102556485	-0.34021	0.12618444	0.271915
361812	Pnpla1	-0.34096	0.03269581	0.096556
102556043	LOC102556043	-0.34195	0.67182036	0.815164
361341	Ccbe1	-0.34195	0.04581304	0.126304
685732	Hoxa6	-0.34267	0.38909992	0.586174
303414	Epx	-0.34302	5.66E-04	0.003126
102551194	LOC102551194	-0.34322	0.00465501	0.019519
102552367	LOC102552367	-0.34388	0.35406628	0.551004
79146	Begain	-0.34405	1.78E-04	0.001121
499069	Nlrp4	-0.3441	0.57095878	0.740225
312897	Msc	-0.3446	0.00118	0.005961
24332	Cela2a	-0.34523	0.39924285	0.5965
293711	Hras1s5	-0.34523	0.55112662	0.731494
303395	RGD1310166	-0.34523	0.55112662	0.731494
317379	Magix	-0.34523	0.18257786	0.3528
362141	Slc38a11	-0.34523	0.55112662	0.731494
499565	LOC499565	-0.34523	0.55112662	0.731494
690020	LOC690020	-0.34523	0.55112662	0.731494
297025	Kel	-0.34523	0.11478147	0.253745
304071	Sim2	-0.34523	0.30187144	0.498841
362202	Epb42	-0.34553	0.04345209	0.120986
311443	Lrrn4	-0.34578	0.46057997	0.651884
114856	Duspl	-0.34607	2.65E-17	8.22E-16
691141	LOC691141	-0.34664	0.1230238	0.267342
499967	Cct811	-0.34665	0.34367243	0.540126

100910668	LOC100910668	-0.34688	0.40568643	0.6023
100365043	LOC100365043	-0.34707	0.28350742	0.477316
503487	Zfp92	-0.34725	0.19655263	0.371069
315907	Nrk	-0.34729	0.39626767	0.593544
170496	Lcn2	-0.34803	5.85E-06	5.03E-05
252922	Pzp	-0.34806	0.05839902	0.152881
680531	Sapcd2	-0.34867	0.06886816	0.173537
100134871	LOC100134871	-0.34888	5.20E-40	4.00E-38
246233	Macrodl	-0.34889	2.38E-06	2.21E-05
680077	LOC680077	-0.34928	0.32723475	0.522834
24953	Gcgr	-0.34961	0.07740995	0.189544
690606	Manscl	-0.34961	0.00523572	0.021583
100911622	LOC100911622	-0.34968	0.26935125	0.460732
89813	Pdk4	-0.3505	1.55E-04	9.88E-04
684623	Gpr52	-0.35094	0.08275225	0.199749
102553671	LOC102553671	-0.35094	0.17898887	0.347628
25410	Cebpe	-0.35094	0.43781614	0.631635
304666	Klf1	-0.35094	0.02819662	0.085838
364403	Blk	-0.35176	0.12531077	0.270645
102548734	LOC102548734	-0.35194	0.66227425	0.807233
553129	Pcdhgal	-0.35197	0.00412188	0.017605
501794	Vom2r60	-0.35232	0.08597811	0.205195
108353091	LOC108353091	-0.35245	0.43637675	0.630418
361004	Zswim8	-0.35271	1.29E-28	6.96E-27
108351936	LOC108351936	-0.35323	0.55261352	0.732804
296981	Atp6v0a4	-0.35332	4.90E-04	0.002755
102556157	LOC102556157	-0.35369	0.09429766	0.218985
303744	Myadml2	-0.35432	0.00403355	0.017267
266776	Cst12	-0.35472	0.0035148	0.015388
289586	Spata18	-0.35486	0.13877964	0.29115
296184	Ankef1	-0.35639	0.20739163	0.385175
404894	Olr34	-0.35639	0.20739163	0.385175
50872	Hpcal4	-0.35695	0.00586014	0.023681
286938	Gimap4	-0.35748	0.0308613	0.092182
300247	Krt75	-0.35784	0.01142707	0.041351
25756	Cpt1b	-0.35805	0.00240245	0.011084
405199	Olr1748	-0.35816	0.03141422	0.093584
89805	Angpt2	-0.35872	1.03E-05	8.48E-05
100360244	LOC100360244	-0.35893	0.27590912	0.468207
362998	Dnajc22	-0.35901	0.01061695	0.038944
103692939	LOC103692939	-0.35954	0.24579312	0.434202
289257	Spta1	-0.35981	0.00320047	0.014221
102554746	LOC102554746	-0.35988	0.61923495	0.777539
24278	Crygd	-0.35988	0.61923495	0.777539
24717	Rho	-0.35988	0.22351394	0.406321
260319	Brs3	-0.35988	0.61923495	0.777539
287106	Prss30	-0.35988	0.61923495	0.777539
298975	Scin	-0.35988	0.48219777	0.670888
302576	LOC302576	-0.35988	0.61923495	0.777539
361503	Eps811	-0.35988	0.22351394	0.406321
498693	Spata31d1	-0.35988	0.48219777	0.670888
502733	Ankrd7	-0.35988	0.61923495	0.777539
406168	Fkbp1	-0.35988	1.46E-08	1.93E-07
500200	Atoh8	-0.35988	0.05427665	0.143989
65162	Dio2	-0.35989	0.00165469	0.008002
691447	Ppplr3e	-0.36063	0.00600898	0.024149

287634	Eme1	-0.36073	0.39321156	0.590453
103689947	LOC103689947	-0.36097	6.02E-06	5.17E-05
368057	368057	-0.36141	0.54191721	0.723557
292760	Rin1	-0.36163	0.05614299	0.148115
312312	Gimap1	-0.36207	0.10627474	0.239216
314847	Best3	-0.3622	0.07313904	0.181798
192264	Ear11	-0.36271	0.06584338	0.167533
302995	Hagh1	-0.36351	6.84E-05	4.73E-04
307796	Plekhg4	-0.36452	0.0253079	0.078834
498400	Hormad2	-0.36452	0.11374916	0.252048
314396	Slc24a4	-0.36561	0.02061696	0.067177
102548396	LOC102548396	-0.36564	0.60775912	0.769958
687992	Saal1	-0.36627	0.6126248	0.773446
100363095	Henmt1	-0.36654	0.06058221	0.157235
83686	Cngb1	-0.36677	0.18424283	0.355044
286925	Cryba2	-0.36695	0.04151514	0.116461
498982	RGD1560020_prec	-0.36706	0.07036354	0.176279
408233	Spink4	-0.36726	0.12178779	0.265413
287609	Tspoap1	-0.36819	1.17E-04	7.64E-04
680115	Hacd1	-0.3684	0.00387261	0.016675
100911766	LOC100911766	-0.36853	1.07E-05	8.75E-05
363931	Gtpbp6	-0.36863	5.77E-07	5.97E-06
305392	Ncapg	-0.36883	0.01372567	0.048061
102556098	LOC102556098	-0.36884	0.00221617	0.01032
192259	P1b1	-0.36928	0.42606838	0.62118
25241	Aqp5	-0.36928	0.42606838	0.62118
297932	Atp6v0d2	-0.36928	0.42606838	0.62118
294557	Sh3rf3	-0.36976	0.0018742	0.008939
83567	Mchr1	-0.36978	0.02810896	0.08564
311832	Gfilb	-0.37018	0.23486896	0.421273
94272	Clic5	-0.37066	5.72E-07	5.93E-06
25626	Krt8	-0.37073	4.75E-04	0.00268
108352182	LOC108352182	-0.37077	0.19844262	0.373563
29517	Sgk1	-0.37131	1.05E-27	5.48E-26
498190	Ccdc60	-0.3717	0.31244811	0.507642
192207	Ubxn11	-0.37252	0.00561748	0.022831
494500	Gsta3	-0.37273	0.05425002	0.143959
29168	Ubd	-0.37282	0.09343091	0.217663
103689978	LOC103689978	-0.3729	0.31779696	0.512745
679552	Pjvk	-0.37318	0.27567951	0.467901
300682	Tmprss13	-0.37398	0.1769076	0.345489
299106	Rpl101	-0.37506	0.01733165	0.058359
314640	Tjp3	-0.37574	0.10736048	0.240947
317674	Fzd5	-0.37582	0.21351636	0.393728
497888	Fam71b	-0.37582	0.37907147	0.57617
171144	Slco4a1	-0.37582	0.12762692	0.274155
60399	Slpr5	-0.37582	0.28134805	0.474898
81819	Pax8	-0.37582	0.53395697	0.71589
103690014	LOC103690014	-0.37617	0.10990042	0.245146
24851	Tpml	-0.37682	9.27E-165	#####
690880	Fam131c	-0.37686	1.83E-12	3.80E-11
25551	Slc2a3	-0.37841	4.05E-07	4.28E-06
300219	Troap	-0.37918	0.10672083	0.239908
314321	Zc2hc1c	-0.37918	0.25401975	0.442698
365552	Rsph14	-0.38017	0.03168976	0.094199
689656	Aunip	-0.38064	0.33898984	0.535506

59329	Sik1	-0.38078	2.62E-04	0.001588
102553814	LOC102553814	-0.38135	0.02355836	0.074554
289797	Abca13	-0.38145	0.12480478	0.269934
50693	Itih3	-0.38145	0.12480478	0.269934
29733	Slpr1	-0.38237	1.06E-10	1.83E-09
365881	Ankrd35	-0.38265	5.46E-05	3.85E-04
300653	Tecta	-0.38296	0.11408463	0.252586
116669	Vwf	-0.38297	1.93E-21	7.43E-20
313507	Tal1	-0.38303	0.00118451	0.005982
24312	Dhfr	-0.38384	1.26E-07	1.46E-06
363251	Nhej1	-0.38389	0.00530699	0.021839
367152	Foxl2	-0.38433	0.46765828	0.658598
499570	Fabp12	-0.38433	0.46765828	0.658598
293061	Saxo2	-0.38433	0.30435663	0.501208
103691557	Rfxap11	-0.38433	3.25E-06	2.94E-05
502300	Rnf225	-0.38464	0.22634689	0.410081
100361292	Fam205a	-0.38544	0.46645913	0.65742
252854	Slc5a11	-0.38635	0.06337402	0.162948
363948	Cdh20	-0.38667	6.55E-05	4.54E-04
108353241	LOC108353241	-0.38687	0.7741981	0.882065
689679	LOC689679	-0.38696	2.54E-05	1.92E-04
498753	Hist1h2af	-0.38725	0.63358934	0.789551
304650	Misp3	-0.3881	0.018031	0.060267
361187	Asb5	-0.3881	0.17212064	0.33892
102550986	LOC102550986	-0.38922	0.00738316	0.028737
309178	Batf2	-0.38962	0.41358525	0.609418
683410	Ankrd33	-0.38962	0.24757397	0.436255
102552988	LOC102552988	-0.3902	0.32820199	0.523896
24693	Ptgs1	-0.39028	2.03E-05	1.57E-04
313512	Dmbx1	-0.39201	0.43100538	0.625171
102549812	LOC102549812	-0.3932	0.01396036	0.04874
102548568	LOC102548568	-0.39324	0.36823708	0.564251
171011	Kcng3	-0.39324	0.11912282	0.260769
287821	Otop3	-0.39324	0.36823708	0.564251
288752	B3gnt4	-0.39324	0.36823708	0.564251
313471	Dmrta2	-0.39324	0.36823708	0.564251
500017	Asb4	-0.39324	0.36823708	0.564251
100363350	Nxpe2	-0.39329	0.02260739	0.072048
25628	Nkx2-1	-0.39331	0.14601026	0.300916
114091	Fcnb	-0.39382	4.72E-06	4.14E-05
108351836	LOC108351836	-0.39479	0.6892943	0.827823
360900	Traf3ip3	-0.39496	0.09159807	0.214627
108348059	LOC108348059	-0.39496	0.09260727	0.216352
25332	Mgmt	-0.39497	8.42E-07	8.45E-06
309104	Ifitm6	-0.39528	0.00223544	0.010391
252833	Gdf7	-0.39551	0.38847242	0.585553
308800	Tyr	-0.39586	0.7056847	0.838727
307715	Irx6	-0.39602	0.61042853	0.772004
103689949	LOC103689949	-0.39641	0.27067456	0.462249
289032	Chit1	-0.39693	0.02417965	0.076204
24294	Cyp11b2	-0.39716	0.03112875	0.092835
300474	Adamts15	-0.39734	9.28E-13	2.00E-11
25225	Ubal1	-0.39758	0.59071889	0.755861
103689971	LOC103689971	-0.39896	0.57805227	0.745767
25134	Gnmt	-0.40002	0.04990234	0.13475
140942	Ddit4	-0.40163	9.17E-50	8.87E-48

29447	Msra	-0.40222	3.58E-08	4.44E-07
287699	Krt13	-0.40256	0.19792325	0.372807
360465	Ercc411	-0.40524	0.07607438	0.187188
500590	Tnfrsf9	-0.40539	0.1240988	0.268881
362510	Melk	-0.40577	0.11339423	0.251408
102551882	LOC102551882	-0.40594	0.26126904	0.450754
679581	LOC679581	-0.40625	0.6632627	0.808179
113910	Prnd	-0.40838	0.04033075	0.114012
501138	Ankar	-0.40856	0.02031225	0.066366
364814	Psm8	-0.40869	0.02428993	0.076425
102548076	LOC102548076	-0.40902	0.00395141	0.016961
688845	Zbtb32	-0.40946	0.40335543	0.600289
100910134	LOC100910134	-0.40973	0.18814087	0.360441
304325	Tmem184a	-0.41055	0.59555525	0.759244
290623	Cyp4f18	-0.41065	0.08348075	0.200998
287638	Dlx3	-0.41098	0.01957763	0.064352
367455	Lrg1	-0.41123	3.63E-08	4.49E-07
362619	Smpd13b	-0.41227	0.00305131	0.013651
364073	Ddx3y	-0.41229	0.00202799	0.00957
100189544	Nrn11	-0.41234	0.13242264	0.281692
103690326	LOC103690326	-0.41234	0.5947522	0.758881
103691555	LOC103691555	-0.41234	0.70680238	0.839035
103694084	LOC103694084	-0.41234	0.19256241	0.366259
103694166	LOC103694166	-0.41234	0.70680238	0.839035
108348813	LOC108348813	-0.41234	0.70680238	0.839035
116544	Pou2f3	-0.41234	0.51471219	0.700493
171449	Zg16	-0.41234	0.70680238	0.839035
24411	Grin2c	-0.41234	0.4002885	0.597312
25685	Igfbp1	-0.41234	0.70680238	0.839035
266612	Slc4a9	-0.41234	0.35684915	0.553887
287678	Krt23	-0.41234	0.70680238	0.839035
289101	Shcbp11	-0.41234	0.70680238	0.839035
291759	Dsc1	-0.41234	0.45186577	0.643616
291819	Car7	-0.41234	0.5947522	0.758881
29238	Drd3	-0.41234	0.5947522	0.758881
293357	Olr210	-0.41234	0.70680238	0.839035
293637	Phlda2	-0.41234	0.70680238	0.839035
294559	Oit3	-0.41234	0.70680238	0.839035
294807	Rxfp3	-0.41234	0.70680238	0.839035
296601	Mymk	-0.41234	0.5947522	0.758881
301100	Ooep	-0.41234	0.5947522	0.758881
310693	Cd51	-0.41234	0.28736291	0.48189
311470	Sel112	-0.41234	0.70680238	0.839035
315239	Muc1911	-0.41234	0.5947522	0.758881
315438	Deup1	-0.41234	0.70680238	0.839035
316124	LOC316124	-0.41234	0.70680238	0.839035
338418	Scgb3a1	-0.41234	0.70680238	0.839035
405014	Olr86	-0.41234	0.45186577	0.643616
494247	Vomlr86	-0.41234	0.79025378	0.891769
497197	Plcz1	-0.41234	0.70680238	0.839035
499579	Dnajc5b	-0.41234	0.45186577	0.643616
499640	Wdr49	-0.41234	0.70680238	0.839035
500927	Olr1877	-0.41234	0.5947522	0.758881
502372	Syce1	-0.41234	0.5947522	0.758881
64546	Il12b	-0.41234	0.70680238	0.839035
679584	Ccdc27	-0.41234	0.70680238	0.839035

679979	Cyp2ab1	-0.41234	0.70680238	0.839035
681145	I119	-0.41234	0.70680238	0.839035
685402	Gal3st2	-0.41234	0.70680238	0.839035
691496	Hist3h3	-0.41234	0.5947522	0.758881
103692171	LOC103692171	-0.41235	2.22E-07	2.45E-06
293302	Olr155	-0.41307	0.39940607	0.596556
298591	Igsf21	-0.41434	3.36E-05	2.49E-04
100362040	LOC100362040	-0.41457	0.57848162	0.746068
311358	Serinc4	-0.41478	0.14518837	0.299969
103692612	LOC103692612	-0.41521	0.58349148	0.750091
501061	Tmie	-0.41586	0.00170188	0.008212
691317	Draxin	-0.4162	0.08753394	0.207555
499985	RGD1565355	-0.41628	0.06929305	0.174262
24388	Gfi1	-0.41631	0.08482559	0.203413
192109	Pou3f3	-0.41652	0.4623274	0.652998
24582	Myh11	-0.41668	1.55E-24	7.01E-23
100911413	LOC100911413	-0.41707	1.28E-04	8.32E-04
306285	Syt15	-0.41707	3.86E-07	4.11E-06
29413	Adra1d	-0.41764	0.06944543	0.174576
64558	Fzd4	-0.41847	3.34E-13	7.49E-12
680025	Nxf5	-0.41848	0.48600599	0.674045
302388	RGD1560099	-0.4187	0.61809858	0.777009
295445	Dkk2	-0.41877	0.09846551	0.226046
304509	Cfap73	-0.4188	0.58456671	0.750764
316432	Ica11	-0.41884	2.37E-04	0.001454
102549465	LOC102549465	-0.42022	0.42000042	0.615443
404644	Mrgprb5	-0.4203	0.21892352	0.400557
100913063	Cd79a	-0.42123	0.00376595	0.016312
362848	Pram1	-0.42201	0.00839852	0.032048
65130	Cldn3	-0.42218	0.01473294	0.051063
297962	Srsf12	-0.42219	9.80E-04	0.005089
293522	Ahsp	-0.42225	3.85E-04	0.002234
286901	Brinp3	-0.42229	1.52E-04	9.71E-04
502584	Nudt17	-0.42261	0.06210271	0.160329
63887	Nmu	-0.42357	0.07374976	0.18291
102556347	LOC102556347	-0.42374	6.39E-18	2.07E-16
314772	Epyc	-0.42418	1.57E-04	0.001
102552378	LOC102552378	-0.42491	0.75110692	0.867065
298698	Angpt16	-0.42497	0.06224928	0.160555
288135	Retnlg	-0.42532	3.96E-04	0.002289
100361920	LOC100361920	-0.42615	0.69107512	0.829125
293990	Wnt8b	-0.42617	0.25155987	0.439658
108351878	LOC108351878	-0.42665	0.0013048	0.006512
306283	Anxa8	-0.42705	1.77E-18	5.88E-17
296197	Dstn11	-0.42764	0.01623681	0.055259
500944	Kdm4d12	-0.42936	0.17984906	0.348979
100911426	LOC100911426	-0.42975	0.81777924	0.908405
170568	Dmbt1	-0.42978	1.24E-05	9.98E-05
414787	RT1-M10-1	-0.43007	0.16345126	0.326817
103693118	LOC103693118	-0.43008	0.30945313	0.504497
100912498	LOC100912498	-0.43008	4.46E-12	8.98E-11
102550306	LOC102550306	-0.43027	0.30934813	0.504499
25421	Crybb1	-0.43027	0.04203408	0.11764
290409	Olfm4	-0.43027	0.1505258	0.307164
365844	Nup2101	-0.43027	0.07827438	0.191218
103690486	LOC103690486	-0.43033	0.27234297	0.464224

498194	Mn1	-0.43039	0.12273356	0.266955
366998	Nfe2	-0.43224	0.01759575	0.059082
108348160	NEWGENE_2134	-0.43242	0.07510236	0.185467
102553014	LOC102553014	-0.43279	0.57114848	0.740421
299567	Pglyrp2	-0.43335	0.44576786	0.638463
24438	Hist1h1t	-0.43341	0.34486138	0.541413
102552387	LOC102552387	-0.43471	0.52415216	0.708027
499027	RGD1560718	-0.43501	0.50986095	0.696129
366069	Myo3b	-0.43543	0.19985142	0.375436
690076	Cd300e	-0.43626	0.19183122	0.365233
360457	Vegfd	-0.4364	0.04882926	0.13268
25722	Scn4a	-0.43657	1.95E-06	1.84E-05
114215	Ins13	-0.43788	0.38608825	0.583066
25163	Cdkn2a	-0.43931	0.01669679	0.056532
108348153	LOC108348153	-0.43953	2.12E-05	1.63E-04
500300	Depp1	-0.43973	2.47E-08	3.14E-07
361619	Hbb-b1	-0.44068	1.79E-17	5.61E-16
288275	Hunk	-0.44091	0.24326708	0.43144
295160	Mnd1	-0.44091	0.24326708	0.43144
308163	Ccr6	-0.44091	0.46052252	0.651851
108352632	LOC108352632	-0.44096	0.13897266	0.291426
100911585	LOC100911585	-0.441	0.14425064	0.298615
502618	LOC502618	-0.44134	0.09489365	0.220021
103689931	LOC103689931	-0.44141	5.11E-31	3.00E-29
103690123	Hoxa2	-0.44316	0.1021542	0.232385
405012	Olr89	-0.44327	0.61855145	0.777271
500562	Lin28a	-0.44349	0.15767003	0.317961
108353238	LOC108353238	-0.44371	0.11254643	0.250052
499422	Gstt3	-0.44377	3.24E-36	2.30E-34
108348879	LOC108348879	-0.44477	0.43463137	0.628778
690276	LOC690276	-0.44477	0.01908458	0.063003
690919	Nrg4	-0.44477	0.43463137	0.628778
29397	Cc111	-0.44523	0.08886342	0.209845
690593	Vom2r13	-0.44537	0.3456524	0.542164
108352109	LOC108352109	-0.44609	0.00151224	0.007408
497195	Rnase17	-0.44799	0.18851064	0.361077
103694210	LOC103694210	-0.44834	0.00112222	0.005701
24440	Hbb	-0.44851	1.82E-140	#####
108348043	NEWGENE_2812	-0.44916	0.22458807	0.407748
363085	Car12	-0.44918	0.02636822	0.081365
366262	Rbm38	-0.45051	1.44E-07	1.64E-06
25085	Th	-0.45067	0.05405389	0.143558
301112	Crb3	-0.45102	0.10481556	0.236602
100359421	LOC100359421	-0.45238	0.04525483	0.125109
312689	M6pr	-0.45485	3.03E-36	2.16E-34
102548162	LOC102548162	-0.45674	0.12523965	0.270552
290485	Cldn10	-0.45674	0.03969267	0.112609
315034	Fbxo43	-0.45674	0.49293763	0.680265
683422	LOC683422	-0.45674	0.49293763	0.680265
683980	Krtcap3	-0.45674	0.49293763	0.680265
84405	I112a	-0.45674	0.49293763	0.680265
116547	S100a8	-0.45674	1.10E-14	2.85E-13
103693260	LOC103693260	-0.45677	0.03002802	0.090188
103690234	LOC103690234	-0.45706	0.03154975	0.093885
102553828	LOC102553828	-0.45845	0.18344483	0.353829
25269	Pvalb	-0.45852	6.62E-132	#####

288449	Katnal1	-0.45861	2.91E-05	2.19E-04
302884	MGC105649	-0.45864	0.04310775	0.120133
102554611	LOC102554611	-0.45916	0.50207953	0.688714
100366054	LOC100366054	-0.45942	0.45763386	0.648919
102550455	LOC102550455	-0.4598	0.05605813	0.147932
171105	Lnpep	-0.45993	1.12E-27	5.86E-26
113882	Hemgn	-0.46243	1.82E-04	0.001141
691362	Mansc4	-0.46297	0.25963922	0.449122
408212	Cpa5	-0.46319	0.14953908	0.30574
312331	Nfe213	-0.46409	0.01998285	0.065492
102553670	LOC102553670	-0.46527	0.05287229	0.140892
25681	Col10a1	-0.46535	6.17E-06	5.27E-05
360816	Sds1	-0.46546	0.00672298	0.026608
102552055	LOC102552055	-0.46582	0.02842205	0.0864
102549500	LOC102549500	-0.46625	0.11031385	0.245924
103690128	LOC103690128	-0.46805	0.17343365	0.34066
309110	Gatd1	-0.46877	1.03E-08	1.39E-07
679158	Sox3	-0.46881	0.00652848	0.025995
24415	Grm2	-0.46949	0.09907371	0.227004
108351569	LOC108351569	-0.47033	0.65596507	0.802831
100362981	LOC100362981	-0.47079	0.42328112	0.618679
500085	Svopl	-0.47079	0.01972087	0.064756
100360449	LOC100360449	-0.47173	1.11E-06	1.09E-05
100911399	LOC100911399	-0.47234	0.39315099	0.590455
108351807	LOC108351807	-0.47264	0.49438264	0.681149
303914	Ildr1	-0.47264	0.10724877	0.240839
309649	Rab44	-0.47264	0.10724877	0.240839
363796	Iqcg	-0.47264	0.10724877	0.240839
100360779	LOC100360779	-0.47276	0.29939105	0.49599
289395	Cr2	-0.47297	0.2855155	0.479595
498659	RatNP-3b	-0.47432	7.33E-07	7.46E-06
688386	Cox7a212	-0.47446	4.08E-21	1.55E-19
266775	Serp1b10	-0.47535	0.05821427	0.152544
316614	Asb18	-0.47577	0.01684521	0.056877
690528	Pou2af1	-0.47577	0.01684521	0.056877
365398	Slc22a12	-0.47843	0.07741598	0.189534
103689986	LOC103689986	-0.47875	3.11E-15	8.43E-14
140584	Wnt11	-0.47918	0.00596341	0.024006
108351821	LOC108351821	-0.47946	0.56628041	0.736567
100910944	LOC100910944	-0.4822	5.70E-10	9.07E-09
102546601	LOC102546601	-0.48273	0.56496242	0.735858
24261	Chrnbl	-0.48273	0.01765418	0.059236
24362	Fbp1	-0.48273	0.4157248	0.611837
246358	Ppbp	-0.48273	0.56496242	0.735858
24867	Smr3b	-0.48273	0.4157248	0.611837
25223	Tspyl	-0.48273	0.56496242	0.735858
288053	Ropn1	-0.48273	0.56496242	0.735858
289023	Kiss1	-0.48273	0.56496242	0.735858
302425	Awat2	-0.48273	0.56496242	0.735858
317533	Srsf8	-0.48273	0.4157248	0.611837
365337	Olr202	-0.48273	0.56496242	0.735858
500997	RGD1562914	-0.48273	0.56496242	0.735858
502858	Gp9	-0.48273	0.56496242	0.735858
66017	Fgf20	-0.48273	0.4157248	0.611837
102555809	LOC102555809	-0.48445	0.39520386	0.592464
63849	Mmp8	-0.48472	5.14E-06	4.47E-05

108352537	LOC108352537	-0.48546	0.14013525	0.293025
266770	Soat2	-0.48627	0.37593311	0.572726
315761	Cilp	-0.48651	2.69E-06	2.48E-05
689029	Tm6sf2	-0.48711	0.07478788	0.184835
25329	Lhb	-0.48763	0.09174277	0.214886
360849	Kif14	-0.48829	0.11295538	0.250756
498087	Stfa212	-0.48923	0.04122469	0.115851
297594	Cdca3	-0.49035	0.00652051	0.025985
365466	Cpn1	-0.49035	0.01847662	0.061422
361142	Galnt16	-0.49043	0.26101923	0.450527
114111	Vegfc	-0.49157	0.01136558	0.041175
25351	Slc2a2	-0.49207	0.2177646	0.399184
308587	Ntn5	-0.49207	0.2177646	0.399184
314996	Klhl38	-0.49283	0.0398074	0.112851
360504	Hba2	-0.49311	1.29E-213	#####
290561	Tnnc1	-0.49337	2.98E-05	2.23E-04
103693838	NEWGENE_621802	-0.49363	1.16E-30	6.71E-29
691903	Ssx1	-0.49412	0.07015219	0.175958
288907	Podn11	-0.49511	0.1472355	0.302786
295246	Dcst1	-0.49569	0.24828156	0.437057
24174	Adra2b	-0.49663	0.12199212	0.265707
498735	Fam217a	-0.49688	0.15269852	0.310467
85257	Cnga3	-0.4974	0.35666394	0.553735
362218	Rnf24	-0.4985	0.03166754	0.094162
499465	Mett124	-0.49981	0.19043647	0.36334
100359633	LOC100359633	-0.50001	0.58060662	0.747796
689064	LOC689064	-0.50016	9.76E-33	6.09E-31
301482	Abca12	-0.50088	0.09557636	0.22128
102548682	LOC102548682	-0.50189	0.07105378	0.177751
502083	Cldn24	-0.50381	0.29564167	0.49209
24336	Epor	-0.50427	0.09621815	0.222226
294094	Lipk	-0.50427	0.23949436	0.426896
681056	Erfe	-0.50427	0.23949436	0.426896
494021	Lmcd1	-0.50592	1.62E-04	0.001026
102552838	Mclr	-0.50632	0.16695047	0.330671
171078	Mlxipl	-0.50632	0.16695047	0.330671
24751	RT1-01	-0.50659	0.01646475	0.055885
100361018	LOC100361018	-0.50742	0.28901928	0.483901
100912163	LOC100912163	-0.50744	2.12E-09	3.13E-08
497101	Xkrx	-0.50917	0.06652896	0.168827
29135	Hpn	-0.50951	0.03305087	0.097348
367298	Slc23a3	-0.50978	0.18720001	0.359217
81668	Gnrhr	-0.51014	0.51009284	0.696396
102546495	LOC102546495	-0.51018	0.57360803	0.742422
108352876	LOC108352876	-0.51018	0.57360803	0.742422
102557111	LOC102557111	-0.51111	0.06594468	0.167657
362638	Cda	-0.51169	0.04785973	0.130492
100362422	Efcab13	-0.51188	0.4680268	0.658776
102552731	LOC102552731	-0.51188	0.4680268	0.658776
117554	Pnliprp2	-0.51188	0.4680268	0.658776
24311	Ddc	-0.51188	0.07547305	0.186117
245919	Impg2	-0.51188	0.20877615	0.386822
282829	Tac4	-0.51188	0.20877615	0.386822
287241	Olr1387	-0.51188	0.60785154	0.769972
293841	Xlr4a	-0.51188	0.4680268	0.658776
308429	Pinlyp	-0.51188	0.4680268	0.658776

312720	Akap3	-0.51188	0.20877615	0.386822
498133	Tex26	-0.51188	0.20877615	0.386822
500363	Tuba3b	-0.51188	0.4680268	0.658776
691161	Sh2d6	-0.51188	0.20877615	0.386822
25748	Alas2	-0.51298	2.87E-10	4.74E-09
286995	Defa5	-0.51476	3.43E-09	4.95E-08
54305	Sstr2	-0.51515	0.00150729	0.007389
309433	Sec31b	-0.51577	0.01735709	0.058435
298961	Agr2	-0.5159	0.36440521	0.560589
361968	Tmem144	-0.51668	0.03184703	0.094578
103693711	LOC103693711	-0.51721	0.29827365	0.494957
303909	Stfa2	-0.51737	0.26715917	0.458383
292393	RGD1561667	-0.51772	0.56974139	0.739301
246138	Ly6i	-0.51877	0.68742977	0.826574
303542	Ghdc	-0.51937	2.19E-09	3.23E-08
100912904	LOC100912904	-0.52012	0.00111269	0.005665
103690085	LOC103690085	-0.52057	0.25560952	0.444452
302373	Gpr174	-0.52087	0.26350216	0.453702
307253	Katnal2	-0.52087	0.11380817	0.252149
408199	Sucnr1	-0.52087	0.26350216	0.453702
497946	Spns3	-0.52087	0.26350216	0.453702
316729	Fam114a111	-0.52117	0.02054552	0.066967
192245	Hspb6	-0.52158	3.18E-21	1.21E-19
305476	RGD1308775	-0.52166	0.0199276	0.065345
679990	Pgm5	-0.52294	1.52E-04	9.71E-04
171125	Ptprh	-0.52338	0.16001327	0.321699
498604	Fam129c	-0.52363	5.43E-04	0.003013
102554479	LOC102554479	-0.52442	0.12073371	0.263508
25123	Tagln	-0.52601	1.57E-29	8.67E-28
361818	Rsph1	-0.52656	0.00796459	0.030699
24464	Hp	-0.52723	1.07E-04	7.07E-04
108350052	NEWGENE_1592020	-0.52782	0.39486244	0.592138
29243	F10	-0.52782	0.08881814	0.209791
303687	Evp1	-0.52782	4.51E-04	0.002565
317416	LOC317416	-0.52782	0.22887616	0.413327
259244	LOC259244	-0.53022	0.09766296	0.224718
310483	Mlf1	-0.53074	1.32E-07	1.51E-06
311833	Ak8	-0.53074	0.07860343	0.191874
689173	LOC689173	-0.53096	0.21705212	0.398434
102549189	LOC102549189	-0.53099	0.76988986	0.879103
299193	Acot6	-0.53129	0.15918943	0.320448
94195	S100a9	-0.53156	9.51E-39	7.16E-37
24307	Cyp4b1	-0.53164	0.02948081	0.08893
679875	Mage12	-0.53164	0.02948081	0.08893
102551447	LOC102551447	-0.53263	0.33075209	0.527039
499702	Synpo2	-0.53314	8.44E-10	1.31E-08
302192	LOC302192	-0.53363	0.00465216	0.01952
29469	Lbp	-0.53417	7.18E-06	6.05E-05
108348173	LOC108348173	-0.53462	0.0155211	0.053386
304965	Fcrla	-0.53497	7.33E-04	0.003945
690237	Pot1b	-0.53667	3.05E-08	3.82E-07
295620	Upp2	-0.53689	0.31787778	0.512832
81514	Lrrn3	-0.53769	3.21E-73	4.56E-71
315162	Mei1	-0.53788	0.17447814	0.342007
498267	Dusp27	-0.53788	0.09628283	0.222348
681211	Mogat2	-0.5387	1.00E-17	3.21E-16

108350053	LOC108350053	-0.5388	0.26772155	0.45881
114519	Nfil3	-0.54055	1.80E-06	1.72E-05
24397	Glra2	-0.54084	0.35677828	0.553867
29161	Cav3	-0.54113	0.0079288	0.030586
683408	LOC683408	-0.54124	0.276958	0.469527
311331	Spint1	-0.54254	6.84E-04	0.003704
315465	Ccdc151	-0.54274	0.075323	0.185892
306330	Klf2	-0.54287	2.03E-13	4.68E-12
246297	Myocd	-0.54306	0.14358667	0.298017
290567	Chat	-0.54334	0.21706778	0.398425
25632	Hba1	-0.54386	0	0
171291	Kif6	-0.54479	0.28979793	0.484885
305078	Lamb3	-0.54479	0.28979793	0.484885
100360919	Igll1	-0.54479	0.13438359	0.284418
102555578	LOC102555578	-0.54479	0.61953396	0.777735
84020	Kcnq1	-0.54479	0.13438359	0.284418
29300	Gata6	-0.54597	0.32904806	0.524807
290257	Ctsg	-0.54686	0.00198787	0.009411
300260	Sp7	-0.54687	0.04604671	0.126765
302719	RGD1563378	-0.54732	0.09779449	0.224912
502684	LOC502684	-0.5475	0.11828612	0.259475
102549173	LOC102549173	-0.54846	0.05956096	0.155197
103690120	LOC103690120	-0.54854	0.25885309	0.448087
108353258	LOC108353258	-0.54985	0.25070711	0.438671
117048	Cdh17	-0.54985	0.0466469	0.127973
287305	RGD1308564	-0.54985	0.25070711	0.438671
291005	Gadd45g	-0.54985	8.16E-11	1.42E-09
102549738	LOC102549738	-0.55202	0.64379076	0.797359
365864	Tuft1	-0.55227	2.01E-09	2.97E-08
679818	LOC679818	-0.55332	0.05076517	0.136403
108349816	LOC108349816	-0.5537	0.21787313	0.399307
292794	Ffar2	-0.5537	0.21787313	0.399307
301118	Acer1	-0.55673	0.19002744	0.362942
366915	Snx31	-0.55673	0.0638359	0.163804
367785	Asb9	-0.55673	0.19002744	0.362942
314248	RGD1562381	-0.55698	0.53663533	0.718823
306871	Dsp	-0.55737	3.07E-11	5.66E-10
286958	Np4	-0.5582	2.34E-10	3.93E-09
100302373	Ctxn2	-0.55842	0.01847523	0.061428
63878	Stc2	-0.55919	0.16623578	0.329616
289138	Tp53i3	-0.55976	8.35E-26	4.03E-24
299920	Lrrc6	-0.56121	0.14578722	0.3007
83683	Gpr6	-0.56121	0.14578722	0.3007
100910979	LOC100910979	-0.56187	0.02388266	0.075418
102553065	LOC102553065	-0.56361	0.54783611	0.728599
500448	RGD1560723	-0.56448	0.00219503	0.010239
303575	Kif18b	-0.56478	0.00539396	0.022116
499093	Zfp108	-0.56491	0.05727648	0.150439
108352875	LOC108352875	-0.56504	0.252215	0.440642
502617	RGD1564854	-0.56648	0.37819832	0.575257
81526	Nov	-0.56714	1.90E-15	5.22E-14
688698	Ckmt2	-0.56806	1.45E-08	1.92E-07
310218	Car1	-0.56846	0.00162133	0.007859
298006	Cc121	-0.56869	1.20E-06	1.17E-05
108352003	LOC108352003	-0.57271	0.65936742	0.805029
170573	Slc38a4	-0.57281	0.02674513	0.082294

