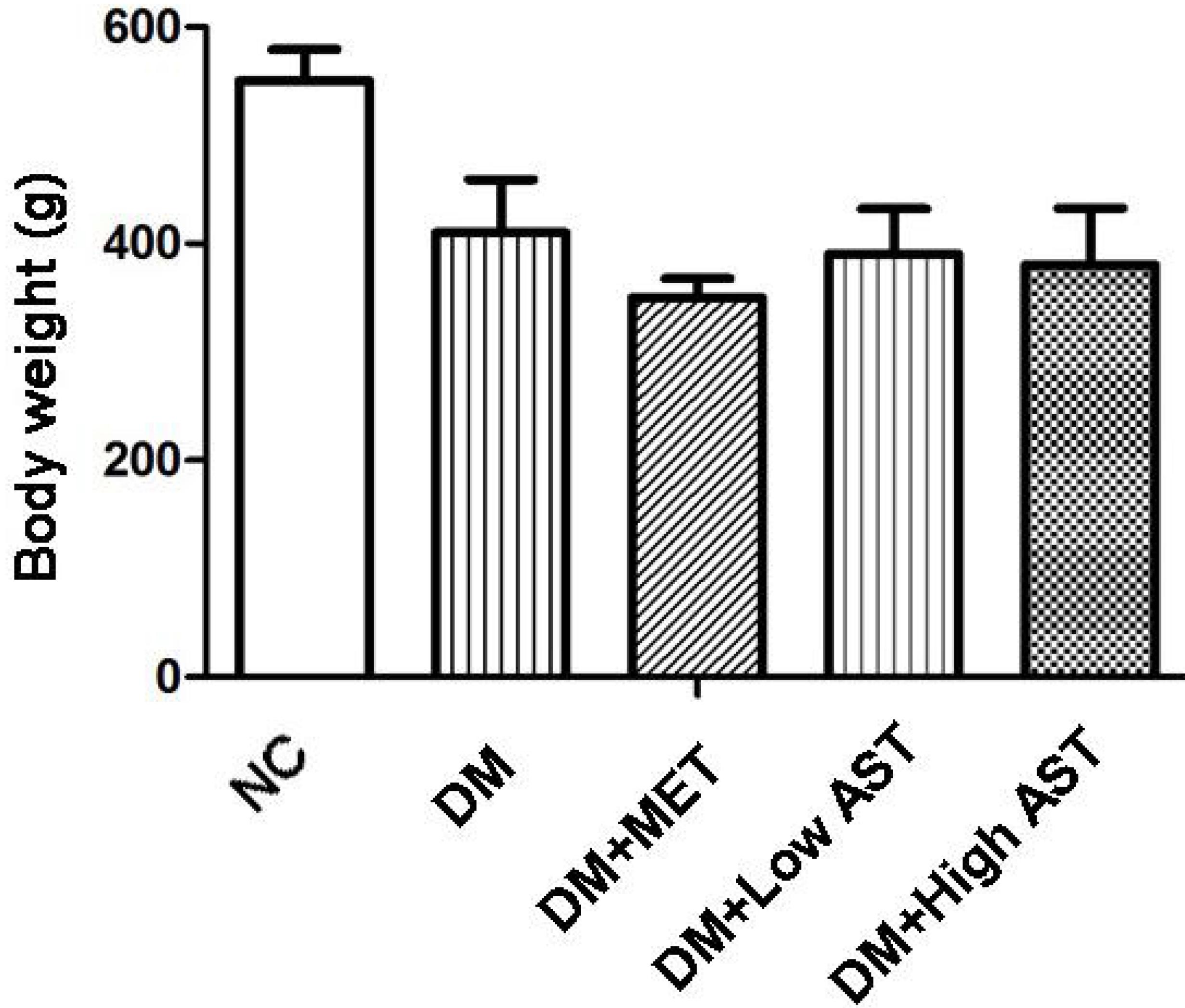
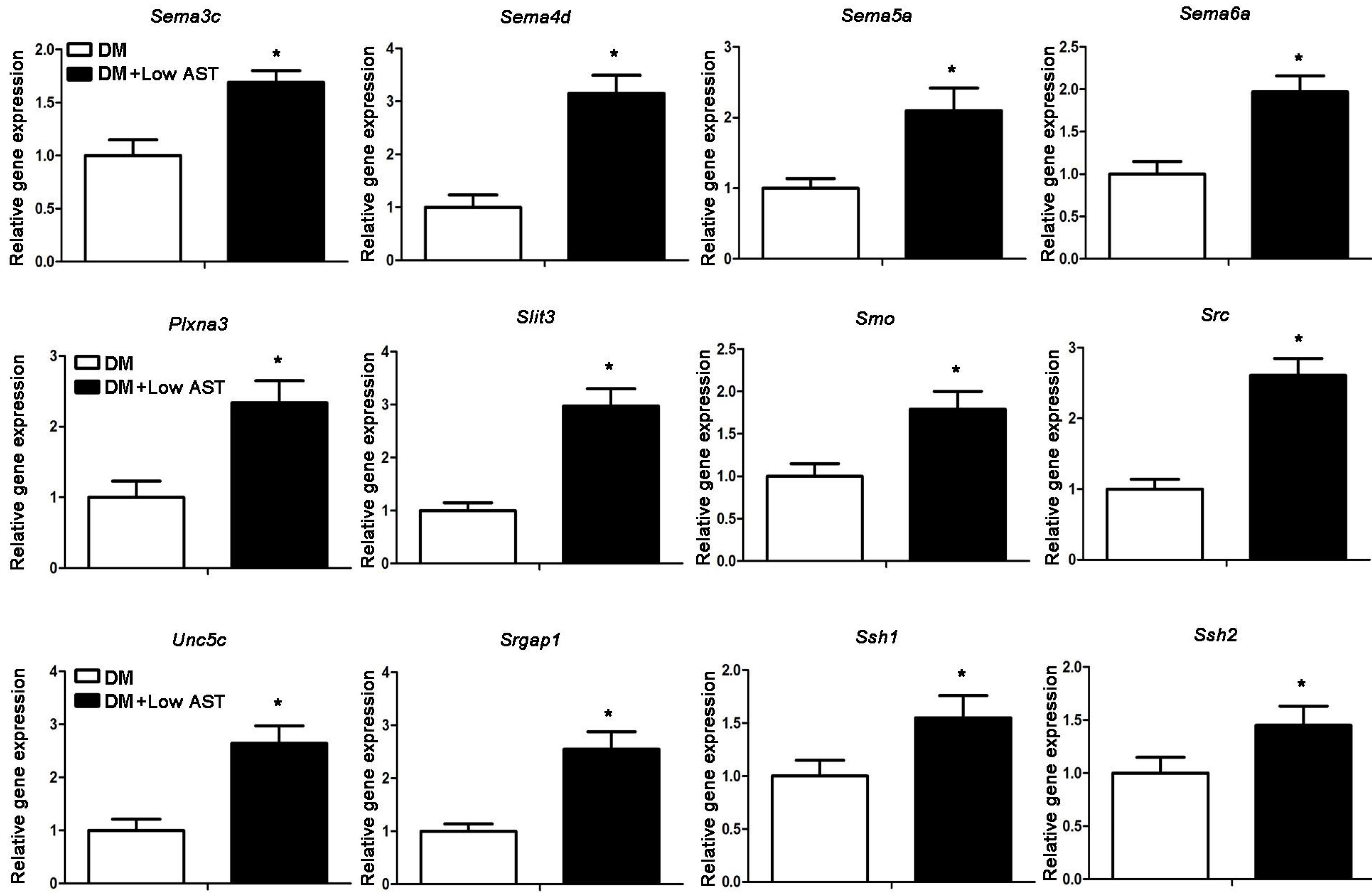


# Sun et al., Supplemental Figure 1



Supplemental Figure 1. AST has no function in changing body weight of the DM and negative control rats. The statistically significant difference was determined using SPSS with a two-tailed Student's unpaired *t*-test (\*,  $p < 0.05$ ).



Supplemental Figure 2. Real-time qPCR analysis of twelve genes which were induced in RNA-Seq analysis. The RNAs were extracted from the same liver tissues with the RNA-Seq samples from DM model rats and low-dose AST treated DM rats, respectively. The twelve genes were: *Unc5c*, *Srgap1*, *Sema5a*, *Src*, *Plxna3*, *Sema4d*, *Slit3*, *Sema3c*, *Smo*, *Ssh1*, *Sema6a* and *Ssh2*. The *tubulin* gene was used as the internal control. The statistically significant difference was determined using SPSS with a two-tailed Student's unpaired *t*-test (\*,  $p < 0.05$ ).

**Supplemental Table S1 Summary of mapped RNA reads**

Sample	Raw Reads	Clean Reads	Raw Base(G)	Clean Base(G)	N(%)	Q20(%)	Q30(%)
NC-1	46,284,212	45,465,600	6,988,916,012	6,846,867,764	0.002945	94.71	87.98
NC-2	44,259,992	43,990,622	6,683,258,792	6,629,273,284	0.014972	96.96	92.56
NC-3	38,949,664	38,727,912	5,881,399,264	5,836,586,748	0.004339	96.63	91.86
DM-1	45,746,296	44,891,286	6,907,690,696	6,759,554,434	0.002945	94.52	87.65
DM-2	40,559,936	40,371,158	6,124,550,336	6,084,473,234	0.004084	96.91	92.42
DM-3	43,493,782	43,145,520	6,567,561,082	6,502,558,700	0.015621	96.66	91.98
DM_AST-1	41,848,924	40,712,386	6,319,187,524	6,129,044,320	0.001868	93.59	85.9
DM_AST-2	33,813,920	33,578,944	5,105,901,920	5,058,883,142	0.016881	96.91	92.49
DM_AST-3	42,651,062	42,336,898	6,440,310,362	6,379,372,462	0.015136	96.78	92.25
DM_MET-1	42,913,094	41,961,114	6,479,877,194	6,318,035,510	0.002597	94.21	87.01
DM_MET-2	45,451,802	45,109,460	6,863,222,102	6,798,058,266	0.016792	96.78	92.25
DM_MET-3	43,540,368	43,225,026	6,574,595,568	6,511,775,604	0.017012	96.87	92.45

NC: negative control

**Supplemental Table S2. All the transcripts that are differentially expressed in DM rats compared to negative control rats**

ID	Name	Description	log2FC
ENSRNOG00000032871	Mlc1	megalencephalic leukoencephalopathy with subcortical gliosis	7.29
ENSRNOG00000009797	Aqp3	aquaporin 3 [Source:RGD Symbol;Acc:68428]	7.15
ENSRNOG00000032472	Adgrg2	adhesion G protein-coupled receptor G2 [Source:RGD Symbol;Acc:1587344]	6.12
ENSRNOG00000033680	LOC10834826	cytochrome P450 2B1 [Source:RGD Symbol;Acc:1308838]	5.77
ENSRNOG00000010799	Noct	nocturnin [Source:RGD Symbol;Acc:1587344]	5.49
ENSRNOG00000017244	Rnf186	ring finger protein 186 [Source:RGD Symbol;Acc:1587344]	5.37
ENSRNOG00000019500	Cyp1a1	cytochrome P450, family 1, subfamily a, polypeptide 1	5.36
ENSRNOG00000011907	Krt23	keratin 23 [Source:RGD Symbol;Acc:1308838]	5.34
ENSRNOG000000050647	Hspa1b	heat shock protein family A (Hsp70) member 1	5.30
ENSRNOG00000016957	Igfbp2	insulin-like growth factor binding protein 2 [Source:RGD Symbol;Acc:1587344]	5.22
ENSRNOG00000012862	Spsb4	sPLA/ryanodine receptor domain and SOCS box containing 4	5.18
ENSRNOG00000002159	Gpat3	glycerol-3-phosphate acyltransferase 3 [Source:RGD Symbol;Acc:1587344]	5.15
ENSRNOG00000042717	Ciart	circadian associated repressor of transcription [Source:RGD Symbol;Acc:1587344]	4.96
ENSRNOG00000059093	-	-	4.69
ENSRNOG00000043098	Mt2A	metallothionein 2A [Source:RGD Symbol;Acc:1587344]	4.67
ENSRNOG00000026848	Tex36	testis expressed 36 [Source:RGD Symbol;Acc:1587344]	4.36
ENSRNOG00000018413	Per3	period circadian clock 3 [Source:RGD Symbol;Acc:1587344]	4.31
ENSRNOG00000015149	Nrg4	neuregulin 4 [Source:RGD Symbol;Acc:158988]	4.28
ENSRNOG00000045646	LOC10254911	histone H3.2-like [Source:RGD Symbol;Acc:77344]	4.11
ENSRNOG00000021526	Slc25a34	solute carrier family 25, member 34 [Source:RGD Symbol;Acc:1587344]	4.07
ENSRNOG00000021027	Dbp	D-box binding PAR bZIP transcription factor [Source:RGD Symbol;Acc:1587344]	3.97
ENSRNOG00000013313	Nceh1	neutral cholesterol ester hydrolase 1 [Source:RGD Symbol;Acc:1587344]	3.87
ENSRNOG00000013953	Ntrk1	neurotrophic receptor tyrosine kinase 1 [Source:RGD Symbol;Acc:1587344]	3.75
ENSRNOG00000005479	Slc1a2	solute carrier family 1 member 2 [Source:RGD Symbol;Acc:1587344]	3.75
ENSRNOG00000028622	Pnpla1	patatin-like phospholipase domain containing 1	3.74
ENSRNOG00000001476	Cldn4	claudin 4 [Source:RGD Symbol;Acc:1307932]	3.73
ENSRNOG00000015768	Nat8f5	N-acetyltransferase 8 (GCN5-related) family member 5	3.69
ENSRNOG00000008575	Aoc1	amine oxidase, copper containing 1 [Source:RGD Symbol;Acc:1587344]	3.68
ENSRNOG00000057264	RGD1305928	hypothetical LOC300207 [Source:RGD Symbol;Acc:1587344]	3.66
ENSRNOG00000020244	Perm1	PPARGC1 and ESRR induced regulator, muscle	3.60
ENSRNOG00000049515	Obp1f	odorant binding protein 1 f [Source:RGD Symbol;Acc:1587344]	3.57
ENSRNOG00000006663	Usp2	ubiquitin specific peptidase 2 [Source:RGD Symbol;Acc:1587344]	3.55
ENSRNOG00000024837	Tpte2	transmembrane phosphoinositide 3-phosphatase 2	3.55
ENSRNOG00000038047	Mt1	metallothionein 1 [Source:RGD Symbol;Acc:33344]	3.52
ENSRNOG00000054420	Vdr	vitamin D (1,25- dihydroxyvitamin D3) receptor	3.51
ENSRNOG00000002072	Eva1c	eva-1 homolog C [Source:RGD Symbol;Acc:1308838]	3.51
ENSRNOG00000002812	Lhx1	LIM homeobox 1 [Source:RGD Symbol;Acc:77344]	3.47
ENSRNOG00000017212	Spsb1	sPLA/ryanodine receptor domain and SOCS box containing 1	3.43
ENSRNOG00000057072	Slc12a3	solute carrier family 12 member 3 [Source:RGD Symbol;Acc:1587344]	3.43
ENSRNOG00000005053	Egln3	egl-9 family hypoxia-inducible factor 3 [Source:RGD Symbol;Acc:1587344]	3.33
ENSRNOG00000011452	Aldoc	aldolase, fructose-bisphosphate C [Source:RGD Symbol;Acc:1587344]	3.32
ENSRNOG00000048264	LOC684828	similar to Histone H1.2 (H1 VAR.1) (H1c) [Source:RGD Symbol;Acc:1587344]	3.32
ENSRNOG00000015763	Nat8f3	N-acetyltransferase 8 (GCN5-related) family member 3	3.26

ENSRNOG00000015075	Stc1	stanniocalcin 1 [Source:RGD Symbol;Acc:621]	3.20
ENSRNOG00000009570	Pdxp	pyridoxal phosphatase [Source:RGDSymbol;Acc:622]	3.18
ENSRNOG00000004084	Fam84a	family with sequence similarity 84, member A [Source:RGD Symbol;Acc:623]	3.18
ENSRNOG00000031211	Acsm5	acyl-CoA synthetase medium-chain family member 5 [Source:RGD Symbol;Acc:624]	3.17
ENSRNOG00000021750	Id1	inhibitor of DNA binding 1, HLH protein [Source:RGD Symbol;Acc:625]	3.15
ENSRNOG00000046636	Hist2h4a	histone cluster 2, H4 [Source:RGD Symbol;Acc:626]	3.14
ENSRNOG00000011250	Inmt	indolethylamine N-methyltransferase [Source:RGD Symbol;Acc:627]	3.09
ENSRNOG00000009872	Kcnh2	potassium voltage-gated channel subfamily H member 2 [Source:RGD Symbol;Acc:628]	3.08
ENSRNOG0000000961	Glt1d1	glycosyltransferase 1 domain containing 1 [Source:RGD Symbol;Acc:629]	3.04
ENSRNOG00000042478	Adam22	ADAM metallopeptidase domain 22 [Source:RGD Symbol;Acc:630]	2.98
ENSRNOG00000009564	Prr15	proline rich 15 [Source:RGD Symbol;Acc:1311]	2.98
ENSRNOG00000001442	Por	cytochrome p450 oxidoreductase [Source:RGD Symbol;Acc:632]	2.96
ENSRNOG00000005341	Upp2	uridine phosphorylase 2 [Source:RGD Symbol;Acc:633]	2.96
ENSRNOG00000054959	Mmp11	matrix metallopeptidase 11 [Source:RGD Symbol;Acc:634]	2.96
ENSRNOG00000008282	Elf5	E74-like factor 5 [Source:RGD Symbol;Acc:13111]	2.95
ENSRNOG00000002930	Ppl	periplakin [Source:RGD Symbol;Acc:1305511]	2.94
ENSRNOG00000016219	Vnn1	vanin 1 [Source:RGD Symbol;Acc:1310075]"	2.94
ENSRNOG00000017484	Gja5	gap junction protein, alpha 5 [Source:RGD Symbol;Acc:636]	2.91
ENSRNOG00000001414	Serpine1	serpin family E member 1 [Source:RGD Symbol;Acc:637]	2.85
ENSRNOG00000032417	Gabrp	gamma-aminobutyric acid type A receptor pi subunit [Source:RGD Symbol;Acc:638]	2.83
ENSRNOG00000046426	Ankrd66	ankyrin repeat domain 66 [Source:RGD Symbol;Acc:639]	2.83
ENSRNOG00000047005	Kcnk5	potassium two pore domain channel subfamily K member 5 [Source:RGD Symbol;Acc:640]	2.81
ENSRNOG00000003260	Nr1i3	nuclear receptor subfamily 1, group I, member 3 [Source:RGD Symbol;Acc:641]	2.79
ENSRNOG00000047459	Hist1h1d	histone cluster 1, H1d [Source:RGD Symbol;Acc:642]	2.78
ENSRNOG00000057740	Ccdc148	coiled-coil domain containing 148 [Source:RGD Symbol;Acc:643]	2.74
ENSRNOG00000013954	Alpl	alkaline phosphatase, liver/bone/kidney [Source:RGD Symbol;Acc:644]	2.71
ENSRNOG00000054978	Hist1h1c	histone cluster 1 H1 family member c [Source:RGD Symbol;Acc:645]	2.68
ENSRNOG00000003745	Atf3	activating transcription factor 3 [Source:RGD Symbol;Acc:646]	2.67
ENSRNOG00000018484	Plk3	polo-like kinase 3 [Source:RGD Symbol;Acc:647]	2.67
ENSRNOG00000021669	Mybl1	myeloblastosis oncogene-like 1 [Source:RGD Symbol;Acc:648]	2.65
ENSRNOG00000015160	Gem	GTP binding protein overexpressed in skeletal muscle [Source:RGD Symbol;Acc:649]	2.64
ENSRNOG00000030800	Igdcc3	immunoglobulin superfamily, DCC subclass, member 3 [Source:RGD Symbol;Acc:650]	2.64
ENSRNOG00000029980	Zbtb16	zinc finger and BTB domain containing 16 [Source:RGD Symbol;Acc:651]	2.63
ENSRNOG00000016750	Cyp26a1	cytochrome P450, family 26, subfamily a, polypeptide 1 [Source:RGD Symbol;Acc:652]	2.62
ENSRNOG00000039390	Slc37a2	solute carrier family 37 member 2 [Source:RGD Symbol;Acc:653]	2.61
ENSRNOG00000020254	Per2	period circadian clock 2 [Source:RGD Symbol;Acc:654]	2.61
ENSRNOG00000019365	Ablim3	actin binding LIM protein family, member 3 [Source:RGD Symbol;Acc:655]	2.60
ENSRNOG0000006204	Slc30a3	solute carrier family 30 member 3 [Source:RGD Symbol;Acc:656]	2.57
ENSRNOG0000001198	Fam222a	family with sequence similarity 222, member A [Source:RGD Symbol;Acc:657]	2.57
ENSRNOG00000016692	Hsdl2	hydroxysteroid dehydrogenase like 2 [Source:RGD Symbol;Acc:658]	2.53
ENSRNOG00000043304	Apcdd1	APC down-regulated 1 [Source:RGD Symbol;Acc:659]	2.53
ENSRNOG0000003209	Pcp411	Purkinje cell protein 4-like 1 [Source:RGD Symbol;Acc:660]	2.50
ENSRNOG00000042496	Cyp4f5	cytochrome P450, family 4, subfamily f, polypeptide 5 [Source:RGD Symbol;Acc:661]	2.49
ENSRNOG00000054296	Hist1h2bo	histone cluster 1 H2B family member o [Source:RGD Symbol;Acc:662]	2.47
ENSRNOG00000058697	LOC1036903	odorant-binding protein [Source:RGD Symbol;Acc:663]	2.44
ENSRNOG00000017619	Aldh1a1	aldehyde dehydrogenase 1 family, member A1 [Source:RGD Symbol;Acc:664]	2.42
ENSRNOG0000001443	Rhbdd2	rhomboid domain containing 2 [Source:RGD Symbol;Acc:665]	2.40
ENSRNOG00000016853	Dsg1	desmoglein 1 [Source:RGD Symbol;Acc:13099]	2.40