292168	Mcoln2	-0.57281	0.02674513	0.082294
680316	LOC680316	-0.57369	0.46136688	0.652416
100364435	LOC100364435	-0.5751	0.41929784	0.614792
304816	Lmod1	-0.57556	7.94E-07	8.01E-06
103693608	LOC103693608	-0.57608	0.0014305	0.007064
500910	Tnfrsf13c	-0.57672	0.05620358	0.148213
60351	Nr1h4	-0.57798	0.01147078	0.041469
291582	Slc27a6	-0.57853	1.87E-09	2.79E-08
100909464	LOC100909464	-0.5793	0.20564158	0.382914
108348179	LOC108348179	-0.57947	0.56010582	0.735569
497963	LOC497963	-0.58189	0.26126841	0.450793
100359586	LOC100359586	-0.58227	0.6551242	0.802963
100910555	LOC100910555	-0.58227	0.52760546	0.710952
102552318	LOC102552318	-0.58227	0.6551242	0.802963
102552911	LOC102552911	-0.58227	0.52760546	0.710952
102555723	Pgbd2	-0.58227	0.15781831	0.318193
103693361	LOC103693361	-0.58227	0.6551242	0.802963
103694115	LOC103694115	-0.58227	0.6551242	0.802963
108351077	LOC108351077	-0.58227	0.43915014	0.632696
108352407	LOC108352407	-0.58227	0.6551242	0.802963
117522	Xpnp2	-0.58227	0.20647018	0.384006
24476	Iapp	-0.58227	1.28E-17	4.06E-16
25229	Chrm1	-0.58227	0.43915014	0.632696
25419	Crp	-0.58227	0.43915014	0.632696
25517	Pou1f1	-0.58227	0.6551242	0.802963
266730	Slc17a3	-0.58227	0.52760546	0.710952
266997	Rln3	-0.58227	0.6551242	0.802963
286997	Mapk15	-0.58227	0.13850342	0.290634
287679	Krt40	-0.58227	0.6551242	0.802963
290372	Fam216b	-0.58227	0.6551242	0.802963
290467	Slitrk6	-0.58227	0.37169119	0.568195
291823	Cmt1	-0.58227	0.43915014	0.632696
29471	Npy4r	-0.58227	0.6551242	0.802963
296351	Pabpc11	-0.58227	0.6551242	0.802963
296706	Lhx2	-0.58227	0.6551242	0.802963
300375	Mbd312	-0.58227	0.6551242	0.802963
300826	Khdc3	-0.58227	0.52760546	0.710952
301034	Ltf	-0.58227	0.6551242	0.802963
303528	Krt34	-0.58227	0.6551242	0.802963
308766	Mespl	-0.58227	0.6551242	0.802963
309095	Nkx6-2	-0.58227	0.52760546	0.710952
309227	Glyat11	-0.58227	0.6551242	0.802963
309900	Tulp1	-0.58227	0.6551242	0.802963
311337	Ltk	-0.58227	0.27392127	0.465996
314431	Spaca5	-0.58227	0.43915014	0.632696
314649	Slpr4	-0.58227	0.04577063	0.126224
314771	Kera	-0.58227	0.43915014	0.632696
353251	Prss21	-0.58227	0.6551242	0.802963
361902	Mroh2b	-0.58227	0.6551242	0.802963
361964	Zbbx	-0.58227	0.6551242	0.802963
362052	Clca2	-0.58227	0.52760546	0.710952
363686	Clql1	-0.58227	0.43915014	0.632696
364302	Rnase12	-0.58227	0.6551242	0.802963
494204	Ly49i4	-0.58227	0.6551242	0.802963
498352	Pdc12	-0.58227	0.52760546	0.710952
498834	Myo7b	-0.58227	0.18025669	0.34952

498870	Tex43	-0.58227	0.37169119	0.568195
499879	Duoxa2	-0.58227	0.6551242	0.802963
500223	Mlap	-0.58227	0.6551242	0.802963
501391	LOC501391	-0.58227	0.6551242	0.802963
54314	Tpo	-0.58227	0.6551242	0.802963
60414	Rhd	-0.58227	0.00219779	0.010249
65029	Aoc1	-0.58227	0.6551242	0.802963
685958	Cc126	-0.58227	0.6551242	0.802963
690862	LOC690862	-0.58227	0.31550767	0.510089
691259	Lypd8	-0.58227	0.6551242	0.802963
84604	Hamp	-0.58227	0.52760546	0.710952
103692761	LOC103692761	-0.58227	0.31791535	0.512741
170819	I124	-0.58227	0.31791535	0.512741
25360	Tshr	-0.58227	0.23730963	0.424372
295953	Rag2	-0.58227	0.10730233	0.240902
300051	Slc39a4	-0.58227	0.31791535	0.512741
499306	Majin	-0.58227	0.31791535	0.512741
499643	LOC499643	-0.58227	0.31791535	0.512741
679534	RGD1560034	-0.58227	0.31791535	0.512741
499282	Cfap46	-0.58291	0.0832763	0.200632
102550584	LOC102550584	-0.58466	0.65285836	0.80207
102553424	Bhmg1	-0.58467	0.52573111	0.709506
100361431	Sycc11	-0.58603	0.42136667	0.616875
287701	Krt14	-0.58609	0.28469304	0.478804
140930	Faim	-0.58817	1.19E-13	2.81E-12
25033	Sstr1	-0.58903	0.00703265	0.027616
100912426	LOC100912426	-0.58939	0.0092794	0.034843
363618	Hs3st3a1	-0.59013	0.47889426	0.667438
102552640	LOC102552640	-0.59027	3.31E-15	8.92E-14
85253	Plg	-0.59167	0.02169642	0.069834
24299	Cyp2a3	-0.59367	2.89E-05	2.17E-04
291854	Adgrg3	-0.59395	0.00346365	0.015206
117054	Cd52	-0.59521	0.04904095	0.13316
690142	LOC690142	-0.59594	0.22537406	0.408786
301127	Znrf4	-0.59677	0.0622965	0.160633
501097	Mdfi	-0.5977	0.01047905	0.038543
689932	I123r	-0.59821	0.57304676	0.742174
295247	Dcst2	-0.60138	0.35460884	0.551488
689588	Oaz3	-0.60138	0.1017562	0.231756
102555091	LOC102555091	-0.60241	0.51037159	0.696626
679997	RGD1565617	-0.60338	0.28944734	0.484532
688691	LOC688691	-0.60389	0.27463718	0.466756
25512	Phex	-0.60396	0.02916553	0.08821
291675	Mzb1	-0.60499	0.13111116	0.279495
103690045	NEWGENE_1310139	-0.60663	1.20E-09	1.84E-08
102556703	LOC102556703	-0.60684	0.13755036	0.288985
316088	Klhl40	-0.60736	4.11E-04	0.002369
102547093	LOC102547093	-0.6081	0.02946813	0.088927
108348062	LOC108348062	-0.60816	4.97E-14	1.22E-12
474169	Rnase2	-0.61056	0.03555682	0.102993
405013	Olr88	-0.61253	0.14024607	0.293128
56765	Plvap	-0.61269	9.39E-21	3.48E-19
613225	Defa11	-0.61278	0.16446156	0.328492
24163	Acr	-0.6147	0.19692335	0.371548
288045	Zdhhc19	-0.61606	7.75E-04	0.004145
58981	Kcnab3	-0.6167	0.00518547	0.021408

29395	Hmgb2	-0.6177	5.79E-13	1.27E-11
691228	LOC691228	-0.61772	0.06357844	0.163364
102546903	LOC102546903	-0.61785	0.55463014	0.734302
100188984	Zfp951	-0.61815	0.10951541	0.244516
108350558	LOC108350558	-0.61823	0.00912852	0.034358
308596	Ush1c	-0.6188	0.22327355	0.40602
362249	Cpne1	-0.61952	0.02089965	0.067831
296358	Matn4	-0.62187	0.10335069	0.234379
688228	My14	-0.62246	0.00901391	0.033994
684509	LOC684509	-0.62349	0.817301	0.908192
83623	Spag4	-0.62351	0.01484435	0.051383
689453	LOC689453	-0.62357	0.43375301	0.6282
266705	Ppp1r17	-0.62399	0.22603943	0.409719
114496	Bik	-0.62534	0.25704353	0.445989
367745	Dgkk	-0.62534	0.25704353	0.445989
85431	Nox4	-0.62534	0.04963244	0.134307
65207	Rhag	-0.62647	0.00302243	0.013541
365313	Xrra1	-0.62732	0.10885169	0.243291
108353287	LOC108353287	-0.62775	0.5650856	0.735766
305104	Col9a1	-0.62938	4.14E-14	1.03E-12
293992	Pax2	-0.6319	0.40467509	0.601689
317395	Spin2a	-0.63336	0.06837483	0.172545
316940	Spetex-2F	-0.63422	0.62349244	0.781314
289243	Mptx1	-0.63474	0.29726813	0.493891
29171	Aqp7	-0.63474	0.29726813	0.493891
684979	Hs3st6	-0.63474	0.29726813	0.493891
108352354	LOC108352354	-0.63507	0.22370183	0.406566
681896	Slc25a18	-0.63591	3.86E-06	3.45E-05
100912538	LOC100912538	-0.638	8.84E-04	0.004645
100911581	LOC100911581	-0.63851	0.0344609	0.100522
102550309	LOC102550309	-0.64083	0.42195333	0.617425
102555858	LOC102555858	-0.64083	0.42195333	0.617425
368158	Rorc	-0.64105	0.2532042	0.441843
108348184	LOC108348184	-0.64108	0.34822781	0.545126
103690782	Ssx2	-0.64349	0.45627828	0.647479
252942	Myh8	-0.64357	8.24E-06	6.87E-05
293753	Ms4a3	-0.64367	0.09058585	0.212647
117523	St8sia2	-0.64407	4.42E-04	0.002519
117516	Tnfsf11	-0.6464	0.63810817	0.792848
25516	Pnoc	-0.64736	0.00419506	0.01785
691543	Katnbl1	-0.64737	3.41E-04	0.002007
679974	Tceal6	-0.64785	0.11523047	0.254354
100362205	Fndc9	-0.64938	0.34576672	0.542187
314638	Creb313	-0.64938	0.34576672	0.542187
499273	RGD1563285	-0.64938	0.34576672	0.542187
500311	Gdf3	-0.64938	0.34576672	0.542187
685580	Prr33	-0.65098	0.00121305	0.006107
498270	Ccdc190	-0.65181	2.00E-04	0.001244
404640	Mrgprx2	-0.65271	0.21082621	0.38971
81633	Acta2	-0.65273	4.22E-49	3.98E-47
688778	LOC688778	-0.65319	0.50588543	0.692638
100911326	LOC100911326	-0.6539	0.06813872	0.172109
502859	Kbtbd12	-0.654	0.01314263	0.046421
24808	Tacr3	-0.65442	0.06683813	0.169453
316158	RGD1559808	-0.65488	0.2991728	0.495758
690041	Xlr3a	-0.65549	0.3954117	0.592682

296269	Angpt4	-0.65627	0.11602679	0.255785
367167	Traip	-0.65627	0.02623743	0.081053
100911295	LOC100911295	-0.65781	6.91E-31	4.04E-29
108348085	LOC108348085	-0.65797	2.59E-10	4.31E-09
114103	I15ra	-0.66027	0.20856322	0.386691
499968	Galnt15	-0.66027	0.20856322	0.386691
502919	Igbp1b	-0.66027	0.20856322	0.386691
100910497	LOC100910497	-0.66067	0.05974792	0.155514
498128	Mcomp1	-0.66144	0.00336241	0.014806
100911353	LOC100911353	-0.66256	0.1961702	0.370825
100363535	LOC100363535	-0.66352	0.02438824	0.076608
108348143	LOC108348143	-0.66598	7.53E-05	5.15E-04
292778	Polr2i	-0.66876	0.00486384	0.020252
114106	Bco1	-0.67004	0.00134821	0.006695
102548546	LOC102548546	-0.67097	0.21088844	0.389787
171052	Mmp13	-0.67104	8.16E-18	2.63E-16
102555039	LOC102555039	-0.67315	0.00144325	0.007123
25304	Comp	-0.67432	2.66E-22	1.07E-20
100363294	LOC100363294	-0.67538	0.40513909	0.602003
114593	Nppc	-0.67538	0.40513909	0.602003
140656	Albg	-0.67538	0.40513909	0.602003
24946	F9	-0.67538	0.40513909	0.602003
303215	Fbxw10	-0.67538	0.14933211	0.305383
309100	Scgblc1	-0.67538	0.40513909	0.602003
309217	Ms4a1	-0.67538	0.01854243	0.061609
500637	Dcdc2c	-0.67538	0.40513909	0.602003
503227	Iqcf1	-0.67538	0.40513909	0.602003
100362820	LOC100362820	-0.6761	0.01843191	0.061306
100363439	Rps1011	-0.67703	5.19E-69	7.06E-67
113931	Prrx2	-0.67824	0.00298782	0.013402
64543	Sec14l3	-0.67927	3.55E-86	5.92E-84
683720	Krt79	-0.67999	0.10093272	0.230156
81648	Crh	-0.68003	1.64E-19	5.71E-18
64032	Ctgf	-0.68074	1.23E-29	6.89E-28
24638	Pfkfb1	-0.68163	0.01993521	0.065358
362211	Mall	-0.68536	0.00132143	0.006579
363790	Fbxo40	-0.68638	0.00796466	0.030693
310213	Sirpb2	-0.68652	0.66672142	0.810682
313126	Gja10	-0.68697	0.03463005	0.100907
360479	LOC360479	-0.68852	6.62E-05	4.58E-04
288979	C1ql2	-0.68918	0.16973647	0.335161
498587	Ldb3	-0.68953	8.44E-53	8.64E-51
64555	Spef2	-0.69022	0.00261549	0.011928
688972	Gypa	-0.69126	3.42E-07	3.67E-06
24216	Atp4a	-0.69245	0.07936455	0.193261
64317	Gpx3	-0.69302	1.13E-32	7.04E-31
304131	Map3k7c1	-0.69512	1.47E-05	1.17E-04
680862	Trem14	-0.69568	0.2068168	0.384501
108349495	LOC108349495	-0.69747	0.43733105	0.631365
100910798	LOC100910798	-0.69751	0.40322363	0.600281
100362912	Tmprss12	-0.69775	0.05854551	0.15318
100911372	LOC100911372	-0.69993	4.85E-18	1.58E-16
287001	Olr287	-0.70032	0.01100792	0.040078
298545	Cnksr1	-0.70185	0.04342769	0.120971
680989	LOC680989	-0.70209	0.00547315	0.022359
305341	Rhoh	-0.70256	0.00831336	0.031761

25342	Oxtr	-0.70302	0.10195359	0.232039
29187	Cd69	-0.70358	0.08935106	0.210566
681190	Kcne5	-0.70358	0.08935106	0.210566
307310	Zfp474	-0.70369	0.42993487	0.624332
24779	Slc4a1	-0.70731	1.27E-28	6.85E-27
246044	Otos	-0.7078	0.19314547	0.366892
364538	RGD1564941	-0.7078	0.19314547	0.366892
498232	Lax1	-0.7078	0.19314547	0.366892
316632	Ndufa1011	-0.70867	4.62E-60	5.61E-58
679994	Hist1h3a	-0.70906	0.37555416	0.572286
289178	Dpt	-0.71033	9.76E-18	3.13E-16
406160	Btnl8	-0.711	0.57704312	0.74507
25139	Slc2a4	-0.711	2.45E-08	3.10E-07
103694871	LOC103694871	-0.71147	0.03700753	0.106338
24618	Reg3b	-0.71491	0.00777299	0.030028
689695	Prdm13	-0.71539	0.26136858	0.450884
24981	RT1-Db2	-0.71579	0.00126466	0.00633
683463	Lilrb3a	-0.71949	1.09E-04	7.17E-04
171162	Reg3a	-0.71977	0.01144673	0.04139
24767	Scn1b	-0.71977	0.07375975	0.182911
502596	Lrit3	-0.72006	0.48409493	0.672472
691464	Dhrs2	-0.72635	5.58E-04	0.003089
25706	Cckbr	-0.72722	0.00959785	0.035827
108348157	LOC108348157	-0.73	1.35E-06	1.31E-05
498918	Irx5	-0.73341	0.19679828	0.371386
100362109	LOC100362109	-0.73427	0.47878605	0.667678
102549582	LOC102549582	-0.73427	0.47878605	0.667678
102550809	Scml1	-0.73427	0.47878605	0.667678
102552638	LOC102552638	-0.73427	0.31652434	0.51119
171049	Folr1	-0.73427	0.31652434	0.51119
292152	Ces2i	-0.73427	0.47878605	0.667678
292295	Pabpc6	-0.73427	0.47878605	0.667678
292325	B3gnt6	-0.73427	0.06094826	0.157969
295265	RGD1359334	-0.73427	0.47878605	0.667678
29567	Hes2	-0.73427	0.31652434	0.51119
300141	Mov1011	-0.73427	0.47878605	0.667678
302970	Prss32	-0.73427	0.47878605	0.667678
303256	Tm4sf5	-0.73427	0.47878605	0.667678
363267	Daw1	-0.73427	0.47878605	0.667678
500827	LOC500827	-0.73427	0.31652434	0.51119
56823	Haa0	-0.73427	0.31652434	0.51119
680427	Tbr1	-0.73427	0.47878605	0.667678
685365	Fmo9	-0.73427	0.31652434	0.51119
688642	Wbp2n1	-0.73427	0.47878605	0.667678
689093	Upk2	-0.73427	0.47878605	0.667678
690114	LOC690114	-0.73427	0.47878605	0.667678
690430	Nr1h5	-0.73427	0.47878605	0.667678
171055	Cd79b	-0.73427	3.63E-05	2.66E-04
266734	Npas4	-0.73427	0.04515025	0.124893
364723	Hist1h2ao	-0.73503	0.02369595	0.074953
29747	Kcnmb1	-0.73557	2.81E-05	2.12E-04
498276	LOC498276	-0.73693	0.00305479	0.013657
681182	LOC681182	-0.73809	0.42450809	0.619807
29301	Hal	-0.73997	3.39E-05	2.51E-04
499146	Spib	-0.74015	7.63E-09	1.04E-07
365367	Cd19	-0.74205	3.71E-04	0.002169

685183	LOC685183	-0.74277	0.02295144	0.072973
102549344	LOC102549344	-0.74449	0.31263782	0.507733
25555	Sstr4	-0.74577	0.03746041	0.107332
289316	Lefty2	-0.74887	9.50E-09	1.28E-07
102548133	LOC102548133	-0.74936	0.06527725	0.166404
102547344	LOC102547344	-0.7533	0.25774736	0.446864
103690081	LOC103690081	-0.75376	0.32591761	0.521605
310625	Rhbg	-0.75404	0.02326308	0.073761
367912	Glra4	-0.75404	0.02326308	0.073761
312721	Dyrk4	-0.75769	0.18251825	0.35272
292545	Nlrp4a	-0.76132	0.29158989	0.487049
305264	Ugt2b10	-0.76149	0.3709149	0.567396
102554283	LOC102554283	-0.76232	0.18442315	0.35532
25572	Tnfrsf4	-0.76284	0.05622456	0.148217
316624	Klhl30	-0.76284	9.43E-04	0.004914
499065	Tarm1	-0.76284	0.17699273	0.345442
500445	Fam205c	-0.76284	0.05622456	0.148217
503103	Sult6b1	-0.76284	0.17699273	0.345442
683613	Krt71	-0.76284	0.17699273	0.345442
100360647	LOC100360647	-0.76393	0.01986663	0.065161
687780	LOC687780	-0.76393	0.01986663	0.065161
266998	Slc13a5	-0.76598	0.0258313	0.080045
294312	Pi16	-0.76774	3.79E-26	1.85E-24
311029	Neb	-0.76932	3.47E-81	5.47E-79
498875	Alpk2	-0.77143	3.29E-04	0.001946
316232	Dlk2	-0.77223	0.03000142	0.090151
103690642	LOC103690642	-0.77449	0.05407177	0.143586
24316	Drd1	-0.77491	0.10392693	0.235265
25007	Tacr2	-0.77491	0.25021344	0.438714
303589	Efcab3	-0.77491	0.25021344	0.438714
690470	Accs1	-0.77491	0.25021344	0.438714
103693936	LOC103693936	-0.78026	0.01369139	0.047977
316010	Camp	-0.78175	1.09E-12	2.34E-11
301026	Ngp	-0.78191	4.29E-37	3.15E-35
102555319	LOC102555319	-0.78228	1.18E-11	2.28E-10
102549391	LOC102549391	-0.78269	0.45181994	0.643743
246172	Nexn	-0.78367	9.97E-17	2.98E-15
102551890	LOC102551890	-0.7858	0.03836078	0.109352
24875	Vipr1	-0.7858	0.14308386	0.297428
25623	Gys2	-0.7858	0.14308386	0.297428
25699	Dbh	-0.7858	0.14308386	0.297428
498222	LOC498222	-0.7858	0.14308386	0.297428
501096	Trem11	-0.7858	0.14308386	0.297428
502832	RGD1563231	-0.78772	0.05619545	0.148212
290221	Nr1	-0.78872	0.02376588	0.075136
500377	Tuba8	-0.78985	1.13E-09	1.74E-08
108351033	LOC108351033	-0.79112	0.51512762	0.700557
102550523	Fsbp	-0.79377	0.05155729	0.138102
688459	LOC688459	-0.79567	1.74E-05	1.36E-04
103692529	LOC103692529	-0.798	0.01235664	0.044119
100910462	LOC100910462	-0.80091	0.45431899	0.645517
688800	Aldh3b2	-0.80261	0.22977894	0.414525
100360846	LOC100360846	-0.80347	0.39959706	0.596654
100909799	LOC100909799	-0.80466	0.06960951	0.174873
100909869	LOC100909869	-0.80466	8.15E-11	1.42E-09
102547056	LOC102547056	-0.80466	0.36428965	0.560706

108353003	LOC108353003	-0.80466	0.36428965	0.560706
25710	Cd3d	-0.80466	0.36428965	0.560706
290217	RGD1564324	-0.80466	0.36428965	0.560706
306725	Spata31d3	-0.80466	0.36428965	0.560706
312272	Mgam	-0.80466	0.36428965	0.560706
500678	Ccdc196	-0.80466	0.36428965	0.560706
501617	Ar113a	-0.80466	0.36428965	0.560706
64669	Olah	-0.80466	0.1994903	0.374943
682829	Tspo2	-0.80466	0.36428965	0.560706
685271	Hmgb4	-0.80466	0.36428965	0.560706
691448	Slc25a54	-0.80466	0.11610046	0.255889
100910934	LOC100910934	-0.80536	0.43391684	0.628294
300475	Adamts8	-0.80732	8.95E-37	6.46E-35
499402	RGD1562652	-0.80795	0.00393029	0.016889
444983	Apold1	-0.81071	8.24E-33	5.18E-31
501679	RGD1559662	-0.81175	0.01361285	0.047763
313756	Plch2	-0.81444	0.03507056	0.101817
108351580	LOC108351580	-0.81445	0.00494877	0.020543
288038	Meltf	-0.81538	0.04382759	0.1218
114587	Dlk1	-0.81547	0.00452394	0.019028
688518	Pabpc5	-0.81673	0.05712907	0.150155
100360828	LOC100360828	-0.81923	0.03399086	0.099593
286934	Havcr1	-0.82106	0.35323165	0.550245
81639	Alox15	-0.82121	3.84E-09	5.52E-08
303413	Mpo	-0.82273	1.68E-14	4.30E-13
302400	Cdx4	-0.82513	0.509155	0.695564
25043	Eln	-0.82554	9.68E-58	1.12E-55
64507	Fmod	-0.82606	3.20E-34	2.10E-32
685378	Dppa4	-0.82691	0.1112887	0.247749
498066	Sh3bgr	-0.82802	1.31E-30	7.56E-29
690283	LOC690283	-0.8293	1.77E-04	0.001115
103689936	Wbp1111	-0.82934	4.08E-56	4.42E-54
297412	Dusp11	-0.83169	7.91E-08	9.38E-07
313776	Perml	-0.83782	2.16E-06	2.02E-05
298485	Ermap	-0.83962	1.32E-04	8.55E-04
103694912	LOC103694912	-0.84111	0.03009399	0.090344
301097	Vwa5a	-0.84314	4.10E-258	#####
100361582	Ttc24	-0.8453	0.28324153	0.477016
102555308	LOC102555308	-0.8453	0.28324153	0.477016
24414	Grml	-0.8453	0.06308316	0.162387
29641	Adam7	-0.8453	0.28324153	0.477016
296483	Lkaear1	-0.8453	0.28324153	0.477016
299582	Olr1088	-0.8453	0.28324153	0.477016
498497	Tppp2	-0.8453	0.06308316	0.162387
500945	RGD1561795	-0.8453	0.28324153	0.477016
79211	Gabrg3	-0.8453	0.12912927	0.276353
103690166	LOC103690166	-0.84748	0.17048058	0.336352
360737	Tbx1	-0.85575	4.79E-07	5.01E-06
290880	Adprh11	-0.85758	8.37E-05	5.65E-04
691688	Eid3	-0.85859	0.05002866	0.135014
102549007	LOC102549007	-0.85865	0.27363941	0.465683
499189	Wdr93	-0.8598	0.0217187	0.069894
680899	Efcab12	-0.8598	0.10459197	0.236251
684480	Btnl9	-0.8598	0.10459197	0.236251
294279	Col11a2	-0.86028	1.45E-49	1.39E-47
25732	Acp5	-0.86062	3.05E-20	1.10E-18

108348181	LOC108348181	-0.86135	0.06644482	0.168681
29609	Pitx3	-0.86238	0.00936856	0.035116
310694	Fcrl2	-0.86857	7.35E-06	6.19E-05
100363171	LOC100363171	-0.87178	0.00127217	0.006363
102550225	LOC102550225	-0.87178	0.61556824	0.775415
294853	Krt18	-0.87178	0.22327291	0.406077
298543	Crybg2	-0.87178	0.22327291	0.406077
688126	LOC688126	-0.87178	0.08500974	0.203752
100911914	LOC100911914	-0.88166	0.1034709	0.234456
499463	RGD1561777	-0.88712	0.19727062	0.371908
102550714	LOC102550714	-0.88795	0.02313956	0.073449
25608	Lep	-0.89039	0.17769629	0.346336
497840	Cps1	-0.89039	0.17769629	0.346336
100360316	LOC100360316	-0.89162	0.07010002	0.17585
103689962	LOC103689962	-0.89193	0.28813909	0.482937
84387	Pglyrp1	-0.89494	1.20E-05	9.68E-05
498287	Slamf6	-0.89847	0.07724871	0.189271
363088	Ccnb2	-0.8989	0.00124577	0.00625
289322	RGD1564463	-0.90134	0.29901802	0.495545
108349804	LOC108349804	-0.90267	0.47674315	0.666146
298559	Tcea3	-0.90333	4.83E-08	5.87E-07
313891	RGD1304963	-0.9042	0.03804589	0.108682
103690105	LOC103690105	-0.9053	4.54E-07	4.77E-06
100911917	LOC100911917	-0.90805	2.66E-14	6.73E-13
108348209	LOC108348209	-0.91115	0.21897452	0.400612
50565	Hspb7	-0.9187	1.29E-09	1.96E-08
140939	Trim63	-0.91883	1.11E-06	1.10E-05
29191	Tac3	-0.9193	0.02120734	0.068631
103690033	LOC103690033	-0.92057	0.17180591	0.338476
100909879	LOC100909879	-0.92145	0.2831327	0.47698
83504	K1	-0.92331	0.09293066	0.216815
691392	LOC691392	-0.92567	0.0663662	0.168503
313755	Mme11	-0.92692	0.01445299	0.050229
100360218	LOC100360218	-0.92735	1.84E-05	1.44E-04
108350572	LOC108350572	-0.92789	0.2585714	0.447885
100361098	LOC100361098	-0.92904	0.55937942	0.735172
300795	Pclaf	-0.93019	0.01194955	0.042915
315609	Cd3e	-0.93019	0.07550161	0.18614
291312	Ucma	-0.93484	3.47E-05	2.56E-04
688109	Tmem239	-0.93591	0.06152654	0.159208
407762	Krt85	-0.93859	0.15882675	0.319887
292547	Vom2r28	-0.94072	0.57977222	0.747327
293140	Olr35	-0.9484	0.03376485	0.099038
305423	Clqtnf7	-0.95147	7.45E-04	0.004004
108353096	LOC108353096	-0.95628	0.41816835	0.614034
100910173	LOC100910173	-0.95666	0.45756803	0.648874
102554501	LOC102554501	-0.95666	0.01881776	0.062376
302845	Magea11	-0.95666	0.01881776	0.062376
102556277	LOC102556277	-0.95696	0.25802053	0.447256
363111	Ripply2	-0.95883	0.01552601	0.053393
685961	Sirpb211	-0.9628	0.35493226	0.551766
689118	14-Sep	-0.96309	0.37193546	0.568454
108348296	LOC108348296	-0.96503	0.55211612	0.732399
680931	Bmp8a	-0.96528	0.21043906	0.389146
108348827	LOC108348827	-0.96845	0.42471338	0.620011
298111	LOC298111	-0.9687	0.24236443	0.430421

306616	Myom2	-0.97351	1.57E-80	2.43E-78
102551433	LOC102551433	-0.97385	0.00164637	0.007968
315567	Panx3	-0.97459	0.00137063	0.006793
113902	Ces1d	-0.97655	7.93E-04	0.004228
100911492	LOC100911492	-0.98218	4.81E-04	0.002708
408216	Senp17	-0.98722	0.33049772	0.52681
80878	Slc16a3	-0.98965	1.02E-09	1.58E-08
108348117	LOC108348117	-0.99003	0.15943121	0.320833
108351411	LOC108351411	-0.99012	0.31650806	0.511315
100911244	LOC100911244	-0.99015	0.56239935	0.733723
680837	LOC680837	-0.99022	0.56043838	0.735802
298107	Mup5	-0.99067	0.01604267	0.054784
307851	Clec18a	-0.99251	0.15613187	0.315796
108352197	LOC108352197	-0.99421	0.12543159	0.270752
103689996	LOC103689996	-0.997	0.00491252	0.02041
100359483	Cylc1	-0.99731	0.56104147	0.734341
100359720	Ankrd31	-0.99731	0.24499566	0.433195
100359907	LOC100359907	-0.99731	0.56104147	0.734341
100360091	Tmem207	-0.99731	0.41103384	0.607209
100361588	Wdr95	-0.99731	0.41103384	0.607209
100910060	LOC100910060	-0.99731	0.56104147	0.734341
100910410	LOC100910410	-0.99731	0.56104147	0.734341
102546514	LOC102546514	-0.99731	0.19366412	0.367455
102547033	LOC102547033	-0.99731	0.56104147	0.734341
102547119	LOC102547119	-0.99731	0.56104147	0.734341
102551428	LOC102551428	-0.99731	0.56104147	0.734341
102551453	LOC102551453	-0.99731	0.03609194	0.104179
102552195	LOC102552195	-0.99731	0.39957703	0.596671
102552569	LOC102552569	-0.99731	0.56104147	0.734341
102552627	LOC102552627	-0.99731	0.56104147	0.734341
103691634	LOC103691634	-0.99731	0.56104147	0.734341
103693129	LOC103693129	-0.99731	0.19366412	0.367455
103693291	Nhlrc4	-0.99731	0.31401506	0.508755
108348129	LOC108348129	-0.99731	0.56104147	0.734341
108348134	LOC108348134	-0.99731	0.41103384	0.607209
108350819	LOC108350819	-0.99731	0.31401506	0.508755
108352186	LOC108352186	-0.99731	0.56104147	0.734341
108352306	Smim34a	-0.99731	0.56104147	0.734341
108353095	LOC108353095	-0.99731	0.56104147	0.734341
114598	Clec4f	-0.99731	0.15448212	0.313207
116556	Gucy2f	-0.99731	0.56104147	0.734341
117130	Grifin	-0.99731	0.01365446	0.047865
171375	Atp5f1	-0.99731	5.89E-19	2.01E-17
171516	Akr1c3	-0.99731	0.41103384	0.607209
171551	Cxcl3	-0.99731	0.31401506	0.508755
171573	LOC171573	-0.99731	0.41103384	0.607209
24152	Asip	-0.99731	0.56104147	0.734341
24291	Ctrb1	-0.99731	0.41103384	0.607209
24391	Gh1	-0.99731	0.41103384	0.607209
246238	Bpifal	-0.99731	0.56104147	0.734341
24817	Hnf1a	-0.99731	0.56104147	0.734341
25048	Klkb1	-0.99731	0.56104147	0.734341
25195	Drd5	-0.99731	0.56104147	0.734341
25268	Proc	-0.99731	0.31401506	0.508755
252856	Tcf21	-0.99731	0.31401506	0.508755
25320	Gast	-0.99731	0.31401506	0.508755

25534	Prph2	-0.99731	0.56104147	0.734341
25723	Hcrt	-0.99731	0.56104147	0.734341
266707	Gjd4	-0.99731	0.56104147	0.734341
286954	Ugt2b1	-0.99731	0.56104147	0.734341
287034	Tnfrsf17	-0.99731	0.24499566	0.433195
287425	Alox12b	-0.99731	0.56104147	0.734341
287673	Ccr7	-0.99731	0.15448212	0.313207
287935	RGD1308065	-0.99731	0.24499566	0.433195
288375	Cd209a	-0.99731	0.56104147	0.734341
289254	Olr1592	-0.99731	0.56104147	0.734341
290670	Tssk6	-0.99731	0.02436356	0.076581
291087	Serpinc6e	-0.99731	0.41103384	0.607209
29235	Galr3	-0.99731	0.56104147	0.734341
29251	F2	-0.99731	0.31401506	0.508755
292706	Tesc1	-0.99731	0.24499566	0.433195
29319	Gif	-0.99731	0.56104147	0.734341
293303	Olr156	-0.99731	0.41103384	0.607209
294301	Armc12	-0.99731	0.41103384	0.607209
29475	Dio3	-0.99731	0.24499566	0.433195
295010	Pabpc41	-0.99731	0.10014493	0.22888
295071	RGD1559622	-0.99731	0.56104147	0.734341
29538	Ccl20	-0.99731	0.56104147	0.734341
295710	Olr439	-0.99731	0.56104147	0.734341
295929	Mybpc3	-0.99731	0.56104147	0.734341
296730	Crygn	-0.99731	0.31401506	0.508755
298306	Cdcp2	-0.99731	0.41103384	0.607209
301120	Acsbg2	-0.99731	0.56104147	0.734341
301510	Rufy4	-0.99731	0.15448212	0.313207
302962	Zscan10	-0.99731	0.41103384	0.607209
303205	Slc5a10	-0.99731	0.41103384	0.607209
303252	Alox12e	-0.99731	0.31401506	0.508755
304103	Olig2	-0.99731	0.22643352	0.41016
305719	Fezf2	-0.99731	0.56104147	0.734341
305908	Rnf17	-0.99731	0.56104147	0.734341
307614	Cdh16	-0.99731	0.56104147	0.734341
310782	Mybph1	-0.99731	0.24499566	0.433195
313681	Lrrc38	-0.99731	0.15448212	0.313207
314959	RGD1359449	-0.99731	0.56104147	0.734341
315497	Tbx20	-0.99731	0.56104147	0.734341
363654	Tmigd1	-0.99731	0.56104147	0.734341
363866	Rxfp2	-0.99731	0.15448212	0.313207
364883	Cdx1	-0.99731	0.31401506	0.508755
365153	Tcte3	-0.99731	0.41103384	0.607209
365332	Olr152	-0.99731	0.56104147	0.734341
366275	Ptk6	-0.99731	0.56104147	0.734341
366347	Cfap206	-0.99731	0.15448212	0.313207
366377	Olr854	-0.99731	0.31401506	0.508755
367415	Pla2g12b	-0.99731	0.56104147	0.734341
367994	Upk3b11	-0.99731	0.56104147	0.734341
405335	Olr1366	-0.99731	0.41103384	0.607209
408213	Tmprss11c	-0.99731	0.56104147	0.734341
408225	Wfdc6b	-0.99731	0.56104147	0.734341
494249	Vomlr87	-0.99731	0.6810448	0.821958
494303	Vomlr42	-0.99731	0.56104147	0.734341
498231	LOC498231	-0.99731	0.15448212	0.313207
498316	LOC498316	-0.99731	0.56104147	0.734341

498534	RGD1565212	-0.99731	0.56104147	0.734341
498985	Themis	-0.99731	0.56104147	0.734341
499135	MGC114499	-0.99731	0.56104147	0.734341
499279	Tex36	-0.99731	0.56104147	0.734341
499334	RGD1560242	-0.99731	0.24499566	0.433195
499618	Ccdc169	-0.99731	0.56104147	0.734341
499993	Tex47	-0.99731	0.56104147	0.734341
500761	Apof	-0.99731	0.56104147	0.734341
501797	Cd209e	-0.99731	0.41103384	0.607209
502960	RGD1561827	-0.99731	0.6810448	0.821958
502963	RGD1564637	-0.99731	0.6810448	0.821958
50549	Cyp4a1	-0.99731	0.41103384	0.607209
54246	Cyp2f4	-0.99731	0.31401506	0.508755
59305	Tcam1	-0.99731	0.56104147	0.734341
60583	Ivl	-0.99731	0.41103384	0.607209
64564	Bbox1	-0.99731	0.15448212	0.313207
65048	Fat2	-0.99731	0.41103384	0.607209
66014	Impg1	-0.99731	0.31401506	0.508755
680378	Prss47	-0.99731	0.41103384	0.607209
680489	Cldn34e	-0.99731	0.41103384	0.607209
680640	Ceacam19	-0.99731	0.56104147	0.734341
680794	Timm8a2	-0.99731	0.41103384	0.607209
682329	Nkx3-2	-0.99731	0.41103384	0.607209
685360	En1	-0.99731	0.24499566	0.433195
685758	A4gnt	-0.99731	0.56104147	0.734341
685999	Uroc1	-0.99731	0.56104147	0.734341
688333	Ptchd3	-0.99731	0.24499566	0.433195
688422	Dydc2	-0.99731	0.56104147	0.734341
688536	Glyat13	-0.99731	0.56104147	0.734341
689561	LOC689561	-0.99731	0.56104147	0.734341
690028	I131	-0.99731	0.56104147	0.734341
690483	LOC690483	-0.99731	0.56104147	0.734341
690691	Vom2r16	-0.99731	0.56104147	0.734341
691189	LOC691189	-0.99731	0.56104147	0.734341
311639	Zfp334	-0.99731	0.06603041	0.167852
100909725	LOC100909725	-0.99784	0.03258519	0.096319
363276	Snorc	-1.00729	6.02E-07	6.21E-06
103692758	LOC103692758	-1.00753	0.11880301	0.260279
103694169	LOC103694169	-1.0077	2.69E-06	2.48E-05
103692344	LOC103692344	-1.01472	0.35115995	0.547914
108350550	LOC108350550	-1.01632	2.46E-04	0.001499
108350604	LOC108350604	-1.01976	0.06071244	0.157465
103690190	LOC103690190	-1.02143	0.00428229	0.018168
29462	Avpr1b	-1.023	0.00358331	0.015634
295538	Depdc1	-1.02479	0.00221153	0.010306
102547798	LOC102547798	-1.03486	0.19530675	0.369633
108353206	LOC108353206	-1.04131	0.0321689	0.095355
295426	Myoz2	-1.04915	7.79E-05	5.31E-04
100911669	LOC100911669	-1.04985	0.25695692	0.446021
29385	Cxcr2	-1.05464	1.59E-04	0.00101
102554581	LOC102554581	-1.06059	0.35065321	0.547303
103690296	LOC103690296	-1.06144	0.03800121	0.108587
25172	Gata1	-1.06144	0.00334334	0.014732
29387	Pla2g2c	-1.06144	0.03800121	0.108587
301711	Lrrc30	-1.06144	0.03800121	0.108587
363899	RGD1562525	-1.06555	0.28534548	0.479563