ENSRNOG00000007387	Per1	period circadian clock 1 [Source:RGDSymbol;]	2.38
ENSRNOG00000023546	Hspb1	heat shock protein family B (small) member 1[Source:RGDSymbol;Acc:130971]	2.38
ENSRNOG00000008901	Coro2a	coronin 2A [Source:RGD Symbol;Acc:130971]	2.36
ENSRNOG00000002934	Atp1b1	ATPase Na+/K+ transporting subunit beta 1[Source:RGDSymbol;Acc:130971]	2.36
ENSRNOG00000014008	Mfsd2a	major facilitator superfamily domain containing 2a [Source:RGDSymbol;Acc:130971]	2.36
ENSRNOG00000009734	Akr1b10	aldo-keto reductase family 1 member B10 [Source:RGDSymbol;Acc:130971]	2.35
ENSRNOG00000010017	Wee1	WEE1 G2 checkpoint kinase [Source:RGDSymbol;Acc:130971]	2.35
ENSRNOG00000002607	Sox9	SRY box 9 [Source:RGD Symbol;Acc:620474]	2.32
ENSRNOG00000012874	Rgma	repulsive guidance molecule family member A [Source:RGDSymbol;Acc:130971]	2.32
ENSRNOG00000048187	LOC691153	hypothetical protein LOC691153 [Source:RGDSymbol;Acc:130971]	2.28
ENSRNOG00000016962	Neu2	neuraminidase 2 [Source:RGD Symbol;Acc:31]	2.28
ENSRNOG00000001195	Trpv4	transient receptor potential cation channel,subfamily V, member 4 [Source:RGDSymbol;Acc:130971]	2.22
ENSRNOG00000022921	Dact2	dishevelled-binding antagonist of beta-catenin [Source:RGDSymbol;Acc:130971]	2.22
ENSRNOG00000008046	Tmem30b	transmembrane protein 30B [Source:RGDSymbol;Acc:130971]	2.21
ENSRNOG00000042140	Eomes	eomesodermin [Source:RGD Symbol;Acc:1359]	2.20
ENSRNOG00000004411	Tspan8	tetraspanin 8 [Source:RGD Symbol;Acc:62178]	2.16
ENSRNOG00000011530	Fam188b	family with sequence similarity 188, member B [Source:RGDSymbol;Acc:130971]	2.16
ENSRNOG00000023679	Prdm5	PR/SET domain 5 [Source:RGD Symbol;Acc:130971]	2.15
ENSRNOG00000027784	Tsku	tsukushi, small leucine rich proteoglycan [Source:RGDSymbol;Acc:130971]	2.13
ENSRNOG00000040242	Epm2a	epilepsy, progressive myoclonus type 2A [Source:RGDSymbol;Acc:130971]	2.11
ENSRNOG00000007254	Ttc9	tetratricopeptide repeat domain 9 [Source:RGDSymbol;Acc:130971]	2.11
ENSRNOG00000042352	Dnase1l2	deoxyribonuclease 1 like 2 [Source:RGDSymbol;Acc:130971]	2.09
ENSRNOG00000028404	Ppp1r1b	protein phosphatase 1, regulatory (inhibitor)subunit 1b [Source:RGDSymbol;Acc:130971]	2.07
ENSRNOG00000010753	Aig1	androgen-induced 1 [Source:RGD Symbol;Acc:130971]	2.07
ENSRNOG00000055795	AABR070358	-	2.06
ENSRNOG0000003884	Acmsd	aminocarboxymuconate semialdehyde decarboxylase [Source:RGDSymbol;Acc:130971]	2.05
ENSRNOG00000021763	Ffar4	free fatty acid receptor 4 [Source:RGDSymbol;Acc:130971]	2.05
ENSRNOG00000016541	Enc1	ectodermal-neural cortex 1 [Source:RGDSymbol;Acc:130971]	2.04
ENSRNOG00000017917	Cdhr2	cadherin-related family member 2 [Source:RGDSymbol;Acc:130971]	2.01
ENSRNOG00000026940	Rgsl2h	regulator of G-protein signaling like 2 homolog [Source:RGDSymbol;Acc:130971]	1.99
ENSRNOG00000013982	Hsd17b2	hydroxysteroid (17-beta) dehydrogenase 2 [Source:RGDSymbol;Acc:130971]	1.98
ENSRNOG00000007229	Nr0b2	nuclear receptor subfamily 0, group B, member 2 [Source:RGDSymbol;Acc:130971]	1.94
ENSRNOG00000007610	Gdf11	growth differentiation factor 11 [Source:RGDSymbol;Acc:130971]	1.92
ENSRNOG00000057470	Pla2g12a	phospholipase A2, group XIIA [Source:RGDSymbol;Acc:130971]	1.91
ENSRNOG00000036571	Ces2c	carboxylesterase 2C [Source:RGD Symbol;Acc:130971]	1.90
ENSRNOG00000012458	Cyp2e1	cytochrome P450, family 2, subfamily e, polypeptide 1 [Source:RGDSymbol;Acc:130971]	1.90
ENSRNOG00000011923	Mgarp	mitochondria-localized glutamic acid-rich protein [Source:RGDSymbol;Acc:130971]	1.90
ENSRNOG00000004473	Ppargc1a	PPARG coactivator 1 alpha [Source:RGDSymbol;Acc:130971]	1.89
ENSRNOG00000003510	Fmo2	flavin containing monooxygenase 2 [Source:RGDSymbol;Acc:130971]	1.89
ENSRNOG00000004437	Map2k6	mitogen-activated protein kinase kinase 6[Source:RGDSymbol;Acc:130971]	1.89
ENSRNOG00000011800	F3	coagulation factor III, tissue factor [Source:RGDSymbol;Acc:130971]	1.88
ENSRNOG00000019383	Tef	TEF, PAR bZIP transcription factor [Source:RGDSymbol;Acc:130971]	1.87
ENSRNOG00000001129	Fbxo21	F-box protein 21 [Source:RGD Symbol;Acc:130971]	1.87
ENSRNOG00000005266	Amdhd1	amidohydrolase domain containing 1 [Source:RGDSymbol;Acc:130971]	1.86
ENSRNOG00000029740	Slc35g1	solute carrier family 35, member G1 [Source:RGDSymbol;Acc:130971]	1.85
ENSRNOG0000001388	Sds	serine dehydratase [Source:RGD Symbol;Acc:130971]	1.84
ENSRNOG00000014876	Lpin2	lipin 2 [Source:RGD Symbol;Acc:1304588]"	1.84
ENSRNOG00000045743	Etnppl	ethanolamine-phosphate phospho-lyase [Source:RGDSymbol;Acc:130971]	1.82

ENSRNOG00000014673	Eri2	ERI1 exoribonuclease family member 2 [Source:RGDSymbol;Acc:1594385]"	1.81
ENSRNOG00000015003	Pex11a	peroxisomal biogenesis factor 11 alpha [Source:RGDSymbol;Acc:1594385]"	1.81
ENSRNOG00000012886	Maff	MAF bZIP transcription factor F [Source:RGDSymbol;Acc:1594385]"	1.81
ENSRNOG00000003778	Opn3	opsin 3 [Source:RGDSymbol;Acc:1594385]"	1.81
ENSRNOG00000026807	LOC362863	first gene upstream of Nt5dc3 [Source:RGDSymbol;Acc:1594385]"	1.79
ENSRNOG00000001960	Sult1d1	sulfotransferase family 1D, member 1 [Source:RGDSymbol;Acc:1594385]"	1.78
ENSRNOG00000008432	LOC303140	up-regulator of carnitine transporter, OCTN2 [Source:RGDSymbol;Acc:1594385]"	1.78
ENSRNOG000000021102	Scn1b	sodium voltage-gated channel beta subunit 1 [Source:RGDSymbol;Acc:1594385]"	1.77
ENSRNOG00000001376	Mettl7a	methyltransferase like 7A [Source:RGDSymbol;Acc:1594385]"	1.76
ENSRNOG000000019159	Jakmip2	janus kinase and microtubule interacting protein 2 [Source:RGDSymbol;Acc:1594385]"	1.76
ENSRNOG000000048782	Wnt7a	wingless-type MMTV integration site family, member 7A [Source:RGDSymbol;Acc:1594385]"	1.76
ENSRNOG000000000585	Amd1	adenosylmethionine decarboxylase 1 [Source:RGDSymbol;Acc:1594385]"	1.75
ENSRNOG00000008283	B4galt5	beta-1,4-galactosyltransferase 5 [Source:RGDSymbol;Acc:1594385]"	1.75
ENSRNOG000000026455	Gpd11	glycerol-3-phosphate dehydrogenase 1-like [Source:RGDSymbol;Acc:1594385]"	1.75
ENSRNOG000000020136	Tgm1	transglutaminase 1 [Source:RGDSymbol;Acc:1594385]"	1.74
ENSRNOG000000022523	Fkbp5	FK506 binding protein 5 [Source:RGDSymbol;Acc:1594385]"	1.74
ENSRNOG000000020029	Mcrip2	MAPK regulated co-repressor interacting protein 2 [Source:RGDSymbol;Acc:1594385]"	1.74
ENSRNOG00000051970	Aqp5	aquaporin 5 [Source:RGDSymbol;Acc:2144]"	1.72
ENSRNOG00000046643	Cyp3a9	cytochrome P450, family 3, subfamily a, polypeptide 9 [Source:RGDSymbol;Acc:1594385]"	1.71
ENSRNOG00000042630	Asb5	ankyrin repeat and SOCS box-containing 5 [Source:RGDSymbol;Acc:1594385]"	1.70
ENSRNOG00000004766	Glis2	GLIS family zinc finger 2 [Source:RGDSymbol;Acc:1594385]"	1.69
ENSRNOG00000003866	Cxcr4	C-X-C motif chemokine receptor 4 [Source:RGDSymbol;Acc:1594385]"	1.69
ENSRNOG00000008190	Pnpla7	patatin-like phospholipase domain containing 7 [Source:RGDSymbol;Acc:1594385]"	1.68
ENSRNOG00000014714	Trpv6	transient receptor potential cation channel, subfamily V, member 6 [Source:RGDSymbol;Acc:1594385]"	1.67
ENSRNOG00000010589	LOC10368990	protein FAM134B [Source:RGDSymbol;Acc:1594385]"	1.67
ENSRNOG00000018464	Lipt1	lipoyltransferase 1 [Source:RGDSymbol;Acc:1594385]"	1.67
ENSRNOG0000003028	Dnah17	dynein, axonemal, heavy chain 17 [Source:RGDSymbol;Acc:1594385]"	1.66
ENSRNOG0000009754	Nampt	nicotinamide phosphoribosyltransferase [Source:RGDSymbol;Acc:1594385]"	1.66
ENSRNOG00000020308	Ech1	enoyl-CoA hydratase 1 [Source:RGDSymbol;Acc:1594385]"	1.65
ENSRNOG0000002946	Socs3	suppressor of cytokine signaling 3 [Source:RGDSymbol;Acc:1594385]"	1.64
ENSRNOG00000016628	Scgn	secretagogin, EF-hand calcium binding protein [Source:RGDSymbol;Acc:1594385]"	1.64
ENSRNOG00000023778	Gcnt2	glucosaminyl (N-acetyl) transferase 2, I-branch [Source:RGDSymbol;Acc:1594385]"	1.64
ENSRNOG00000019316	Sh3bp4	SH3-domain binding protein 4 [Source:RGDSymbol;Acc:1594385]"	1.64
ENSRNOG00000002345	Rasgef1b	RasGEF domain family, member 1B [Source:RGDSymbol;Acc:1594385]"	1.63
ENSRNOG00000018859	Pik3ip1	phosphoinositide-3-kinase interacting protein 1 [Source:RGDSymbol;Acc:1594385]"	1.63
ENSRNOG00000019704	Resp18	regulated endocrine-specific protein 18 [Source:RGDSymbol;Acc:1594385]"	1.63
ENSRNOG00000049385	Adamtsl4	ADAMTS-like 4 [Source:RGDSymbol;Acc:1594385]"	1.63
ENSRNOG00000046912	Nr1d2	nuclear receptor subfamily 1, group D, member 2 [Source:RGDSymbol;Acc:1594385]"	1.62
ENSRNOG00000020614	Phlda2	pleckstrin homology-like domain, family A, member 2 [Source:RGDSymbol;Acc:1594385]"	1.62
ENSRNOG00000053025	AC130391.3	- [Source:RGDSymbol;Acc:1594385]"	1.62
ENSRNOG00000056596	Alas1	5'-aminolevulinate synthase 1 [Source:RGDSymbol;Acc:1594385]"	1.62
ENSRNOG00000014490	Bdh2	3-hydroxybutyrate dehydrogenase 2 [Source:RGDSymbol;Acc:1594385]"	1.61
ENSRNOG0000001329	Gjc3	gap junction protein, gamma 3 [Source:RGDSymbol;Acc:1594385]"	1.60
ENSRNOG00000011559	Cnn3	calponin 3 [Source:RGDSymbol;Acc:71044]"	1.60
ENSRNOG00000014456	Coq10b	coenzyme Q10B [Source:RGDSymbol;Acc:1394385]"	1.60
ENSRNOG0000003807	Wnt9b	wingless-type MMTV integration site family, member 9B [Source:RGDSymbol;Acc:1594385]"	1.59
ENSRNOG00000046864	Acot4	acyl-CoA thioesterase 4 [Source:RGDSymbol;Acc:1594385]"	1.59
ENSRNOG00000054181	LOC10036154	Cytochrome P450, family 2, subfamily c, polypeptide 14 [Source:RGDSymbol;Acc:1594385]"	1.58