100362169	Fam170b	-1.06711	0.00289265	0.01303
690158	Fpr2	-1.06762	0.00601143	0.024154
295091	Vom2r46	-1.0677	0.52872073	0.711524
100910503	LOC100910503	-1.07531	0.50911764	0.695563
100910446	LOC100910446	-1.0766	1.84E-11	3.48E-10
367316	Aqp12a	-1.07977	0.00848182	0.03232
102546754	LOC102546754	-1.08149	0.03080161	0.092033
108348326	LOC108348326	-1.08202	4.40E-13	9.77E-12
360478	Smim22	-1.08477	0.06942366	0.174556
367318	Ano7	-1.08477	0.06942366	0.174556
29275	Actc1	-1.08604	0.06834725	0.172567
100361261	Gzmb13	-1.08657	0.07776222	0.190235
501233	LOC501233	-1.08657	0.44501231	0.637765
313220	Acnat2	-1.08714	0.11281603	0.250593
680615	Hist1h2ak	-1.09082	0.49406371	0.680956
365949	LOC365949	-1.09155	1.25E-13	2.95E-12
691312	Cyp4f37	-1.09553	0.03720563	0.106746
498274	Spata46	-1.09684	0.0852715	0.204173
29576	Wisp2	-1.10859	1.18E-11	2.27E-10
499796	LOC499796	-1.10881	0.13908016	0.291523
365550	Vpreb3	-1.11086	6.89E-05	4.75E-04
292279	Nox3	-1.11278	0.10504802	0.237
302619	Gpr143	-1.11278	0.10504802	0.237
364039	Mael	-1.11278	0.10504802	0.237
500336	Clec1b	-1.11278	0.10504802	0.237
170840	Slc40a1	-1.11786	3.17E-13	7.14E-12
29155	Capn3	-1.1193	8.08E-10	1.26E-08
246334	Tp63	-1.11945	0.06853224	0.172851
100125384	LOC100125384	-1.12376	0.27850064	0.471554
100359675	Alpp	-1.12376	0.12538077	0.270704
360742	Dgcr2	-1.12401	2.29E-05	1.75E-04
685216	Wfdc10	-1.13481	0.12985029	0.277366
685788	LOC685788	-1.13612	0.12932051	0.276638
500823	Ccdc38	-1.13956	0.03444495	0.100491
303468	Sgca	-1.14316	2.80E-06	2.57E-05
315111	Apol2	-1.1441	0.00257469	0.01177
102554207	LOC102554207	-1.14533	0.03193412	0.094762
287382	Mfap4	-1.15085	7.38E-71	1.02E-68
362662	Rbp7	-1.16081	5.01E-04	0.002809
500023	Dlx6	-1.16563	0.16180557	0.324241
108353015	LOC108353015	-1.16723	0.16111267	0.323278
25386	Aqp2	-1.16723	0.16111267	0.323278
303533	Klh110	-1.16723	0.16111267	0.323278
500319	Tuba3a	-1.16723	0.16111267	0.323278
500415	Lrrc69	-1.16723	0.16111267	0.323278
500946	Heph11	-1.16723	0.16111267	0.323278
365368	I127	-1.16775	0.21634699	0.397677
171390	Nlrp6	-1.17788	0.13956419	0.292216
299606	Elane	-1.17788	2.02E-06	1.90E-05
303373	Unc45b	-1.18286	3.69E-07	3.94E-06
103689995	LOC103689995	-1.1849	0.01943662	0.063966
291084	Nqo2	-1.18595	1.58E-59	1.90E-57
100361756	LOC100361756	-1.18845	0.43282009	0.62723
100909701	Ccer2	-1.18995	0.00729127	0.028444
102551468	LOC102551468	-1.19337	0.20082217	0.376369
102546845	LOC102546845	-1.20328	0.20580119	0.383099

499923	Efcab8	-1.20376	1.57E-07	1.78E-06
108353264	LOC108353264	-1.2197	0.20064037	0.376306
24236	C4bpb	-1.2197	0.07032518	0.176206
29190	Pdyn	-1.2197	0.02665343	0.082092
297748	Jph1	-1.2197	1.94E-09	2.89E-08
298397	Olr833	-1.2197	0.20064037	0.376306
310443	Gpr87	-1.2197	0.20064037	0.376306
310632	Rab25	-1.2197	0.20064037	0.376306
405020	Olr1353	-1.2197	0.20064037	0.376306
500052	Hyal5	-1.2197	0.20064037	0.376306
502759	Nobox	-1.2197	0.20064037	0.376306
59112	Hand1	-1.2197	0.20064037	0.376306
64574	Chrna10	-1.2197	0.20064037	0.376306
678708	LOC678708	-1.2197	0.20064037	0.376306
688605	Cc11	-1.2197	0.20064037	0.376306
690116	Rgs11	-1.2197	0.20064037	0.376306
690139	Rbm24	-1.2197	5.19E-05	3.68E-04
690813	LOC690813	-1.2197	0.02665343	0.082092
689713	LOC689713	-1.23177	0.49058975	0.678032
100909409	LOC100909409	-1.23745	0.04603752	0.126758
317308	Zfp3613	-1.24594	0.11675132	0.256966
286965	Abra	-1.24923	3.34E-11	6.11E-10
85258	Cnga4	-1.24929	0.00169487	0.008182
102554312	LOC102554312	-1.25245	0.16192809	0.324452
361003	Dupd1	-1.25256	2.15E-05	1.65E-04
102552901	LOC102552901	-1.25824	0.10019573	0.228969
102547755	Dbf4b	-1.26034	0.0855707	0.204633
171045	Mmp3	-1.26034	0.0855707	0.204633
365778	LOC365778	-1.26034	0.01504174	0.051981
499719	Stpg2	-1.26034	0.01504174	0.051981
60332	Akap14	-1.26034	0.0855707	0.204633
79110	Mepe	-1.26034	0.01504174	0.051981
294071	Hells	-1.26672	4.00E-06	3.56E-05
84576	Hdac11	-1.27241	0.39613566	0.59344
24631	Rhox5	-1.27741	0.03864958	0.110093
65204	Cnn1	-1.27951	1.81E-12	3.76E-11
315962	Ky	-1.28134	3.55E-16	1.01E-14
102555476	LOC102555476	-1.28548	0.04630992	0.127397
309374	Ankrd2	-1.28681	0.01798735	0.060142
25334	Bhlha15	-1.28946	0.00252864	0.01159
682419	LOC682419	-1.29009	0.42889608	0.624156
81687	Mmp9	-1.31189	8.93E-30	5.01E-28
108351743	LOC108351743	-1.31696	0.06745291	0.170648
65133	Aqp3	-1.31886	0.02383806	0.075314
100911186	LOC100911186	-1.31917	4.95E-14	1.22E-12
100190895	Rhox3	-1.31923	0.25021497	0.438434
100362644	Slc2a7	-1.31923	0.02146778	0.069327
100911278	LOC100911278	-1.31923	0.25021497	0.438434
171059	Wfdc18	-1.31923	0.25021497	0.438434
289439	Lpcat2b	-1.31923	0.25021497	0.438434
294210	Trim10	-1.31923	2.77E-04	0.001667
29679	Cst8	-1.31923	0.25021497	0.438434
301168	Efhb	-1.31923	0.10392806	0.235226
366598	Ferd31	-1.31923	0.25021497	0.438434
406226	Krt77	-1.31923	0.10392806	0.235226
414826	Tesb	-1.31923	0.02146778	0.069327

498992	Vnn3	-1.31923	0.25021497	0.438434
60394	Olig1	-1.31923	0.25021497	0.438434
63850	Prlh	-1.31923	0.25021497	0.438434
685513	Gngl4	-1.31923	0.25021497	0.438434
690288	Dnah14	-1.31923	0.25021497	0.438434
24585	Myl3	-1.32563	4.10E-08	5.05E-07
396527	Ugt1a2	-1.33015	0.14428217	0.298647
29266	Mcpt2	-1.33742	0.23646043	0.42337
687679	LOC687679	-1.33992	0.00115751	0.005863
690729	Vom2r19	-1.34139	0.12820809	0.274907
103691235	LOC103691235	-1.35094	0.0120205	0.043129
24296	Cyp1a1	-1.35988	0.02554418	0.079362
301039	Susd5	-1.36856	7.94E-09	1.09E-07
102555557	LOC102555557	-1.37569	1.27E-12	2.70E-11
102557303	LOC102557303	-1.37582	0.05553119	0.146704
108352185	C10H10orf95	-1.3817	0.36016068	0.556939
296153	Tmc2	-1.38433	0.00186429	0.008903
103692784	LOC103692784	-1.3854	0.15059207	0.307234
108349865	LOC108349865	-1.38687	0.01444255	0.050202
100911527	LOC100911527	-1.39941	0.30078454	0.497649
102550585	LOC102550585	-1.41121	0.025606	0.079502
102554647	Pasd1	-1.41234	0.12548313	0.270694
301611	Olr1349	-1.41234	0.12548313	0.270694
494343	Tacstd2	-1.41234	0.12548313	0.270694
64190	Fxyd4	-1.41234	0.12548313	0.270694
682010	MGC93861	-1.41234	0.12548313	0.270694
691636	Tex22	-1.41234	0.12548313	0.270694
103690046	LOC103690046	-1.42929	0.02147167	0.069322
361080	Ppial4g	-1.44007	0.02017693	0.066003
289482	Naal1	-1.44298	1.45E-08	1.92E-07
317608	Gpr101	-1.45416	0.08302541	0.20018
366142	Elf5	-1.45674	0.06593166	0.167691
103693370	Gsg112	-1.45826	0.0877199	0.207867
297339	Capg	-1.46306	1.16E-263	#####
100360575	LOC100360575	-1.46346	0.008172	0.031302
29195	Chad	-1.47061	1.17E-22	4.79E-21
113917	Lenep	-1.47264	0.14377906	0.298254
499461	Wisp3	-1.47558	0.00159827	0.007775
24610	Odf1	-1.48273	0.03554671	0.102987
25357	Thrsp	-1.48273	2.62E-07	2.86E-06
301378	Mettl21c	-1.48273	0.03554671	0.102987
100359528	RGD1565987	-1.4865	2.02E-06	1.90E-05
680665	Fcrl1	-1.49335	0.00874547	0.033093
103689937	LOC103689937	-1.4949	5.25E-04	0.002929
294097	Lipo1	-1.49731	0.17404348	0.341401
57809	Rpl35a	-1.50552	2.05E-10	3.46E-09
287099	Cldn9	-1.50827	0.09618305	0.222253
100910755	LOC100910755	-1.51964	8.96E-05	6.01E-04
171333	I112rb1	-1.52087	0.00604359	0.02427
690861	Stk33	-1.52087	0.00604359	0.02427
102549061	LOC102549061	-1.52327	0.00745212	0.028935
308056	RGD1311933	-1.52338	0.3307172	0.527072
686087	LOC686087	-1.54302	7.35E-07	7.47E-06
501129	Tmem182	-1.5475	1.52E-07	1.72E-06
304447	RGD1559821	-1.5556	0.01170622	0.042153
295261	Tmod4	-1.56136	2.69E-32	1.65E-30

299266	Asb2	-1.56288	1.89E-24	8.48E-23
84022	Ghsr	-1.56559	5.87E-08	7.07E-07
246298	Retsat	-1.57122	0	0
502999	RGD1563334	-1.57745	0.30930538	0.504472
100910138	LOC100910138	-1.58054	0.01634567	0.05556
100361147	Mkrn2os	-1.58227	0.30742653	0.502527
100365542	LOC100365542	-1.58227	0.23741504	0.424521
100911101	LOC100911101	-1.58227	0.30742653	0.502527
102550438	LOC102550438	-1.58227	0.30742653	0.502527
102557053	LOC102557053	-1.58227	0.30742653	0.502527
108348486	LOC108348486	-1.58227	0.07709519	0.189065
108349752	LOC108349752	-1.58227	0.00389185	0.016747
116694	Capn9	-1.58227	0.14890825	0.304958
117097	Gpr50	-1.58227	0.14890825	0.304958
192206	Prok2	-1.58227	0.30742653	0.502527
24493	I11a	-1.58227	0.14890825	0.304958
25598	Fabp2	-1.58227	0.14890825	0.304958
27150	Kcnh3	-1.58227	0.30742653	0.502527
287358	Prss38	-1.58227	0.04122362	0.115865
287646	Tt116	-1.58227	0.14890825	0.304958
288117	Slc9c1	-1.58227	0.30742653	0.502527
291678	Wnt8a	-1.58227	0.30742653	0.502527
291955	Ces4a	-1.58227	0.30742653	0.502527
292126	Habp2	-1.58227	0.30742653	0.502527
292477	Adgb	-1.58227	0.07709519	0.189065
292858	Klk1c10	-1.58227	0.30742653	0.502527
295019	RGD1307595	-1.58227	0.02247674	0.071758
296289	Sun5	-1.58227	0.30742653	0.502527
298581	Pla2g2e	-1.58227	0.30742653	0.502527
300199	Olr1106	-1.58227	0.30742653	0.502527
301626	Pdcd1	-1.58227	0.30742653	0.502527
304917	Serpinc1	-1.58227	0.30742653	0.502527
304991	Olr1596	-1.58227	0.30742653	0.502527
308303	Vom2r23	-1.58227	0.30742653	0.502527
311505	Pax1	-1.58227	0.00692663	0.027267
312102	Vsig4	-1.58227	0.14890825	0.304958
314221	Six6	-1.58227	0.30742653	0.502527
316579	Csprs	-1.58227	0.14890825	0.304958
406018	Olr1734	-1.58227	0.14890825	0.304958
500292	Cidec	-1.58227	3.34E-07	3.59E-06
500294	Fancd2os	-1.58227	0.30742653	0.502527
502918	Slc15a5	-1.58227	0.30742653	0.502527
679219	Esx1	-1.58227	0.30742653	0.502527
679509	Vrtn	-1.58227	0.30742653	0.502527
681924	Noxred1	-1.58227	0.30742653	0.502527
685229	Tal2	-1.58227	0.02247674	0.071758
688884	Gpr152	-1.58227	0.07709519	0.189065
689709	Frdm1	-1.58227	0.30742653	0.502527
690311	LOC690311	-1.58227	0.30742653	0.502527
691668	Gzmn	-1.58227	0.30742653	0.502527
79224	Serpind1	-1.58227	0.30742653	0.502527
81509	Bdkrb1	-1.58227	0.14890825	0.304958
83808	Ugt2b35	-1.58227	0.30742653	0.502527
84608	Slcola6	-1.58227	0.14890825	0.304958
100909600	LOC100909600	-1.58347	0.04102774	0.115417
301521	Cfap65	-1.58707	0.14734231	0.302842

103691392	LOC103691392	-1.59176	0.0019304	0.009175
100361090	LOC100361090	-1.59186	0.30370181	0.500823
24583	Myh3	-1.5939	5.98E-14	1.47E-12
685128	Gkn3	-1.59884	0.14156104	0.294938
25053	Cyp2d2	-1.60294	0.11476414	0.253736
100911331	LOC100911331	-1.61555	0.29457966	0.490794
498579	RGD1564899	-1.62321	4.59E-24	2.02E-22
100361693	LOC100361693	-1.62534	0.35399147	0.550978
680551	Apoc4	-1.62957	8.04E-04	0.004272
684993	Ppp1r35	-1.62983	5.71E-35	3.91E-33
102557105	LOC102557105	-1.63166	4.54E-04	0.002578
102551626	LOC102551626	-1.63882	5.13E-04	0.002868
25412	Col2a1	-1.66991	0	0
304349	RGD1559588	-1.67945	3.30E-04	0.001954
103690980	LOC103690980	-1.68086	2.28E-04	0.001399
365298	Alpk3	-1.68998	7.06E-25	3.25E-23
498299	Lefty1	-1.69055	0.02589215	0.080208
691546	LOC691546	-1.69168	0.06515304	0.166221
679629	Smtn12	-1.69438	1.54E-10	2.61E-09
29660	Pnck	-1.69775	0.02544888	0.079124
366671	Fam71d	-1.69775	0.02544888	0.079124
361214	RGD1561671	-1.70091	0.34874584	0.545623
108352370	LOC108352370	-1.71141	0.02616739	0.08085
100912534	LOC100912534	-1.71668	1.28E-53	1.34E-51
103693502	LOC103693502	-1.71967	0.02035366	0.066444
25629	Plin1	-1.72429	8.31E-10	1.30E-08
24477	Ibsp	-1.74421	1.10E-56	1.21E-54
294341	Slc5a4	-1.74783	0.0765544	0.188053
680319	Tceal7	-1.75474	9.08E-08	1.07E-06
295531	Tnni3k	-1.76098	5.30E-29	2.88E-27
304913	Tnn	-1.76284	5.52E-06	4.77E-05
25365	Actg2	-1.77068	1.62E-24	7.28E-23
24959	Pgam2	-1.77972	1.98E-109	#####
100911769	LOC100911769	-1.79262	0.00429533	0.018195
100362054	LOC100362054	-1.80466	0.08708959	0.207043
114596	Wap	-1.80466	0.08708959	0.207043
25539	Sag	-1.80466	0.08708959	0.207043
25645	Adrb3	-1.80466	0.08708959	0.207043
290325	Nuggc	-1.80466	0.08708959	0.207043
295322	Vtcn1	-1.80466	0.08708959	0.207043
297795	Npbwr1	-1.80466	0.08708959	0.207043
316616	Iqca1	-1.80466	0.01553526	0.053416
366463	Oxct2a	-1.80466	0.08708959	0.207043
499132	Rgs9bp	-1.80466	0.08708959	0.207043
500820	Slc5a8	-1.80466	0.08708959	0.207043
680702	Ripply1	-1.80466	0.08708959	0.207043
140727	Cacng6	-1.8358	4.06E-05	2.95E-04
690147	LOC690147	-1.84111	0.04201445	0.117602
100910104	Xirp1	-1.84535	5.09E-13	1.12E-11
102553868	LOC102553868	-1.87178	0.02788957	0.085121
304551	Myo18b	-1.87311	7.51E-24	3.28E-22
114108	Pdlim3	-1.87387	7.45E-46	6.42E-44
29353	Phkg1	-1.87866	2.69E-08	3.39E-07
102550211	LOC102550211	-1.88238	0.00290396	0.013062
305675	Synpo21	-1.88534	4.75E-34	3.09E-32
678817	LOC678817	-1.88873	0.19887517	0.374082

685048	LOC685048	-1.8934	0.00107134	0.005488
310552	Sfrp2	-1.89474	3.15E-20	1.13E-18
100364457	LOC100364457	-1.90357	1.95E-17	6.08E-16
500453	Pax5	-1.91484	8.66E-05	5.84E-04
100363454	LOC100363454	-1.92027	0.03783579	0.108228
292461	Raet11	-1.9225	0.20218943	0.378261
116648	Phox2a	-1.92757	0.00117782	0.005952
79451	Fabp4	-1.93906	1.85E-55	1.98E-53
308637	Ano5	-1.93982	5.05E-14	1.24E-12
311167	Smtnl1	-1.94727	3.47E-10	5.65E-09
84594	Nfs1	-1.95727	7.52E-117	#####
684984	Cd3001g	-1.96693	3.05E-11	5.63E-10
365241	Kcna7	-1.97593	1.84E-08	2.38E-07
366245	R3hdml	-1.98082	1.35E-10	2.31E-09
363830	Vpreb2	-1.9821	8.22E-04	0.004357
499670	RGD1560263	-1.98868	5.57E-04	0.003083
102556672	LOC102556672	-1.99179	0.11441333	0.253166
100911800	LOC100911800	-1.99493	0.08836121	0.209074
103693243	LOC103693243	-1.99731	0.1662275	0.330029
103695172	LOC103695172	-1.99731	0.1662275	0.330029
108348301	LOC108348301	-1.99731	0.1662275	0.330029
116506	Calcr	-1.99731	0.1662275	0.330029
171497	Sgk2	-1.99731	0.1662275	0.330029
24422	Gsta2	-1.99731	0.1662275	0.330029
246250	Retn	-1.99731	9.01E-05	6.03E-04
25376	Ambn	-1.99731	0.1662275	0.330029
25457	Gpr1	-1.99731	0.1662275	0.330029
289565	Arl9	-1.99731	0.1662275	0.330029
289949	Fam3d	-1.99731	0.1662275	0.330029
293267	Hbe1	-1.99731	0.1662275	0.330029
294661	S100z	-1.99731	0.1662275	0.330029
298320	RGD1561445	-1.99731	0.05024449	0.135338
300202	Olr1107	-1.99731	0.1662275	0.330029
300207	Tex49	-1.99731	0.1662275	0.330029
303491	Hoxb1	-1.99731	0.1662275	0.330029
306356	Cilp2	-1.99731	1.14E-08	1.53E-07
308794	Cfap161	-1.99731	0.05024449	0.135338
312913	Cpa6	-1.99731	0.05024449	0.135338
313936	Fam228a	-1.99731	0.05024449	0.135338
353228	Zar1	-1.99731	0.1662275	0.330029
500800	Ccdc105	-1.99731	0.1662275	0.330029
501199	Tmem232	-1.99731	0.05024449	0.135338
502731	Vwde	-1.99731	0.1662275	0.330029
50683	Sftpc	-1.99731	0.1662275	0.330029
680018	Ccdc36	-1.99731	0.05024449	0.135338
685099	Meiob	-1.99731	0.1662275	0.330029
685303	LOC685303	-1.99731	0.1662275	0.330029
690282	Tex28	-1.99731	0.1662275	0.330029
103693423	LOC103693423	-2.00454	0.04970377	0.134404
100912611	LOC100912611	-2.02249	0.00798048	0.030736
100361007	Adig	-2.0417	5.49E-05	3.87E-04
502573	RGD1562104	-2.05795	0.15148547	0.308594
100909462	LOC100909462	-2.06303	0.26657995	0.457801
296345	Jph2	-2.06903	3.73E-49	3.53E-47
297333	Smyd1	-2.07754	1.38E-34	9.28E-33
337868	Myod1	-2.07823	8.65E-04	0.004556

102555947	LOC102555947	-2.08317	0.1313209	0.279849
298795	LOC298795	-2.08969	1.93E-05	1.49E-04
100910102	Catsperb	-2.11278	2.52E-04	0.001536
64104	Tnmd	-2.11278	0.00965892	0.036006
680432	LOC680432	-2.115	0.13459789	0.284698
102554718	LOC102554718	-2.1176	0.47228602	0.66269
613222	Defa7	-2.11962	0.01931845	0.063632
686092	Tmem258b	-2.12302	0.05558809	0.146814
102555814	LOC102555814	-2.12366	8.65E-26	4.17E-24
64362	Des	-2.14572	3.58E-211	#####
298139	LOC298139	-2.15865	1.24E-06	1.21E-05
100364062	LOC100364062	-2.16206	1.18E-07	1.37E-06
103694424	LOC103694424	-2.16723	0.02867448	0.08705
24498	I16	-2.16723	0.02867448	0.08705
29148	Myog	-2.16723	0.02867448	0.08705
306281	Ptpn20	-2.16723	0.02867448	0.08705
310586	Flg2	-2.16723	0.02867448	0.08705
501675	Tmem114	-2.16723	0.00197341	0.009349
680019	Trim38	-2.16723	0.02867448	0.08705
500450	Tpm2	-2.19298	0	0
309760	Mypn	-2.19745	1.62E-24	7.28E-23
103689994	LOC103689994	-2.20349	0.03419418	0.100035
501934	LOC501934	-2.20376	0.03269513	0.096569
316740	Myom1	-2.209	1.17E-49	1.12E-47
364147	Yipf7	-2.2197	0.00561252	0.022815
305941	Sgcg	-2.23831	8.09E-08	9.57E-07
171409	Tnnt1	-2.24523	3.72E-13	8.29E-12
688862	Ip6k3	-2.24523	4.33E-06	3.82E-05
102554988	LOC102554988	-2.27156	0.00547495	0.022361
102550797	LOC102550797	-2.27231	0.09854994	0.226131
24785	Slc9a4	-2.27659	0.09277828	0.216699
301518	Prkag3	-2.27741	5.64E-10	8.97E-09
25295	Bglap	-2.28801	1.28E-82	2.07E-80
308779	Fsd2	-2.29009	1.29E-07	1.48E-06
338458	Obscn	-2.29149	1.56E-78	2.37E-76
56824	Ifit1	-2.30146	1.54E-09	2.33E-08
108351974	LOC108351974	-2.31923	0.08916859	0.210331
29173	Csn2	-2.31923	0.08916859	0.210331
293832	Magea10	-2.31923	0.08916859	0.210331
29605	Myh13	-2.31923	0.08916859	0.210331
299271	Serpina16	-2.31923	0.08916859	0.210331
300923	Nup62c1	-2.31923	0.0162221	0.055234
500257	Chst13	-2.31923	0.0162221	0.055234
500574	Pax7	-2.31923	0.08916859	0.210331
501023	Gfra1	-2.31923	0.08916859	0.210331
64637	Hand2	-2.31923	0.08916859	0.210331
681901	Utf1	-2.31923	0.08916859	0.210331
100911132	LOC100911132	-2.32499	0.08805979	0.208465
292316	Smok2a	-2.35345	0.082717	0.199689
365377	Trim72	-2.35876	1.56E-25	7.38E-24
302827	LOC302827	-2.35908	0.08168756	0.197881
108348213	LOC108348213	-2.37385	0.01369448	0.047979
287881	Ppp1r27	-2.41234	0.00185732	0.008874
301226	Apobec2	-2.41721	5.90E-28	3.12E-26
361002	Dusp13	-2.42704	4.43E-12	8.94E-11
307100	Calml3	-2.43788	1.40E-06	1.35E-05

246253	Adipoq	-2.45674	2.10E-34	1.40E-32
499972	Asb10	-2.45674	2.26E-04	0.001391
362708	Trim54	-2.47843	5.81E-20	2.06E-18
102552549	LOC102552549	-2.49564	3.69E-09	5.31E-08
367059	RGD1563738	-2.50663	0.13509236	0.285237
100912471	LOC100912471	-2.54643	2.61E-08	3.30E-07
684988	LOC684988	-2.55771	1.21E-16	3.59E-15
108352829	LOC108352829	-2.582	2.77E-09	4.03E-08
100910280	Sdr42e2	-2.58227	0.04760897	0.130051
102546663	LOC102546663	-2.58227	0.04760897	0.130051
114098	Ltb4r2	-2.58227	0.04760897	0.130051
116462	Ptcra	-2.58227	0.04760897	0.130051
116472	I117b	-2.58227	0.00508918	0.021036
317268	Arx	-2.58227	0.00508918	0.021036
365751	Trim55	-2.58227	7.44E-05	5.09E-04
499759	Ccdc187	-2.58227	0.04760897	0.130051
690388	Pla2g2f	-2.58227	0.04760897	0.130051
691300	RGD1565323	-2.58227	0.04760897	0.130051
84396	Atp1b4	-2.58227	7.44E-05	5.09E-04
287122	Rpl13l	-2.6329	4.22E-27	2.16E-25
294053	Ccnj	-2.65655	8.23E-35	5.58E-33
303556	Lrrc37a	-2.6661	0.02479785	0.077587
688173	Tcap	-2.66973	4.08E-09	5.84E-08
29242	Car4	-2.67108	1.50E-21	5.77E-20
25312	Dmp1	-2.70302	2.93E-22	1.18E-20
292905	Hrc	-2.70505	7.96E-67	1.04E-64
117537	Klhl41	-2.72349	8.99E-49	8.43E-47
25438	Eno3	-2.72623	0	0
103690175	LOC103690175	-2.75147	2.53E-31	1.51E-29
103690098	LOC103690098	-2.7658	0.01286181	0.045624
117505	Csrp3	-2.7726	2.27E-15	6.20E-14
100912172	LOC100912172	-2.77491	0.24418295	0.432481
100911148	LOC100911148	-2.79237	0.02558151	0.079439
24661	Pnmt	-2.80466	0.02535388	0.078906
27064	Ankrd1	-2.80466	7.51E-16	2.12E-14
286924	Gnat3	-2.80466	0.02535388	0.078906
498005	Asb16	-2.80466	7.75E-06	6.50E-05
24701	Pygm	-2.80484	0	0
499018	RGD1560015	-2.83971	3.74E-04	0.002181
500036	Ppp1r3a	-2.8428	7.13E-20	2.51E-18
302666	Asb11	-2.85529	8.29E-11	1.44E-09
367176	RGD1565653	-2.85918	0.01360164	0.047732
108352087	LOC108352087	-2.87925	4.65E-43	3.80E-41
684425	Adssl1	-2.94615	7.58E-79	1.16E-76
294388	Stox1	-2.99731	0.01348613	0.047397
363331	Plin4	-2.99731	1.04E-25	4.99E-24
690468	LOC690468	-3.01865	8.39E-22	3.29E-20
500267	Lmod3	-3.08477	3.25E-16	9.32E-15
259167	Art5	-3.09996	2.35E-04	0.001439
686019	Casq1	-3.13107	5.64E-261	#####
690423	Jsrp1	-3.13116	2.29E-15	6.24E-14
688915	Cmya5	-3.1322	2.52E-269	#####
362282	Pck1	-3.14863	4.49E-28	2.38E-26
100361706	LOC100361706	-3.16723	0.00717193	0.028059
298512	Rhbd12	-3.16723	1.43E-04	9.19E-04
309430	Dmrt2	-3.16723	0.00717193	0.028059

503446	Asb12	-3.16723	1.43E-04	9.19E-04
641642	Defb27	-3.16723	0.00717193	0.028059
690209	Nek211	-3.20446	0.00281939	0.012736
365560	RGD1566373	-3.21362	0.04952938	0.13418
291245	Actn2	-3.22145	1.23E-119	#####
290223	Fitm1	-3.22613	5.04E-15	1.34E-13
108352449	LOC108352449	-3.2432	1.55E-08	2.04E-07
54232	Car3	-3.31451	0	0
103690053	LOC103690053	-3.31923	0.0407898	0.114943
24904	Slc22a1	-3.31923	0.0407898	0.114943
290458	Trim52	-3.31923	0.0407898	0.114943
291179	Gpr141	-3.31923	0.0038158	0.01649
302971	Prss22	-3.31923	0.0407898	0.114943
303517	Tns4	-3.31923	0.0407898	0.114943
494222	Pfn4	-3.31923	0.0407898	0.114943
497794	Mug1	-3.31923	0.0407898	0.114943
499362	Lbx1	-3.31923	0.0407898	0.114943
500418	Cngb3	-3.31923	0.0407898	0.114943
83612	Slc32a1	-3.31923	0.0407898	0.114943
108348200	LOC108348200	-3.34214	0.0386434	0.110092
102553743	LOC102553743	-3.35627	0.03736087	0.107095
58968	Acan	-3.36343	2.15E-87	3.68E-85
100911107	LOC100911107	-3.37582	0.03563803	0.103166
367975	LOC367975	-3.44382	0.00195084	0.009256
54284	Pitx2	-3.45674	0.00203212	0.009582
25250	Cox8b	-3.49373	1.01E-16	3.01E-15
100909899	LOC100909899	-3.4962	8.84E-06	7.35E-05
364558	Palld	-3.51056	1.45E-06	1.40E-05
84015	Ttn	-3.54739	0	0
114207	Ryr1	-3.56583	1.01E-196	#####
59299	Trdn	-3.56732	1.11E-146	#####
297568	LOC297568	-3.58227	0.02084781	0.067726
364745	Lyz11	-3.58227	0.02084781	0.067726
54236	Cd5	-3.58227	0.02084781	0.067726
689864	Msgn1	-3.58227	0.02084781	0.067726
292720	RGD1563034	-3.58467	0.02070934	0.067351
100362987	LOC100362987	-3.63885	0.01777094	0.059533
311098	Xirp2	-3.64116	3.48E-232	#####
313954	Matn3	-3.66027	1.13E-16	3.35E-15
102548594	LOC102548594	-3.67312	0.01608719	0.054907
682930	Cacna1s	-3.71682	1.32E-106	#####
303862	RGD1562415	-3.79224	0.01118656	0.040627
100911675	LOC100911675	-3.80672	0.01068305	0.039089
100910447	LOC100910447	-3.8433	0.00949169	0.03548
117558	Mylk2	-3.85679	1.04E-99	1.99E-97
102548714	LOC102548714	-3.86238	0.0900897	0.211874
103689934	LOC103689934	-3.88483	0.00827139	0.031645
103689985	LOC103689985	-3.9042	1.72E-26	8.56E-25
680810	Lsmem1	-3.9042	5.01E-14	1.23E-12
364773	Akr1c13	-3.94591	0.00671125	0.026573
25714	Myf6	-3.9515	5.49E-08	6.63E-07
102550892	LOC102550892	-3.95893	0.00641199	0.025601
100909696	LOC100909696	-3.99731	0.00559321	0.022747
25099	Foxa2	-3.99731	0.00559321	0.022747
363831	Gsc2	-3.99731	0.00559321	0.022747
362018	Syp12	-4.14196	2.88E-62	3.58E-60

360730	Ostn	-4.16723	2.59E-05	1.96E-04
315833	Klhl31	-4.20656	7.19E-81	1.12E-78
362867	Mybpc1	-4.22105	9.93E-308	#####
497901	Leap2	-4.32351	6.58E-06	5.58E-05
498683	RGD1564382	-4.32643	0.0014991	0.007356
102548286	LOC102548286	-4.32787	0.00148961	0.007325
108348058	NEWGENE_1308612	-4.3478	0.00136296	0.006758
362895	Stac3	-4.3478	4.20E-24	1.85E-22
108349691	LOC108349691	-4.35204	0.00133728	0.006653
108348066	NEWGENE_1586233	-4.35486	0.00132043	0.006576
100910021	LOC100910021	-4.37026	0.00123155	0.006185
310681	Hjv	-4.38697	8.06E-124	#####
307982	Nrap	-4.39226	3.28E-122	#####
292879	Mybpc2	-4.4193	0	0
689274	Myoz3	-4.45674	6.07E-36	4.26E-34
171009	Actn3	-4.49874	0	0
287411	Dhrs7c	-4.52087	1.98E-27	1.03E-25
100362432	LOC100362432	-4.54821	5.24E-04	0.002923
316330	Ankrd23	-4.56578	2.08E-235	#####
29437	Acta1	-4.57484	0	0
366542	Six2	-4.58347	4.37E-04	0.002493
308873	Art1	-4.59861	4.51E-18	1.47E-16
25278	Cox6a2	-4.63812	1.15E-108	#####
302948	Sr1	-4.72825	2.38E-110	#####
25028	Ampd1	-4.77341	1.81E-95	3.29E-93
309772	Vgl12	-4.8302	1.03E-14	2.66E-13
296935	Lmod2	-4.83525	1.58E-34	1.06E-32
102547059	LOC102547059	-4.98372	4.16E-05	3.01E-04
679565	LOC679565	-5.02848	2.16E-57	2.45E-55
498440	Myoz1	-5.06562	3.48E-227	#####
102550650	LOC102550650	-5.07626	2.22E-05	1.70E-04
102555131	LOC102555131	-5.08123	0.03734574	0.107068
365009	Clec3a	-5.08477	1.77E-09	2.64E-08
287167	Hba-a1	-5.09934	2.47E-78	3.73E-76
24838	Tnnt3	-5.10245	0	0
100362283	Tmem52	-5.18713	9.79E-19	3.31E-17
360543	Myh4	-5.22301	0	0
116601	Atp2a1	-5.23013	0	0
24584	My1pf	-5.34165	0	0
287408	Myh1	-5.39489	0	0
102549712	LOC102549712	-5.4356	1.34E-06	1.30E-05
24265	Ckm	-5.50914	0	0
29389	Tnni2	-5.59009	0	0
102555328	LOC102555328	-5.6218	0.07365717	0.182775
103692976	LOC103692976	-5.62491	2.35E-07	2.59E-06
100362623	Mt1m	-5.63538	2.12E-07	2.35E-06
100911313	LOC100911313	-5.69572	2.67E-30	1.52E-28
100911166	LOC100911166	-5.70384	1.07E-07	1.25E-06
25708	Ucp3	-5.87995	1.38E-15	3.84E-14
296369	Tnnc2	-5.91177	0	0
304823	Igfn1	-5.91219	4.24E-87	7.21E-85
363925	My12	-5.9515	7.13E-09	9.79E-08
100361543	LOC100361543	-5.958	6.60E-09	9.12E-08
100912521	Nmrk2	-5.99731	4.13E-09	5.91E-08
56781	My11	-6.01835	0	0
29658	Cacng1	-6.16723	1.31E-18	4.38E-17

308622	Txlnb	-6.18713	4.77E-36	3.36E-34
100909700	LOC100909700	-6.20168	3.01E-10	4.93E-09
100359951	LOC100359951	-6.33644	4.48E-11	8.02E-10
103690173	LOC103690173	-6.47531	5.36E-12	1.07E-10
103694902	LOC103694902	-6.60532	5.43E-199	#####
108348161	LOC108348161	-6.9869	4.29E-16	1.22E-14
691644	Myh2	-7.02013	0	0
59108	Mb	-7.24523	0	0
100910177	LOC100910177	-8.04334	2.60E-29	1.43E-27
291605	Myot	-8.32104	3.07E-34	2.02E-32
100909761	LOC100909761	-8.8148	3.23E-88	5.59E-86
100036582	Olrl867			
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100126231	Mln			
100169711	Lcn11			
100270683	Taslr2			
100271845	LOC100271845			
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100310876	Tas2r136			
100310877	Tas2r116			
100310878	Tas2r106			
100310879	Tas2r104			
100310880	Tas2r117			
100310881	Tas2r129			
100310885	Tas2r113			
100310886	Tas2r103			
100312671	Vomlr60			
100312735	Vomlr103			
100312751	Vomlr64			
100312945	Vomlr17			
100359452	LOC100359452			
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100359692	LOC100359692			
100359777	LOC100359777			
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100359838	Rfpl4b			
100359873	Olfr873			
100359886	Krtap11-1			
100359968	LOC100359968			
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100360095	LOC100360095			
100360128	LOC100360128			
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100360521	LOC100360521			
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100361579	LOC100361579			
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100361639	RGD1562521			
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100361828	LOC100361828			
100361854	LOC100361854			
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100362122	LOC100362122			
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100362477	Fam90a1			
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100362567	Siglec11			
100362580	Spag11b1			
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100362696	Fam47a			
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Suppl. Table 5 All DEGs