ENSRNOG00000024707	Tp73	tumor protein p73 [Source:RGD Symbol;Acc:1]	1.55
ENSRNOG00000054086	Sp5	Sp5 transcription factor [Source:RGDSymbol;Acc:1]	1.55
ENSRNOG00000031700	Map3k5	mitogen-activated protein kinase kinase kinase	1.54
ENSRNOG00000031004	Cyp2j4	cytochrome P450, family 2, subfamily j, polypeptide 4	1.54
ENSRNOG00000000567	Unc5b	unc-5 netrin receptor B [Source:RGDSymbol;Acc:1]	1.51
ENSRNOG00000059840	Unc5a	unc-5 netrin receptor A [Source:RGDSymbol;Acc:1]	1.50
ENSRNOG00000001242	Gstt3	glutathione S-transferase, theta 3 [Source:RGD Symbol;Acc:1]	1.48
ENSRNOG00000015191	Phc1	polyhomeotic homolog 1 [Source:RGDSymbol;Acc:1]	1.48
ENSRNOG00000005175	Sgpp1	sphingosine-1-phosphate phosphatase 1 [Source:RGD Symbol;Acc:1]	1.47
ENSRNOG00000032246	Acsm3	acyl-CoA synthetase medium-chain family member 3	1.47
ENSRNOG00000017511	Dcdc2	doublecortin domain containing 2 [Source:RGD Symbol;Acc:1]	1.46
ENSRNOG00000014205	Klf2	Kruppel-like factor 2 [Source:RGDSymbol;Acc:1]	1.45
ENSRNOG00000031003	LOC102553800	zinc finger protein 764-like [Source:RGDSymbol;Acc:1]	1.45
ENSRNOG00000056135	Tsc22d3	TSC22 domain family, member 3 [Source:RGD Symbol;Acc:1]	1.44
ENSRNOG00000008996	Dpysl5	dihydropyrimidinase-like 5 [Source:RGDSymbol;Acc:1]	1.42
ENSRNOG0000000437	Agpat1	1-acylglycerol-3-phosphate O-acyltransferase 1	1.42
ENSRNOG00000007508	Lrtm2	leucine-rich repeats and transmembrane domain containing 2	1.42
ENSRNOG00000060899	AABR070408	-	1.42
ENSRNOG00000016356	Got1	glutamic-oxaloacetic transaminase 1 [Source:RGD Symbol;Acc:1]	1.42
ENSRNOG00000060775	Lmo7	LIM domain 7 [Source:RGD Symbol;Acc:1302]	1.41
ENSRNOG00000011593	Hey1	hes-related family bHLH transcription factor wavy 1	1.41
ENSRNOG00000015822	Klf13	Kruppel-like factor 13 [Source:RGDSymbol;Acc:1]	1.41
ENSRNOG00000047977	LOC100910163	uncharacterized LOC100910163 [Source:RGD Symbol;Acc:1]	1.41
ENSRNOG00000009001	Mtss1	MTSS1, I-BAR domain containing 1 [Source:RGD Symbol;Acc:1]	1.41
ENSRNOG00000016575	Tnfrsf1b	TNF receptor superfamily member 1B [Source:RGD Symbol;Acc:1]	1.41
ENSRNOG00000033389	Susd2	sushi domain containing 2 [Source:RGDSymbol;Acc:1]	1.40
ENSRNOG00000028426	Mcf2l	MCF-2 cell line derived transforming sequence	1.39
ENSRNOG00000020546	Lipe	lipase E, hormone sensitive type [Source:RGD Symbol;Acc:1]	1.39
ENSRNOG00000027622	Slc35e3	solute carrier family 35, member E3 [Source:RGD Symbol;Acc:1]	1.39
ENSRNOG00000012387	Glyatl2	glycine-N-acyltransferase-like 2 [Source:RGD Symbol;Acc:1]	1.38
ENSRNOG00000017808	Klf15	Kruppel-like factor 15 [Source:RGDSymbol;Acc:1]	1.38
ENSRNOG00000034089	Ttc21a	tetratricopeptide repeat domain 21A [Source:RGD Symbol;Acc:1]	1.38
ENSRNOG0000006052	Sulf2	sulfatase 2 [Source:RGD Symbol;Acc:1305078]	1.38
ENSRNOG00000019202	PVR	poliovirus receptor [Source:RGD Symbol;Acc:1]	1.37
ENSRNOG00000003300	Btg2	BTG anti-proliferation factor 2 [Source:RGD Symbol;Acc:1]	1.37
ENSRNOG00000003634	Zfp354a	zinc finger protein 354A [Source:RGDSymbol;Acc:1]	1.36
ENSRNOG00000015385	Pink1	PTEN induced putative kinase 1 [Source:RGD Symbol;Acc:1]	1.36
ENSRNOG00000033915	Gpt	glutamic--pyruvic transaminase [Source:RGD Symbol;Acc:1]	1.35
ENSRNOG00000019822	Gadd45b	growth arrest and DNA-damage-inducible, beta	1.35
ENSRNOG00000045840	Hist1h4m	histone cluster 1, H4m [Source:RGDSymbol;Acc:1]	1.35
ENSRNOG00000007118	Eva1a	eva-1 homolog A, regulator of programmed cell death	1.34
ENSRNOG00000025948	RGD1311892	similar to hypothetical protein FLJ10901 [Source:RGD Symbol;Acc:1]	1.34
ENSRNOG00000000034	Nuak2	NUAK family kinase 2 [Source:RGDSymbol;Acc:1]	1.33
ENSRNOG00000022615	Tp53i13	tumor protein p53 inducible protein 13 [Source:RGD Symbol;Acc:1]	1.32
ENSRNOG0000002828	Tob1	transducer of ErbB-2.1 [Source:RGDSymbol;Acc:1]	1.32
ENSRNOG0000006744	Acyp1	acylphosphatase 1 [Source:RGD Symbol;Acc:1]	1.31
ENSRNOG00000007637	Acer2	alkaline ceramidase 2 [Source:RGDSymbol;Acc:1]	1.31
ENSRNOG00000053452	Actg1	actin, gamma 1 [Source:RGD Symbol;Acc:1302]	1.31

ENSRNOG00000038184	Camk2n2	calcium/calmodulin-dependent protein kinase I	1.30
ENSRNOG00000036701	LOC10036141	actin, gamma 1 propeptide-like [Source:RGDSymbol]	1.30
ENSRNOG00000012443	Cpt2	carnitine palmitoyltransferase 2 [Source:RGDSymbol]	1.30
ENSRNOG00000028616	Pck1	phosphoenolpyruvate carboxykinase 1 [Source:RGDSymbol]	1.29
ENSRNOG00000011612	Tdo2	tryptophan 2,3-dioxygenase [Source:RGDSymbol]	1.29
ENSRNOG00000059322	N4bp211	NEDD4 binding protein 2-like 1 [Source:RGDSymbol]	1.28
ENSRNOG00000018867	Klhdc7a	kelch domain containing 7A [Source:RGDSymbol]	1.28
ENSRNOG00000012665	Nmrk1	nicotinamide riboside kinase 1 [Source:RGDSymbol]	1.28
ENSRNOG00000031950	Izumo4	IZUMO family member 4 [Source:RGDSymbol]	1.27
ENSRNOG00000025930	Chst13	carbohydrate sulfotransferase 13 [Source:RGDSymbol]	1.27
ENSRNOG00000016875	Cbx7	chromobox 7 [Source:RGD Symbol;Acc:73502]	1.26
ENSRNOG0000001770	Ehhadh	enoyl-CoA hydratase and 3-hydroxyacyl CoA dehydratase	1.25
ENSRNOG00000018282	Gda	guanine deaminase [Source:RGD Symbol;Acc:73502]	1.25
ENSRNOG00000016037	Mafb	MAF bZIP transcription factor B [Source:RGDSymbol]	1.24
ENSRNOG00000050445	Gde1	glycerophosphodiester phosphodiesterase 1[Source:RGDSymbol]	1.24
ENSRNOG00000019412	Rhbg	Rh family B glycoprotein [Source:RGDSymbol]	1.24
ENSRNOG00000000281	Prodh1	proline dehydrogenase 1 [Source:RGDSymbol]	1.23
ENSRNOG00000016150	Ifrd2	interferon-related developmental regulator 2[Source:RGDSymbol]	1.23
ENSRNOG00000059268	Ppp1r10	protein phosphatase 1, regulatory subunit 10[Source:RGDSymbol]	1.23
ENSRNOG0000000903	Asl	argininosuccinate lyase [Source:RGDSymbol;Acc:73502]	1.23
ENSRNOG00000005615	Gadd45a	growth arrest and DNA-damage-inducible, alpha	1.23
ENSRNOG00000004049	Baiap2	BAI1-associated protein 2 [Source:RGDSymbol]	1.23
ENSRNOG00000061073	Zfp275	zinc finger protein 275 [Source:RGDSymbol;Acc:73502]	1.22
ENSRNOG00000009920	LOC680121	similar to heat shock protein 8 [Source:RGDSymbol]	1.22
ENSRNOG00000000177	Plpp2	phospholipid phosphatase 2 [Source:RGDSymbol]	1.22
ENSRNOG00000011875	Slc2a2	solute carrier family 2 member 2 [Source:RGDSymbol]	1.22
ENSRNOG00000060568	Ptpn21	protein tyrosine phosphatase, non-receptor type	1.22
ENSRNOG00000017328	Pter	phosphotriesterase related [Source:RGDSymbol]	1.21
ENSRNOG00000046168	Ppm11	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1	1.21
ENSRNOG00000007506	Ndufaf4	NADH:ubiquinone oxidoreductase complex assembly factor 4	1.20
ENSRNOG00000014613	Ddah1	dimethylarginine dimethylaminohydrolase 1[Source:RGDSymbol]	1.20
ENSRNOG00000045644	LOC684762	similar to CG31613-PA [Source:RGDSymbol;Acc:73502]	1.20
ENSRNOG00000014061	Dusp5	dual specificity phosphatase 5 [Source:RGDSymbol]	1.20
ENSRNOG00000022772	Prickle1	prickle planar cell polarity protein 1 [Source:RGDSymbol]	1.20
ENSRNOG00000034066	Hspa8	heat shock protein family A (Hsp70) member 8	1.20
ENSRNOG00000033076	Thns11	threonine synthase-like 1 [Source:RGDSymbol]	1.19
ENSRNOG00000019630	Hac11	2-hydroxyacyl-CoA lyase 1 [Source:RGDSymbol]	1.19
ENSRNOG00000019892	Lrrfip1	LRR binding FLII interacting protein 1 [Source:RGDSymbol]	1.18
ENSRNOG00000014387	Chac1	ChaC glutathione-specific gamma-glutamylcyclohydrolase	1.18
ENSRNOG00000018338	Vwa1	von Willebrand factor A domain containing 1[Source:RGDSymbol]	1.18
ENSRNOG00000018505	Cidea	cell death-inducing DFFA-like effector a [Source:RGDSymbol]	1.18
ENSRNOG00000049560	Glul	glutamate-ammonia ligase [Source:RGDSymbol]	1.18
ENSRNOG00000009597	Cyp4a1	cytochrome P450, family 4, subfamily a, polypeptide 1	1.18
ENSRNOG00000016560	Card19	caspase recruitment domain family, member 19	1.17
ENSRNOG00000017243	Bnip3	BCL2 interacting protein 3 [Source:RGDSymbol]	1.17
ENSRNOG00000026293	Jun	Jun proto-oncogene, AP-1 transcription factors	1.17
ENSRNOG00000014870	Slc13a5	solute carrier family 13 member 5 [Source:RGDSymbol]	1.17
ENSRNOG00000017188	Cyp27a1	cytochrome P450, family 27, subfamily a, polypeptide 1	1.17

ENSRNOG00000030387	Kng1	kininogen 1 [Source:RGD Symbol;Acc:135937]	1.17
ENSRNOG00000017105	Dpyd	dihydropyrimidine dehydrogenase [Source:RGD Symbol;Acc:1311]	1.17
ENSRNOG0000006019	G0s2	G0/G1switch 2 [Source:RGD Symbol;Acc:131]	1.16
ENSRNOG00000042374	Tgif2	TGFβ-induced factor homeobox 2 [Source:RGD Symbol;Acc:131]	1.16
ENSRNOG00000011283	Sdhaf3	succinate dehydrogenase complex assembly factor 3 [Source:RGD Symbol;Acc:131]	1.16
ENSRNOG00000061414	Acot12	acyl-CoA thioesterase 12 [Source:RGD Symbol;Acc:131]	1.16
ENSRNOG00000011351	Mat1a	methionine adenosyltransferase 1A [Source:RGD Symbol;Acc:131]	1.16
ENSRNOG00000013304	Arg1	arginase 1 [Source:RGD Symbol;Acc:2150]"	1.15
ENSRNOG00000017981	Mcm10	minichromosome maintenance 10 replication initiator [Source:RGD Symbol;Acc:131]	1.15
ENSRNOG00000008843	Eci1	enoyl-CoA delta isomerase 1 [Source:RGDSymbol;Acc:131]	1.14
ENSRNOG00000043416	Bcl3	B-cell CLL/lymphoma 3 [Source:RGDSymbol;Acc:131]	1.14
ENSRNOG00000005424	Odc1	ornithine decarboxylase 1 [Source:RGDSymbol;Acc:131]	1.14
ENSRNOG00000005472	Sp4	Sp4 transcription factor [Source:RGDSymbol;Acc:131]	1.14
ENSRNOG00000009157	Fut4	fucosyltransferase 4 [Source:RGD Symbol;Acc:131]	1.13
ENSRNOG00000010883	Pard6b	par-6 family cell polarity regulator beta [Source:RGD Symbol;Acc:131]	1.13
ENSRNOG00000019626	Slc27a5	solute carrier family 27 member 5 [Source:RGD Symbol;Acc:131]	1.12
ENSRNOG00000018044	Phyh	phytanoyl-CoA 2-hydroxylase [Source:RGDSymbol;Acc:131]	1.12
ENSRNOG00000037815	Acad10	acyl-CoA dehydrogenase family, member 10 [Source:RGD Symbol;Acc:131]	1.12
ENSRNOG00000046357	Adh4	alcohol dehydrogenase 4 (class II), pi polypeptide [Source:RGD Symbol;Acc:131]	1.12
ENSRNOG00000008837	Ass1	argininosuccinate synthase 1 [Source:RGDSymbol;Acc:131]	1.12
ENSRNOG00000042232	RGD1559600	RGD1559600 [Source:RGD Symbol;Acc:1559]	1.11
ENSRNOG00000007319	Trib3	tribbles pseudokinase 3 [Source:RGDSymbol;Acc:1559]	1.11
ENSRNOG00000020812	Gys1	glycogen synthase 1 [Source:RGD Symbol;Acc:1559]	1.11
ENSRNOG00000014532	Lbp	lipopolysaccharide binding protein [Source:RGD Symbol;Acc:1559]	1.11
ENSRNOG00000017777	Ahcy	adenosylhomocysteinase [Source:RGDSymbol;Acc:1559]	1.10
ENSRNOG00000042274	Fbxo31	F-box protein 31 [Source:RGD Symbol;Acc:1559]	1.10
ENSRNOG00000015177	Sun2	Sad1 and UNC84 domain containing 2 [Source:RGD Symbol;Acc:1559]	1.10
ENSRNOG0000000902	Hspf1	heat shock protein family H (Hsp110) member 1 [Source:RGD Symbol;Acc:1559]	1.09
ENSRNOG00000006304	Mdm2	MDM2 proto-oncogene [Source:RGD Symbol;Acc:1559]	1.09
ENSRNOG00000010037	Epb41	erythrocyte membrane protein band 4.1 [Source:RGD Symbol;Acc:1559]	1.09
ENSRNOG00000014350	Cyr61	cysteine-rich, angiogenic inducer, 61 [Source:RGD Symbol;Acc:1559]	1.08
ENSRNOG0000003653	Fh	fumarate hydratase [Source:RGD Symbol;Acc:1559]	1.08
ENSRNOG00000008755	Acox1	acyl-CoA oxidase 1 [Source:RGD Symbol;Acc:1559]	1.08
ENSRNOG00000058478	Mapk8ip1	mitogen-activated protein kinase 8 interacting protein 1 [Source:RGD Symbol;Acc:1559]	1.07
ENSRNOG00000015669	Kctd11	potassium channel tetramerization domain containing 11 [Source:RGD Symbol;Acc:1559]	1.07
ENSRNOG00000018076	Fmo5	flavin containing monooxygenase 5 [Source:RGD Symbol;Acc:1559]	1.07
ENSRNOG00000059714	LOC1036927	heat shock protein HSP 90-alpha [Source:RGD Symbol;Acc:1559]	1.06
ENSRNOG00000034093	AABR070119	-	1.06
ENSRNOG00000008572	Ppcs	phosphopantetheoylcysteine synthetase [Source:RGD Symbol;Acc:1559]	1.06
ENSRNOG00000049943	Fam60a	family with sequence similarity 60, member A [Source:RGD Symbol;Acc:1559]	1.06
ENSRNOG00000014254	Cpt1a	carnitine palmitoyltransferase 1A [Source:RGD Symbol;Acc:1559]	1.06
ENSRNOG00000013409	Gclm	glutamate cysteine ligase, modifier subunit [Source:RGD Symbol;Acc:1559]	1.05
ENSRNOG00000003674	Pir	pirin [Source:RGD Symbol;Acc:1359212]"	1.05
ENSRNOG00000016949	Slc25a33	solute carrier family 25 member 33 [Source:RGD Symbol;Acc:1559]	1.05
ENSRNOG00000024460	Tarsl2	threonyl-tRNA synthetase-like 2 [Source:RGD Symbol;Acc:1559]	1.04
ENSRNOG00000010580	Acot7	acyl-CoA thioesterase 7 [Source:RGDSymbol;Acc:1559]	1.04
ENSRNOG00000049768	Adcy9	adenylate cyclase 9 [Source:RGD Symbol;Acc:1559]	1.03
ENSRNOG00000022967	Slc35d1	solute carrier family 35 member D1 [Source:RGD Symbol;Acc:1559]	1.03

ENSRNOG00000049681	Mapre2	microtubule-associated protein, RP/EB family,	1.02
ENSRNOG00000032261	Cyp2d4	cytochrome P450, family 2, subfamily d, polyp	1.02
ENSRNOG00000057701	Myom1	myomesin 1 [Source:RGD Symbol;Acc:631436]	1.02
ENSRNOG00000016322	Camk2n1	calcium/calmodulin-dependent protein kinase I	1.02
ENSRNOG00000017401	Tmco4	transmembrane and coiled-coil domains 4 [Sou	1.02
ENSRNOG0000006341	Saysd1	SAYSVFN motif domain containing 1 [Source:	1.02
ENSRNOG00000010930	Usp39	ubiquitin specific peptidase 39 [Source:RGDSy	1.01
ENSRNOG00000018375	Eif2b3	eukaryotic translation initiation factor 2B, subu	1.01
ENSRNOG00000059753	Gys2	glycogen synthase 2 [Source:RGD Symbol;Acc:	1.01
ENSRNOG00000012183	Glxr	glutaredoxin [Source:RGD Symbol;Acc:70951]	1.00
ENSRNOG00000008487	Amotl2	angiotonin like 2 [Source:RGD Symbol;Acc:7	1.00
ENSRNOG00000031916	Timeless	timeless circadian clock [Source:RGDSymbol;A	1.00
ENSRNOG00000019977	Ptpf	protein tyrosine phosphatase, receptor type, F[S	-1.00
ENSRNOG00000002171	Phldb2	pleckstrin homology-like domain, family B, me	-1.01
ENSRNOG00000007894	Mpdz	multiple PDZ domain crumbs cell polarity com	-1.01
ENSRNOG00000010538	Commd7	COMM domain containing 7 [Source:RGDSyn	-1.01
ENSRNOG00000028993	LOC1025554	60S ribosomal protein L12-like [Source:RGDS	-1.01
ENSRNOG0000004968	Ncapg2	non-SMC condensin II complex, subunit G2 [S	-1.01
ENSRNOG00000007801	R3hdm2	R3H domain containing 2 [Source:RGDSymb	-1.01
ENSRNOG00000022871	LOC691170	similar to zinc finger protein 84 (HPF2) [Sourc	-1.01
ENSRNOG0000000936	Stx2	syntaxin 2 [Source:RGD Symbol;Acc:2558]"	-1.02
ENSRNOG00000016275	Ttr	transthyretin [Source:RGD Symbol;Acc:3916]"	-1.02
ENSRNOG00000028941	Zbed3	zinc finger, BED-type containing 3 [Source:RG	-1.03
ENSRNOG00000017220	Tcirg1	T-cell immune regulator 1, ATPase H <sup>+</sup> transpo	-1.03
ENSRNOG00000008510	Abtb2	ankyrin repeat and BTB domain containing 2[S	-1.03
ENSRNOG00000014096	Nr3c1	nuclear receptor subfamily 3, group C, member	-1.03
ENSRNOG00000047453	Casd1	CAS1 domain containing 1 [Source:MGISymb	-1.03
ENSRNOG00000010421	Wdr91	WD repeat domain 91 [Source:RGD Symbol;A	-1.03
ENSRNOG0000004787	AABR070531	-	-1.04
ENSRNOG00000013663	Tmem86a	transmembrane protein 86A [Source:RGDSym	-1.04
ENSRNOG00000048733	Nup62	nucleoporin 62 [Source:RGD Symbol;Acc:619	-1.04
ENSRNOG00000019741	Isyna1	inositol-3-phosphate synthase 1 [Source:RGDS	-1.04
ENSRNOG00000001930	Ccdc50	coiled-coil domain containing 50 [Source:RGD	-1.04
ENSRNOG00000011677	Slc39a10	solute carrier family 39 member 10 [Source:RG	-1.05
ENSRNOG00000019254	Dyrk1b	dual specificity tyrosine phosphorylation regula	-1.05
ENSRNOG00000019494	Psmb10	proteasome subunit beta 10 [Source:RGDSymb	-1.05
ENSRNOG00000017601	Srd5a1	steroid 5 alpha-reductase 1 [Source:RGDSymb	-1.05
ENSRNOG00000003029	Calr	calreticulin [Source:RGD Symbol;Acc:620288]	-1.06
ENSRNOG00000002126	Ncam2	neural cell adhesion molecule 2 [Source:RGDS	-1.06
ENSRNOG00000013009	Ldha	lactate dehydrogenase A [Source:RGDSymbol;	-1.06
ENSRNOG00000042139	Clec4a1	C-type lectin domain family 4, member A1 [So	-1.06
ENSRNOG00000028630	Ksr2	kinase suppressor of ras 2 [Source:RGDSymb	-1.07
ENSRNOG00000018059	Ihh	Indian hedgehog [Source:RGD Symbol;Acc:62	-1.07
ENSRNOG00000012722	Ppdpf	pancreatic progenitor cell differentiation andpr	-1.07
ENSRNOG00000018346	Agtr1a	angiotensin II receptor, type 1a [Source:RGDS	-1.07
ENSRNOG00000045799	Rup2	urinary protein 2 [Source:RGD Symbol;Acc:15	-1.07
ENSRNOG00000015906	Tgif1	TGFB-induced factor homeobox 1 [Source:RG	-1.07
ENSRNOG00000009347	Arhgap25	Rho GTPase activating protein 25 [Source:RG	-1.07