Gene ID	Gene Symbol	Type	CPIP1 Read Count	CPIP2 Read Count	CPIP3 Read Count	CPIP4 Read Count	Sham1 Read Count	Sham2 Read Count
100361265	LOC100361265	mRNA	20.33	14.16	0.97	4	1	0
304954	Uap112	mRNA	9.56	24.79	5.52	24.76	0	0
108349682	LOC108349682	mRNA	0	70.6	72.25	36.12	36.13	0
685963	LOC685963	mRNA	60.5	60.7	78.04	69.37	0	40.47
691519	LOC691519	mRNA	10.35	12.6	17.96	16.61	4.11	10.04
59327	Twist2	mRNA	25	29	54	22	5	12
688900	Slfn1	mRNA	24.03	16.73	20	12.38	11.5	7.11
25660	Cd28	mRNA	17	20	29.07	30.98	9	9.03
29220	Thbs4	mRNA	1071	1624	3045	1435	486	772
100911660	LOC100911660	mRNA	30.32	38.47	26.38	31.84	20.35	13.52
304729	Gli2	mRNA	72	57	76	84	33	38
305431	Stk32b	mRNA	47	64	76	47	20	30
291555	Atp8b1	mRNA	54.74	57.74	124.35	71.83	29.96	50.34
29403	Asgr2	mRNA	78	61	77	60	24	25
292401	Smoc2	mRNA	439	373	814	738	279	353
83497	Ocln	mRNA	100.57	77.2	112.65	130.31	36.74	37.71
502160	Lvrn	mRNA	146	173	203	176	70	77
114020	Nat8f5	mRNA	42.78	33.51	31.05	54.84	25.62	13.18
679787	Clec5a	mRNA	67.01	39.57	66.17	68.6	35.09	29
29139	Dcn	mRNA	15622	16782	22653	17216	6427	8904
295279	Fcgr1a	mRNA	103	103	137	114	58	46
100364500	LOC100364500	mRNA	232.15	151.54	229.06	258.4	115.69	113.46
315039	Osr2	mRNA	86	111	166	91	53	57
117029	Ccr5	mRNA	135.83	76.78	136.57	105.36	70.03	52.91
66021	Cybb	mRNA	133	111	185	119	71	72
65129	Cldn1	mRNA	1116	815	1137	1341	466	432
140586	Sox9	mRNA	64.86	85.46	114	100.51	33	62.72
362430	Clec4a1	mRNA	102.26	108.15	118	97.86	60	43.95
316638	Sned1	mRNA	950.95	1135.49	1440.62	1347.78	569.54	772.7
311426	Siglec1	mRNA	108.63	114.52	164.23	137.42	78.81	89.78
306616	Myom2	mRNA	256	348	253	274	357	848
365949	LOC365949	mRNA	36.62	54.14	10.28	30.28	46.7	48.77
287382	Mfap4	mRNA	297	110.04	134.04	126.39	526	422.8
297339	Capg	mRNA	267	375	525	241	821	1270
246298	Retsat	mRNA	650	677	650	601	2129	2060
29437	Acta1	mRNA	210.48	144.06	148.81	399.48	5177.32	15597.39
24838	Tnnt3	mRNA	31	30	42	83	1764	4419
360543	Myh4	mRNA	33.64	9.12	11.18	114.85	2894.57	3166.12
100912521	Nmrk2	mRNA	0	0	0	0	8	22
317418	Tsr2	mRNA	0	239.86	470.02	379.86	0	0.01
100912618	LOC100912618	mRNA	0	61.85	0	21.07	0	0
100910581	LOC100910581	mRNA	119	0	65.54	92	0	0
300802	Aph1b	mRNA	0	0	121.81	96.21	0	0
103691556	LOC103691556	mRNA	0	3.78	0	272.78	0	1.25
102550456	LOC102550456	mRNA	70.49	0	0	0	0	0
108349606	LOC108349606	mRNA	0	32.58	0	18.99	0	0
100911233	LOC100911233	mRNA	0	13.86	20.69	8.1	0	0
100912399	LOC100912399	mRNA	13.04	9.9	18.72	0	0	0
684969	Potef	mRNA	0	0	17.74	21.2	0	0

100910616	Hmgn5	mRNA	0	11.41	15.97	3.96	0	0
108348106	LOC108348106	mRNA	0	0	23.96	0	0	0
100909795	LOC100909795	mRNA	0	0	0	22.59	0	0
100911564	LOC100911564	mRNA	5.9	10.35	4.76	0	0	0
690146	RGD1584023	mRNA	10.05	0	5.98	0	0	0
297402	RGD1560795	mRNA	7.78	0	7.84	0	0	0
102552708	LOC102552708	mRNA	6.88	4.82	2.97	0	0	0
81828	Zp2	mRNA	0	1	0	21	0	1
364991	Slc25a36l1	mRNA	0	28.43	17.21	0	0	0
24856	Ttr	mRNA	31	2	35	1	3	1
679149	LOC679149	mRNA	9.74	2	10.01	1	1	1
500338	Klrc3	mRNA	6.53	5	2	5	0	1
60333	Msln	mRNA	0	39	371	12	3	10
100912262	LOC100912262	mRNA	0	19.82	0	14.9	0	0
108352634	LOC108352634	mRNA	9.33	0.35	12.62	0.02	0.27	0.19
498109	Polr2h	mRNA	47.42	154	107.59	167	0	25.42
295041	Stoml3	mRNA	4.89	3.86	23.2	6	0	1.01
100909830	LOC100909830	mRNA	16.08	0	10.72	5.36	5.36	0
100910678	LOC100910678	mRNA	32.83	10	0	12.89	0	0
100360880	Fosb	mRNA	44	29	33	621	37	44
100365810	LOC100365810	mRNA	0	16.87	48.98	27.43	16.78	0.49
100911168	LOC100911168	mRNA	0	6.31	15.23	13.4	3.04	0
499322	Fam111a	mRNA	37	32	50	542	35	39
25453	Gdnf	mRNA	1	4	20	3	0	1
494206	Ly49si1	mRNA	51.29	2.1	7.46	9.5	3.61	1.17
360649	RGD1359290	mRNA	372.23	159.41	151.03	128.78	0	1.36
100910308	LOC100910308	mRNA	125.14	238.42	200.84	172.79	0	100.29
494207	Ly49si2	mRNA	5.52	5.77	16.49	6.61	0	4.77
54242	Cpa3	mRNA	10	57	199	32	21	14
108351097	LOC108351097	mRNA	173.69	133.17	3013.93	146.25	254.78	441.13
689790	Clec2d11	mRNA	3	8.83	32.18	4.94	0	5.12
306748	Cxcl14	mRNA	53	183	508	33	33	126
108348150	LOC108348150	mRNA	14.79	53.94	14.42	13.02	15.91	0
100911090	LOC100911090	mRNA	133.82	67	70.63	0	0.01	0
108348438	LOC108348438	mRNA	10.99	18.42	15.94	13.8	0	1
498169	RGD1561730	mRNA	7.68	17.63	32.46	5.33	7.81	0
100912573	Ms4a6e	mRNA	0	20.65	41.3	0	0	0
305811	Rcor2	mRNA	120.85	0	34.31	61.02	0	48.86
309209	Vwce	mRNA	9.53	8	20.59	16.6	0	8.58
305858	Otx2	mRNA	10.63	17.15	13.18	18.45	5.14	5.33
685245	Ears2l1	mRNA	13.86	0	22.85	18.49	12.32	8.19
498335	Cxcl13	mRNA	84	95	272	64	42	36
289337	Tlr5	mRNA	20	49	162	29	14	29
100360872	Mcpt1l1	mRNA	39.98	166.97	502.98	97.99	44.94	80
108352465	LOC108352465	mRNA	19.4	13.3	15.32	8.83	4.7	6.59
100911485	LOC100911485	mRNA	22.53	38.66	7.48	7.02	7.69	7.61
170847	Kcnj15	mRNA	100.02	62.03	221.58	197.67	43.84	36.02
301012	Col7a1	mRNA	24	26	126	13	14	25
315870	Tbx18	mRNA	144	182	369	245	57	74
102553715	LOC102553715	mRNA	0	55.96	55.96	74.61	0	24.2
310738	Ngf	mRNA	18	10	46	40	2	6
24695	Pthlh	mRNA	23	8	29	12	5	8
114122	Vcan	mRNA	157	467	1107	239	139	224
25661	<td>mRNA</td> <td>2436</td> <td>5396</td> <td>18430</td> <td>4833</td> <td>2076</td> <td>4806</td>	mRNA	2436	5396	18430	4833	2076	4806
287813	Igsf7	mRNA	23.41	26.86	71.57	31.49	13.14	6.5
292793	Sbsn	mRNA	31	112	253	63	38	78

690479	Bpifb5	mRNA	51	100	93	79	2	52
685157	LOC685157	mRNA	24.59	38.59	36.18	23.32	36.56	0
308099	Fndc1	mRNA	209	433	1298	294	147	287
25694	Has2	mRNA	53	91	111	50	28	34
25627	Cma1	mRNA	9	25	78	19	12	21
310926	LOC310926	mRNA	134.3	118.83	1126.07	107.75	183.2	288.86
292777	Tbcb	mRNA	43.6	30.91	12.5	43.34	6.21	31.25
363071	Stra6	mRNA	60	61	256	126	36	33
102547294	Iqcn	mRNA	15	17	34	16	10	11
25253	Dpp4	mRNA	161	201	573	173	69	110
84007	C3ar1	mRNA	59.4	73	137.15	66.07	21.4	26.97
501031	RGD1560775	mRNA	30.2	18.15	20.58	32.38	20.97	14.32
287561	Cc17	mRNA	34	36	42	79	17	13
100912450	LOC100912450	mRNA	111.59	32.4	19.28	61.74	8.03	28.72
100911615	LOC100911615	mRNA	0	550.63	0	0	0	0
83584	Casp6	mRNA	21.23	36.97	14.02	23.62	13.37	28.38
100363268	LOC100363268	mRNA	64.22	66.9	0	0	44.75	0
292594	Lilrb4	mRNA	46	28	55	16	17	25
108348142	LOC108348142	mRNA	35.82	41.55	18.66	25.02	10.6	13.08
108348094	NEWGENE_13063	mRNA	106.18	119	116.27	107	0	58.5
365395	Clcf1	mRNA	16	17	56	17	9	13
103690020	LOC103690020	mRNA	39.34	40.03	27.17	14.42	4.7	10.63
100910669	LOC100910669	mRNA	31	39.51	53.99	79.73	47.51	20.19
192203	Fap	mRNA	57	71	147	69	26	51
303856	Atp13a5	mRNA	24	15	16	53	5	4
103690038	LOC103690038	mRNA	0	0	91.29	220.96	0	0
24237	C6	mRNA	43	36	223	22	34	36
100911599	LOC100911599	mRNA	81.31	49.13	72.36	30.6	21.27	39.92
113918	Slc6a20	mRNA	277.96	121.66	227.73	681.98	44.95	83.45
24617	Serpine1	mRNA	88.47	106.57	311.23	187.04	82.87	123.77
192262	C1s	mRNA	1512	1505	2972	1785	632	954
29132	Atp1a4	mRNA	38.64	20.71	23.25	48.55	13.71	9.03
690955	Lilrb3b	mRNA	76.59	115	78.28	7.78	54.7	40.68
501416	LOC501416	mRNA	128.19	124.1	114.94	32.59	53.15	37
108348047	LOC108348047	mRNA	97.96	189.62	234.3	121.47	74.68	73.02
366270	Edn3	mRNA	25	22	67	20	13	18
685590	LOC685590	mRNA	54.32	26.75	18.35	76.69	40.59	26.72
298579	Pla2g2d	mRNA	30	52	171	32	25	41
316137	Adgre1	mRNA	191	279	447	294	107	132
362741	Pax9	mRNA	54.98	41	48	83	18	19
103690108	LOC103690108	mRNA	1216.14	505.68	1452.47	1901.53	480.25	552.08
689008	Fbn2	mRNA	68	100	173	120	42	43
25293	Aqp4	mRNA	123.58	15.22	65.07	93.74	27	47.54
688583	LOC688583	mRNA	62.87	36.02	62.51	14.79	32.27	21.57
684440	Tlr8	mRNA	58	65	104	61	27	18
304966	Fcgr3a	mRNA	39	23	52	30	17	21
108348048	LOC108348048	mRNA	2637.89	1198.12	3404.25	3956.83	70.28	3358.18
29252	Gzmm	mRNA	41	31	23	33	13	12
25314	Emp1	mRNA	1098	1363	3017	1229	647	989
24886	Tbxas1	mRNA	37	43	83	33	21	28
100909441	LOC100909441	mRNA	914.67	1036.04	752.14	1288.45	0	704.06
60327	F13a1	mRNA	153	149	495	84	87	129
494199	Oas1f	mRNA	117.32	105.63	68.47	28.48	30.15	37.2
501668	Dmrtcla	mRNA	55.22	40.72	77.1	14.94	34.55	34.23
688913	Dcun1d2	mRNA	263.85	157.64	87.01	212.97	178.2	128.17
303384	Mmp28	mRNA	37.99	67.72	47.66	57.26	14.19	57.92

100362113	LOC100362113	mRNA	192.9	179.05	181.22	126.28	109.41	47.2
113892	Nat8f3	mRNA	248.39	195.27	131.17	299.6	100.52	119.74
24231	C2	mRNA	398	493	805	437	220	322
308350	Lilrb3	mRNA	18	74	49	29	32	23
116487	Tgfb1	mRNA	1896	2518	3532	2828	1106	1339
313504	Foxd2	mRNA	143.95	124	166.3	141.91	61	57.56
100912068	LOC100912068	mRNA	66.86	61.2	75.46	63.55	27.13	31.13
366452	Ptch2	mRNA	157	177	234	238	64	91
25236	Gpc3	mRNA	1139	1525	2631	1888	537	958
246266	Aspg	mRNA	36	74	97	34	19	46
293154	Folr2	mRNA	94	110	211	81	46	61
108348044	LOC108348044	mRNA	37.12	42	89.86	37.12	21	33
100909455	LOC100909455	mRNA	45.18	23.29	51.11	27.63	11.05	21.62
298861	Ptchd1	mRNA	411.13	262.53	291.13	270.28	237.97	133.42
301227	Trem2	mRNA	81	105	168	73	60	45
306454	Cldn22	mRNA	53.13	22.02	34	32.8	9.47	16.45
24653	Pla2g4a	mRNA	37	39	92	55	28	21
89829	Socs3	mRNA	142	176	325	309	145	153
689257	Adgrd1	mRNA	178	124	216	157	68	97
313831	Vit	mRNA	243	334	491	374	118	209
448830	Ly96	mRNA	72.02	38.3	58.75	56.3	32.42	30.53
25021	Itgam	mRNA	79.17	100.74	215	58	67.02	53
108351105	LOC108351105	mRNA	54.82	60	78	90	19	24.43
25239	Apod	mRNA	19875	24987	40158	18965	10232	14373
294257	Cfb	mRNA	94	104	192	85	62	68
108349608	LOC108349608	mRNA	29.82	62.08	42.31	21	23.36	6
394266	Gjb2	mRNA	166	72	244	407	48	57
498638	Msr1	mRNA	96.86	106.67	251.93	105.43	78.02	55.99
100910688	LOC100910688	mRNA	50.52	29.41	50.67	23.82	15.47	15.95
499271	Itgax	mRNA	46	52.65	69.74	52.95	25.81	20.93
498022	RGD1559482	mRNA	18.22	36.1	85.52	36.32	27.45	35.25
304988	Mnda	mRNA	60.71	67.71	94.91	36.12	27.27	43.14
24379	Gad1	mRNA	37	43	29	56	15	21
292406	Thbs2	mRNA	415	765	1781	647	374	667
24536	Lepr	mRNA	316	275	505.22	409	153.19	128.08
25383	Apobec1	mRNA	55	81	133	48	39	45
108348111	LOC108348111	mRNA	33.5	83.75	50.25	50.25	33.5	50.25
362431	Clec4a3	mRNA	85	80	95	53	37	38
100912590	LOC100912590	mRNA	90.31	18.06	54.18	126.43	33.82	54.18
304021	Col8a1	mRNA	157	193	629	210	192	146
171339	Dnah1	mRNA	47	40	44	31	22	30
498781	RGD1561231	mRNA	45.49	123.72	145.84	119.38	54.53	65.75
64552	Mpeg1	mRNA	562.86	666.92	801.13	568.18	329.53	326
114099	Cysl1r1	mRNA	34	47	70	46	19	24
81682	Lum	mRNA	3019	2925	4754	3545	1467	1917
24233	C4a	mRNA	251.87	328.46	755.23	238.38	195.26	298.85
24330	Egr1	mRNA	272	239	177	1300	354	316
85272	Bmp7	mRNA	72	105	231	103	54	74
312701	Cd163	mRNA	272	201	346	158.08	153	206.98
361221	No18	mRNA	111.67	50.57	13.18	131.28	22.82	67.75
299737	Ntn4	mRNA	228	327	436	310	164	188
317181	Srpx2	mRNA	37	60	116	37	19	37
287231	RGD1559575	mRNA	98	66	123	101	51	41
679975	Gpr183	mRNA	51	46	54	52	20	20
114523	Ntn1	mRNA	150	87	243	224	78	88
171452	Rab31l1	mRNA	141	130	157	196	65	91

64033	Ccnd2	mRNA	100	116	240	163	69	103
140594	Syt14	mRNA	37.01	41	64.03	38.01	19.01	29
445442	Thbs1	mRNA	246	236	466	653	268	184
296952	Kcp	mRNA	35	61	128	65	26	59
94341	Kcnj13	mRNA	91	47	76	114	33	30
311425	Adam33	mRNA	132	77	127	123	50	74
315979	Col6a6	mRNA	404.09	360.64	645.16	694.56	275.67	291.21
100360801	Ddx60	mRNA	58.15	69.39	63.12	82.83	44.12	69.13
114247	Slnf4	mRNA	376.31	329.52	397.92	348.25	369.61	232.69
361821	Col6a2	mRNA	2192	2336	3570	2547	1173	1885
361289	Colec12	mRNA	225	278	431	278	126	162
299699	Aldh112	mRNA	52	46	64	50	31	43
298566	C1qa	mRNA	378	356	692	333	228	236
29200	Inhba	mRNA	48.5	38.53	129.25	64.2	29	46.37
297411	Tprkb	mRNA	139.78	204.79	452.72	133.94	218.7	44.62
81523	Myoc	mRNA	5509	6926	8155	6122	2429	3541
103689965	LOC103689965	mRNA	263.59	428.84	866.72	338.1	232.5	465.37
691499	Zfp469	mRNA	106	109	244	142	73	117
312677	Ccdc77	mRNA	254	145	155	67	136	63
362550	Ror1	mRNA	78	83	108	137	49	45
554353	Gpr34	mRNA	43	54	82	53	32	25
311835	Ddx31	mRNA	106	166	212	190	114	102
24188	Aldh1a1	mRNA	698	861	959.89	871.79	377	466
89843	Cxadr	mRNA	1075	914	1560	1605.1	545	600
353227	Zbtb16	mRNA	657.98	310.05	355.22	323.43	311.23	454.06
100910978	LOC100910978	mRNA	151.71	168.21	165.13	241.93	104.24	172.83
499991	Steap4	mRNA	467	498	594	644	277	323
295703	Serping1	mRNA	2195	2223	3664	3115	1280	1597
102553405	LOC102553405	mRNA	59.8	57.32	92.61	64.4	47.95	44.91
60423	Slc28a2	mRNA	139.74	132.35	158.9	79.21	82	108
24329	Egfr	mRNA	374.28	357.38	518.49	547.65	196.13	240.67
311252	Pamr1	mRNA	113	146	302	123	70	142
307414	MGC108823	mRNA	119.99	68.34	114.97	93.19	54.98	74.98
317227	Tlr13	mRNA	90	91	100	87	47	44
687424	Dtx1	mRNA	362	353	485	472	165	231
140927	Selenbp1	mRNA	0	188.76	0	94.38	0	0
117253	Dnah11	mRNA	136.96	156.16	255.24	189.65	80.68	112.19
140930	Faim	mRNA	140.12	135.95	120.85	142.61	190.61	231.15
102552640	LOC102552640	mRNA	115.15	173	162.69	152.98	247	225.14
24299	Cyp2a3	mRNA	50	44	2	72	61	71
103690045	NEWGENE_13101	mRNA	56.38	117.13	64.67	100.44	140	106.91
108348062	LOC108348062	mRNA	128.42	267.17	121.18	0	83.18	290.43
56765	Plvap	mRNA	319	162	171	130	321	368
29395	Hmgb2	mRNA	117.68	92.35	142.64	104.16	292.89	221.01
305104	Col9a1	mRNA	88	64	210	120	42	449
681896	Slc25a18	mRNA	50	43	38	45	56	76
252942	Myh8	mRNA	48.37	36.4	36.06	38.89	59.04	61.45
81633	Acta2	mRNA	532.92	404.01	420.88	330.98	519.98	1141.94
100911295	LOC100911295	mRNA	296.64	181.28	346.07	197.76	379.03	494.39
108348085	LOC108348085	mRNA	98.54	0	138.03	69.02	241.51	103.53
108348143	LOC108348143	mRNA	0	43.13	24.96	48.58	78.49	39.49
171052	Mmp13	mRNA	140	158	125	118	186	382
25304	Comp	mRNA	154	176	178	175	172	533
100363439	Rps1011	mRNA	510.95	1056.98	544.8	99.18	1100.75	977.05
64543	Sec1413	mRNA	662.01	580.93	817.68	696.46	2040.53	552.62
81648	Crh	mRNA	221	125	100	134	196	153

64032	Ctgf	mRNA	316	160	184	246	352	520
360479	LOC360479	mRNA	38	30	36	6	52	46
498587	Ldb3	mRNA	393	376	403	439	677	1070
688972	Gypa	mRNA	61	31	79.06	7	125.2	92.84
64317	Gpx3	mRNA	296	211	266	192	258	653
304131	Map3k7c1	mRNA	30	33	27	37	34	102
100911372	LOC100911372	mRNA	146.81	107.66	137.02	107.66	254.47	185.96
24779	Slc4a1	mRNA	214.5	145	408.94	33	601	371
316632	Ndufa1011	mRNA	0	640.53	476.47	613.78	611.12	615.72
289178	Dpt	mRNA	107	129	208	30	201	290
25139	Slc2a4	mRNA	47	49	54	50	85	147
683463	Lilrb3a	mRNA	23.7	1.08	36.08	32.91	8.33	0
108348157	LOC108348157	mRNA	34.25	17.12	73	17.12	85.62	81
171055	Cd79b	mRNA	38	13	45	6	61	62
29747	Kcnmb1	mRNA	51.81	17.69	13.28	21.7	43.63	70.45
29301	Hal	mRNA	35	23	27	16	34	41
499146	Spib	mRNA	63	33	88	12	112	146
289316	Lefty2	mRNA	38.31	44.09	60.54	45.5	170.79	39.53
294312	Pi16	mRNA	246	94	177	88	375	245
311029	Neb	mRNA	230	680	762	288	843	1932
316010	Camp	mRNA	91	56	114	2	153	113
301026	Ngp	mRNA	345	160	299	36	476	339
102555319	LOC102555319	mRNA	1.2	57.86	66.84	112.46	107.56	122.42
246172	Nexn	mRNA	97	66	76	117	145	265
500377	Tuba8	mRNA	55	43	38	52	67.84	120.92
688459	LOC688459	mRNA	32	15	16	29	50	39
100909869	LOC100909869	mRNA	63.67	50.51	31.98	59.04	89.01	95.2
300475	Adamts8	mRNA	194	221	153	206	401	333
444983	Apold1	mRNA	90	148	74	368	323	303
81639	Alox15	mRNA	44	34	72	11	111	85
303413	Mpo	mRNA	91	32	141	8	170	144
25043	Eln	mRNA	376	255	316	229	456	808
64507	Fmod	mRNA	153.78	127.15	175.84	224.25	183.57	613.01
498066	Sh3bgr	mRNA	145	137.17	132	188	235	415
103689936	Wbp1111	mRNA	381.19	377.73	370.94	0.06	516.85	335.55
297412	Dusp11	mRNA	55.36	23.14	23.62	27.8	65.06	59.1
313776	Perml	mRNA	25.02	31.74	12.02	30.69	41.03	67.12
298485	Ermap	mRNA	21.52	10.87	25.92	6.11	44.27	38.23
301097	Vwa5a	mRNA	1480.11	2849.88	500.75	313.17	3986.72	581.82
360737	Tbx1	mRNA	30	23	40	14	56	37
290880	Adprh11	mRNA	17	7	16	25	20	58
294279	Col11a2	mRNA	210.73	199.7	201.59	301.61	225.52	948.3
25732	Acp5	mRNA	54	87	128	85	82	448
310694	Fcrl2	mRNA	9	16	38	19	13	19
84387	Pglyrp1	mRNA	23	16	28	6	46	32
298559	Tcea3	mRNA	27	22	29	33	55	72
103690105	LOC103690105	mRNA	61.52	0	18.26	14.58	56.94	32.12
100911917	LOC100911917	mRNA	59.76	51.23	59.76	42.69	102.45	93.92
50565	Hspb7	mRNA	50	37	21	24	55	130
140939	Trim63	mRNA	32	13	19	21	44	74
100360218	LOC100360218	mRNA	29.67	10.7	5.98	17.98	55.66	8.21
291312	Ucma	mRNA	20	19	11	9	16	58
80878	Slc16a3	mRNA	30.3	25.67	33.05	23.32	60.13	105.04
171375	Atp5f1	mRNA	0	0	0	234.1	0	0
363276	Snorc	mRNA	23	21	15	13	14	90
103694169	LOC103694169	mRNA	0	20.49	0	43.12	0	74.18

295426	Myoz2	mRNA	7	12	12	10	30	30
100910446	LOC100910446	mRNA	0	0	111.5	0	59.21	95.39
108348326	LOC108348326	mRNA	67.02	26.28	21.59	13.18	15.4	56.45
29576	Wisp2	mRNA	32	27	15	32	101	65
365550	Vpreb3	mRNA	13.47	6.38	11.46	5.02	25.34	35.16
170840	Slc40a1	mRNA	35.56	28.99	18.99	36.42	35.42	59.85
29155	Capn3	mRNA	11	23	29	22	44	84
360742	Dgcr2	mRNA	0	0	0	39.98	87.3	0
303468	Sgca	mRNA	6	14	17	10	15	69
299606	Elane	mRNA	20	6	19	0	41	30
303373	Unc45b	mRNA	14	10	14	13	36	49
291084	Nqo2	mRNA	77	69	69	304	288	243
499923	Efcab8	mRNA	19	12	14	7	37	19
297748	Jph1	mRNA	20	12	17	17	41	80
690139	Rbm24	mRNA	2	7	7	14	17	34
286965	Abra	mRNA	11	32	5	28	42	69
361003	Dupd1	mRNA	10	8	5	8	17	40
294071	Hells	mRNA	7.38	3.53	24.62	0	28.65	19.48
65204	Cnn1	mRNA	45	21	7	8	27	116
315962	Ky	mRNA	24	25	20	39	79	122
81687	Mmp9	mRNA	52	46	90	9	126	247
100911186	LOC100911186	mRNA	42.93	0	0	42.93	128.78	42.93
24585	Myl3	mRNA	15	9	9	12	42	54
301039	Susd5	mRNA	17	13	6	10	8	84
102555557	LOC102555557	mRNA	0	22.35	0	46.36	92.51	26.52
289482	Naa11	mRNA	13.9	10	5	10	6	16
29195	Chad	mRNA	33.13	25.15	33.21	19.37	24.29	241.39
25357	Thrsp	mRNA	27	3	0	0	1	62
100359528	RGD1565987	mRNA	14.95	1.07	0	9.36	18.15	11.74
57809	Rpl35a	mRNA	0	0	44.01	0	0.03	19.9
100910755	LOC100910755	mRNA	0	8.49	0	7.83	13.41	11.34
686087	LOC686087	mRNA	0	0	25.09	0	0	73.25
501129	Tmem182	mRNA	3	8	6	11	18	47
295261	Tmod4	mRNA	38	31	42	28	78	248
299266	Asb2	mRNA	20.21	16	32	34.94	82	152
84022	Ghsr	mRNA	9	5	10	5	8	39
500292	Cidec	mRNA	14	5	3	3	1	58
24583	Myh3	mRNA	15.01	11.66	12.91	13.54	21.62	117.96
498579	RGD1564899	mRNA	14.99	24.12	27.98	24.98	54.95	192.91
684993	Ppp1r35	mRNA	0	87	48.46	0	102	115
25412	Col2a1	mRNA	693	1025	903	812	642	8645
365298	Alpk3	mRNA	29	19	13	25	71	171
679629	Smtnl2	mRNA	7	11	9	6	31	56
100912534	LOC100912534	mRNA	126.58	0	58.41	0	160	126.58
25629	Plin1	mRNA	23	2	1	3	2	67
24477	Ibsp	mRNA	44	59	42	43	111	422
680319	Tceal7	mRNA	6	2	9	4	17	48
295531	Tnni3k	mRNA	18	23	27	23	20	77
304913	Tnn	mRNA	3	7	3	2	8	35
25365	Actg2	mRNA	49	9	9	8	35.32	160.01
24959	Pgam2	mRNA	79	76	91	104	320	681
140727	Cacng6	mRNA	1.83	1.6	2.11	5.46	13.57	21.52
100910104	Xirp1	mRNA	7	14.45	4.16	8	22	73
304551	Myo18b	mRNA	12.14	15	18	17.66	61	137.93
114108	Pdlim3	mRNA	38	32	29	26	110	288
29353	Phkg1	mRNA	5	1	10	3	21	39

305675	Synpo21	mRNA	25.76	17.7	19.06	27.57	85.91	183.59
310552	Sfrp2	mRNA	34	7	4	6	94	39
100364457	LOC100364457	mRNA	42.84	0	0	0	47.73	0
500453	Pax5	mRNA	4	1	3	1	10	15
79451	Fabp4	mRNA	108	7	17	7	43	380
308637	Ano5	mRNA	10	7	4	11	31	75
311167	Smtn11	mRNA	7	4	4	7	17	56
84594	Nfs1	mRNA	36.72	130.25	107.39	16.54	157.64	913.79
684984	Cd3001g	mRNA	1	13	0	10	0	20
365241	Kcna7	mRNA	6	5	4	2	13	46
366245	R3hdml	mRNA	3	9	8	2	6	63
246250	Retn	mRNA	6	1	1	0	5	19
306356	Cilp2	mRNA	6	5	5	1	17	39
100361007	Adig	mRNA	3	1	1	3	3	21
296345	Jph2	mRNA	24	15	38	26	94	290
297333	Smyd1	mRNA	14.55	19.48	10.17	26.36	89.11	171.03
298795	LOC298795	mRNA	0	3.17	0	5.26	11.63	11.17
102555814	LOC102555814	mRNA	16.27	9.52	11.8	11.11	56.78	122.37
64362	Des	mRNA	98	98	139	78	435	1171
298139	LOC298139	mRNA	2.85	2.02	3.04	2.02	7.06	27.22
100364062	LOC100364062	mRNA	6.92	0	0	4.88	19.47	21.83
500450	Tpm2	mRNA	255	195	224	190	792	2688
309760	Mypn	mRNA	10	16	4	12	46	112
316740	Myom1	mRNA	21	14	25	27	108	238
305941	Sgcg	mRNA	6	1	4	0	10	35
171409	Tnnt1	mRNA	6	5	5	4	32	48
688862	Ip6k3	mRNA	3	1	1	3	8	23
301518	Prkag3	mRNA	4	6	2	2	21	37
25295	Bglap	mRNA	44.01	43.12	26.35	19.8	130.19	450.14
308779	Fsd2	mRNA	5	1	2	2	18	28
338458	Obscn	mRNA	23	24	35	44	166	381
56824	Ifit1	mRNA	3.13	3.2	4.38	2.19	4.29	3
365377	Trim72	mRNA	10	9	11	6	40	122
301226	Apobec2	mRNA	15	5	10	7	55	120
361002	Duspl3	mRNA	2	3	3.59	6	16.24	53.29
307100	Calml3	mRNA	7	0	0	0	1	27
246253	Adipoq	mRNA	40	2	0	2	1	200
362708	Trim54	mRNA	10	5	3	6	32	93
102552549	LOC102552549	mRNA	0	0	9.78	0	17.48	9.62
100912471	LOC100912471	mRNA	3.54	4.68	0	0	5.96	0.85
684988	LOC684988	mRNA	0	17.97	0	0	18.01	53.87
108352829	LOC108352829	mRNA	9.01	0	0	0	27.02	9.01
365751	Trim55	mRNA	2	2	0	0	8	14
84396	Atp1b4	mRNA	0	2	2	0	0	19
287122	Rpl31	mRNA	5	6	10	7	46	102
294053	Ccnj	mRNA	1.82	0	33.73	0	98	58.5
688173	Tcap	mRNA	3	2	0	3	13	34
29242	Car4	mRNA	2	8	1	10	3	38
25312	Dmp1	mRNA	7	9	1	4	26	100
292905	Hrc	mRNA	16.03	13.72	15.6	21.03	128.98	275.97
117537	Klhl141	mRNA	15	11	7	14	52	232
25438	Eno3	mRNA	73	98	77	103	588	1547
103690175	LOC103690175	mRNA	0	0	28.69	0	66.34	127.22
117505	Csrp3	mRNA	0	1	10	2	7	71
27064	Ankrd1	mRNA	2	4	3	4	6	72
498005	Asb16	mRNA	0	3	0	1	7	19

24701	Pygm	mRNA	137.12	111.14	135.13	194.2	1132.69	2553.65
500036	Ppplr3a	mRNA	3	5	0	8	35	71
302666	Asb11	mRNA	1	4	3	0	21	33
108352087	LOC108352087	mRNA	4	7	11	13	53	176
684425	Adssl1	mRNA	23	9	17	12	143	297
363331	Plin4	mRNA	15	0	1	2	17	113
690468	LOC690468	mRNA	0.33	14.43	0	0	43.28	18.86
500267	Lmod3	mRNA	2	2	2	4	23	56
686019	Casq1	mRNA	46.02	28.81	42.86	53	340.04	1042.12
690423	Jsrp1	mRNA	3	2	1	3	22	49
688915	Cmya5	mRNA	59	30	29	58	401	1036
362282	Pck1	mRNA	16	0	1	0	0	124.04
298512	Rhbd12	mRNA	0	2	0	0	5	6
503446	Asb12	mRNA	1	0	0	1	3	14
291245	Actn2	mRNA	27.44	11.88	13.72	17.93	138.88	488.55
290223	Fitm1	mRNA	3	0	1	4	19	53
108352449	LOC108352449	mRNA	4.11	0	0	0	3.69	10.22
54232	Car3	mRNA	298	15	7	47	714	2650
58968	Acan	mRNA	15	11	9	10	11	436
25250	Cox8b	mRNA	3	2	1	1	18	55
100909899	LOC100909899	mRNA	0	0	0	2	0	11.8
364558	Palld	mRNA	1.32	1	0	0	9.36	17.13
84015	Ttn	mRNA	128	110	78	148	1251	3829
114207	Ryr1	mRNA	21.09	15	21	28.01	250.04	704.64
59299	Trdn	mRNA	20.7	8.96	14.35	19.13	171.04	502.26
311098	Xirp2	mRNA	25	13	26	30	209	898
313954	Matn3	mRNA	2	0	2	2	1	70
682930	Cacnals	mRNA	6	12	7.93	14	143	364
117558	Mylk2	mRNA	5	2	18	8	119	322
103689985	LOC103689985	mRNA	1	2	1	4	28	87
680810	Lsmem1	mRNA	1	2	0	1	15	40
25714	Myf6	mRNA	0	0	1	1	8	22
362018	Syp12	mRNA	4	5	1	6	76	198
360730	Ostn	mRNA	0	0	0	1	4	14
315833	Klhl31	mRNA	5.98	2.03	5.05	6.78	120.91	230.46
362867	Mybpc1	mRNA	17	19	8	32	261	1110
497901	Leap2	mRNA	0	0	1.01	0	5.31	14.95
362895	Stac3	mRNA	1	1	2	1	30	68
310681	Hjv	mRNA	9.14	2.26	3.57	11.49	150.09	382.61
307982	Nrap	mRNA	5	5	4	12	80	446
292879	Mybpc2	mRNA	28.64	9.24	20.08	34.06	488.35	1411.63
689274	Myoz3	mRNA	0	1	5	1	28	118
171009	Actn3	mRNA	20	15	28	57	789	1821
287411	Dhrs7c	mRNA	2	1	1	1	23	87
316330	Ankrd23	mRNA	10	10	10	14	201	812
308873	Art1	mRNA	1	0	0	2	20.82	51
25278	Cox6a2	mRNA	3	2	3	11	96	356
302948	Sr1	mRNA	2	3	2	11	73	390
25028	Ampd1	mRNA	3	2	3	7	115	285
309772	Vg112	mRNA	1	0	0	1	14	41
296935	Lmod2	mRNA	1	0	1	3	11	130
102547059	LOC102547059	mRNA	0	0	0	0	0	11.41
679565	LOC679565	mRNA	0	0	0	7.34	75.04	0
498440	Myoz1	mRNA	12	1	2	14	274	670
102550650	LOC102550650	mRNA	0	0	0	0	0	0
365009	Clec3a	mRNA	0	1	0	0	0	34

287167	Hba-a1	mRNA	0	0	1.08	8.51	225.4	68
100362283	Tmem52	mRNA	0	0	1	1	15	56
116601	Atp2a1	mRNA	52	24.84	15	167.97	2323.99	7242.98
24584	Mylpf	mRNA	25	9	11	54	1023	2866
287408	Myh1	mRNA	17.98	23.63	7.1	145.4	1313.52	6801.37
102549712	LOC102549712	mRNA	0	0	0	0	0	0
24265	Ckm	mRNA	54	30	8	104	2612	6081
29389	Tnni2	mRNA	7	2	5	32	592	1564
103692976	LOC103692976	mRNA	0	0	0	0	0	7.12
100362623	Mt1m	mRNA	0	0	0	0	0	11.57
100911313	LOC100911313	mRNA	0	2.33	0	0	0	37.07
100911166	LOC100911166	mRNA	0	0	0	0	0	0
25708	Ucp3	mRNA	1	0	0	0	23	32
296369	Tnnc2	mRNA	11	2	5	39	842	2487
304823	Igfn1	mRNA	2	2	2	0	118	220
363925	My12	mRNA	0	0	0	0	10	15
100361543	LOC100361543	mRNA	0	0	0	0	10.78	20.36
56781	My11	mRNA	22	4	2	56	1377	3907
29658	Cacng1	mRNA	1	0	0	0	12	58
308622	Tx1nb	mRNA	0	1	0	1	40	103
100909700	LOC100909700	mRNA	0	0	0	0	0	14.5
100359951	LOC100359951	mRNA	0	0	0	0	0	40.48
103690173	LOC103690173	mRNA	0	0	0	0	0	0
103694902	LOC103694902	mRNA	2.37	2.29	1.73	2.36	1.19	0.96
108348161	LOC108348161	mRNA	0	0	0	0	0	0
691644	Myh2	mRNA	0	1.79	7.58	3.19	168.76	1437.08
59108	Mb	mRNA	4	0	0	7	327	1301
100910177	LOC100910177	mRNA	0	0	0	0	23.57	0
291605	Myot	mRNA	0	0	0	0	38.48	121.72
100909761	LOC100909761	mRNA	0	1	0	0	110.52	334.48