ENSRNOG00000042686	Trim34	tripartite motif-containing 34 [Source:RGDSymbol;Acc:1594]	-1.08
ENSRNOG00000060338	Lipc	lipase C, hepatic type [Source:RGD Symbol;Acc:1594]	-1.08
ENSRNOG00000012440	Msra	methionine sulfoxide reductase A [Source:RGD Symbol;Acc:1594]	-1.08
ENSRNOG00000018420	Slc22a7	solute carrier family 22 member 7 [Source:RGD Symbol;Acc:1594]	-1.10
ENSRNOG00000008016	Ckap4	cytoskeleton-associated protein 4 [Source:RGD Symbol;Acc:1594]	-1.10
ENSRNOG00000010957	Braf	B-Raf proto-oncogene, serine/threonine kinase [Source:RGD Symbol;Acc:1594]	-1.10
ENSRNOG00000027552	Tapbpl	TAP binding protein-like [Source:RGDSymbol;Acc:1594]	-1.10
ENSRNOG00000004667	Gen1	GEN1 Holliday junction 5' flap endonuclease [Source:RGD Symbol;Acc:1594]	-1.10
ENSRNOG00000047843	AABR070698	-	-1.10
ENSRNOG00000006921	Rbl1	RB transcriptional corepressor like 1 [Source:RGD Symbol;Acc:1594]	-1.10
ENSRNOG00000002478	Insig2	insulin induced gene 2 [Source:RGDSymbol;Acc:1594]	-1.11
ENSRNOG00000017589	Gnat1	G protein subunit alpha transducin 1 [Source:RGD Symbol;Acc:1594]	-1.11
ENSRNOG00000023280	Als2	ALS2, alsin Rho guanine nucleotide exchange factor [Source:RGD Symbol;Acc:1594]	-1.11
ENSRNOG00000003809	Sat1	spermidine/spermine N1-acetyl transferase 1 [Source:RGD Symbol;Acc:1594]	-1.11
ENSRNOG00000014257	Ces4a	carboxylesterase 4A [Source:RGD Symbol;Acc:1594]	-1.11
ENSRNOG00000009826	Bche	butyrylcholinesterase [Source:RGDSymbol;Acc:1594]	-1.11
ENSRNOG00000007092	Fgb	fibrinogen beta chain [Source:RGD Symbol;Acc:1594]	-1.12
ENSRNOG00000003959	Rgs18	regulator of G-protein signaling 18 [Source:RGD Symbol;Acc:1594]	-1.12
ENSRNOG00000022710	Prrg4	proline rich and Gla domain 4 [Source:RGDSymbol;Acc:1594]	-1.12
ENSRNOG00000010602	Birc2	baculoviral IAP repeat-containing 2 [Source:RGD Symbol;Acc:1594]	-1.12
ENSRNOG00000009440	Gucy1b2	guanylate cyclase 1 soluble subunit beta 2 [Source:RGD Symbol;Acc:1594]	-1.12
ENSRNOG00000037911	LOC680227	LRRGT00193 [Source:RGD Symbol;Acc:1594]	-1.12
ENSRNOG00000001389	Irs3	insulin receptor substrate 3 [Source:RGDSymbol;Acc:1594]	-1.12
ENSRNOG00000021355	Car6	carbonic anhydrase 6 [Source:RGD Symbol;Acc:1594]	-1.13
ENSRNOG00000001593	Lnpk	lunapark, ER junction formation factor [Source:RGD Symbol;Acc:1594]	-1.13
ENSRNOG0000000699	Selplg	selectin P ligand [Source:RGD Symbol;Acc:1305]	-1.13
ENSRNOG00000010813	Tspan14	tetraspanin 14 [Source:RGD Symbol;Acc:1305]	-1.13
ENSRNOG00000009453	Mob3b	MOB kinase activator 3B [Source:RGDSymbol;Acc:1305]	-1.13
ENSRNOG00000010646	Tmem229b	transmembrane protein 229B [Source:RGDSymbol;Acc:1305]	-1.14
ENSRNOG00000014051	Pgrmc2	progesterone receptor membrane component 2 [Source:RGD Symbol;Acc:1305]	-1.14
ENSRNOG00000057044	Garnl3	GTPase activating Rap/RanGAP domain-like 3 [Source:RGD Symbol;Acc:1305]	-1.14
ENSRNOG00000020991	Ms4a6a	membrane spanning 4-domains A6A [Source:RGD Symbol;Acc:1305]	-1.14
ENSRNOG00000025074	Fgg	fibrinogen gamma chain [Source:RGD Symbol;Acc:1305]	-1.14
ENSRNOG00000015113	Mocos	molybdenum cofactor sulfurase [Source:RGD Symbol;Acc:1305]	-1.15
ENSRNOG0000001296	P2rx7	purinergic receptor P2X 7 [Source:RGDSymbol;Acc:1305]	-1.15
ENSRNOG00000004459	Sdr9c7	short chain dehydrogenase/reductase family 9C [Source:RGD Symbol;Acc:1305]	-1.16
ENSRNOG00000024848	Fga	fibrinogen alpha chain [Source:RGD Symbol;Acc:1305]	-1.16
ENSRNOG00000011669	Gstcd	glutathione S-transferase, C-terminal domain containing [Source:RGD Symbol;Acc:1305]	-1.16
ENSRNOG00000023969	Herc6	HECT and RLD domain containing E3 ubiquitin protein ligase [Source:RGD Symbol;Acc:1305]	-1.16
ENSRNOG00000011454	Tbck	TBC1 domain containing kinase [Source:RGD Symbol;Acc:1305]	-1.16
ENSRNOG00000028380	Ccdc66	coiled-coil domain containing 66 [Source:RGD Symbol;Acc:1305]	-1.16
ENSRNOG00000015061	Igfals	insulin-like growth factor binding protein, acidic and basic [Source:RGD Symbol;Acc:1305]	-1.16
ENSRNOG00000026235	Hk3	hexokinase 3 [Source:RGD Symbol;Acc:2798]	-1.16
ENSRNOG00000043201	Coq8a	coenzyme Q8A [Source:RGD Symbol;Acc:1305]	-1.16
ENSRNOG00000012860	Tmem184c	transmembrane protein 184C [Source:RGD Symbol;Acc:1305]	-1.16
ENSRNOG00000017311	Me3	malic enzyme 3 [Source:RGD Symbol;Acc:131]	-1.17
ENSRNOG00000019785	Phtf1	putative homeodomain transcription factor 1 [Source:RGD Symbol;Acc:131]	-1.17
ENSRNOG00000016675	Kcnn2	potassium calcium-activated channel subfamily [Source:RGD Symbol;Acc:131]	-1.18