Gene ID	Gene Symbol	Sham3 Read Count	Sham4 Read Count	log2 (CPIP_DEG_ _left / Sham_DEG_ left)	Pvalue (C PIP_DEG_ left / Sham_DEG_ left)	Qvalue (CPIP_DE G_left / Sham_DEG left)
100361265	LOC100361265	0	0	5.3050124	7.18E-11	1.26E-09
304954	Uap112	0	11.74	2.4634649	2.34E-10	3.93E-09
108349682	LOC108349682	0	0	2.3111419	3.06E-24	1.35E-22
685963	LOC685963	20.23	40.47	1.4114248	6.57E-19	2.23E-17
691519	LOC691519	5	3.22	1.3651917	6.14E-05	4.28E-04
59327	Twist2	18	18	1.2971407	6.94E-09	9.57E-08
688900	Slfn1	7.34	6.21	1.1880865	5.01E-05	3.56E-04
25660	Cd28	9.01	16	1.1757435	3.61E-06	3.24E-05
29220	Thbs4	1587	391	1.1514606	0	0
100911660	LOC100911660	10.64	13.77	1.1265626	3.03E-07	3.28E-06
304729	Gli2	36	36	1.0177477	1.14E-12	2.44E-11
305431	Stk32b	29	37	1.0150771	1.70E-10	2.89E-09
291555	Atp8b1	47.34	35.47	0.9228666	1.24E-11	2.38E-10
29403	Asgr2	54	45	0.9017644	3.31E-10	5.41E-09
292401	Smoc2	415	237	0.8832782	5.46E-73	7.64E-71
83497	Ocln	80.85	82.14	0.828025	5.39E-13	1.19E-11
502160	Lvrn	150	101	0.8131519	5.70E-20	2.02E-18
114020	Nat8f5	28.32	25.72	0.8074708	1.17E-05	9.45E-05
679787	Clec5a	42.72	32.21	0.7985277	1.18E-07	1.36E-06
29139	Dcn	14791	12546	0.7629956	0	0
295279	Fcgr1a	80	89	0.7459865	6.35E-12	1.26E-10
100364500	LOC100364500	193.36	101.7	0.7354696	7.20E-21	2.68E-19
315039	Osr2	84	81	0.725954	2.26E-11	4.21E-10
117029	Ccr5	61.47	91.71	0.7218052	2.76E-11	5.12E-10
66021	Cybb	95	96	0.7170211	3.62E-13	8.09E-12
65129	Cldn1	938	852	0.7166117	2.30E-94	4.06E-92
140586	Sox9	71.36	57.78	0.7008907	6.11E-09	8.48E-08
362430	Clec4a1	82.01	77	0.6996175	3.51E-10	5.71E-09
316638	Sned1	888.73	793.47	0.6913802	6.75E-98	1.25E-95
311426	Siglec1	84.31	88.02	0.6250278	2.97E-10	4.88E-09
306616	Myom2	396	624	-0.973513	1.57E-80	2.43E-78
365949	LOC365949	93.65	91.25	-1.091552	1.25E-13	2.95E-12
287382	Mfap4	337.35	198.7	-1.150849	7.38E-71	1.02E-68
297339	Capg	1121	677	-1.463059	#####	#####
246298	Retsat	2137	1349	-1.571221	0	0
29437	Acta1	504.91	277.08	-4.574845	0	0
24838	Tnnt3	152	67	-5.102455	0	0
360543	Myh4	183.1	72.16	-5.223005	0	0
100912521	Nmrk2	1	1	-5.997307	4.13E-09	5.91E-08
317418	Tsr2	0	0	16.736318	3.11E-50	3.05E-48
100912618	LOC100912618	0	0.05	10.69827	7.31E-14	1.77E-12
100910581	LOC100910581	0	0	9.1140377	5.79E-53	6.00E-51
300802	Aph1b	0	0	8.77101	7.20E-44	5.97E-42
103691556	LOC103691556	0	0.17	7.6082511	6.94E-62	8.58E-60
102550456	LOC102550456	0	0	7.14204	1.47E-17	4.65E-16
108349606	LOC108349606	0	0	6.6911535	1.47E-13	3.43E-12
100911233	LOC100911233	0	0	6.4171672	1.39E-11	2.65E-10
100912399	LOC100912399	0	0	6.3832843	2.33E-11	4.34E-10
684969	Potef	0	0	6.2858743	9.69E-11	1.68E-09

100910616	Hmgn5	0	0	5.9726266	5.74E-09	7.99E-08
108348106	LOC108348106	0	0	5.5852493	3.53E-07	3.78E-06
100909795	LOC100909795	0	0	5.5003057	7.73E-07	7.81E-06
100911564	LOC100911564	0	0	5.3956976	1.93E-06	1.82E-05
690146	RGD1584023	0	0	5.0053958	3.66E-05	2.68E-04
297402	RGD1560795	0	0	4.9680159	4.69E-05	3.36E-04
102552708	LOC102552708	0	0	4.8774903	8.35E-05	5.64E-04
81828	Zp2	0	0	4.4621249	2.17E-06	2.03E-05
364991	Slc25a3611	2.92	0	3.9689518	3.86E-11	6.98E-10
24856	Ttr	1	0	3.7892897	1.20E-15	3.36E-14
679149	LOC679149	0	0	3.510488	7.87E-06	6.59E-05
500338	Klrc3	1	0	3.2144843	1.01E-04	6.72E-04
60333	Msln	29	4	3.2002306	1.58E-76	2.33E-74
100912262	LOC100912262	3.84	0	3.1792821	1.19E-07	1.38E-06
108352634	LOC108352634	0.33	2.01	2.9975316	3.61E-05	2.65E-04
498109	Polr2h	51.42	0	2.6337558	2.79E-71	3.87E-69
295041	Stoml3	2.04	3.11	2.625791	4.85E-07	5.06E-06
100909830	LOC100909830	0	0	2.5876558	4.32E-06	3.81E-05
100910678	LOC100910678	0	10.19	2.4537345	4.34E-09	6.17E-08
100360880	Fosb	32	20	2.4532224	#####	1.73E-97
100365810	LOC100365810	1.28	0	2.3328419	1.65E-13	3.84E-12
100911168	LOC100911168	0	4.09	2.295599	7.82E-06	6.55E-05
499322	Fam111a	36	31	2.2316484	2.03E-81	3.22E-79
25453	Gdnf	3	2	2.2250858	8.63E-05	5.81E-04
494206	Ly49sil	4.4	6.18	2.1980655	6.54E-10	1.03E-08
360649	RGD1359290	0	183.14	2.1395747	1.54E-94	2.75E-92
100910308	LOC100910308	94.96	0	1.9194073	5.32E-75	7.73E-73
494207	Ly49si2	1.72	2.66	1.9128388	7.86E-05	5.35E-04
54242	Cpa3	34	11	1.8999338	5.77E-31	3.38E-29
108351097	LOC108351097	151.95	92.38	1.8852968	0	0
689790	Clec2d11	3.3	5.71	1.7952407	6.41E-06	5.46E-05
306748	Cxcl14	55	26	1.6975735	5.58E-67	7.33E-65
108348150	LOC108348150	14.72	0	1.6533349	2.37E-09	3.49E-08
100911090	LOC100911090	88.17	0	1.6248564	3.93E-23	1.65E-21
108348438	LOC108348438	0	18.48	1.6050778	4.57E-06	4.01E-05
498169	RGD1561730	5.03	8.16	1.589944	2.58E-06	2.38E-05
100912573	Ms4a6e	0	20.65	1.5876558	3.26E-06	2.95E-05
305811	Rcor2	0	26.37	1.5255464	3.07E-17	9.53E-16
309209	Vwce	4.19	6.89	1.4794982	3.28E-05	2.44E-04
305858	Otx2	4.09	6.92	1.4704051	1.65E-05	1.30E-04
685245	Ears211	0	0	1.4310341	4.73E-05	3.39E-04
498335	Cxcl13	52	68	1.3817653	1.03E-33	6.57E-32
289337	Tlr5	48	9	1.381205	8.23E-18	2.65E-16
100360872	Mcpt111	130.87	60	1.3578489	1.39E-50	1.37E-48
108352465	LOC108352465	1.65	9.6	1.3373662	8.79E-05	5.91E-04
100911485	LOC100911485	0	14.86	1.3301596	6.59E-06	5.59E-05
170847	Kcnj15	78.82	76.37	1.3090086	5.86E-35	4.00E-33
301012	Col7a1	21	18	1.2795335	4.83E-12	9.67E-11
315870	Tbx18	165	95	1.2681855	7.13E-53	7.34E-51
102553715	LOC102553715	18.65	37.3	1.2213266	3.61E-11	6.56E-10
310738	Ngf	18	23	1.2208735	2.30E-07	2.54E-06
24695	Pthlh	9	9	1.218422	4.05E-05	2.94E-04
114122	Vcan	342	162	1.1867851	3.60E-98	6.72E-96
25661	Fn1	4275	2753	1.1632535	0	0
287813	Igsf7	28.41	20.58	1.1624221	7.91E-09	1.08E-07
292793	Sbsn	61	30	1.1515567	3.79E-23	1.60E-21

690479	Bpifb5	89	4	1.1384113	1.77E-16	5.18E-15
685157	LOC685157	1.43	19.29	1.10149	7.70E-07	7.79E-06
308099	Fndc1	393	225	1.0891878	5.11E-97	9.36E-95
25694	Has2	46	36	1.0854338	1.34E-14	3.46E-13
25627	Cma1	22	7	1.08192	4.80E-07	5.02E-06
310926	LOC310926	142.05	92.61	1.0758388	6.01E-64	7.63E-62
292777	Tbcb	18.69	6.19	1.0668539	6.88E-07	7.02E-06
363071	Stra6	77	95	1.0642186	2.18E-22	8.89E-21
102547294	Iqcn	9	10	1.0383172	1.17E-04	7.69E-04
25253	Dpp4	225	137	1.0369507	2.10E-45	1.78E-43
84007	C3ar1	42.59	73.04	1.0358262	7.47E-15	1.95E-13
501031	RGD1560775	6.21	8.41	1.0240691	2.31E-05	1.76E-04
287561	Cc17	31	34	1.0102665	9.09E-09	1.23E-07
100912450	LOC100912450	30.84	44.84	1.0036554	5.51E-10	8.78E-09
100911615	LOC100911615	0	275.31	1.0027195	3.09E-22	1.24E-20
83584	Casp6	6.96	0	0.9791033	7.29E-05	5.00E-04
100363268	LOC100363268	0	21.98	0.9771737	3.62E-06	3.25E-05
292594	Lilrb4	7	25	0.9731491	1.21E-06	1.18E-05
108348142	LOC108348142	20.69	17.91	0.9614556	1.13E-05	9.18E-05
108348094	NEWGENE_130639	105.93	68	0.9508442	5.58E-17	1.71E-15
365395	Clcf1	20	13	0.9492541	4.79E-05	3.43E-04
103690020	LOC103690020	13.44	34.21	0.9442577	1.53E-05	1.21E-04
100910669	LOC100910669	21.95	16.8	0.9427122	2.02E-08	2.59E-07
192203	Fap	66	37	0.937105	4.31E-13	9.60E-12
303856	Atp13a5	21	27	0.9246908	5.96E-05	4.17E-04
103690038	LOC103690038	0	164.99	0.9230163	9.38E-12	1.83E-10
24237	C6	58	44	0.9162786	5.20E-12	1.04E-10
100911599	LOC100911599	38.02	25.27	0.9095839	5.87E-09	8.17E-08
113918	Slc6a20	191.08	381.03	0.9050445	6.93E-43	5.64E-41
24617	Serpine1	121.11	43.79	0.9026764	2.12E-23	9.03E-22
192262	C1s	1517	1071	0.8999198	#####	#####
29132	Atp1a4	32.06	15.78	0.8965798	1.63E-05	1.28E-04
690955	Lilrb3b	16.26	37.92	0.8952363	3.76E-10	6.09E-09
501416	LOC501416	53.25	72.72	0.8902114	7.39E-14	1.79E-12
108348047	LOC108348047	89.03	113.41	0.8803653	5.43E-21	2.05E-19
366270	Edn3	20	22	0.878958	1.83E-05	1.43E-04
685590	LOC685590	15.48	13.79	0.8693738	1.14E-06	1.12E-05
298579	Pla2g2d	54	37	0.8628907	7.69E-10	1.21E-08
316137	Adgre1	218	213	0.8566592	2.07E-36	1.48E-34
362741	Pax9	52	37	0.8518348	5.65E-08	6.82E-07
103690108	LOC103690108	1225.06	567.69	0.8480425	#####	#####
689008	Fbn2	87	85	0.8456917	1.47E-14	3.78E-13
25293	Aqp4	16.52	75.31	0.841721	7.55E-10	1.19E-08
688583	LOC688583	21.79	23.99	0.8253181	3.22E-06	2.92E-05
684440	Tlr8	61	58	0.8150663	3.88E-09	5.57E-08
304966	Fcgr3a	15	29	0.8150663	3.12E-05	2.33E-04
108348048	LOC108348048	1492.4	1459.97	0.8140012	#####	#####
29252	Gzmm	18	30	0.8128688	8.96E-05	6.01E-04
25314	Emp1	1185	1010	0.8106399	#####	#####
24886	Tbxas1	30	33	0.8100483	1.35E-06	1.31E-05
100909441	LOC100909441	731.58	845.69	0.8096769	#####	#####
60327	F13a1	170	118	0.8084116	1.48E-24	6.71E-23
494199	Oas1f	79.4	36.45	0.8068948	7.59E-10	1.19E-08
501668	Dmrtcla	31.71	7.18	0.8066562	2.41E-06	2.24E-05
688913	Dcun1d2	107.22	0	0.8054314	2.80E-20	1.01E-18
303384	Mmp28	29.92	18.72	0.8053811	6.20E-07	6.37E-06

100362113	LOC100362113	132.34	102.94	0.796612	7.36E-19	2.49E-17
113892	Nat8f3	153.05	134.7	0.7861793	2.57E-23	1.09E-21
24231	C2	376	322	0.7852372	2.50E-54	2.63E-52
308350	Lilrb3	32	12	0.7827276	1.24E-05	1.00E-04
116487	Tgfb1	1932	1923	0.7768236	#####	#####
313504	Foxd2	85.85	132.77	0.7756439	1.45E-15	4.02E-14
100912068	LOC100912068	60.15	38	0.7745785	5.72E-08	6.89E-07
366452	Ptch2	161	157	0.771633	5.58E-21	2.10E-19
25236	Gpc3	1538	1193	0.7679871	#####	#####
246266	Aspg	47	30	0.7658355	3.30E-07	3.56E-06
293154	Folr2	96	90	0.7621328	3.02E-13	6.83E-12
108348044	LOC108348044	30	38	0.7591567	2.79E-06	2.56E-05
100909455	LOC100909455	10.98	43.71	0.7555242	8.03E-05	5.45E-04
298861	Ptrhd1	173.45	189.16	0.7534342	4.44E-30	2.52E-28
301227	Trem2	67	82	0.7521009	2.24E-11	4.18E-10
306454	Cldn22	33.3	25.4	0.7490056	1.21E-04	7.92E-04
24653	Pla2g4a	56	27.99	0.7484193	1.48E-06	1.43E-05
89829	Socs3	117	153	0.747764	2.83E-23	1.20E-21
689257	Adgrd1	101	137	0.746801	6.31E-17	1.92E-15
313831	Vit	292	242	0.7466794	2.54E-34	1.68E-32
448830	Ly96	37.12	34.59	0.7456674	1.41E-06	1.36E-05
25021	Itgam	86	65	0.7435184	9.03E-12	1.77E-10
108351105	LOC108351105	64.15	62	0.7406114	7.79E-08	9.25E-07
25239	Apod	21182	16748	0.736333	0	0
294257	Cfb	91	65	0.7346057	4.76E-12	9.55E-11
108349608	LOC108349608	10.87	53.3	0.7334137	7.96E-05	5.41E-04
394266	Gjb2	191	244	0.7219173	1.23E-20	4.52E-19
498638	Msr1	101.16	106.39	0.7182722	1.77E-13	4.09E-12
100910688	LOC100910688	26.32	36.49	0.7152946	1.18E-04	7.71E-04
499271	Itgax	55.4	32.96	0.7149298	4.07E-06	3.61E-05
498022	RGD1559482	33.98	10.93	0.7137676	4.04E-05	2.94E-04
304988	Mnda	44.7	43.55	0.7122114	6.62E-07	6.76E-06
24379	Gad1	24	41	0.7108041	7.55E-05	5.16E-04
292406	Thbs2	646	529	0.7059348	1.34E-75	1.96E-73
24536	Lepr	354.55	289.45	0.7047214	1.78E-32	1.10E-30
25383	Apobec1	48	63	0.703702	5.38E-08	6.51E-07
108348111	LOC108348111	33.5	16.75	0.703133	6.66E-06	5.65E-05
362431	Clec4a3	57	61	0.7002551	7.42E-08	8.83E-07
100912590	LOC100912590	36.12	54.18	0.6993563	2.41E-07	2.65E-06
304021	Col8a1	271	131	0.6868449	6.32E-25	2.92E-23
171339	Dnah1	28	21	0.6843318	1.49E-04	9.50E-04
498781	RGD1561231	79.6	71.14	0.6834177	5.48E-10	8.74E-09
64552	Mpeg1	466.04	501.04	0.6823836	6.84E-52	6.86E-50
114099	Cysltr1	45	35	0.6822306	3.02E-05	2.26E-04
81682	Lum	3023	2523	0.6762143	#####	#####
24233	C4a	215.79	278.86	0.6733816	2.11E-31	1.27E-29
24330	Egr1	311	268	0.6732376	3.35E-39	2.54E-37
85272	Bmp7	93	101	0.6689559	4.01E-11	7.23E-10
312701	Cd163	146.21	110	0.6677947	7.70E-20	2.70E-18
361221	No18	32.25	70.89	0.6656231	3.52E-07	3.77E-06
299737	Ntn4	263	207	0.665104	1.03E-25	4.95E-24
317181	SrpX2	55	47	0.6646969	4.37E-06	3.86E-05
287231	RGD1559575	78	76	0.6600917	1.30E-08	1.73E-07
679975	Gpr183	35	54	0.656802	4.22E-05	3.05E-04
114523	Ntn1	169	113	0.65477	2.84E-14	7.16E-13
171452	Rab31l1	119	123	0.6514709	1.02E-12	2.19E-11

64033	Ccnd2	140	83	0.6507801	1.31E-12	2.77E-11
140594	Syt14	33	34	0.6493316	1.35E-04	8.69E-04
445442	Thbs1	316	255	0.6488605	5.44E-30	3.07E-28
296952	Kcp	54.72	45	0.6484227	1.36E-06	1.32E-05
94341	Kcnj13	66	81	0.6459998	2.91E-07	3.16E-06
311425	Adam33	96	74	0.6453713	1.34E-09	2.03E-08
315979	Col6a6	419.15	363.6	0.6435726	2.37E-38	1.77E-36
100360801	Ddx60	28.81	34.02	0.6379504	3.62E-06	3.25E-05
114247	Slnf4	97.99	235.68	0.6362006	1.81E-26	8.98E-25
361821	Col6a2	2143	1674	0.6334377	#####	#####
361289	Colec12	271	224	0.6329988	3.54E-22	1.41E-20
299699	Aldh112	38	25	0.6325817	5.18E-05	3.67E-04
298566	C1qa	334	339	0.6322166	2.22E-31	1.33E-29
29200	Inhba	59.42	46.54	0.6319736	3.29E-06	2.97E-05
297411	Tprkb	38.26	300.61	0.6316121	2.42E-17	7.54E-16
81523	Myoc	5595	5733	0.6295761	0	0
103689965	LOC103689965	277.51	255.43	0.6269951	3.03E-33	1.92E-31
691499	Zfp469	107	93	0.6265842	1.41E-11	2.68E-10
312677	Ccdc77	66.12	138.05	0.6258983	6.78E-12	1.34E-10
362550	Ror1	105	65	0.6236351	3.19E-08	3.99E-07
554353	Gpr34	35	59	0.6222696	3.01E-05	2.25E-04
311835	Ddx31	109	114	0.621221	1.24E-12	2.62E-11
24188	Aldh1a1	704	671	0.6150086	3.91E-56	4.25E-54
89843	Cxadr	1169.79	1058	0.6144714	3.07E-84	5.04E-82
353227	Zbtb16	145.44	166.99	0.6142711	4.32E-28	2.30E-26
100910978	LOC100910978	153.12	46.29	0.6121933	3.35E-13	7.52E-12
499991	Steap4	424	421	0.6110933	1.10E-36	7.88E-35
295703	Serping1	2347	2137	0.6078319	#####	#####
102553405	LOC102553405	56.62	30.84	0.6069941	9.16E-06	7.58E-05
60423	Slc28a2	84.01	62.94	0.6012217	1.97E-09	2.92E-08
24329	Egfr	431.45	322.84	0.5966434	4.74E-29	2.59E-27
311252	Pamr1	113	129	0.5939974	6.30E-12	1.25E-10
307414	MGC108823	63.2	70.39	0.5919011	1.83E-07	2.04E-06
317227	Tlr13	76	78	0.5896173	5.51E-07	5.72E-06
687424	Dtx1	371	347	0.5885189	1.63E-26	8.15E-25
140927	Selenbp1	188.76	0	0.5876558	1.19E-05	9.65E-05
117253	Dnah11	175.66	124	0.5861221	1.74E-12	3.63E-11
140930	Faim	164.61	226.24	-0.588167	1.19E-13	2.81E-12
102552640	LOC102552640	211	227.63	-0.590275	3.31E-15	8.92E-14
24299	Cyp2a3	54	68	-0.593674	2.89E-05	2.17E-04
103690045	NEWGENE_131013	187.54	82.13	-0.606631	1.20E-09	1.84E-08
108348062	LOC108348062	136.22	279.36	-0.608157	4.97E-14	1.22E-12
56765	Plvap	299	210	-0.612694	9.39E-21	3.48E-19
29395	Hmgb2	114.64	73.74	-0.617696	5.79E-13	1.27E-11
305104	Col9a1	146	110	-0.629382	4.14E-14	1.03E-12
681896	Slc25a18	88	54	-0.635907	3.86E-06	3.45E-05
252942	Myh8	64.76	64.73	-0.643574	8.24E-06	6.87E-05
81633	Acta2	623.98	374.07	-0.652727	4.22E-49	3.98E-47
100911295	LOC100911295	461.43	280.16	-0.657808	6.91E-31	4.04E-29
108348085	LOC108348085	34.51	103.53	-0.657971	2.59E-10	4.31E-09
108348143	LOC108348143	37.49	29.99	-0.665981	7.53E-05	5.15E-04
171052	Mmp13	270	25	-0.671039	8.16E-18	2.63E-16
25304	Comp	198	189	-0.674322	2.66E-22	1.07E-20
100363439	Rps1011	518.98	946.34	-0.677034	5.19E-69	7.06E-67
64543	Sec1413	474.75	1355.34	-0.679269	3.55E-86	5.92E-84
81648	Crh	277	305	-0.680035	1.64E-19	5.71E-18

64032	Ctgf	331	252	-0.680743	1.23E-29	6.89E-28
360479	LOC360479	33	46.61	-0.688516	6.62E-05	4.58E-04
498587	Ldb3	426	430	-0.689525	8.44E-53	8.64E-51
688972	Gypa	40	30.01	-0.691262	3.42E-07	3.67E-06
64317	Gpx3	391	261	-0.693024	1.13E-32	7.04E-31
304131	Map3k7c1	32	38	-0.695123	1.47E-05	1.17E-04
100911372	LOC100911372	176.17	195.75	-0.699935	4.85E-18	1.58E-16
24779	Slc4a1	192	147	-0.707308	1.27E-28	6.85E-27
316632	Ndufa1011	1041.49	565.57	-0.708673	4.62E-60	5.61E-58
289178	Dpt	190	96	-0.710334	9.76E-18	3.13E-16
25139	Slc2a4	50	46	-0.711002	2.45E-08	3.10E-07
683463	Lilrb3a	86.39	59.97	-0.719488	1.09E-04	7.17E-04
108348157	LOC108348157	34.25	34.25	-0.730004	1.35E-06	1.31E-05
171055	Cd79b	32	15	-0.734272	3.63E-05	2.66E-04
29747	Kcnmb1	37.36	22.85	-0.73557	2.81E-05	2.12E-04
29301	Hal	46	48	-0.739975	3.39E-05	2.51E-04
499146	Spib	30	40	-0.740149	7.63E-09	1.04E-07
289316	Lefty2	40.38	66.56	-0.748867	9.50E-09	1.28E-07
294312	Pi16	263	149	-0.767743	3.79E-26	1.85E-24
311029	Neb	333	239	-0.769322	3.47E-81	5.47E-79
316010	Camp	122	65	-0.781755	1.09E-12	2.34E-11
301026	Ngp	446	186	-0.78191	4.29E-37	3.15E-35
102555319	LOC102555319	46.45	134.28	-0.782285	1.18E-11	2.28E-10
246172	Nexn	129	75	-0.783668	9.97E-17	2.98E-15
500377	Tuba8	70	66.88	-0.789852	1.13E-09	1.74E-08
688459	LOC688459	35	36	-0.795673	1.74E-05	1.36E-04
100909869	LOC100909869	119.4	55.49	-0.804662	8.15E-11	1.42E-09
300475	Adamts8	281	342	-0.807322	8.95E-37	6.46E-35
444983	Apold1	472	97	-0.810711	8.24E-33	5.18E-31
81639	Alox15	43	46	-0.821208	3.84E-09	5.52E-08
303413	Mpo	135	33	-0.822733	1.68E-14	4.30E-13
25043	Eln	569	255	-0.82554	9.68E-58	1.12E-55
64507	Fmod	177.97	235.04	-0.826056	3.20E-34	2.10E-32
498066	Sh3bgr	206	215	-0.828022	1.31E-30	7.56E-29
103689936	Wbp1111	839.84	319.23	-0.829336	4.08E-56	4.42E-54
297412	Dusp11	59.7	47.8	-0.831692	7.91E-08	9.38E-07
313776	Perml	36.05	33.92	-0.837823	2.16E-06	2.02E-05
298485	Ermap	18	15	-0.839619	1.32E-04	8.55E-04
301097	Vwa5a	2347.6	2329.03	-0.843141	#####	#####
360737	Tbx1	61	40	-0.855753	4.79E-07	5.01E-06
290880	Adprh11	25	15	-0.857582	8.37E-05	5.65E-04
294279	Col11a2	203.84	284.03	-0.860276	1.45E-49	1.39E-47
25732	Acp5	67	47	-0.860618	3.05E-20	1.10E-18
310694	Fcrl2	13	105	-0.868573	7.35E-06	6.19E-05
84387	Pglyrp1	40	18	-0.894945	1.20E-05	9.68E-05
298559	Tcea3	41	40	-0.903331	4.83E-08	5.87E-07
103690105	LOC103690105	52.43	35.57	-0.905298	4.54E-07	4.77E-06
100911917	LOC100911917	59.76	145.14	-0.908049	2.66E-14	6.73E-13
50565	Hspb7	39	26	-0.918697	1.29E-09	1.96E-08
140939	Trim63	30	13	-0.918833	1.11E-06	1.10E-05
100360218	LOC100360218	32.59	26.11	-0.927349	1.84E-05	1.44E-04
291312	Ucma	23	16	-0.934843	3.47E-05	2.56E-04
80878	Slc16a3	23.54	34.78	-0.989645	1.02E-09	1.58E-08
171375	Atp5f1	234.1	234.1	-0.997307	5.89E-19	2.01E-17
363276	Snorc	21	20	-1.007291	6.02E-07	6.21E-06
103694169	LOC103694169	53.96	0	-1.007702	2.69E-06	2.48E-05

295426	Myoz2	12	13	-1.049146	7.79E-05	5.31E-04
100910446	LOC100910446	81	0	-1.076602	1.84E-11	3.48E-10
108348326	LOC108348326	18.21	181.57	-1.082017	4.40E-13	9.77E-12
29576	Wisp2	39	24	-1.10859	1.18E-11	2.27E-10
365550	Vpreb3	9	9.11	-1.110858	6.89E-05	4.75E-04
170840	Slc40a1	80.42	85.14	-1.117863	3.17E-13	7.14E-12
29155	Capn3	25	32	-1.119297	8.08E-10	1.26E-08
360742	Dgcr2	0	0	-1.12401	2.29E-05	1.75E-04
303468	Sgca	14	6	-1.143158	2.80E-06	2.57E-05
299606	Elane	16	15	-1.177879	2.02E-06	1.90E-05
303373	Unc45b	14	17	-1.182862	3.69E-07	3.94E-06
291084	Nqo2	67	585	-1.18595	1.58E-59	1.90E-57
499923	Efcab8	12	52	-1.203758	1.57E-07	1.78E-06
297748	Jph1	18	15	-1.219699	1.94E-09	2.89E-08
690139	Rbm24	15	4	-1.219699	5.19E-05	3.68E-04
286965	Abra	44	26	-1.249225	3.34E-11	6.11E-10
361003	Dupd1	6	11	-1.252564	2.15E-05	1.65E-04
294071	Hells	27.29	10.23	-1.266722	4.00E-06	3.56E-05
65204	Cnn1	36	18	-1.279508	1.81E-12	3.76E-11
315962	Ky	32	30	-1.281338	3.55E-16	1.01E-14
81687	Mmp9	70	47	-1.311893	8.93E-30	5.01E-28
100911186	LOC100911186	0	42.93	-1.319168	4.95E-14	1.22E-12
24585	My13	4	13	-1.325633	4.10E-08	5.05E-07
301039	Susd5	16	11	-1.368562	7.94E-09	1.09E-07
102555557	LOC102555557	18.23	41.37	-1.375689	1.27E-12	2.70E-11
289482	Naa11	62	21.96	-1.442984	1.45E-08	1.92E-07
29195	Chad	22.03	20.1	-1.470608	1.17E-22	4.79E-21
25357	Thrsp	19	2	-1.482733	2.62E-07	2.86E-06
100359528	RGD1565987	41.36	0	-1.486505	2.02E-06	1.90E-05
57809	Rpl35a	0	105.26	-1.505523	2.05E-10	3.46E-09
100910755	LOC100910755	11.53	10.6	-1.519638	8.96E-05	6.01E-04
686087	LOC686087	0	0	-1.543023	7.35E-07	7.47E-06
501129	Tmem182	6	11	-1.547504	1.52E-07	1.72E-06
295261	Tmod4	37	48	-1.56136	2.69E-32	1.65E-30
299266	Asb2	33	38.32	-1.562885	1.89E-24	8.48E-23
84022	Ghsr	35	4	-1.56559	5.87E-08	7.07E-07
500292	Cidec	14	2	-1.582269	3.34E-07	3.59E-06
24583	Myh3	6.88	14.19	-1.593901	5.98E-14	1.47E-12
498579	RGD1564899	19.07	17.23	-1.623207	4.59E-24	2.02E-22
684993	Ppplr35	109	94	-1.629829	5.71E-35	3.91E-33
25412	Col2a1	666	991	-1.669905	0	0
365298	Alpk3	19	17	-1.689983	7.06E-25	3.25E-23
679629	Smtnl2	13	7	-1.69438	1.54E-10	2.61E-09
100912534	LOC100912534	126.58	196	-1.716681	1.28E-53	1.34E-51
25629	Plin1	23	4	-1.724288	8.31E-10	1.30E-08
24477	Ibsp	56	42	-1.744214	1.10E-56	1.21E-54
680319	Tceal7	3	3	-1.754736	9.08E-08	1.07E-06
295531	Tnni3k	148	64	-1.760975	5.30E-29	2.88E-27
304913	Tnn	6	2	-1.762841	5.52E-06	4.77E-05
25365	Actg2	46	15.06	-1.770684	1.62E-24	7.28E-23
24959	Pgam2	107	96	-1.779715	#####	#####
140727	Cacng6	3.08	1.17	-1.8358	4.06E-05	2.95E-04
100910104	Xirp1	13	13	-1.845351	5.09E-13	1.12E-11
304551	Myo18b	15	16.55	-1.873112	7.51E-24	3.28E-22
114108	Pdlim3	42	19	-1.873873	7.45E-46	6.42E-44
29353	Phkg1	5	5	-1.878662	2.69E-08	3.39E-07

305675	Synpo21	41.66	22.29	-1.885338	4.75E-34	3.09E-32
310552	Sfrp2	44	13	-1.894737	3.15E-20	1.13E-18
100364457	LOC100364457	85.69	27.16	-1.903569	1.95E-17	6.08E-16
500453	Pax5	7	2	-1.914845	8.66E-05	5.84E-04
79451	Fabp4	88	23	-1.939062	1.85E-55	1.98E-53
308637	Ano5	12	5	-1.939821	5.05E-14	1.24E-12
311167	Smtnl1	4	8	-1.947266	3.47E-10	5.65E-09
84594	Nfs1	24.74	35.58	-1.957267	#####	#####
684984	Cd300lg	51	23	-1.966933	3.05E-11	5.63E-10
365241	Kcna7	4	4	-1.975933	1.84E-08	2.38E-07
366245	R3hdml	5	13	-1.980819	1.35E-10	2.31E-09
246250	Retn	7	1	-1.997307	9.01E-05	6.03E-04
306356	Cilp2	8	4	-1.997307	1.14E-08	1.53E-07
100361007	Adig	6	3	-2.041701	5.49E-05	3.87E-04
296345	Jph2	36	13	-2.069029	3.73E-49	3.53E-47
297333	Smyd1	22.51	15.73	-2.077535	1.38E-34	9.28E-33
298795	LOC298795	3.9	9.25	-2.089694	1.93E-05	1.49E-04
102555814	LOC102555814	21.93	11.55	-2.123658	8.65E-26	4.17E-24
64362	Des	121	104	-2.145725	#####	#####
298139	LOC298139	6.09	4.05	-2.15865	1.24E-06	1.21E-05
100364062	LOC100364062	7.58	4.03	-2.16206	1.18E-07	1.37E-06
500450	Tpm2	299	179	-2.192975	0	0
309760	Mypn	22	13	-2.197446	1.62E-24	7.28E-23
316740	Myom1	26	31	-2.208999	1.17E-49	1.12E-47
305941	Sgcg	4	3	-2.238315	8.09E-08	9.57E-07
171409	Tnnt1	8	7	-2.245234	3.72E-13	8.29E-12
688862	Ip6k3	6	1	-2.245234	4.33E-06	3.82E-05
301518	Prkag3	7	3	-2.277415	5.64E-10	8.97E-09
25295	Bglap	39.9	31.9	-2.288006	1.28E-82	2.07E-80
308779	Fsd2	0	3	-2.290088	1.29E-07	1.48E-06
338458	Obscn	39	32	-2.29149	1.56E-78	2.37E-76
56824	Ifit1	54.29	2.13	-2.301455	1.54E-09	2.33E-08
365377	Trim72	13	10	-2.358763	1.56E-25	7.38E-24
301226	Apobec2	16	7	-2.41721	5.90E-28	3.12E-26
361002	Duspl3	8	1.08	-2.42704	4.43E-12	8.94E-11
307100	Calml3	10	0	-2.437879	1.40E-06	1.35E-05
246253	Adipoq	39	2	-2.456738	2.10E-34	1.40E-32
362708	Trim54	3	6	-2.478433	5.81E-20	2.06E-18
102552549	LOC102552549	17.45	10.71	-2.495636	3.69E-09	5.31E-08
100912471	LOC100912471	36.5	4.8	-2.546433	2.61E-08	3.30E-07
684988	LOC684988	17.71	16.41	-2.557709	1.21E-16	3.59E-15
108352829	LOC108352829	9.01	9.01	-2.582002	2.77E-09	4.03E-08
365751	Trim55	2	0	-2.582269	7.44E-05	5.09E-04
84396	Atp1b4	1	4	-2.582269	7.44E-05	5.09E-04
287122	Rpl13l	13	13	-2.632895	4.22E-27	2.16E-25
294053	Ccnj	0.07	68	-2.65655	8.23E-35	5.58E-33
688173	Tcap	2	2	-2.669732	4.08E-09	5.84E-08
29242	Car4	82	11	-2.671078	1.50E-21	5.77E-20
25312	Dmp1	5	6	-2.703021	2.93E-22	1.18E-20
292905	Hrc	20.14	8.57	-2.705051	7.96E-67	1.04E-64
117537	Klhl14l	14	13	-2.723489	8.99E-49	8.43E-47
25438	Eno3	109	83	-2.726235	0	0
103690175	LOC103690175	0	0	-2.751468	2.53E-31	1.51E-29
117505	Csrp3	7	4	-2.7726	2.27E-15	6.20E-14
27064	Ankrd1	8	5	-2.804662	7.51E-16	2.12E-14
498005	Asb16	1	1	-2.804662	7.75E-06	6.50E-05

24701	Pygm	184.19	173.1	-2.80484	0	0
500036	Ppplr3a	5	4	-2.842797	7.13E-20	2.51E-18
302666	Asb11	2	2	-2.855288	8.29E-11	1.44E-09
108352087	LOC108352087	13	16	-2.879251	4.65E-43	3.80E-41
684425	Adssl1	19	12	-2.946153	7.58E-79	1.16E-76
363331	Plin4	12	2	-2.997307	1.04E-25	4.99E-24
690468	LOC690468	38.47	19.23	-3.018652	8.39E-22	3.29E-20
500267	Lmod3	4	2	-3.08477	3.25E-16	9.32E-15
686019	Casq1	68.01	48.01	-3.131067	#####	#####
690423	Jsrp1	5	3	-3.131162	2.29E-15	6.24E-14
688915	Cmya5	63	46	-3.1322	#####	#####
362282	Pck1	26	1	-3.148631	4.49E-28	2.38E-26
298512	Rhbd12	6	1	-3.167232	1.43E-04	9.19E-04
503446	Asb12	1	0	-3.167232	1.43E-04	9.19E-04
291245	Actn2	27.69	8.07	-3.221448	#####	#####
290223	Fitml	2	1	-3.226125	5.04E-15	1.34E-13
108352449	LOC108352449	20.42	4.66	-3.243201	1.55E-08	2.04E-07
54232	Car3	246	48	-3.31451	0	0
58968	Acan	7	10	-3.363435	2.15E-87	3.68E-85
25250	Cox8b	5	1	-3.493732	1.01E-16	3.01E-15
100909899	LOC100909899	10.81	0	-3.496196	8.84E-06	7.35E-05
364558	Palld	0	0	-3.510558	1.45E-06	1.40E-05
84015	Ttn	210	145	-3.54739	0	0
114207	Ryr1	30.94	24.01	-3.56583	#####	#####
59299	Trdn	40.88	35.69	-3.567321	#####	#####
311098	Xirp2	44	24	-3.641163	#####	#####
313954	Matn3	2	3	-3.660272	1.13E-16	3.35E-15
682930	Cacnals	11	8	-3.716824	#####	#####
117558	Mylk2	26	12	-3.856794	1.04E-99	1.99E-97
103689985	LOC103689985	4	1	-3.904197	1.72E-26	8.56E-25
680810	Lsmem1	4	1	-3.904197	5.01E-14	1.23E-12
25714	Myf6	0	1	-3.951503	5.49E-08	6.63E-07
362018	Syp12	5	4	-4.141965	2.88E-62	3.58E-60
360730	Ostn	0	0	-4.167232	2.59E-05	1.96E-04
315833	Klhl31	13.28	2.34	-4.206563	7.19E-81	1.12E-78
362867	Mybpc1	34	15	-4.221054	#####	#####
497901	Leap2	0	0	-4.323514	6.58E-06	5.58E-05
362895	Stac3	3	1	-4.347804	4.20E-24	1.85E-22
310681	Hjv	18.98	2.96	-4.386973	#####	#####
307982	Nrap	11	10	-4.392264	#####	#####
292879	Mybpc2	53.9	18.7	-4.419299	0	0
689274	Myoz3	6	2	-4.456738	6.07E-36	4.26E-34
171009	Actn3	74.99	33	-4.498741	0	0
287411	Dhrs7c	2	3	-4.520869	1.98E-27	1.03E-25
316330	Ankrd23	23	8	-4.565781	#####	#####
308873	Art1	1	0	-4.598607	4.51E-18	1.47E-16
25278	Cox6a2	19	3	-4.638122	#####	#####
302948	Sr1	12	3	-4.728248	#####	#####
25028	Ampd1	7	4	-4.773411	1.81E-95	3.29E-93
309772	Vgl12	1	1	-4.830197	1.03E-14	2.66E-13
296935	Lmod2	2	0	-4.83525	1.58E-34	1.06E-32
102547059	LOC102547059	0	4.44	-4.983718	4.16E-05	3.01E-04
679565	LOC679565	90.47	74.5	-5.028477	2.16E-57	2.45E-55
498440	Myoz1	22	7	-5.065622	#####	#####
102550650	LOC102550650	14.08	2.82	-5.076258	2.22E-05	1.70E-04
365009	Clec3a	0	0	-5.08477	1.77E-09	2.64E-08

287167	Hba-a1	0	35.97	-5.099341	2.47E-78	3.73E-76
100362283	Tmem52	2	0	-5.187131	9.79E-19	3.31E-17
116601	Atp2a1	152	51	-5.230132	0	0
24584	Mylpf	94	39	-5.341647	0	0
287408	Myh1	43.17	24.35	-5.394886	0	0
102549712	LOC102549712	0	21.68	-5.4356	1.34E-06	1.30E-05
24265	Ckm	173	77	-5.50914	0	0
29389	Tnni2	47	17	-5.590089	0	0
103692976	LOC103692976	0	17.6	-5.624914	2.35E-07	2.59E-06
100362623	Mt1m	13.33	0	-5.635381	2.12E-07	2.35E-06
100911313	LOC100911313	41.47	42.45	-5.695721	2.67E-30	1.52E-28
100911166	LOC100911166	0	26.11	-5.703837	1.07E-07	1.25E-06
25708	Ucp3	3	1	-5.87995	1.38E-15	3.84E-14
296369	Tnnc2	72	37	-5.91177	0	0
304823	Igfn1	19	5	-5.91219	4.24E-87	7.21E-85
363925	My12	1	5	-5.951503	7.13E-09	9.79E-08
100361543	LOC100361543	0	0	-5.958004	6.60E-09	9.12E-08
56781	My11	132	39	-6.018353	0	0
29658	Cacng1	2	0	-6.167232	1.31E-18	4.38E-17
308622	Txlnb	3	0	-6.187131	4.77E-36	3.36E-34
100909700	LOC100909700	0	22.37	-6.201682	3.01E-10	4.93E-09
100359951	LOC100359951	0	0	-6.336444	4.48E-11	8.02E-10
103690173	LOC103690173	0	44.57	-6.475308	5.36E-12	1.07E-10
103694902	LOC103694902	2.36	849.02	-6.605322	#####	#####
108348161	LOC108348161	63.54	0	-6.9869	4.29E-16	1.22E-14
691644	Myh2	25.09	2.39	-7.020134	0	0
59108	Mb	39	5	-7.245234	0	0
100910177	LOC100910177	44.76	63.82	-8.043339	2.60E-29	1.43E-27
291605	Myot	0	0	-8.321037	3.07E-34	2.02E-32
100909761	LOC100909761	4.16	2	-8.814802	3.23E-88	5.59E-86

Suppl. Table 6 The DEGs of GO analysis

Suppl. Table 6 The DEGs of GO analysis								
Upregulated-BP								
Gene ID	Gene Symbol	Type	GO_P Term	GO_P Term Level1	GO_P Term Level2	log2 (CPIP_DEG_left / Sham_DEG_left)	Pvalue (CPIP_DEG_left / Sham_DEG_left)	Qvalue (CPIP_DEG_left / Sham_DEG_left)
immune system process								
100364500	LOC100364500	mRNA	GO:0002474/	biological proces	immune syst	0.73546961	7.20E-21	2.68E-19
192262	C1s	mRNA	GO:0045087/	biological proces	development	0.89991984	5.16E-243	2.29E-240
24233	C4a	mRNA	GO:0045087/	biological proces	positive re	0.67338159	2.11E-31	1.27E-29
24237	C6	mRNA	GO:0045087/	biological proces	positive re	0.91627858	5.20E-12	1.04E-10
287813	Igsf7	mRNA	GO:0002376/	biological proces	positive re	1.16242207	7.91E-09	1.08E-07
289337	Tlr5	mRNA	GO:0045429/	biological proces	reproductic	1.38120495	8.23E-18	2.65E-16
29252	Gzmm	mRNA	GO:0045087/	biological proces	cellular pr	0.81286877	8.96E-05	6.01E-04
295703	Serping1	mRNA	GO:0007568/	biological proces	development	0.6078319	2.86E-177	9.25E-175
298566	C1qa	mRNA	GO:0045087/	biological proces	positive re	0.63221656	2.22E-31	1.33E-29
316137	Adgre1	mRNA	GO:0007166/	biological proces	cellular pr	0.85665919	2.07E-36	1.48E-34
498022	RGD1559482	mRNA	GO:0002376/	biological proces	positive re	0.71376755	4.04E-05	2.94E-04
679975	Gpr183	mRNA	GO:0006959/	biological proces	positive re	0.65680199	4.22E-05	3.05E-04
684440	Tlr8	mRNA	GO:0045359/	biological proces	multi-organ	0.81506633	3.88E-09	5.57E-08
690955	Lilrb3b	mRNA	GO:0002376/	biological proces	immune syst	0.89523635	3.76E-10	6.09E-09
innate immune response								
100360801	Ddx60	mRNA	GO:0051607/	biological proces	multi-organ	0.63795036	3.62E-06	3.25E-05
192262	C1s	mRNA	GO:0045087/	biological proces	development	0.89991984	5.16E-243	2.29E-240
24233	C4a	mRNA	GO:0045087/	biological proces	positive re	0.67338159	2.11E-31	1.27E-29
24237	C6	mRNA	GO:0045087/	biological proces	positive re	0.91627858	5.20E-12	1.04E-10
289337	Tlr5	mRNA	GO:0045429/	biological proces	reproductic	1.38120495	8.23E-18	2.65E-16
29252	Gzmm	mRNA	GO:0045087/	biological proces	cellular pr	0.81286877	8.96E-05	6.01E-04
295703	Serping1	mRNA	GO:0007568/	biological proces	development	0.6078319	2.86E-177	9.25E-175
298566	C1qa	mRNA	GO:0045087/	biological proces	positive re	0.63221656	2.22E-31	1.33E-29
362431	Clec4a3	mRNA	GO:0001818/	biological proces	cellular pr	0.70025514	7.42E-08	8.83E-07
448830	Ly96	mRNA	GO:0045087/	biological proces	immune syst	0.74566744	1.41E-06	1.36E-05
66021	Cybb	mRNA	GO:1990776/	biological proces	development	0.71702112	3.62E-13	8.09E-12
679787	Clec5a	mRNA	GO:0045087/	biological proces	multi-organ	0.79852771	1.18E-07	1.36E-06
684440	Tlr8	mRNA	GO:0045359/	biological proces	multi-organ	0.81506633	3.88E-09	5.57E-08
685590	LOC685590	mRNA	GO:0030168/	biological proces	positive re	0.86937379	1.14E-06	1.12E-05
688583	LOC688583	mRNA	GO:0006351/	biological proces	development	0.82531806	3.22E-06	2.92E-05
eyelid development in camera-type eye								
24329	Egfr	mRNA	GO:0042743/	biological proces	reproductic	0.59664343	4.74E-29	2.59E-27
29200	Inhba	mRNA	GO:0032270/	biological proces	reproductic	0.6319736	3.29E-06	2.97E-05
315039	Osr2	mRNA	GO:0030154/	biological proces	positive re	0.72595401	2.26E-11	4.21E-10
363071	Stra6	mRNA	GO:0048745/	biological proces	reproductic	1.06421858	2.18E-22	8.89E-21
cell adhesion								
102553715	LOC102553715	mRNA	GO:0071493/	biological proces	cellular pr	1.22132658	3.61E-11	6.56E-10
114122	Vcan	mRNA	GO:0031103/	biological proces	development	1.18678506	3.60E-98	6.72E-96
116487	Tgfbi	mRNA	GO:0030198/	biological proces	development	0.77682357	9.72E-262	4.63E-259
25021	Itgam	mRNA	GO:0007155/	biological proces	cellular pr	0.7435184	9.03E-12	1.77E-10
25253	Dpp4	mRNA	GO:0002709/	biological proces	positive re	1.03695071	2.10E-45	1.78E-43
25661	Fn1	mRNA	GO:1904646/	biological proces	multi-organ	1.16325353	0	0
29220	Thbs4	mRNA	GO:0001938/	biological proces	development	1.15146055	0	0
292406	Thbs2	mRNA	GO:0016525/	biological proces	positive re	0.70593479	1.34E-75	1.96E-73
293154	Folr2	mRNA	GO:0007342/	biological proces	reproductic	0.76213279	3.02E-13	6.83E-12
311426	Siglec1	mRNA	GO:2001238/	biological proces	positive re	0.62502781	2.97E-10	4.88E-09
315979	Col16a6	mRNA	GO:0007155/	biological proces	biological	0.64357261	2.37E-38	1.77E-36
317181	SrpX2	mRNA	GO:0048870/	biological proces	positive re	0.66469687	4.37E-06	3.86E-05
445442	Thbs1	mRNA	GO:0032695/	biological proces	development	0.64886049	5.44E-30	3.07E-28
494206	Ly49sil	mRNA	GO:0007155/	biological proces	biological	2.19806554	6.54E-10	1.03E-08
494207	Ly49si2	mRNA	GO:0007155/	biological proces	biological	1.9128388	7.86E-05	5.35E-04
60333	Msln	mRNA	GO:0031016/	biological proces	development	3.20023056	1.58E-76	2.33E-74
89843	Cxadr	mRNA	GO:0086067/	biological proces	reproductic	0.61447136	3.07E-84	5.04E-82
response to lipopolysaccharide								
102547294	Iqcn	mRNA	GO:0009416/	biological proces	multi-organ	1.03831724	1.17E-04	7.69E-04
108351097	LOC108351097	mRNA	GO:0014067/	biological proces	multi-organ	1.88529685	0	0
117029	Ccr5	mRNA	GO:0060139/	biological proces	multi-organ	0.7218052	2.76E-11	5.12E-10
24188	Aldh1a1	mRNA	GO:0048048/	biological proces	reproductic	0.6150086	3.91E-56	4.25E-54
24617	Serpine1	mRNA	GO:0050729/	biological proces	reproductic	0.90267636	2.12E-23	9.03E-22
24653	Pla2g4a	mRNA	GO:0050729/	biological proces	reproductic	0.74841927	1.48E-06	1.43E-05

29139	Dcn	mRNA	GO:0007568/	biological proces	reproductic	0.76299562	0	0
294257	Cfb	mRNA	GO:0006958/	biological proces	multi-organ	0.7346057	4.76E-12	9.55E-11
310738	Ngf	mRNA	GO:0007568/	biological proces	multi-organ	1.2208735	2.30E-07	2.54E-06
394266	Gjb2	mRNA	GO:0007267/	biological proces	reproductic	0.72191734	1.23E-20	4.52E-19
65129	Cldn1	mRNA	GO:0007568/	biological proces	multi-organ	0.71661167	2.30E-94	4.06E-92
89829	Socs3	mRNA	GO:0035556/	biological proces	reproductic	0.74776397	2.83E-23	1.20E-21
inflammatory response								
10368965	LOC103689965	mRNA	GO:0010951/	biological proces	positive re	0.62699505	3.03E-33	1.92E-31
114099	Cysltrl	mRNA	GO:0006935/	biological proces	positive re	0.68223064	3.02E-05	2.26E-04
117029	Ccr5	mRNA	GO:0060139/	biological proces	multi-organ	0.7218052	2.76E-11	5.12E-10
24233	C4a	mRNA	GO:0045087/	biological proces	positive re	0.67338159	2.11E-31	1.27E-29
287561	Cc17	mRNA	GO:0006935/	biological proces	positive re	1.01026655	9.09E-09	1.23E-07
310738	Ngf	mRNA	GO:0007568/	biological proces	multi-organ	1.2208735	2.30E-07	2.54E-06
445442	Thbs1	mRNA	GO:0032695/	biological proces	development	0.64886049	5.44E-30	3.07E-28
498335	Cxcl13	mRNA	GO:0006935/	biological proces	multi-organ	1.38176533	1.03E-33	6.57E-32
66021	Cybb	mRNA	GO:1990776/	biological proces	development	0.71702112	3.62E-13	8.09E-12
684440	Tlr8	mRNA	GO:0045359/	biological proces	multi-organ	0.81506633	3.88E-09	5.57E-08
685590	LOC685590	mRNA	GO:0030168/	biological proces	positive re	0.86937379	1.14E-06	1.12E-05
84007	C3ar1	mRNA	GO:0006935/	biological proces	development	1.0358262	7.47E-15	1.95E-13
complement activation, classical pathway								
192262	C1s	mRNA	GO:0045087/	biological proces	development	0.89991984	5.16E-243	2.29E-240
24231	C2	mRNA	GO:0006958/	biological proces	positive re	0.78523717	2.50E-54	2.63E-52
24233	C4a	mRNA	GO:0045087/	biological proces	positive re	0.67338159	2.11E-31	1.27E-29
24237	C6	mRNA	GO:0045087/	biological proces	positive re	0.91627858	5.20E-12	1.04E-10
294257	Cfb	mRNA	GO:0006958/	biological proces	multi-organ	0.7346057	4.76E-12	9.55E-11
295703	Serping1	mRNA	GO:0007568/	biological proces	development	0.6078319	2.86E-177	9.25E-175
298566	Clqa	mRNA	GO:0045087/	biological proces	positive re	0.63221656	2.22E-31	1.33E-29
negative regulation of extracellular matrix disassembly								
192203	Fap	mRNA	GO:0097325/	biological proces	positive re	0.93710499	4.31E-13	9.60E-12
25253	Dpp4	mRNA	GO:0002709/	biological proces	positive re	1.03695071	2.10E-45	1.78E-43
negative regulation of smooth muscle cell-matrix adhesion								
24617	Serpine1	mRNA	GO:0050729/	biological proces	reproductic	0.90267636	2.12E-23	9.03E-22
25239	Apod	mRNA	GO:0007420/	biological proces	development	0.73633298	0	0
immune response								
100364500	LOC100364500	mRNA	GO:0002474/	biological proces	immune syst	0.73546961	7.20E-21	2.68E-19
103690020	LOC103690020	mRNA	GO:0006955/	biological proces	cellular pr	0.94425771	1.53E-05	1.21E-04
103690108	LOC103690108	mRNA	GO:0002474/	biological proces	immune syst	0.84804252	2.65E-144	7.43E-142
117029	Ccr5	mRNA	GO:0060139/	biological proces	multi-organ	0.7218052	2.76E-11	5.12E-10
24237	C6	mRNA	GO:0045087/	biological proces	positive re	0.91627858	5.20E-12	1.04E-10
25660	Cd28	mRNA	GO:0045060/	biological proces	development	1.17574346	3.61E-06	3.24E-05
287561	Cc17	mRNA	GO:0006935/	biological proces	positive re	1.01026655	9.09E-09	1.23E-07
306748	Cxcl14	mRNA	GO:0006955/	biological proces	positive re	1.69757352	5.58E-67	7.33E-65
361289	Collec12	mRNA	GO:0060355/	biological proces	positive re	0.63299882	3.54E-22	1.41E-20
445442	Thbs1	mRNA	GO:0032695/	biological proces	development	0.64886049	5.44E-30	3.07E-28
494199	Oas1f	mRNA	GO:0006955/	biological proces	multi-organ	0.80689482	7.59E-10	1.19E-08
498335	Cxcl13	mRNA	GO:0006935/	biological proces	multi-organ	1.38176533	1.03E-33	6.57E-32
684440	Tlr8	mRNA	GO:0045359/	biological proces	multi-organ	0.81506633	3.88E-09	5.57E-08

Upregulated-MF								
Gene ID	Gene Symbol	Type	GO_F Term	GO_F Term Level1	GO_F Term Level2	log2 (CPIP_DEG_left / Sham_DEG_left)	Pvalue (CPIP_DEG_left / Sham_DEG_left)	Qvalue (CPIP_DEG_left / Sham_DEG_left)
low-density lipoprotein particle binding								
114122	Vcan	mRNA	GO:0005540/	molecular_f	binding	1.18678506	3.60E-98	6.72E-96
361289	Colecl2	mRNA	GO:0030246/	molecular_f	binding+++n	0.63299882	3.54E-22	1.41E-20
445442	Thbs1	mRNA	GO:0017134/	molecular_f	binding	0.64886049	5.44E-30	3.07E-28
498638	Msr1	mRNA	GO:0001540/	molecular_f	cargo recep	0.71827216	1.77E-13	4.09E-12
carbohydrate binding								
114122	Vcan	mRNA	GO:0005540/	molecular_f	binding	1.18678506	3.60E-98	6.72E-96
29403	Asgr2	mRNA	GO:0030246/	molecular_f	binding	0.90176442	3.31E-10	5.41E-09
304954	Uap112	mRNA	GO:0030246/	molecular_f	binding+++c	2.46346491	2.34E-10	3.93E-09
311426	Siglec1	mRNA	GO:0030246/	molecular_f	binding	0.62502781	2.97E-10	4.88E-09
361289	Colecl2	mRNA	GO:0030246/	molecular_f	binding+++n	0.63299882	3.54E-22	1.41E-20
362430	Clec4a1	mRNA	GO:0030246/	molecular_f	binding	0.69961749	3.51E-10	5.71E-09
362431	Clec4a3	mRNA	GO:0030246/	molecular_f	binding	0.70025514	7.42E-08	8.83E-07
494206	Ly49si1	mRNA	GO:0030246/	molecular_f	binding	2.19806554	6.54E-10	1.03E-08
494207	Ly49si2	mRNA	GO:0030246/	molecular_f	binding	1.9128388	7.86E-05	5.35E-04
500338	Klrc3	mRNA	GO:0030246/	molecular_f	binding	3.21448431	1.01E-04	6.72E-04
679787	Clec5a	mRNA	GO:0030246/	molecular_f	binding+++h	0.79852771	1.18E-07	1.36E-06
689790	Clec2d11	mRNA	GO:0030246/	molecular_f	binding	1.79524072	6.41E-06	5.46E-05
heparin binding								
100910978	LOC100910978	mRNA	GO:0070052/	molecular_f	binding	0.61219334	3.35E-13	7.52E-12
25661	Fn1	mRNA	GO:0008022/	molecular_f	binding+++s	1.16325353	0	0
287561	Cc17	mRNA	GO:0031726/	molecular_f	binding+++n	1.01026655	9.09E-09	1.23E-07
29220	Thbs4	mRNA	GO:0043237/	molecular_f	binding+++n	1.15146055	0	0
292401	Smoc2	mRNA	GO:0008201/	molecular_f	binding	0.88327816	5.46E-73	7.64E-71
298579	Pla2g2d	mRNA	GO:0004623/	molecular_f	binding+++c	0.86289069	7.69E-10	1.21E-08
445442	Thbs1	mRNA	GO:0017134/	molecular_f	binding	0.64886049	5.44E-30	3.07E-28
85272	Bmp7	mRNA	GO:0005160/	molecular_f	binding+++n	0.66895593	4.01E-11	7.23E-10
integrin binding								
116487	Tgfbi	mRNA	GO:0003674/	molecular_f	binding+++n	0.77682357	9.72E-262	4.63E-259
192203	Fap	mRNA	GO:0004175/	molecular_f	binding+++c	0.93710499	4.31E-13	9.60E-12
24329	Egfr	mRNA	GO:0030235/	molecular_f	binding+++c	0.59664343	4.74E-29	2.59E-27
25661	Fn1	mRNA	GO:0008022/	molecular_f	binding+++s	1.16325353	0	0
29220	Thbs4	mRNA	GO:0043237/	molecular_f	binding+++n	1.15146055	0	0
445442	Thbs1	mRNA	GO:0017134/	molecular_f	binding	0.64886049	5.44E-30	3.07E-28
89843	Cxadr	mRNA	GO:0008013/	molecular_f	binding	0.61447136	3.07E-84	5.04E-82
serine-type peptidase activity								
100360872	Mcpt111	mRNA	GO:0008233/	molecular_f	catalytic a	1.35784892	1.39E-50	1.37E-48
192203	Fap	mRNA	GO:0004175/	molecular_f	binding+++c	0.93710499	4.31E-13	9.60E-12
192262	C1s	mRNA	GO:0008233/	molecular_f	binding+++c	0.89991984	5.16E-243	2.29E-240
24231	C2	mRNA	GO:0008233/	molecular_f	binding+++c	0.78523717	2.50E-54	2.63E-52
25253	Dpp4	mRNA	GO:0002020/	molecular_f	binding+++c	1.03695071	2.10E-45	1.78E-43
25627	Cma1	mRNA	GO:0008233/	molecular_f	binding+++c	1.08192002	4.80E-07	5.02E-06
29252	Gzmm	mRNA	GO:0004175/	molecular_f	catalytic a	0.81286877	8.96E-05	6.01E-04
294257	Cfb	mRNA	GO:0004930/	molecular_f	catalytic a	0.7346057	4.76E-12	9.55E-11
collagen binding								
116487	Tgfbi	mRNA	GO:0003674/	molecular_f	binding+++n	0.77682357	9.72E-262	4.63E-259
25253	Dpp4	mRNA	GO:0002020/	molecular_f	binding+++c	1.03695071	2.10E-45	1.78E-43
29139	Dcn	mRNA	GO:0047485/	molecular_f	binding	0.76299562	0	0
29220	Thbs4	mRNA	GO:0043237/	molecular_f	binding+++n	1.15146055	0	0
81682	Lum	mRNA	GO:0003674/	molecular_f	binding+++n	0.6762143	2.00E-271	1.03E-268
peptidase activity								
100360872	Mcpt111	mRNA	GO:0008233/	molecular_f	catalytic a	1.35784892	1.39E-50	1.37E-48
192203	Fap	mRNA	GO:0004175/	molecular_f	binding+++c	0.93710499	4.31E-13	9.60E-12

Upregulated-CC								
Gene ID	Gene Symbol	Type	GO_C Term	GO_C Term Level1	GO_C Term Level2	log2 (CPIP_DE G_left / Sham_DEG left)	Pvalue (CPIP_DEG_left / Sham_DEG_left)	Qvalue (CPIP_DE G_left / Sham_DEG_left)
extracellular region								
1E+08	Mcpt111	mRNA	GO:000561	cellular compo	extracell	1.357849	1.39E-50	1.37E-48
1.03E+08	LOC102553715	mRNA	GO:000152	cellular compo	extracell	1.221327	3.61E-11	6.56E-10
1.04E+08	LOC103689965	mRNA	GO:000561	cellular compo	extracell	0.626995	3.03E-33	1.92E-31
114122	Vcan	mRNA	GO:006202	cellular compo	extracell	1.186785	3.60E-98	6.72E-96
114523	Ntn1	mRNA	GO:000557	cellular compo	extracell	0.65477	2.84E-14	7.16E-13
192262	C1s	mRNA	GO:000561	cellular compo	extracell	0.89992	#####	#####
24231	C2	mRNA	GO:000557	cellular compo	extracell	0.785237	2.50E-54	2.63E-52
24233	C4a	mRNA	GO:003042	cellular compo	extracell	0.673382	2.11E-31	1.27E-29
24237	C6	mRNA	GO:000561	cellular compo	extracell	0.916279	5.20E-12	1.04E-10
24536	Lepr	mRNA	GO:001602	cellular compo	extracell	0.704721	1.78E-32	1.10E-30
24617	Serpine1	mRNA	GO:004258	cellular compo	extracell	0.902676	2.12E-23	9.03E-22
24695	Pthlh	mRNA	GO:000557	cellular compo	organelle	1.218422	4.05E-05	2.94E-04
24856	Ttr	mRNA	GO:000561	cellular compo	extracell	3.78929	1.20E-15	3.36E-14
25239	Apod	mRNA	GO:000578	cellular compo	extracell	0.736333	0	0
25253	Dpp4	mRNA	GO:001602	cellular compo	organelle	1.036951	2.10E-45	1.78E-43
25453	Gdnf	mRNA	GO:000561	cellular compo	extracell	2.225086	8.63E-05	5.81E-04
25627	Cma1	mRNA	GO:000561	cellular compo	extracell	1.08192	4.80E-07	5.02E-06
25661	Fn1	mRNA	GO:007006	cellular compo	extracell	1.163254	0	0
287561	Ccl17	mRNA	GO:000561	cellular compo	extracell	1.010267	9.09E-09	1.23E-07
29139	Dcn	mRNA	GO:000558	cellular compo	extracell	0.762996	0	0
29200	Inhba	mRNA	GO:000561	cellular compo	extracell	0.631974	3.29E-06	2.97E-05
29220	Thbs4	mRNA	GO:000578	cellular compo	extracell	1.151461	0	0
292406	Thbs2	mRNA	GO:003109	cellular compo	extracell	0.705935	1.34E-75	1.96E-73
29252	Gzmm	mRNA	GO:000557	cellular compo	extracell	0.812869	8.96E-05	6.01E-04
292793	Sbsn	mRNA	GO:000557	cellular compo	cell part	1.151557	3.79E-23	1.60E-21
294257	Cfb	mRNA	GO:001602	cellular compo	extracell	0.734606	4.76E-12	9.55E-11
295703	Serping1	mRNA	GO:000561	cellular compo	extracell	0.607832	#####	#####
298566	Clqa	mRNA	GO:000557	cellular compo	protein-c	0.632217	2.22E-31	1.33E-29
298579	Pla2g2d	mRNA	GO:000557	cellular compo	extracell	0.862891	7.69E-10	1.21E-08
299737	Ntn4	mRNA	GO:000557	cellular compo	extracell	0.665104	1.03E-25	4.95E-24
304021	Col8a1	mRNA	GO:000561	cellular compo	extracell	0.686845	6.32E-25	2.92E-23
306748	Cxcl14	mRNA	GO:000557	cellular compo	organelle	1.697574	5.58E-67	7.33E-65
308099	Fndc1	mRNA	GO:001660	cellular compo	organelle	1.089188	5.11E-97	9.36E-95
309209	Vwce	mRNA	GO:000557	cellular compo	cell part	1.479498	3.28E-05	2.44E-04
310738	Ngf	mRNA	GO:003042	cellular compo	synapse p	1.220873	2.30E-07	2.54E-06
315979	Col6a6	mRNA	GO:000557	cellular compo	extracell	0.643573	2.37E-38	1.77E-36
316638	Sned1	mRNA	GO:000557	cellular compo	extracell	0.69138	6.75E-98	1.25E-95
317181	Srpx2	mRNA	GO:003005	cellular compo	synapse p	0.664697	4.37E-06	3.86E-05
361821	Col6a2	mRNA	GO:004238	cellular compo	extracell	0.633438	#####	#####
365395	Clcf1	mRNA	GO:009705	cellular compo	extracell	0.949254	4.79E-05	3.43E-04
366270	Edn3	mRNA	GO:000557	cellular compo	extracell	0.878958	1.83E-05	1.43E-04
445442	Thbs1	mRNA	GO:003109	cellular compo	extracell	0.64886	5.44E-30	3.07E-28
498335	Cxcl13	mRNA	GO:000561	cellular compo	extracell	1.381765	1.03E-33	6.57E-32
60327	F13a1	mRNA	GO:000557	cellular compo	cell part	0.808412	1.48E-24	6.71E-23
60333	Msln	mRNA	GO:001602	cellular compo	extracell	3.200231	1.58E-76	2.33E-74
689008	Fbn2	mRNA	GO:006202	cellular compo	extracell	0.845692	1.47E-14	3.78E-13
81523	Myoc	mRNA	GO:000578	cellular compo	extracell	0.629576	0	0
81682	Lum	mRNA	GO:006202	cellular compo	extracell	0.676214	#####	#####
81828	Zp2	mRNA	GO:001602	cellular compo	extracell	4.462125	2.17E-06	2.03E-05

85272	Bmp7	mRNA	GO:006202	cellular compo	extracell	0.668956	4.01E-11	7.23E-10
extracellular matrix								
1.01E+08	LOC100910978	mRNA	GO:003101	cellular compo	extracell	0.612193	3.35E-13	7.52E-12
1.03E+08	LOC102553715	mRNA	GO:000152	cellular compo	extracell	1.221327	3.61E-11	6.56E-10
114122	Vcan	mRNA	GO:006202	cellular compo	extracell	1.186785	3.60E-98	6.72E-96
114523	Ntn1	mRNA	GO:000557	cellular compo	extracell	0.65477	2.84E-14	7.16E-13
116487	Tgfbi	mRNA	GO:000580	cellular compo	extracell	0.776824	#####	#####
25661	Fn1	mRNA	GO:007006	cellular compo	extracell	1.163254	0	0
29139	Dcn	mRNA	GO:000558	cellular compo	extracell	0.762996	0	0
29220	Thbs4	mRNA	GO:000578	cellular compo	extracell	1.151461	0	0
292401	Smoc2	mRNA	GO:006202	cellular compo	extracell	0.883278	5.46E-73	7.64E-71
292406	Thbs2	mRNA	GO:003109	cellular compo	extracell	0.705935	1.34E-75	1.96E-73
301012	Col7a1	mRNA	GO:000557	cellular compo	extracell	1.279534	4.83E-12	9.67E-11
303384	Mmp28	mRNA	GO:003101	cellular compo	extracell	0.805381	6.20E-07	6.37E-06
304021	Col8a1	mRNA	GO:000561	cellular compo	extracell	0.686845	6.32E-25	2.92E-23
313831	Vit	mRNA	GO:006202	cellular compo	extracell	0.746679	2.54E-34	1.68E-32
315979	Col6a6	mRNA	GO:000557	cellular compo	extracell	0.643573	2.37E-38	1.77E-36
361821	Col6a2	mRNA	GO:004238	cellular compo	extracell	0.633438	#####	#####
445442	Thbs1	mRNA	GO:003109	cellular compo	extracell	0.64886	5.44E-30	3.07E-28
689008	Fbn2	mRNA	GO:006202	cellular compo	extracell	0.845692	1.47E-14	3.78E-13
81682	Lum	mRNA	GO:006202	cellular compo	extracell	0.676214	#####	#####
collagen-containing extracellular matrix								
114122	Vcan	mRNA	GO:006202	cellular compo	extracell	1.186785	3.60E-98	6.72E-96
24617	Serpine1	mRNA	GO:004258	cellular compo	extracell	0.902676	2.12E-23	9.03E-22
25236	Gpc3	mRNA	GO:000557	cellular compo	extracell	0.767987	#####	#####
25661	Fn1	mRNA	GO:007006	cellular compo	extracell	1.163254	0	0
29220	Thbs4	mRNA	GO:000578	cellular compo	extracell	1.151461	0	0
292401	Smoc2	mRNA	GO:006202	cellular compo	extracell	0.883278	5.46E-73	7.64E-71
313831	Vit	mRNA	GO:006202	cellular compo	extracell	0.746679	2.54E-34	1.68E-32
689008	Fbn2	mRNA	GO:006202	cellular compo	extracell	0.845692	1.47E-14	3.78E-13
81523	Myoc	mRNA	GO:000578	cellular compo	extracell	0.629576	0	0
81682	Lum	mRNA	GO:006202	cellular compo	extracell	0.676214	#####	#####
81828	Zp2	mRNA	GO:001602	cellular compo	extracell	4.462125	2.17E-06	2.03E-05
85272	Bmp7	mRNA	GO:006202	cellular compo	extracell	0.668956	4.01E-11	7.23E-10
extracellular space								
1E+08	Mcpt111	mRNA	GO:000561	cellular compo	extracell	1.357849	1.39E-50	1.37E-48
1.03E+08	LOC102553715	mRNA	GO:000152	cellular compo	extracell	1.221327	3.61E-11	6.56E-10
1.04E+08	LOC103689965	mRNA	GO:000561	cellular compo	extracell	0.626995	3.03E-33	1.92E-31
116487	Tgfbi	mRNA	GO:000580	cellular compo	extracell	0.776824	#####	#####
192203	Fap	mRNA	GO:000561	cellular compo	extracell	0.937105	4.31E-13	9.60E-12
192262	C1s	mRNA	GO:000561	cellular compo	extracell	0.89992	#####	#####
24233	C4a	mRNA	GO:003042	cellular compo	extracell	0.673382	2.11E-31	1.27E-29
24237	C6	mRNA	GO:000561	cellular compo	extracell	0.916279	5.20E-12	1.04E-10
24536	Lepr	mRNA	GO:001602	cellular compo	extracell	0.704721	1.78E-32	1.10E-30
24617	Serpine1	mRNA	GO:004258	cellular compo	extracell	0.902676	2.12E-23	9.03E-22
24856	Ttr	mRNA	GO:000561	cellular compo	extracell	3.78929	1.20E-15	3.36E-14
25239	Apod	mRNA	GO:000578	cellular compo	extracell	0.736333	0	0
25453	Gdnf	mRNA	GO:000561	cellular compo	extracell	2.225086	8.63E-05	5.81E-04
25627	Cma1	mRNA	GO:000561	cellular compo	extracell	1.08192	4.80E-07	5.02E-06
25661	Fn1	mRNA	GO:007006	cellular compo	extracell	1.163254	0	0
287561	Cc17	mRNA	GO:000561	cellular compo	extracell	1.010267	9.09E-09	1.23E-07
29200	Inhba	mRNA	GO:000561	cellular compo	extracell	0.631974	3.29E-06	2.97E-05
29220	Thbs4	mRNA	GO:000578	cellular compo	extracell	1.151461	0	0
292401	Smoc2	mRNA	GO:006202	cellular compo	extracell	0.883278	5.46E-73	7.64E-71
292406	Thbs2	mRNA	GO:003109	cellular compo	extracell	0.705935	1.34E-75	1.96E-73
294257	Cfb	mRNA	GO:001602	cellular compo	extracell	0.734606	4.76E-12	9.55E-11

295703	Serping1	mRNA	GO:000561	cellular compo	extracell	0.607832	#####	#####
296952	Kcp	mRNA	GO:000561	cellular compo	extracell	0.648423	1.36E-06	1.32E-05
301012	Col7a1	mRNA	GO:000557	cellular compo	extracell	1.279534	4.83E-12	9.67E-11
304021	Col8a1	mRNA	GO:000561	cellular compo	extracell	0.686845	6.32E-25	2.92E-23
310738	Ngf	mRNA	GO:003042	cellular compo	synapse p	1.220873	2.30E-07	2.54E-06
311252	Pamr1	mRNA	GO:000561	cellular compo	extracell	0.593997	6.30E-12	1.25E-10
313831	Vit	mRNA	GO:006202	cellular compo	extracell	0.746679	2.54E-34	1.68E-32
317181	Srpx2	mRNA	GO:003005	cellular compo	synapse p	0.664697	4.37E-06	3.86E-05
361821	Col6a2	mRNA	GO:004238	cellular compo	extracell	0.633438	#####	#####
445442	Thbs1	mRNA	GO:003109	cellular compo	extracell	0.64886	5.44E-30	3.07E-28
448830	Ly96	mRNA	GO:000561	cellular compo	extracell	0.745667	1.41E-06	1.36E-05
498335	Cxcl13	mRNA	GO:000561	cellular compo	extracell	1.381765	1.03E-33	6.57E-32
54242	Cpa3	mRNA	GO:003013	cellular compo	extracell	1.899934	5.77E-31	3.38E-29
60333	Msln	mRNA	GO:001602	cellular compo	extracell	3.200231	1.58E-76	2.33E-74
679149	LOC679149	mRNA	GO:000561	cellular compo	extracell	3.510488	7.87E-06	6.59E-05
81523	Myoc	mRNA	GO:000578	cellular compo	extracell	0.629576	0	0
85272	Bmp7	mRNA	GO:006202	cellular compo	extracell	0.668956	4.01E-11	7.23E-10
basement membrane								
114523	Ntn1	mRNA	GO:000557	cellular compo	extracell	0.65477	2.84E-14	7.16E-13
116487	Tgfbi	mRNA	GO:000580	cellular compo	extracell	0.776824	#####	#####
25661	Fn1	mRNA	GO:007006	cellular compo	extracell	1.163254	0	0
29220	Thbs4	mRNA	GO:000578	cellular compo	extracell	1.151461	0	0
292401	Smoc2	mRNA	GO:006202	cellular compo	extracell	0.883278	5.46E-73	7.64E-71
292406	Thbs2	mRNA	GO:003109	cellular compo	extracell	0.705935	1.34E-75	1.96E-73
299737	Ntn4	mRNA	GO:000557	cellular compo	extracell	0.665104	1.03E-25	4.95E-24
external side of plasma membrane								
117029	Ccr5	mRNA	GO:001602	cellular compo	organelle	0.721805	2.76E-11	5.12E-10
24536	Lepr	mRNA	GO:001602	cellular compo	extracell	0.704721	1.78E-32	1.10E-30
25293	Aqp4	mRNA	GO:004238	cellular compo	protein-c	0.841721	7.55E-10	1.19E-08
25660	Cd28	mRNA	GO:009863	cellular compo	protein-c	1.175743	3.61E-06	3.24E-05
304966	Fcgr3a	mRNA	GO:001602	cellular compo	cell part	0.815066	3.12E-05	2.33E-04
312701	Cd163	mRNA	GO:001602	cellular compo	cell part	0.667795	7.70E-20	2.70E-18
316137	Adgre1	mRNA	GO:001602	cellular compo	cell part	0.856659	2.07E-36	1.48E-34
445442	Thbs1	mRNA	GO:003109	cellular compo	extracell	0.64886	5.44E-30	3.07E-28
494207	Ly49si2	mRNA	GO:000989	cellular compo	cell part	1.912839	7.86E-05	5.35E-04
499271	Itgax	mRNA	GO:000998	cellular compo	protein-c	0.71493	4.07E-06	3.61E-05
684440	Tlr8	mRNA	GO:001602	cellular compo	cell part	0.815066	3.88E-09	5.57E-08
collagen trimer								
298566	Clqa	mRNA	GO:000557	cellular compo	protein-c	0.632217	2.22E-31	1.33E-29
301012	Col7a1	mRNA	GO:000557	cellular compo	extracell	1.279534	4.83E-12	9.67E-11
304021	Col8a1	mRNA	GO:000561	cellular compo	extracell	0.686845	6.32E-25	2.92E-23
361289	Colec12	mRNA	GO:001602	cellular compo	protein-c	0.632999	3.54E-22	1.41E-20
361821	Col6a2	mRNA	GO:004238	cellular compo	extracell	0.633438	#####	#####
invadopodium membrane								
192203	Fap	mRNA	GO:000561	cellular compo	extracell	0.937105	4.31E-13	9.60E-12
25253	Dpp4	mRNA	GO:001602	cellular compo	organelle	1.036951	2.10E-45	1.78E-43
fibrinogen complex								
25661	Fn1	mRNA	GO:007006	cellular compo	extracell	1.163254	0	0
445442	Thbs1	mRNA	GO:003109	cellular compo	extracell	0.64886	5.44E-30	3.07E-28
cell surface								
1.08E+08	LOC108348047	mRNA	GO:000998	cellular compo	cell part	0.880365	5.43E-21	2.05E-19
114122	Vcan	mRNA	GO:006202	cellular compo	extracell	1.186785	3.60E-98	6.72E-96
117029	Ccr5	mRNA	GO:001602	cellular compo	organelle	0.721805	2.76E-11	5.12E-10
192203	Fap	mRNA	GO:000561	cellular compo	extracell	0.937105	4.31E-13	9.60E-12
24329	Egfr	mRNA	GO:001602	cellular compo	protein-c	0.596643	4.74E-29	2.59E-27
25253	Dpp4	mRNA	GO:001602	cellular compo	organelle	1.036951	2.10E-45	1.78E-43

Downregulated-BP								
Gene ID	Gene Symbol	Type	GO_P Term	GO_P Term Level1	GO_P Term Level2	log2 (CPIP_DE G_left / Sham_DEG left)	Pvalue (CPIP_DEG_left / Sham_DEG_left)	Qvalue (CPIP_DEG_left / Sham_DEG_left)
muscle contraction								
114207	Ryr1	mRNA	GO:007131	biological proc	developme	-3.56583	#####	#####
117558	Mylk2	mRNA	GO:000694	biological proc	developme	-3.85679	1.04E-99	1.99E-97
140939	Trim63	mRNA	GO:001487	biological proc	cellular	-0.91883	1.11E-06	1.10E-05
171009	Actn3	mRNA	GO:004874	biological proc	developme	-4.49874	0	0
171409	Tnnt1	mRNA	GO:004521	biological proc	developme	-2.24523	3.72E-13	8.29E-12
24584	Mylpf	mRNA	GO:006104	biological proc	developme	-5.34165	0	0
24585	My13	mRNA	GO:000694	biological proc	developme	-1.32563	4.10E-08	5.05E-07
24838	Tnnt3	mRNA	GO:000693	biological proc	multicell	-5.10245	0	0
287408	Myh1	mRNA	GO:000693	biological proc	multicell	-5.39489	0	0
291245	Actn2	mRNA	GO:004521	biological proc	developme	-3.22145	#####	#####
292879	Mybpc2	mRNA	GO:004521	biological proc	developme	-4.4193	0	0
29389	Tnni2	mRNA	GO:000693	biological proc	positive	-5.59009	0	0
295261	Tmod4	mRNA	GO:003023	biological proc	developme	-1.56136	2.69E-32	1.65E-30
296935	Lmod2	mRNA	GO:004521	biological proc	positive	-4.83525	1.58E-34	1.06E-32
306616	Myom2	mRNA	GO:004521	biological proc	developme	-0.97351	1.57E-80	2.43E-78
316740	Myom1	mRNA	GO:004521	biological proc	positive	-2.209	1.17E-49	1.12E-47
362867	Mybpc1	mRNA	GO:004521	biological proc	developme	-4.22105	#####	#####
500267	Lmod3	mRNA	GO:000694	biological proc	positive	-3.08477	3.25E-16	9.32E-15
56781	My11	mRNA	GO:007258	biological proc	positive	-6.01835	0	0
682930	Cacnals	mRNA	GO:003476	biological proc	cellular	-3.71682	#####	#####
691644	Myh2	mRNA	GO:000694	biological proc	cellular	-7.02013	0	0
81633	Acta2	mRNA	GO:007037	biological proc	multi-org	-0.65273	4.22E-49	3.98E-47
84015	Ttn	mRNA	GO:004521	biological proc	positive	-3.54739	0	0
sarcomere organization								
117537	Klhl41	mRNA	GO:004521	biological proc	developme	-2.72349	8.99E-49	8.43E-47
171409	Tnnt1	mRNA	GO:004521	biological proc	developme	-2.24523	3.72E-13	8.29E-12
291245	Actn2	mRNA	GO:004521	biological proc	developme	-3.22145	#####	#####
29155	Capn3	mRNA	GO:004521	biological proc	positive	-1.1193	8.08E-10	1.26E-08
292879	Mybpc2	mRNA	GO:004521	biological proc	developme	-4.4193	0	0
295426	Myoz2	mRNA	GO:004521	biological proc	developme	-1.04915	7.79E-05	5.31E-04
296935	Lmod2	mRNA	GO:004521	biological proc	positive	-4.83525	1.58E-34	1.06E-32
306616	Myom2	mRNA	GO:004521	biological proc	developme	-0.97351	1.57E-80	2.43E-78
309760	Mypn	mRNA	GO:004521	biological proc	developme	-2.19745	1.62E-24	7.28E-23
316740	Myom1	mRNA	GO:004521	biological proc	positive	-2.209	1.17E-49	1.12E-47
362867	Mybpc1	mRNA	GO:004521	biological proc	developme	-4.22105	#####	#####
498440	Myoz1	mRNA	GO:004521	biological proc	developme	-5.06562	#####	#####
498587	Ldb3	mRNA	GO:004521	biological proc	developme	-0.68953	8.44E-53	8.64E-51
686019	Casq1	mRNA	GO:004521	biological proc	positive	-3.13107	#####	#####
688173	Tcap	mRNA	GO:004521	biological proc	developme	-2.66973	4.08E-09	5.84E-08
84015	Ttn	mRNA	GO:004521	biological proc	positive	-3.54739	0	0
ossification								
171052	Mmp13	mRNA	GO:002261	biological proc	reproduct	-0.67104	8.16E-18	2.63E-16
24477	Ibsp	mRNA	GO:003028	biological proc	positive	-1.74421	1.10E-56	1.21E-54
25295	Bglap	mRNA	GO:003050	biological proc	developme	-2.28801	1.28E-82	2.07E-80
25304	Comp	mRNA	GO:003050	biological proc	positive	-0.67432	2.66E-22	1.07E-20
25312	Dmp1	mRNA	GO:007017	biological proc	developme	-2.70302	2.93E-22	1.18E-20
25412	Col2a1	mRNA	GO:000741	biological proc	developme	-1.66991	0	0
25732	Acp5	mRNA	GO:006034	biological proc	multi-org	-0.86062	3.05E-20	1.10E-18
360730	Ostn	mRNA	GO:003015	biological proc	developme	-4.16723	2.59E-05	1.96E-04

365009	Clec3a	mRNA	GO:000150	biological proc	multicell	-5.08477	1.77E-09	2.64E-08
58968	Acan	mRNA	GO:000741	biological proc	developme	-3.36343	2.15E-87	3.68E-85
64032	Ctgf	mRNA	GO:003015	biological proc	positive	-0.68074	1.23E-29	6.89E-28
682930	Cacnals	mRNA	GO:003476	biological proc	cellular	-3.71682	#####	#####
690468	LOC690468	mRNA	GO:000641	biological proc	developme	-3.01865	8.39E-22	3.29E-20
81639	Alox15	mRNA	GO:003028	biological proc	positive	-0.82121	3.84E-09	5.52E-08
81687	Mmp9	mRNA	GO:190470	biological proc	reproduct	-1.31189	8.93E-30	5.01E-28
skeletal muscle thin filament assembly								
292879	Mybpc2	mRNA	GO:004521	biological proc	developme	-4.4193	0	0
29437	Acta1	mRNA	GO:007141	biological proc	developme	-4.57484	0	0
306616	Myom2	mRNA	GO:004521	biological proc	developme	-0.97351	1.57E-80	2.43E-78
316740	Myom1	mRNA	GO:004521	biological proc	positive	-2.209	1.17E-49	1.12E-47
362867	Mybpc1	mRNA	GO:004521	biological proc	developme	-4.22105	#####	#####
500267	Lmod3	mRNA	GO:000694	biological proc	positive	-3.08477	3.25E-16	9.32E-15
688173	Tcap	mRNA	GO:004521	biological proc	developme	-2.66973	4.08E-09	5.84E-08
84015	Ttn	mRNA	GO:004521	biological proc	positive	-3.54739	0	0
cardiac muscle tissue morphogenesis								
117558	Mylk2	mRNA	GO:000694	biological proc	developme	-3.85679	1.04E-99	1.99E-97
27064	Ankrd1	mRNA	GO:004589	biological proc	multi-org	-2.80466	7.51E-16	2.12E-14
292879	Mybpc2	mRNA	GO:004521	biological proc	developme	-4.4193	0	0
306616	Myom2	mRNA	GO:004521	biological proc	developme	-0.97351	1.57E-80	2.43E-78
316740	Myom1	mRNA	GO:004521	biological proc	positive	-2.209	1.17E-49	1.12E-47
362867	Mybpc1	mRNA	GO:004521	biological proc	developme	-4.22105	#####	#####
688173	Tcap	mRNA	GO:004521	biological proc	developme	-2.66973	4.08E-09	5.84E-08
84015	Ttn	mRNA	GO:004521	biological proc	positive	-3.54739	0	0
cardiac myofibril assembly								
117505	Csrp3	mRNA	GO:003015	biological proc	positive	-2.7726	2.27E-15	6.20E-14
24584	Mylpf	mRNA	GO:006104	biological proc	developme	-5.34165	0	0
292879	Mybpc2	mRNA	GO:004521	biological proc	developme	-4.4193	0	0
306616	Myom2	mRNA	GO:004521	biological proc	developme	-0.97351	1.57E-80	2.43E-78
316740	Myom1	mRNA	GO:004521	biological proc	positive	-2.209	1.17E-49	1.12E-47
362867	Mybpc1	mRNA	GO:004521	biological proc	developme	-4.22105	#####	#####
688173	Tcap	mRNA	GO:004521	biological proc	developme	-2.66973	4.08E-09	5.84E-08
84015	Ttn	mRNA	GO:004521	biological proc	positive	-3.54739	0	0
skeletal muscle contraction								
171409	Tnnt1	mRNA	GO:004521	biological proc	developme	-2.24523	3.72E-13	8.29E-12
24583	Myh3	mRNA	GO:004603	biological proc	cellular	-1.5939	5.98E-14	1.47E-12
24838	Tnnt3	mRNA	GO:000693	biological proc	multicell	-5.10245	0	0
252942	Myh8	mRNA	GO:004603	biological proc	cellular	-0.64357	8.24E-06	6.87E-05
29389	Tnni2	mRNA	GO:000693	biological proc	positive	-5.59009	0	0
296369	Tnnc2	mRNA	GO:000693	biological proc	multicell	-5.91177	0	0
362895	Stac3	mRNA	GO:003555	biological proc	positive	-4.3478	4.20E-24	1.85E-22
688173	Tcap	mRNA	GO:004521	biological proc	developme	-2.66973	4.08E-09	5.84E-08
690423	Jsrp1	mRNA	GO:006031	biological proc	cellular	-3.13116	2.29E-15	6.24E-14
skeletal muscle myosin thick filament assembly								
292879	Mybpc2	mRNA	GO:004521	biological proc	developme	-4.4193	0	0
306616	Myom2	mRNA	GO:004521	biological proc	developme	-0.97351	1.57E-80	2.43E-78
316740	Myom1	mRNA	GO:004521	biological proc	positive	-2.209	1.17E-49	1.12E-47
362867	Mybpc1	mRNA	GO:004521	biological proc	developme	-4.22105	#####	#####
688173	Tcap	mRNA	GO:004521	biological proc	developme	-2.66973	4.08E-09	5.84E-08
84015	Ttn	mRNA	GO:004521	biological proc	positive	-3.54739	0	0
cardiac muscle fiber development								
292879	Mybpc2	mRNA	GO:004521	biological proc	developme	-4.4193	0	0
304551	Myo18b	mRNA	GO:000170	biological proc	developme	-1.87311	7.51E-24	3.28E-22
306616	Myom2	mRNA	GO:004521	biological proc	developme	-0.97351	1.57E-80	2.43E-78
316740	Myom1	mRNA	GO:004521	biological proc	positive	-2.209	1.17E-49	1.12E-47

362867	Mybpc1	mRNA	GO:004521	biological proc	developme	-4.22105	#####	#####
688173	Tcap	mRNA	GO:004521	biological proc	developme	-2.66973	4.08E-09	5.84E-08
84015	Ttn	mRNA	GO:004521	biological proc	positive	-3.54739	0	0
cardiac muscle contraction								
117505	Csrp3	mRNA	GO:003015	biological proc	positive	-2.7726	2.27E-15	6.20E-14
171409	Tnnt1	mRNA	GO:004521	biological proc	developme	-2.24523	3.72E-13	8.29E-12
24584	Mylpf	mRNA	GO:006104	biological proc	developme	-5.34165	0	0
24585	My13	mRNA	GO:000694	biological proc	developme	-1.32563	4.10E-08	5.05E-07
29389	Tnni2	mRNA	GO:000693	biological proc	positive	-5.59009	0	0
363925	My12	mRNA	GO:000202	biological proc	developme	-5.9515	7.13E-09	9.79E-08
56781	My11	mRNA	GO:007258	biological proc	positive	-6.01835	0	0
688173	Tcap	mRNA	GO:004521	biological proc	developme	-2.66973	4.08E-09	5.84E-08
84015	Ttn	mRNA	GO:004521	biological proc	positive	-3.54739	0	0

Downregulated-MF								
Gene ID	Gene Symbol	Type	GO_F Term	GO_F Term Level1	GO_F Term Level2	log2 (CPIP_DE G_left / Sham_DEG left)	Pvalue (CPIP_DEG_left / Sham_DEG_left)	Qvalue (CPIP_DE G_left / Sham_DEG_left)
actin binding								
1.01E+08	LOC100909	mRNA	GO:005139	molecular function	binding	-3.4962	8.84E-06	7.35E-05
1.01E+08	Xirp1	mRNA	GO:000377	molecular function	binding	-1.84535	5.09E-13	1.12E-11
117505	Csrp3	mRNA	GO:004280	molecular function	binding++	-2.7726	2.27E-15	6.20E-14
171009	Actn3	mRNA	GO:000377	molecular function	binding	-4.49874	0	0
24583	Myh3	mRNA	GO:000377	molecular function	binding++	-1.5939	5.98E-14	1.47E-12
246172	Nexn	mRNA	GO:000377	molecular function	binding++	-0.78367	9.97E-17	2.98E-15
24779	Slc4a1	mRNA	GO:000377	molecular function	transport	-0.70731	1.27E-28	6.85E-27
252942	Myh8	mRNA	GO:000377	molecular function	binding++	-0.64357	8.24E-06	6.87E-05
286965	Abra	mRNA	GO:000377	molecular function	binding	-1.24923	3.34E-11	6.11E-10
291245	Actn2	mRNA	GO:000377	molecular function	transcription	-3.22145	#####	#####
29389	Tnni2	mRNA	GO:000377	molecular function	binding++	-5.59009	0	0
295426	Myoz2	mRNA	GO:000377	molecular function	binding	-1.04915	7.79E-05	5.31E-04
296369	Tnnc2	mRNA	GO:000377	molecular function	binding	-5.91177	0	0
296935	Lmod2	mRNA	GO:000552	molecular function	binding	-4.83525	1.58E-34	1.06E-32
297339	Capg	mRNA	GO:000377	molecular function	binding	-1.46306	#####	#####
304551	Myo18b	mRNA	GO:000377	molecular function	binding++	-1.87311	7.51E-24	3.28E-22
305675	Synpo21	mRNA	GO:000377	molecular function	binding	-1.88534	4.75E-34	3.09E-32
307982	Nrap	mRNA	GO:000377	molecular function	binding	-4.39226	#####	#####
311029	Neb	mRNA	GO:000377	molecular function	binding	-0.76932	3.47E-81	5.47E-79
311098	Xirp2	mRNA	GO:000377	molecular function	binding	-3.64116	#####	#####
360543	Myh4	mRNA	GO:000377	molecular function	binding++	-5.22301	0	0
362867	Mybpc1	mRNA	GO:000377	molecular function	binding++	-4.22105	#####	#####
364558	Palld	mRNA	GO:000377	molecular function	binding	-3.51056	1.45E-06	1.40E-05
498440	Myoz1	mRNA	GO:000377	molecular function	binding++	-5.06562	#####	#####
500450	Tpm2	mRNA	GO:000377	molecular function	binding	-2.19298	0	0
65204	Cnn1	mRNA	GO:000377	molecular function	binding	-1.27951	1.81E-12	3.76E-11
689274	Myoz3	mRNA	GO:000377	molecular function	binding	-4.45674	6.07E-36	4.26E-34
691644	Myh2	mRNA	GO:000377	molecular function	binding++	-7.02013	0	0
structural constituent of muscle								
117505	Csrp3	mRNA	GO:004280	molecular function	binding++	-2.7726	2.27E-15	6.20E-14
24584	Mylpf	mRNA	GO:000378	molecular function	binding++	-5.34165	0	0
246172	Nexn	mRNA	GO:000377	molecular function	binding++	-0.78367	9.97E-17	2.98E-15
29155	Capn3	mRNA	GO:003294	molecular function	binding++	-1.1193	8.08E-10	1.26E-08
292879	Mybpc2	mRNA	GO:005137	molecular function	binding++	-4.4193	0	0
297748	Jph1	mRNA	GO:001527	molecular function	transport	-1.2197	1.94E-09	2.89E-08
306616	Myom2	mRNA	GO:005137	molecular function	binding++	-0.97351	1.57E-80	2.43E-78
316740	Myom1	mRNA	GO:005137	molecular function	binding++	-2.209	1.17E-49	1.12E-47
362867	Mybpc1	mRNA	GO:000377	molecular function	binding++	-4.22105	#####	#####
84015	Ttn	mRNA	GO:004280	molecular function	structural constituent of muscle	-3.54739	0	0
actin filament binding								
171009	Actn3	mRNA	GO:000377	molecular function	binding	-4.49874	0	0
24583	Myh3	mRNA	GO:000377	molecular function	binding++	-1.5939	5.98E-14	1.47E-12
246172	Nexn	mRNA	GO:000377	molecular function	binding++	-0.78367	9.97E-17	2.98E-15
252942	Myh8	mRNA	GO:000377	molecular function	binding++	-0.64357	8.24E-06	6.87E-05
287408	Myh1	mRNA	GO:005101	molecular function	binding++	-5.39489	0	0
291245	Actn2	mRNA	GO:000377	molecular function	transcription	-3.22145	#####	#####
292879	Mybpc2	mRNA	GO:005137	molecular function	binding++	-4.4193	0	0
295261	Tmod4	mRNA	GO:000552	molecular function	binding	-1.56136	2.69E-32	1.65E-30
296369	Tnnc2	mRNA	GO:000377	molecular function	binding	-5.91177	0	0

297339	Capg	mRNA	GO:000377	molecular function	binding	-1.46306	#####	#####
306616	Myom2	mRNA	GO:005137	molecular function	binding++	-0.97351	1.57E-80	2.43E-78
307982	Nrap	mRNA	GO:000377	molecular function	binding	-4.39226	#####	#####
311029	Neb	mRNA	GO:000377	molecular function	binding	-0.76932	3.47E-81	5.47E-79
311098	Xirp2	mRNA	GO:000377	molecular function	binding	-3.64116	#####	#####
316740	Myom1	mRNA	GO:005137	molecular function	binding++	-2.209	1.17E-49	1.12E-47
360543	Myh4	mRNA	GO:000377	molecular function	binding++	-5.22301	0	0
362867	Mybpc1	mRNA	GO:000377	molecular function	binding++	-4.22105	#####	#####
500450	Tpm2	mRNA	GO:000377	molecular function	binding	-2.19298	0	0
684425	Adss11	mRNA	GO:001687	molecular function	binding++	-2.94615	7.58E-79	1.16E-76
691644	Myh2	mRNA	GO:000377	molecular function	binding++	-7.02013	0	0
84015	Ttn	mRNA	GO:004280	molecular function	structural	-3.54739	0	0
titin binding								
1.08E+08	LOC108352	mRNA	GO:000467	molecular function	binding++	-2.87925	4.65E-43	3.80E-41
140939	Trim63	mRNA	GO:000484	molecular function	binding++	-0.91883	1.11E-06	1.10E-05
27064	Ankrd1	mRNA	GO:000203	molecular function	transcription	-2.80466	7.51E-16	2.12E-14
291245	Actn2	mRNA	GO:000377	molecular function	transcription	-3.22145	#####	#####
29155	Capn3	mRNA	GO:003294	molecular function	binding++	-1.1193	8.08E-10	1.26E-08
295531	Tnni3k	mRNA	GO:000467	molecular function	binding++	-1.76098	5.30E-29	2.88E-27
316330	Ankrd23	mRNA	GO:000367	molecular function	binding++	-4.56578	#####	#####
muscle alpha-actinin binding								
292879	Mybpc2	mRNA	GO:005137	molecular function	binding++	-4.4193	0	0
306616	Myom2	mRNA	GO:005137	molecular function	binding++	-0.97351	1.57E-80	2.43E-78
307982	Nrap	mRNA	GO:000377	molecular function	binding	-4.39226	#####	#####
309760	Mypn	mRNA	GO:005137	molecular function	binding	-2.19745	1.62E-24	7.28E-23
316740	Myom1	mRNA	GO:005137	molecular function	binding++	-2.209	1.17E-49	1.12E-47
362867	Mybpc1	mRNA	GO:000377	molecular function	binding++	-4.22105	#####	#####
498587	Ldb3	mRNA	GO:005137	molecular function	binding++	-0.68953	8.44E-53	8.64E-51
84015	Ttn	mRNA	GO:004280	molecular function	structural	-3.54739	0	0
telethonin binding								
117505	Csrp3	mRNA	GO:004280	molecular function	binding++	-2.7726	2.27E-15	6.20E-14
295426	Myoz2	mRNA	GO:000377	molecular function	binding	-1.04915	7.79E-05	5.31E-04
498440	Myoz1	mRNA	GO:000377	molecular function	binding++	-5.06562	#####	#####
689274	Myoz3	mRNA	GO:000377	molecular function	binding	-4.45674	6.07E-36	4.26E-34
84015	Ttn	mRNA	GO:004280	molecular function	structural	-3.54739	0	0
tropomyosin binding								
171409	Tnnt1	mRNA	GO:000552	molecular function	binding++	-2.24523	3.72E-13	8.29E-12
24838	Tnnt3	mRNA	GO:000552	molecular function	binding	-5.10245	0	0
295261	Tmod4	mRNA	GO:000552	molecular function	binding	-1.56136	2.69E-32	1.65E-30
296935	Lmod2	mRNA	GO:000552	molecular function	binding	-4.83525	1.58E-34	1.06E-32
311167	Smtn11	mRNA	GO:000552	molecular function	binding	-1.94727	3.47E-10	5.65E-09
500267	Lmod3	mRNA	GO:000552	molecular function	binding	-3.08477	3.25E-16	9.32E-15
FATZ binding								
291245	Actn2	mRNA	GO:000377	molecular function	transcription	-3.22145	#####	#####
295426	Myoz2	mRNA	GO:000377	molecular function	binding	-1.04915	7.79E-05	5.31E-04
498440	Myoz1	mRNA	GO:000377	molecular function	binding++	-5.06562	#####	#####
689274	Myoz3	mRNA	GO:000377	molecular function	binding	-4.45674	6.07E-36	4.26E-34
calmodulin binding								
1.08E+08	LOC108352	mRNA	GO:000467	molecular function	binding++	-2.87925	4.65E-43	3.80E-41
114207	Ryr1	mRNA	GO:000202	molecular function	transport	-3.56583	#####	#####
117558	Mylk2	mRNA	GO:000467	molecular function	binding++	-3.85679	1.04E-99	1.99E-97
24583	Myh3	mRNA	GO:000377	molecular function	binding++	-1.5939	5.98E-14	1.47E-12
287408	Myh1	mRNA	GO:005101	molecular function	binding++	-5.39489	0	0
29353	Phkg1	mRNA	GO:000468	molecular function	binding++	-1.87866	2.69E-08	3.39E-07
311167	Smtn11	mRNA	GO:000552	molecular function	binding	-1.94727	3.47E-10	5.65E-09
360543	Myh4	mRNA	GO:000377	molecular function	binding++	-5.22301	0	0

65204	Cnn1	mRNA	GO:000377	molecular funct	binding	-1.27951	1.81E-12	3.76E-11
682930	Cacnals	mRNA	GO:000524	molecular funct	binding++	-3.71682	#####	#####
84015	Ttn	mRNA	GO:004280	molecular funct	structura	-3.54739	0	0
troponin T binding								
171409	Tnnt1	mRNA	GO:000552	molecular funct	binding++	-2.24523	3.72E-13	8.29E-12
24838	Tnnt3	mRNA	GO:000552	molecular funct	binding	-5.10245	0	0
29389	Tnni2	mRNA	GO:000377	molecular funct	binding++	-5.59009	0	0

Downregulated-CC								
Gene ID	Gene Symbol	Type	GO_C Term	GO_C Term Level1	GO_C Term Level2	log2 (CPIP_DE G_left / Sham_DEG left)	Pvalue (CPIP_DEG_left / Sham_DEG_left)	Qvalue (CPIP_DE G_left / Sham_DEG_left)
Z disc								
1.01E+08	LOC100909899	mRNA	GO:003001	cellular compo	supramole	-3.4962	8.84E-06	7.35E-05
1.08E+08	LOC108352087	mRNA	GO:003001	cellular compo	extracell	-2.87925	4.65E-43	3.80E-41
114108	Pdlim3	mRNA	GO:003001	cellular compo	supramole	-1.87387	7.45E-46	6.42E-44
114207	Ryr1	mRNA	GO:003301	cellular compo	protein-c	-3.56583	#####	#####
117505	Csrp3	mRNA	GO:003001	cellular compo	supramole	-2.7726	2.27E-15	6.20E-14
140939	Trim63	mRNA	GO:003143	cellular compo	supramole	-0.91883	1.11E-06	1.10E-05
171009	Actn3	mRNA	GO:000590	cellular compo	supramole	-4.49874	0	0
246172	Nexn	mRNA	GO:000592	cellular compo	supramole	-0.78367	9.97E-17	2.98E-15
24779	Slc4a1	mRNA	GO:001602	cellular compo	supramole	-0.70731	1.27E-28	6.85E-27
291245	Actn2	mRNA	GO:003086	cellular compo	synapse p	-3.22145	#####	#####
29155	Capn3	mRNA	GO:000582	cellular compo	protein-c	-1.1193	8.08E-10	1.26E-08
292879	Mybpc2	mRNA	GO:000586	cellular compo	supramole	-4.4193	0	0
295426	Myoz2	mRNA	GO:001562	cellular compo	supramole	-1.04915	7.79E-05	5.31E-04
296345	Jph2	mRNA	GO:003301	cellular compo	protein-c	-2.06903	3.73E-49	3.53E-47
297748	Jph1	mRNA	GO:001602	cellular compo	protein-c	-1.2197	1.94E-09	2.89E-08
304551	Myo18b	mRNA	GO:001646	cellular compo	supramole	-1.87311	7.51E-24	3.28E-22
304823	Igfn1	mRNA	GO:003001	cellular compo	supramole	-5.91219	4.24E-87	7.21E-85
305675	Synpo21	mRNA	GO:001660	cellular compo	supramole	-1.88534	4.75E-34	3.09E-32
306616	Myom2	mRNA	GO:000586	cellular compo	supramole	-0.97351	1.57E-80	2.43E-78
307982	Nrap	mRNA	GO:000591	cellular compo	supramole	-4.39226	#####	#####
309760	Mypn	mRNA	GO:003167	cellular compo	supramole	-2.19745	1.62E-24	7.28E-23
311029	Neb	mRNA	GO:004329	cellular compo	supramole	-0.76932	3.47E-81	5.47E-79
315962	Ky	mRNA	GO:003001	cellular compo	supramole	-1.28134	3.55E-16	1.01E-14
316740	Myom1	mRNA	GO:000586	cellular compo	supramole	-2.209	1.17E-49	1.12E-47
338458	Obscn	mRNA	GO:003258	cellular compo	supramole	-2.29149	1.56E-78	2.37E-76
362708	Trim54	mRNA	GO:003001	cellular compo	protein-c	-2.47843	5.81E-20	2.06E-18
362867	Mybpc1	mRNA	GO:000586	cellular compo	protein-c	-4.22105	#####	#####
364558	Palld	mRNA	GO:003001	cellular compo	supramole	-3.51056	1.45E-06	1.40E-05
498440	Myoz1	mRNA	GO:001562	cellular compo	supramole	-5.06562	#####	#####
498579	RGD1564899	mRNA	GO:003001	cellular compo	supramole	-1.62321	4.59E-24	2.02E-22
498587	Ldb3	mRNA	GO:003001	cellular compo	supramole	-0.68953	8.44E-53	8.64E-51
64362	Des	mRNA	GO:004238	cellular compo	supramole	-2.14572	#####	#####
686019	Casq1	mRNA	GO:003301	cellular compo	supramole	-3.13107	#####	#####
688173	Tcap	mRNA	GO:003001	cellular compo	supramole	-2.66973	4.08E-09	5.84E-08
689274	Myoz3	mRNA	GO:001562	cellular compo	supramole	-4.45674	6.07E-36	4.26E-34
84015	Ttn	mRNA	GO:003001	cellular compo	supramole	-3.54739	0	0
myofibril								
24583	Myh3	mRNA	GO:004329	cellular compo	supramole	-1.5939	5.98E-14	1.47E-12
24584	Mylpf	mRNA	GO:001562	cellular compo	supramole	-5.34165	0	0
252942	Myh8	mRNA	GO:000557	cellular compo	supramole	-0.64357	8.24E-06	6.87E-05
27064	Ankrd1	mRNA	GO:003167	cellular compo	supramole	-2.80466	7.51E-16	2.12E-14
286965	Abra	mRNA	GO:001562	cellular compo	supramole	-1.24923	3.34E-11	6.11E-10
29155	Capn3	mRNA	GO:000582	cellular compo	protein-c	-1.1193	8.08E-10	1.26E-08
295261	Tmod4	mRNA	GO:000586	cellular compo	supramole	-1.56136	2.69E-32	1.65E-30
296935	Lmod2	mRNA	GO:000586	cellular compo	supramole	-4.83525	1.58E-34	1.06E-32
307982	Nrap	mRNA	GO:000591	cellular compo	supramole	-4.39226	#####	#####
311029	Neb	mRNA	GO:004329	cellular compo	supramole	-0.76932	3.47E-81	5.47E-79
316330	Ankrd23	mRNA	GO:001470	cellular compo	supramole	-4.56578	#####	#####
360543	Myh4	mRNA	GO:000557	cellular compo	supramole	-5.22301	0	0

363925	My12	mRNA	GO:004329	cellular compo	supramole	-5.9515	7.13E-09	9.79E-08
500267	Lmod3	mRNA	GO:000586	cellular compo	supramole	-3.08477	3.25E-16	9.32E-15
56781	My11	mRNA	GO:000590	cellular compo	supramole	-6.01835	0	0
686019	Casq1	mRNA	GO:003301	cellular compo	supramole	-3.13107	#####	#####
84015	Ttn	mRNA	GO:003001	cellular compo	supramole	-3.54739	0	0
M band								
1.08E+08	LOC108352087	mRNA	GO:003001	cellular compo	extracell	-2.87925	4.65E-43	3.80E-41
117537	Klh141	mRNA	GO:003301	cellular compo	protein-c	-2.72349	8.99E-49	8.43E-47
140939	Trim63	mRNA	GO:003143	cellular compo	supramole	-0.91883	1.11E-06	1.10E-05
292879	Mybpc2	mRNA	GO:000586	cellular compo	supramole	-4.4193	0	0
296935	Lmod2	mRNA	GO:000586	cellular compo	supramole	-4.83525	1.58E-34	1.06E-32
306616	Myom2	mRNA	GO:000586	cellular compo	supramole	-0.97351	1.57E-80	2.43E-78
311167	Smtnl1	mRNA	GO:003143	cellular compo	protein-c	-1.94727	3.47E-10	5.65E-09
316740	Myom1	mRNA	GO:000586	cellular compo	supramole	-2.209	1.17E-49	1.12E-47
338458	Obscn	mRNA	GO:003258	cellular compo	supramole	-2.29149	1.56E-78	2.37E-76
362867	Mybpc1	mRNA	GO:000586	cellular compo	protein-c	-4.22105	#####	#####
500267	Lmod3	mRNA	GO:000586	cellular compo	supramole	-3.08477	3.25E-16	9.32E-15
688915	Cmya5	mRNA	GO:004847	cellular compo	supramole	-3.1322	#####	#####
84015	Ttn	mRNA	GO:003001	cellular compo	supramole	-3.54739	0	0
I band								
114207	Ryr1	mRNA	GO:003301	cellular compo	protein-c	-3.56583	#####	#####
116601	Atp2a1	mRNA	GO:004847	cellular compo	supramole	-5.23013	0	0
24585	My13	mRNA	GO:003167	cellular compo	supramole	-1.32563	4.10E-08	5.05E-07
27064	Ankrd1	mRNA	GO:003167	cellular compo	supramole	-2.80466	7.51E-16	2.12E-14
295531	Tnni3k	mRNA	GO:003167	cellular compo	supramole	-1.76098	5.30E-29	2.88E-27
309760	Mypn	mRNA	GO:003167	cellular compo	supramole	-2.19745	1.62E-24	7.28E-23
311167	Smtnl1	mRNA	GO:003143	cellular compo	protein-c	-1.94727	3.47E-10	5.65E-09
682930	Cacnals	mRNA	GO:004238	cellular compo	synapse p	-3.71682	#####	#####
686019	Casq1	mRNA	GO:003301	cellular compo	supramole	-3.13107	#####	#####
688173	Tcap	mRNA	GO:003001	cellular compo	supramole	-2.66973	4.08E-09	5.84E-08
84015	Ttn	mRNA	GO:003001	cellular compo	supramole	-3.54739	0	0
sarcomere								
1.08E+08	LOC108352087	mRNA	GO:003001	cellular compo	extracell	-2.87925	4.65E-43	3.80E-41
117505	Csrp3	mRNA	GO:003001	cellular compo	supramole	-2.7726	2.27E-15	6.20E-14
171009	Actn3	mRNA	GO:000590	cellular compo	supramole	-4.49874	0	0
286965	Abra	mRNA	GO:001562	cellular compo	supramole	-1.24923	3.34E-11	6.11E-10
291245	Actn2	mRNA	GO:003086	cellular compo	synapse p	-3.22145	#####	#####
292879	Mybpc2	mRNA	GO:000586	cellular compo	supramole	-4.4193	0	0
29437	Acta1	mRNA	GO:000557	cellular compo	supramole	-4.57484	0	0
296935	Lmod2	mRNA	GO:000586	cellular compo	supramole	-4.83525	1.58E-34	1.06E-32
304823	Igfn1	mRNA	GO:003001	cellular compo	supramole	-5.91219	4.24E-87	7.21E-85
306616	Myom2	mRNA	GO:000586	cellular compo	supramole	-0.97351	1.57E-80	2.43E-78
316740	Myom1	mRNA	GO:000586	cellular compo	supramole	-2.209	1.17E-49	1.12E-47
338458	Obscn	mRNA	GO:003258	cellular compo	supramole	-2.29149	1.56E-78	2.37E-76
362867	Mybpc1	mRNA	GO:000586	cellular compo	protein-c	-4.22105	#####	#####
84015	Ttn	mRNA	GO:003001	cellular compo	supramole	-3.54739	0	0
striated muscle thin filament								
292879	Mybpc2	mRNA	GO:000586	cellular compo	supramole	-4.4193	0	0
29437	Acta1	mRNA	GO:000557	cellular compo	supramole	-4.57484	0	0
295261	Tmod4	mRNA	GO:000586	cellular compo	supramole	-1.56136	2.69E-32	1.65E-30
296935	Lmod2	mRNA	GO:000586	cellular compo	supramole	-4.83525	1.58E-34	1.06E-32
306616	Myom2	mRNA	GO:000586	cellular compo	supramole	-0.97351	1.57E-80	2.43E-78
316740	Myom1	mRNA	GO:000586	cellular compo	supramole	-2.209	1.17E-49	1.12E-47
362867	Mybpc1	mRNA	GO:000586	cellular compo	protein-c	-4.22105	#####	#####
500267	Lmod3	mRNA	GO:000586	cellular compo	supramole	-3.08477	3.25E-16	9.32E-15
84015	Ttn	mRNA	GO:003001	cellular compo	supramole	-3.54739	0	0

sarcoplasmic reticulum								
114207	Ryr1	mRNA	G0:003301	cellular compo	protein-c	-3.56583	#####	#####
116601	Atp2a1	mRNA	G0:004847	cellular compo	supramole	-5.23013	0	0
117537	Klh141	mRNA	G0:003301	cellular compo	protein-c	-2.72349	8.99E-49	8.43E-47
24701	Pygm	mRNA	G0:001652	cellular compo	organelle	-2.80484	0	0
25139	Slc2a4	mRNA	G0:004238	cellular compo	synapse p	-0.711	2.45E-08	3.10E-07
29242	Car4	mRNA	G0:004238	cellular compo	extracell	-2.67108	1.50E-21	5.77E-20
296345	Jph2	mRNA	G0:003301	cellular compo	protein-c	-2.06903	3.73E-49	3.53E-47
297748	Jph1	mRNA	G0:001602	cellular compo	protein-c	-1.2197	1.94E-09	2.89E-08
59299	Trdn	mRNA	G0:003301	cellular compo	protein-c	-3.56732	#####	#####
686019	Casq1	mRNA	G0:003301	cellular compo	supramole	-3.13107	#####	#####
690423	Jsrp1	mRNA	G0:001652	cellular compo	organelle	-3.13116	2.29E-15	6.24E-14
contractile fiber								
140939	Trim63	mRNA	G0:003143	cellular compo	supramole	-0.91883	1.11E-06	1.10E-05
24583	Myh3	mRNA	G0:004329	cellular compo	supramole	-1.5939	5.98E-14	1.47E-12
24584	Mylpf	mRNA	G0:001562	cellular compo	supramole	-5.34165	0	0
311029	Neb	mRNA	G0:004329	cellular compo	supramole	-0.76932	3.47E-81	5.47E-79
311167	Smtnl1	mRNA	G0:003143	cellular compo	protein-c	-1.94727	3.47E-10	5.65E-09
363925	My12	mRNA	G0:004329	cellular compo	supramole	-5.9515	7.13E-09	9.79E-08
56781	My11	mRNA	G0:000590	cellular compo	supramole	-6.01835	0	0
64362	Des	mRNA	G0:004238	cellular compo	supramole	-2.14572	#####	#####
sarcolemma								
1.01E+08	LOC100909899	mRNA	G0:003001	cellular compo	supramole	-3.4962	8.84E-06	7.35E-05
1.08E+08	LOC108352087	mRNA	G0:003001	cellular compo	extracell	-2.87925	4.65E-43	3.80E-41
114207	Ryr1	mRNA	G0:003301	cellular compo	protein-c	-3.56583	#####	#####
25139	Slc2a4	mRNA	G0:004238	cellular compo	synapse p	-0.711	2.45E-08	3.10E-07
29242	Car4	mRNA	G0:004238	cellular compo	extracell	-2.67108	1.50E-21	5.77E-20
29658	Cacng1	mRNA	G0:004238	cellular compo	protein-c	-6.16723	1.31E-18	4.38E-17
303468	Sgca	mRNA	G0:004238	cellular compo	protein-c	-1.14316	2.80E-06	2.57E-05
305941	Sgcg	mRNA	G0:004238	cellular compo	protein-c	-2.23831	8.09E-08	9.57E-07
365377	Trim72	mRNA	G0:004238	cellular compo	organelle	-2.35876	1.56E-25	7.38E-24
59299	Trdn	mRNA	G0:003301	cellular compo	protein-c	-3.56732	#####	#####
64362	Des	mRNA	G0:004238	cellular compo	supramole	-2.14572	#####	#####
682930	Cacnals	mRNA	G0:004238	cellular compo	synapse p	-3.71682	#####	#####
686019	Casq1	mRNA	G0:003301	cellular compo	supramole	-3.13107	#####	#####
81639	Alox15	mRNA	G0:004238	cellular compo	organelle	-0.82121	3.84E-09	5.52E-08
myosin filament								
24583	Myh3	mRNA	G0:004329	cellular compo	supramole	-1.5939	5.98E-14	1.47E-12
252942	Myh8	mRNA	G0:000557	cellular compo	supramole	-0.64357	8.24E-06	6.87E-05
25365	Actg2	mRNA	G0:000557	cellular compo	protein-c	-1.77068	1.62E-24	7.28E-23
287408	Myh1	mRNA	G0:001470	cellular compo	supramole	-5.39489	0	0
360543	Myh4	mRNA	G0:000557	cellular compo	supramole	-5.22301	0	0
362867	Mybpc1	mRNA	G0:000586	cellular compo	protein-c	-4.22105	#####	#####
extracellular matrix								
1E+08	LOC100364062	mRNA	G0:000573	cellular compo	extracell	-2.16206	1.18E-07	1.37E-06
171052	Mmp13	mRNA	G0:000561	cellular compo	extracell	-0.67104	8.16E-18	2.63E-16
24477	Ibsp	mRNA	G0:000561	cellular compo	extracell	-1.74421	1.10E-56	1.21E-54
25043	Eln	mRNA	G0:007195	cellular compo	extracell	-0.82554	9.68E-58	1.12E-55
25312	Dmp1	mRNA	G0:000557	cellular compo	extracell	-2.70302	2.93E-22	1.18E-20
25412	Col2a1	mRNA	G0:006202	cellular compo	extracell	-1.66991	0	0
287382	Mfap4	mRNA	G0:000152	cellular compo	extracell	-1.15085	7.38E-71	1.02E-68
289178	Dpt	mRNA	G0:000561	cellular compo	extracell	-0.71033	9.76E-18	3.13E-16
291312	Ucma	mRNA	G0:000557	cellular compo	extracell	-0.93484	3.47E-05	2.56E-04
29195	Chad	mRNA	G0:001602	cellular compo	extracell	-1.47061	1.17E-22	4.79E-21
294279	Coll1a2	mRNA	G0:000557	cellular compo	extracell	-0.86028	1.45E-49	1.39E-47
29576	Wisp2	mRNA	G0:000561	cellular compo	extracell	-1.10859	1.18E-11	2.27E-10

304913	Tnn	mRNA	GO:004302	cellular compo	synapse p	-1.76284	5.52E-06	4.77E-05
305104	Col9a1	mRNA	GO:000557	cellular compo	extracell	-0.62938	4.14E-14	1.03E-12
313954	Matn3	mRNA	GO:000557	cellular compo	extracell	-3.66027	1.13E-16	3.35E-15
58968	Acan	mRNA	GO:009896	cellular compo	extracell	-3.36343	2.15E-87	3.68E-85
64032	Ctgf	mRNA	GO:000580	cellular compo	extracell	-0.68074	1.23E-29	6.89E-28
81687	Mmp9	mRNA	GO:000561	cellular compo	extracell	-1.31189	8.93E-30	5.01E-28

Suppl. Table 7 The DEGs of KEGG analysis								
Upregulated								
Gene ID	Gene Symbol	Type	kegg_pathway_term	KEGG Pathway Term Level1	KEGG Pathway Term Level2	log2 (CPIP_DEG_left / Sham_DEG_left)	Pvalue (CPIP_DEG_left / Sham_DEG_left)	Qvalue (CPIP_DEG_left / Sham_DEG_left)
Complement and coagulation cascades								
103689965	LOC103689965	mRNA	04610///Con	Organismal	Immune system	0.62699505	3.03E-33	1.92E-31
192262	C1s	mRNA	04610///Con	Organismal	Immune system	0.89991984	5.16E-243	2.29E-240
24231	C2	mRNA	04610///Con	Organismal	Immune system	0.78523717	2.50E-54	2.63E-52
24233	C4a	mRNA	04610///Con	Organismal	Immune system	0.67338159	2.11E-31	1.27E-29
24237	C6	mRNA	04610///Con	Organismal	Immune system	0.91627858	5.20E-12	1.04E-10
24617	Serpine1	mRNA	04218///Cel	Organismal	Cell growth and	0.90267636	2.12E-23	9.03E-22
25021	Itgam	mRNA	04640///Hen	Organismal	Transport and c	0.7435184	9.03E-12	1.77E-10
294257	Cfb	mRNA	04610///Con	Organismal	Immune system	0.7346057	4.76E-12	9.55E-11
295703	Serping1	mRNA	04610///Con	Organismal	Immune system	0.6078319	2.86E-177	9.25E-175
298566	C1qa	mRNA	04610///Con	Organismal	Immune system	0.63221656	2.22E-31	1.33E-29
499271	Itgax	mRNA	04810///Reg	Cellular Pr	Cell motility++	0.71492985	4.07E-06	3.61E-05
60327	F13a1	mRNA	04610///Con	Organismal	Immune system	0.80841161	1.48E-24	6.71E-23
84007	C3ar1	mRNA	04080///Neu	Organismal	Signaling molec	1.0358262	7.47E-15	1.95E-13
Phagosome								
100364500	LOC100364500	mRNA	04514///Cel	Organismal	Cell growth and	0.73546961	7.20E-21	2.68E-19
100909441	LOC100909441	mRNA	04145///Pha	Cellular Pr	Cell growth and	0.8096769	2.32E-105	4.70E-103
103690020	LOC103690020	mRNA	04640///Hen	Cellular Pr	Transport and c	0.94425771	1.53E-05	1.21E-04
103690108	LOC103690108	mRNA	04514///Cel	Organismal	Cell growth and	0.84804252	2.65E-144	7.43E-142
108348047	LOC108348047	mRNA	04650///Nat	Organismal	Transport and c	0.88036526	5.43E-21	2.05E-19
25021	Itgam	mRNA	04640///Hen	Organismal	Transport and c	0.7435184	9.03E-12	1.77E-10
29220	Thbs4	mRNA	04145///Pha	Cellular Pr	Transport and c	1.15146055	0	0
292406	Thbs2	mRNA	04145///Pha	Cellular Pr	Transport and c	0.70593479	1.34E-75	1.96E-73
295279	Fcgr1a	mRNA	04640///Hen	Organismal	Transport and c	0.74598654	6.35E-12	1.26E-10
304966	Fcgr3a	mRNA	04145///Pha	Organismal	Transport and c	0.81506633	3.12E-05	2.33E-04
361289	Colec12	mRNA	04145///Pha	Cellular Pr	Transport and c	0.63299882	3.54E-22	1.41E-20
445442	Thbs1	mRNA	04145///Pha	Cellular Pr	Cell growth and	0.64886049	5.44E-30	3.07E-28
498638	Msr1	mRNA	04145///Pha	Cellular Pr	Transport and c	0.71827216	1.77E-13	4.09E-12
66021	Cybb	mRNA	04217///Nec	Organismal	Cell growth and	0.71702112	3.62E-13	8.09E-12
684969	Potef	mRNA	04714///The	Organismal	Cell growth and	6.28587431	9.69E-11	1.68E-09
Osteoclast differentiation								
100360880	Fosb	mRNA	04657///IL-	Organismal	Immune system++	2.45322245	8.98E-100	1.73E-97
102547294	Iqcn	mRNA	04657///IL-	Organismal	Endocrine syste	1.03831724	1.17E-04	7.69E-04
108348047	LOC108348047	mRNA	04650///Nat	Organismal	Transport and c	0.88036526	5.43E-21	2.05E-19
292594	Lilrb4	mRNA	04380///Ost	Organismal	Development	0.97314905	1.21E-06	1.18E-05
295279	Fcgr1a	mRNA	04640///Hen	Organismal	Transport and c	0.74598654	6.35E-12	1.26E-10
301227	Trem2	mRNA	04380///Ost	Organismal	Development	0.7521009	2.24E-11	4.18E-10
304966	Fcgr3a	mRNA	04145///Pha	Organismal	Transport and c	0.81506633	3.12E-05	2.33E-04
308350	Lilrb3	mRNA	04380///Ost	Organismal	Development	0.78272765	1.24E-05	1.00E-04
685590	LOC685590	mRNA	04213///Lon	Cellular Pr	Nervous system+	0.86937379	1.14E-06	1.12E-05
690955	Lilrb3b	mRNA	04380///Ost	Organismal	Development	0.89523635	3.76E-10	6.09E-09
89829	Socs3	mRNA	04917///Pro	Genetic Inf	Endocrine syste	0.74776397	2.83E-23	1.20E-21
ECM-receptor interaction								
103690020	LOC103690020	mRNA	04640///Hen	Cellular Pr	Transport and c	0.94425771	1.53E-05	1.21E-04
25661	Fn1	mRNA	04510///Foc	Cellular Pr	Cellular commun	1.16325353	0	0
29220	Thbs4	mRNA	04145///Pha	Cellular Pr	Transport and c	1.15146055	0	0
292406	Thbs2	mRNA	04145///Pha	Cellular Pr	Transport and c	0.70593479	1.34E-75	1.96E-73
315979	Col6a6	mRNA	04974///Pro	Organismal	Digestive syste	0.64357261	2.37E-38	1.77E-36
361821	Col6a2	mRNA	04974///Pro	Organismal	Digestive syste	0.63343766	2.32E-181	7.60E-179
445442	Thbs1	mRNA	04145///Pha	Cellular Pr	Cell growth and	0.64886049	5.44E-30	3.07E-28
Protein digestion and absorption								

25253	Dpp4	mRNA	04974///Prc	Organismal	Digestive system	1.03695071	2.10E-45	1.78E-43
29132	Atp1a4	mRNA	04918///Thy	Organismal	Excretory system	0.8965798	1.63E-05	1.28E-04
301012	Col17a1	mRNA	04974///Prc	Organismal	Digestive system	1.27953353	4.83E-12	9.67E-11
315979	Col16a6	mRNA	04974///Prc	Organismal	Digestive system	0.64357261	2.37E-38	1.77E-36
361821	Col16a2	mRNA	04974///Prc	Organismal	Digestive system	0.63343766	2.32E-181	7.60E-179
54242	Cpa3	mRNA	04974///Prc	Organismal	Digestive system	1.89993375	5.77E-31	3.38E-29
94341	Kcnj13	mRNA	04974///Prc	Organismal	Digestive system	0.64599982	2.91E-07	3.16E-06
Focal adhesion								
24329	Egfr	mRNA	04012///Erb	Organismal	Cell growth and	0.59664343	4.74E-29	2.59E-27
25661	Fn1	mRNA	04510///Foc	Cellular Pr	Cellular commun	1.16325353	0	0
29220	Thbs4	mRNA	04145///Pha	Cellular Pr	Transport and c	1.15146055	0	0
292406	Thbs2	mRNA	04145///Pha	Cellular Pr	Transport and c	0.70593479	1.34E-75	1.96E-73
315979	Col16a6	mRNA	04974///Prc	Organismal	Digestive system	0.64357261	2.37E-38	1.77E-36
361821	Col16a2	mRNA	04974///Prc	Organismal	Digestive system	0.63343766	2.32E-181	7.60E-179
445442	Thbs1	mRNA	04145///Pha	Cellular Pr	Cell growth and	0.64886049	5.44E-30	3.07E-28
64033	Cend2	mRNA	04917///Prc	Organismal	Cell growth and	0.65078009	1.31E-12	2.77E-11
684969	Potef	mRNA	04714///The	Organismal	Cell growth and	6.28587431	9.69E-11	1.68E-09
685590	LOC685590	mRNA	04213///Lon	Cellular Pr	Nervous system+	0.86937379	1.14E-06	1.12E-05
Cell adhesion molecules (CAMs)								
100364500	LOC100364500	mRNA	04514///Cel	Organismal	Cell growth and	0.73546961	7.20E-21	2.68E-19
103690108	LOC103690108	mRNA	04514///Cel	Organismal	Cell growth and	0.84804252	2.65E-144	7.43E-142
114122	Vcan	mRNA	04514///Cel	Environment	Signaling molec	1.18678506	3.60E-98	6.72E-96
25021	Itgam	mRNA	04640///Hen	Organismal	Transport and c	0.7435184	9.03E-12	1.77E-10
25660	Cd28	mRNA	04660///T c	Organismal	Signaling molec	1.17574346	3.61E-06	3.24E-05
306454	C1dn22	mRNA	04514///Cel	Organismal	Cellular commun	0.74900559	1.21E-04	7.92E-04
311426	Siglec1	mRNA	04514///Cel	Environment	Signaling molec	0.62502781	2.97E-10	4.88E-09
65129	C1dn1	mRNA	04514///Cel	Organismal	Cellular commun	0.71661167	2.30E-94	4.06E-92
83497	Ocln	mRNA	04514///Cel	Organismal	Cellular commun	0.82802502	5.39E-13	1.19E-11
Leukocyte transendothelial migration								
25021	Itgam	mRNA	04640///Hen	Organismal	Transport and c	0.7435184	9.03E-12	1.77E-10
306454	C1dn22	mRNA	04514///Cel	Organismal	Cellular commun	0.74900559	1.21E-04	7.92E-04
65129	C1dn1	mRNA	04514///Cel	Organismal	Cellular commun	0.71661167	2.30E-94	4.06E-92
66021	Cybb	mRNA	04217///Nec	Organismal	Cell growth and	0.71702112	3.62E-13	8.09E-12
684969	Potef	mRNA	04714///The	Organismal	Cell growth and	6.28587431	9.69E-11	1.68E-09
685590	LOC685590	mRNA	04213///Lon	Cellular Pr	Nervous system+	0.86937379	1.14E-06	1.12E-05
83497	Ocln	mRNA	04514///Cel	Organismal	Cellular commun	0.82802502	5.39E-13	1.19E-11
TGF-beta signaling pathway								
103691556	LOC103691556	mRNA	04350///TGF	Cellular Pr	Cellular commun	7.6082511	6.94E-62	8.58E-60
29139	Dcn	mRNA	04350///TGF	Environment	Signal transduc	0.76299562	0	0
29200	Inhba	mRNA	04350///TGF	Cellular Pr	Cellular commun	0.6319736	3.29E-06	2.97E-05
445442	Thbs1	mRNA	04145///Pha	Cellular Pr	Cell growth and	0.64886049	5.44E-30	3.07E-28
85272	Bmp7	mRNA	04360///Axc	Organismal	Signaling molec	0.66895593	4.01E-11	7.23E-10
Cytokine-cytokine receptor interaction								
117029	Ccr5	mRNA	04144///End	Cellular Pr	Transport and c	0.7218052	2.76E-11	5.12E-10
24536	Lepr	mRNA	04080///Neu	Organismal	Signaling molec	0.70472137	1.78E-32	1.10E-30
287561	Cc17	mRNA	04657///IL-	Organismal	Signaling molec	1.01026655	9.09E-09	1.23E-07
29200	Inhba	mRNA	04350///TGF	Cellular Pr	Cellular commun	0.6319736	3.29E-06	2.97E-05
306748	Cxc114	mRNA	04060///Cyt	Organismal	Signaling molec	1.69757352	5.58E-67	7.33E-65
310738	Ngf	mRNA	04750///Inf	Organismal	Nervous system+	1.2208735	2.30E-07	2.54E-06
365395	C1cf1	mRNA	04060///Cyt	Environment	Signaling molec	0.94925407	4.79E-05	3.43E-04
498335	Cxc113	mRNA	04060///Cyt	Organismal	Signaling molec	1.38176533	1.03E-33	6.57E-32
85272	Bmp7	mRNA	04360///Axc	Organismal	Signaling molec	0.66895593	4.01E-11	7.23E-10
Downregulated								

Gene ID	Gene Symbol	Type	kegg_pathway_term	KEGG Pathway Term Level1	KEGG Pathway Term Level2	log2 (CPIP_DEG_left / Sham_DEG_left)	Pvalue (CPIP_DEG_left / Sham_DEG_left)	Qvalue (CPIP_DEG_left / Sham_DEG_left)
Cardiac muscle contraction								
140727	Cacng6	mRNA	04921///Oxy	Organismal	Endocrine system	-1.8358001	4.06E-05	2.95E-04
24585	My13	mRNA	04261///Adr	Organismal	Circulatory system	-1.3256325	4.10E-08	5.05E-07
25250	Cox8b	mRNA	04714///The	Organismal	Global and overview	-3.4937325	1.01E-16	3.01E-15
25278	Cox6a2	mRNA	04714///The	Organismal	Global and overview	-4.6381224	1.15E-108	2.38E-106
29658	Cacng1	mRNA	04921///Oxy	Organismal	Endocrine system	-6.1672317	1.31E-18	4.38E-17
363925	My12	mRNA	04510///Foc	Cellular Process	Cellular communication	-5.951503	7.13E-09	9.79E-08
500450	Tpm2	mRNA	04261///Adr	Organismal	Circulatory system	-2.1929751	0	0
682930	Cacnals	mRNA	04723///Ret	Organismal	Nervous system+	-3.7168245	1.32E-106	2.71E-104
84396	Atp1b4	mRNA	04918///Thy	Organismal	Excretory system	-2.5822692	7.44E-05	5.09E-04
Apelin signaling pathway								
100911372	LOC100911372	mRNA	04714///The	Genetic Information	Endocrine system	-0.6999347	4.85E-18	1.58E-16
103689985	LOC103689985	mRNA	04020///Cal	Cellular Process	Digestive system	-3.9041973	1.72E-26	8.56E-25
114207	Ryr1	mRNA	04020///Cal	Organismal	Nervous system+	-3.5658304	1.01E-196	3.49E-194
117558	My1k2	mRNA	04020///Cal	Cellular Process	Digestive system	-3.8567944	1.04E-99	1.99E-97
24585	My13	mRNA	04261///Adr	Organismal	Circulatory system	-1.3256325	4.10E-08	5.05E-07
25629	Plin1	mRNA	04714///The	Organismal	Endocrine system	-1.7242882	8.31E-10	1.30E-08
301518	Prkag3	mRNA	04213///Lon	Cellular Process	Cellular communication	-2.2774146	5.64E-10	8.97E-09
307100	Calml3	mRNA	04922///Glu	Organismal	Nervous system+	-2.4378793	1.40E-06	1.35E-05
363925	My12	mRNA	04510///Foc	Cellular Process	Cellular communication	-5.951503	7.13E-09	9.79E-08
64032	Ctgf	mRNA	04390///Hip	Environment	Signal transduction	-0.6807429	1.23E-29	6.89E-28
81633	Acta2	mRNA	04926///Rel	Organismal	Endocrine system	-0.6527267	4.22E-49	3.98E-47
Glucagon signaling pathway								
100364062	LOC100364062	mRNA	04922///Glu	Organismal	Global and overview	-2.1620602	1.18E-07	1.37E-06
100912471	LOC100912471	mRNA	04922///Glu	Organismal	Global and overview	-2.5464332	2.61E-08	3.30E-07
24701	Pygm	mRNA	04217///Nec	Organismal	Global and overview	-2.80484	0	0
24959	Pgam2	mRNA	04922///Glu	Organismal	Global and overview	-1.7797152	1.98E-109	4.14E-107
29353	Phkg1	mRNA	04922///Glu	Organismal	Endocrine system	-1.8786622	2.69E-08	3.39E-07
301518	Prkag3	mRNA	04213///Lon	Cellular Process	Cellular communication	-2.2774146	5.64E-10	8.97E-09
307100	Calml3	mRNA	04922///Glu	Organismal	Nervous system+	-2.4378793	1.40E-06	1.35E-05
362282	Pck1	mRNA	04922///Glu	Organismal	Global and overview	-3.1486307	4.49E-28	2.38E-26
Focal adhesion								
103689985	LOC103689985	mRNA	04020///Cal	Cellular Process	Digestive system	-3.9041973	1.72E-26	8.56E-25
117558	My1k2	mRNA	04020///Cal	Cellular Process	Digestive system	-3.8567944	1.04E-99	1.99E-97
24477	Ibsp	mRNA	04510///Foc	Cellular Process	Cellular communication	-1.744214	1.10E-56	1.21E-54
24584	My1pf	mRNA	04510///Foc	Organismal	Cellular communication	-5.3416474	0	0
25304	Comp	mRNA	04145///Pha	Cellular Process	Transport and c	-0.674322	2.66E-22	1.07E-20
25412	Col2a1	mRNA	04974///Prc	Organismal	Digestive system	-1.669905	0	0
29195	Chad	mRNA	04510///Foc	Cellular Process	Cellular communication	-1.4706079	1.17E-22	4.79E-21
304913	Tnn	mRNA	04510///Foc	Cellular Process	Cellular communication	-1.7628414	5.52E-06	4.77E-05
305104	Col19a1	mRNA	04974///Prc	Organismal	Digestive system	-0.6293818	4.14E-14	1.03E-12
363925	My12	mRNA	04510///Foc	Cellular Process	Cellular communication	-5.951503	7.13E-09	9.79E-08
Adrenergic signaling in cardiomyocytes								
140727	Cacng6	mRNA	04921///Oxy	Organismal	Endocrine system	-1.8358001	4.06E-05	2.95E-04
24585	My13	mRNA	04261///Adr	Organismal	Circulatory system	-1.3256325	4.10E-08	5.05E-07
29658	Cacng1	mRNA	04921///Oxy	Organismal	Endocrine system	-6.1672317	1.31E-18	4.38E-17
307100	Calml3	mRNA	04922///Glu	Organismal	Nervous system+	-2.4378793	1.40E-06	1.35E-05
363925	My12	mRNA	04510///Foc	Cellular Process	Cellular communication	-5.951503	7.13E-09	9.79E-08
500450	Tpm2	mRNA	04261///Adr	Organismal	Circulatory system	-2.1929751	0	0
682930	Cacnals	mRNA	04723///Ret	Organismal	Nervous system+	-3.7168245	1.32E-106	2.71E-104
84396	Atp1b4	mRNA	04918///Thy	Organismal	Excretory system	-2.5822692	7.44E-05	5.09E-04
Insulin signaling pathway								
100911372	LOC100911372	mRNA	04714///The	Genetic Information	Endocrine system	-0.6999347	4.85E-18	1.58E-16
24701	Pygm	mRNA	04217///Nec	Organismal	Global and overview	-2.80484	0	0

Downregulated								
Gene ID	Gene Symbol	Type	kegg_pathway_term	KEGG Pathway Term Level1	KEGG Pathway Term Level2	log2 (CPIP_DEG_left / Sham_DEG_left)	Pvalue (CPIP_DEG_left / Sham_DEG_left)	Qvalue (CPIP_DEG_left / Sham_DEG_left)
Cardiac muscle contraction								
140727	Cacng6	mRNA	04921///Oxy	Organismal	Endocrine s	-1.8358001	4.06E-05	2.95E-04
24585	My13	mRNA	04261///Adr	Organismal	Circulatory	-1.3256325	4.10E-08	5.05E-07
25250	Cox8b	mRNA	04714///The	Organismal	Global and	-3.4937325	1.01E-16	3.01E-15
25278	Cox6a2	mRNA	04714///The	Organismal	Global and	-4.6381224	1.15E-108	2.38E-106
29658	Cacng1	mRNA	04921///Oxy	Organismal	Endocrine s	-6.1672317	1.31E-18	4.38E-17
363925	My12	mRNA	04510///Foc	Cellular Pr	Cellular co	-5.951503	7.13E-09	9.79E-08
500450	Tpm2	mRNA	04261///Adr	Organismal	Circulatory	-2.1929751	0	0
682930	Cacnals	mRNA	04723///Ret	Organismal	Nervous sys	-3.7168245	1.32E-106	2.71E-104
84396	Atp1b4	mRNA	04918///Thy	Organismal	Excretory s	-2.5822692	7.44E-05	5.09E-04
Apelin signaling pathway								
100911372	LOC100911372	mRNA	04714///The	Genetic Inf	Endocrine s	-0.6999347	4.85E-18	1.58E-16
103689985	LOC103689985	mRNA	04020///Cal	Cellular Pr	Digestive s	-3.9041973	1.72E-26	8.56E-25
114207	Ryr1	mRNA	04020///Cal	Organismal	Nervous sys	-3.5658304	1.01E-196	3.49E-194
117558	My1k2	mRNA	04020///Cal	Cellular Pr	Digestive s	-3.8567944	1.04E-99	1.99E-97
24585	My13	mRNA	04261///Adr	Organismal	Circulatory	-1.3256325	4.10E-08	5.05E-07
25629	Plin1	mRNA	04714///The	Organismal	Endocrine s	-1.7242882	8.31E-10	1.30E-08
301518	Prkag3	mRNA	04213///Lon	Cellular Pr	Cellular co	-2.2774146	5.64E-10	8.97E-09
307100	Calml3	mRNA	04922///Glu	Organismal	Nervous sys	-2.4378793	1.40E-06	1.35E-05
363925	My12	mRNA	04510///Foc	Cellular Pr	Cellular co	-5.951503	7.13E-09	9.79E-08
64032	Ctgf	mRNA	04390///Hip	Environment	Signal tran	-0.6807429	1.23E-29	6.89E-28
81633	Acta2	mRNA	04926///Rel	Organismal	Endocrine s	-0.6527267	4.22E-49	3.98E-47
Glucagon signaling pathway								
100364062	LOC100364062	mRNA	04922///Glu	Organismal	Global and	-2.1620602	1.18E-07	1.37E-06
100912471	LOC100912471	mRNA	04922///Glu	Organismal	Global and	-2.5464332	2.61E-08	3.30E-07
24701	Pygm	mRNA	04217///Nec	Organismal	Global and	-2.80484	0	0
24959	Pgam2	mRNA	04922///Glu	Organismal	Global and	-1.7797152	1.98E-109	4.14E-107
29353	Phkg1	mRNA	04922///Glu	Organismal	Endocrine s	-1.8786622	2.69E-08	3.39E-07
301518	Prkag3	mRNA	04213///Lon	Cellular Pr	Cellular co	-2.2774146	5.64E-10	8.97E-09
307100	Calml3	mRNA	04922///Glu	Organismal	Nervous sys	-2.4378793	1.40E-06	1.35E-05
362282	Pck1	mRNA	04922///Glu	Organismal	Global and	-3.1486307	4.49E-28	2.38E-26
Focal adhesion								
103689985	LOC103689985	mRNA	04020///Cal	Cellular Pr	Digestive s	-3.9041973	1.72E-26	8.56E-25
117558	My1k2	mRNA	04020///Cal	Cellular Pr	Digestive s	-3.8567944	1.04E-99	1.99E-97
24477	Ibsp	mRNA	04510///Foc	Cellular Pr	Cellular co	-1.744214	1.10E-56	1.21E-54
24584	My1pf	mRNA	04510///Foc	Organismal	Cellular co	-5.3416474	0	0
25304	Comp	mRNA	04145///Pha	Cellular Pr	Transport a	-0.674322	2.66E-22	1.07E-20
25412	Col2a1	mRNA	04974///Prc	Organismal	Digestive s	-1.669905	0	0
29195	Chad	mRNA	04510///Foc	Cellular Pr	Cellular co	-1.4706079	1.17E-22	4.79E-21
304913	Tnn	mRNA	04510///Foc	Cellular Pr	Cellular co	-1.7628414	5.52E-06	4.77E-05
305104	Col9a1	mRNA	04974///Prc	Organismal	Digestive s	-0.6293818	4.14E-14	1.03E-12
363925	My12	mRNA	04510///Foc	Cellular Pr	Cellular co	-5.951503	7.13E-09	9.79E-08
Adrenergic signaling in cardiomyocytes								
140727	Cacng6	mRNA	04921///Oxy	Organismal	Endocrine s	-1.8358001	4.06E-05	2.95E-04
24585	My13	mRNA	04261///Adr	Organismal	Circulatory	-1.3256325	4.10E-08	5.05E-07
29658	Cacng1	mRNA	04921///Oxy	Organismal	Endocrine s	-6.1672317	1.31E-18	4.38E-17
307100	Calml3	mRNA	04922///Glu	Organismal	Nervous sys	-2.4378793	1.40E-06	1.35E-05
363925	My12	mRNA	04510///Foc	Cellular Pr	Cellular co	-5.951503	7.13E-09	9.79E-08
500450	Tpm2	mRNA	04261///Adr	Organismal	Circulatory	-2.1929751	0	0
682930	Cacnals	mRNA	04723///Ret	Organismal	Nervous sys	-3.7168245	1.32E-106	2.71E-104
84396	Atp1b4	mRNA	04918///Thy	Organismal	Excretory s	-2.5822692	7.44E-05	5.09E-04
Insulin signaling pathway								
100911372	LOC100911372	mRNA	04714///The	Genetic Inf	Endocrine s	-0.6999347	4.85E-18	1.58E-16

24701	Pygm	mRNA	04217///Nec	Organismal	Global and	-2.80484	0	0
25139	Slc2a4	mRNA	04920///Adi	Organismal	Endocrine s	-0.7110025	2.45E-08	3.10E-07
29353	Phkg1	mRNA	04922///Glu	Organismal	Endocrine s	-1.8786622	2.69E-08	3.39E-07
301518	Prkag3	mRNA	04213///Lon	Cellular Pr	Cellular cc	-2.2774146	5.64E-10	8.97E-09
307100	Calml3	mRNA	04922///Glu	Organismal	Nervous sys	-2.4378793	1.40E-06	1.35E-05
362282	Pck1	mRNA	04922///Glu	Organismal	Global and	-3.1486307	4.49E-28	2.38E-26
500036	Ppp1r3a	mRNA	04910///Ins	Organismal	Endocrine s	-2.8427967	7.13E-20	2.51E-18
Calcium signaling pathway								
103689985	LOC103689985	mRNA	04020///Cal	Cellular Pr	Digestive s	-3.9041973	1.72E-26	8.56E-25
108352449	LOC108352449	mRNA	04621///NOE	Organismal	Signaling n	-3.2432005	1.55E-08	2.04E-07
114207	Ryr1	mRNA	04020///Cal	Organismal	Nervous sys	-3.5658304	1.01E-196	3.49E-194
116601	Atp2a1	mRNA	04020///Cal	Organismal	Digestive s	-5.2301319	0	0
117558	Mylk2	mRNA	04020///Cal	Cellular Pr	Digestive s	-3.8567944	1.04E-99	1.99E-97
29353	Phkg1	mRNA	04922///Glu	Organismal	Endocrine s	-1.8786622	2.69E-08	3.39E-07
296369	Tnnc2	mRNA	04020///Cal	Environment	Signal tran	-5.9117705	0	0
307100	Calml3	mRNA	04922///Glu	Organismal	Nervous sys	-2.4378793	1.40E-06	1.35E-05
682930	Cacnals	mRNA	04723///Ret	Organismal	Nervous sys	-3.7168245	1.32E-106	2.71E-104
Vascular smooth muscle contraction								
103689985	LOC103689985	mRNA	04020///Cal	Cellular Pr	Digestive s	-3.9041973	1.72E-26	8.56E-25
117558	Mylk2	mRNA	04020///Cal	Cellular Pr	Digestive s	-3.8567944	1.04E-99	1.99E-97
25365	Actg2	mRNA	04270///Vas	Organismal	Circulatory	-1.7706842	1.62E-24	7.28E-23
29747	Kcnmb1	mRNA	04911///Ins	Organismal	Endocrine s	-0.7355697	2.81E-05	2.12E-04
307100	Calml3	mRNA	04922///Glu	Organismal	Nervous sys	-2.4378793	1.40E-06	1.35E-05
682930	Cacnals	mRNA	04723///Ret	Organismal	Nervous sys	-3.7168245	1.32E-106	2.71E-104
81633	Acta2	mRNA	04926///Rel	Organismal	Endocrine s	-0.6527267	4.22E-49	3.98E-47
ECM-receptor interaction								
24477	Ibsp	mRNA	04510///Foc	Cellular Pr	Cellular cc	-1.744214	1.10E-56	1.21E-54
25304	Comp	mRNA	04145///Pha	Cellular Pr	Transport a	-0.674322	2.66E-22	1.07E-20
25412	Col2a1	mRNA	04974///Pro	Organismal	Digestive s	-1.669905	0	0
29195	Chad	mRNA	04510///Foc	Cellular Pr	Cellular cc	-1.4706079	1.17E-22	4.79E-21
304913	Tnn	mRNA	04510///Foc	Cellular Pr	Cellular cc	-1.7628414	5.52E-06	4.77E-05
305104	Col9a1	mRNA	04974///Pro	Organismal	Digestive s	-0.6293818	4.14E-14	1.03E-12
Oxytocin signaling pathway								
103689985	LOC103689985	mRNA	04020///Cal	Cellular Pr	Digestive s	-3.9041973	1.72E-26	8.56E-25
114207	Ryr1	mRNA	04020///Cal	Organismal	Nervous sys	-3.5658304	1.01E-196	3.49E-194
117558	Mylk2	mRNA	04020///Cal	Cellular Pr	Digestive s	-3.8567944	1.04E-99	1.99E-97
140727	Cacng6	mRNA	04921///Oxy	Organismal	Endocrine s	-1.8358001	4.06E-05	2.95E-04
29658	Cacng1	mRNA	04921///Oxy	Organismal	Endocrine s	-6.1672317	1.31E-18	4.38E-17
301518	Prkag3	mRNA	04213///Lon	Cellular Pr	Cellular cc	-2.2774146	5.64E-10	8.97E-09
307100	Calml3	mRNA	04922///Glu	Organismal	Nervous sys	-2.4378793	1.40E-06	1.35E-05
682930	Cacnals	mRNA	04723///Ret	Organismal	Nervous sys	-3.7168245	1.32E-106	2.71E-104

Suppl. Table 8 The gene list of overlapping of DEG&PG SN VL

DEGs&PG			
Gene name	log2 (CPIP_DEG_left / Sham_DEG_left)	Pvalue (CPIP_DEG_left / Sham_DEG_left)	Qvalue (CPIP_DEG_left / Sham_DEG_left)
Gad1	0.710804	7.55E-05	5.16E-04
Egfr	0.596643	4.74E-29	2.59E-27
Thbs4	1.151461	0	0
Crh	-0.68003	1.64E-19	5.71E-18
Aqp4	0.841721	7.55E-10	1.19E-08
Gdnf	2.225086	8.63E-05	5.81E-04
Lepr	0.704721	1.78E-32	1.10E-30
Pla2g4a	0.748419	1.48E-06	1.43E-05
Cybb	0.717021	3.62E-13	8.09E-12
Stoml3	2.625791	4.85E-07	5.06E-06
Ngf	1.220873	2.30E-07	2.54E-06
Mmp9	-1.31189	8.93E-30	5.01E-28
Col11a2	-0.86028	1.45E-49	1.39E-47
Fosb	2.453222	#####	1.73E-97
Mpo	-0.82273	1.68E-14	4.30E-13
Col9a1	-0.62938	4.14E-14	1.03E-12
Itgam	0.743518	9.03E-12	1.77E-10
Egr1	0.673238	3.35E-39	2.54E-37
Dpp4	1.036951	2.10E-45	1.78E-43
DEGs&SN			
Gene name	log2 (CPIP_DEG_left / Sham_DEG_left)	Pvalue (CPIP_DEG_left / Sham_DEG_left)	Qvalue (CPIP_DEG_left / Sham_DEG_left)
Hal	-0.73997	3.39E-05	2.51E-04
Eno3	-2.72623	0	0
Kcnmb1	-0.73557	2.81E-05	2.12E-04
Faim	-0.58817	1.19E-13	2.81E-12
DEGs&VL			
Gene name	log2 (CPIP_DEG_left / Sham_DEG_left)	Pvalue (CPIP_DEG_left / Sham_DEG_left)	Qvalue (CPIP_DEG_left / Sham_DEG_left)
Fosb	2.453222	#####	1.73E-97
Smyd1	-2.07754	1.38E-34	9.28E-33
Hal	-0.73997	3.39E-05	2.51E-04
Socs3	0.747764	2.83E-23	1.20E-21
Kcnmb1	-0.73557	2.81E-05	2.12E-04
Egr1	0.673238	3.35E-39	2.54E-37

Gpx3	-0.69302	1.13E-32	7.04E-31