ENSRNOG00000006709	Pzp	pregnancy-zone protein [Source:RGDSymbol;Acc:6709]	-1.18
ENSRNOG00000000053	Crp	C-reactive protein [Source:RGD Symbol;Acc:2053]	-1.18
ENSRNOG00000010556	Intu	inturned planar cell polarity protein [Source:RGD Symbol;Acc:10556]	-1.18
ENSRNOG00000007601	Inhbe	inhibin beta E subunit [Source:RGDSymbol;Acc:628614]	-1.19
ENSRNOG00000019555	Arap1	ArfGAP with RhoGAP domain, ankyrin repeat and CRD [Source:RGD Symbol;Acc:19555]	-1.19
ENSRNOG00000000777	RT1-S3	RT1 class Ib, locus S3 [Source:RGDSymbol;Acc:628614]	-1.19
ENSRNOG00000000262	Zfp821	zinc finger protein 821 [Source:RGDSymbol;Acc:628614]	-1.19
ENSRNOG000000002878	Afm	afamin [Source:RGD Symbol;Acc:628614]"	-1.19
ENSRNOG000000008758	Tspan18	tetraspanin 18 [Source:RGD Symbol;Acc:1560]	-1.20
ENSRNOG000000050430	Vav1	vav guanine nucleotide exchange factor 1 [Source:RGD Symbol;Acc:1560]	-1.20
ENSRNOG00000016879	Ldlrad4	low density lipoprotein receptor class A domain containing 4 [Source:RGD Symbol;Acc:1560]	-1.20
ENSRNOG00000012892	Abca4	ATP binding cassette subfamily A member 4[Source:RGD Symbol;Acc:1560]	-1.20
ENSRNOG00000019481	Cyp8b1	cytochrome P450, family 8, subfamily b, polypeptide 1 [Source:RGD Symbol;Acc:1560]	-1.20
ENSRNOG00000014866	Pign	phosphatidylinositol glycan anchor biosynthesizing enzyme [Source:RGD Symbol;Acc:1560]	-1.20
ENSRNOG000000000814	Fabp7	fatty acid binding protein 7 [Source:RGDSymbol;Acc:1560]	-1.21
ENSRNOG000000007853	Prdm10	PR/SET domain 10 [Source:RGD Symbol;Acc:1560]	-1.21
ENSRNOG000000004542	Ttc8	tetratricopeptide repeat domain 8 [Source:RGD Symbol;Acc:1560]	-1.22
ENSRNOG00000048800	Nr3c1	nuclear receptor subfamily 3, group C, member 1 [Source:RGD Symbol;Acc:1560]	-1.22
ENSRNOG00000031930	Bin2	bridging integrator 2 [Source:RGDSymbol;Acc:1560]	-1.22
ENSRNOG00000000456	Psmb8	proteasome subunit beta 8 [Source:RGDSymbol;Acc:1560]	-1.22
ENSRNOG00000005868	Ttc21b	tetratricopeptide repeat domain 21B [Source:RGD Symbol;Acc:1560]	-1.23
ENSRNOG00000027008	Igtp	interferon gamma induced GTPase [Source:RGD Symbol;Acc:1560]	-1.24
ENSRNOG00000012273	Dmtn	dematin actin binding protein [Source:RGDSymbol;Acc:1560]	-1.24
ENSRNOG00000056728	G6pd	glucose-6-phosphate dehydrogenase [Source:RGD Symbol;Acc:1560]	-1.24
ENSRNOG00000052219	Gm2a	GM2 ganglioside activator [Source:RGDSymbol;Acc:1560]	-1.25
ENSRNOG00000009046	Phf13	PHD finger protein 13 [Source:RGDSymbol;Acc:1560]	-1.25
ENSRNOG00000011184	Slc13a4	solute carrier family 13 member 4 [Source:RGD Symbol;Acc:1560]	-1.25
ENSRNOG00000049057	Znrf2	zinc and ring finger 2 [Source:RGDSymbol;Acc:1560]	-1.26
ENSRNOG00000008933	Plbd1	phospholipase B domain containing 1 [Source:RGD Symbol;Acc:1560]	-1.27
ENSRNOG00000006967	Xiap	X-linked inhibitor of apoptosis [Source:RGDSymbol;Acc:1560]	-1.27
ENSRNOG00000033245	Mug2	murinoglobulin 2 [Source:RGD Symbol;Acc:1560]	-1.28
ENSRNOG00000037188	Mug1	murinoglobulin 1 [Source:RGD Symbol;Acc:1560]	-1.28
ENSRNOG00000032805	Cyp2f4	cytochrome P450, family 2, subfamily f, polypeptide 4 [Source:RGD Symbol;Acc:1560]	-1.28
ENSRNOG00000003977	Dusp1	dual specificity phosphatase 1 [Source:RGDSymbol;Acc:1560]	-1.28
ENSRNOG00000007970	Plxnc1	plexin C1 [Source:RGD Symbol;Acc:1307420]	-1.29
ENSRNOG00000023197	Zfp608	zinc finger protein 608 [Source:RGDSymbol;Acc:1560]	-1.29
ENSRNOG00000045649	Arrdc3	arrestin domain containing 3 [Source:RGDSymbol;Acc:1560]	-1.30
ENSRNOG00000026965	Tmem140	transmembrane protein 140 [Source:RGDSymbol;Acc:1560]	-1.30
ENSRNOG00000020420	Pklr	pyruvate kinase, liver and RBC [Source:RGDSymbol;Acc:1560]	-1.30
ENSRNOG00000052981	AABR070584	-	-1.31
ENSRNOG00000020150	Il18bp	interleukin 18 binding protein [Source:RGDSymbol;Acc:1560]	-1.31
ENSRNOG00000021240	Atrn	attractin [Source:RGD Symbol;Acc:69063]"	-1.32
ENSRNOG00000029449	Ror1	receptor tyrosine kinase-like orphan receptor 1 [Source:RGD Symbol;Acc:1560]	-1.32
ENSRNOG00000010658	LOC10369174	cystathionine gamma-lyase [Source:RGDSymbol;Acc:1560]	-1.32
ENSRNOG00000004327	Ddc	dopa decarboxylase [Source:RGD Symbol;Acc:1560]	-1.33
ENSRNOG00000050595	LOC10091256	major urinary protein-like [Source:RGDSymbol;Acc:1560]	-1.33
ENSRNOG00000024874	Prtfdc1	phosphoribosyl transferase domain containing 1 [Source:RGD Symbol;Acc:1560]	-1.33
ENSRNOG0000002134	Mpa2l	macrophage activation 2 like [Source:RGDSymbol;Acc:1560]	-1.33

ENSRNOG00000009322	Ccdc126	coiled-coil domain containing 126 [Source:RGD Symbol;Acc:1310]	-1.33
ENSRNOG00000036674	Cd7	Cd7 molecule [Source:RGD Symbol;Acc:1310]	-1.33
ENSRNOG00000053891	Phf11b	PHD finger protein 11B [Source:RGDSymbol;Acc:15611]	-1.34
ENSRNOG00000001926	Cldn1	claudin 1 [Source:RGD Symbol;Acc:68422]"	-1.34
ENSRNOG00000051570	-	-	-1.34
ENSRNOG00000049471	Steap3	STEAP3 metalloreductase [Source:RGDSymbol;Acc:15611]	-1.35
ENSRNOG00000006675	Fabp1	fatty acid binding protein 1 [Source:RGDSymbol;Acc:15611]	-1.35
ENSRNOG00000010819	Hspa4l	heat shock protein 4-like [Source:RGDSymbol;Acc:15611]	-1.35
ENSRNOG0000001957	ste2	estrogen sulfotransferase [Source:RGDSymbol;Acc:15611]	-1.35
ENSRNOG00000021334	Lag3	lymphocyte activating 3 [Source:RGDSymbol;Acc:15611]	-1.35
ENSRNOG00000021062	Fxyd5	FXYD domain-containing ion transport regulator 5 [Source:RGDSymbol;Acc:15611]	-1.35
ENSRNOG00000024501	Rgs3	regulator of G-protein signaling 3 [Source:RGD Symbol;Acc:15611]	-1.35
ENSRNOG00000016112	Cd274	CD274 molecule [Source:RGD Symbol;Acc:15611]	-1.36
ENSRNOG00000012762	Zfp64	zinc finger protein 64 [Source:RGDSymbol;Acc:15611]	-1.36
ENSRNOG00000011271	Mcc	mutated in colorectal cancers [Source:RGDSymbol;Acc:15611]	-1.36
ENSRNOG00000017557	LOC1003622	hypothetical protein LOC100362216 [Source:RGD Symbol;Acc:15611]	-1.36
ENSRNOG00000013993	AABR070070	-	-1.36
ENSRNOG00000014652	Aqp8	aquaporin 8 [Source:RGD Symbol;Acc:2146]"	-1.36
ENSRNOG00000024127	Atp13a5	ATPase 13A5 [Source:RGD Symbol;Acc:1306]	-1.37
ENSRNOG00000050305	LOC1009118	mannose-binding protein C-like [Source:RGDSymbol;Acc:15611]	-1.37
ENSRNOG00000017191	Trim30c	tripartite motif-containing 30C [Source:RGDSymbol;Acc:15611]	-1.39
ENSRNOG00000001216	Trpm2	transient receptor potential cation channel, subfamily M, member 2 [Source:RGD Symbol;Acc:15611]	-1.39
ENSRNOG00000006384	Ddx58	DEXD/H-box helicase 58 [Source:RGDSymbol;Acc:15611]	-1.39
ENSRNOG00000022686	Zdhhc2	zinc finger, DHHC-type containing 2 [Source:RGD Symbol;Acc:15611]	-1.39
ENSRNOG00000012946	Mov10	Mov10 RISC complex RNA helicase [Source:RGD Symbol;Acc:15611]	-1.40
ENSRNOG00000004517	Igf1	insulin-like growth factor 1 [Source:RGDSymbol;Acc:15611]	-1.40
ENSRNOG00000000528	Fgd2	FYVE, RhoGEF and PH domain containing 2 [Source:RGD Symbol;Acc:15611]	-1.40
ENSRNOG00000037198	Usp18	ubiquitin specific peptidase 18 [Source:RGDSymbol;Acc:15611]	-1.40
ENSRNOG00000016244	Mical2	microtubule associated monooxygenase, calponin homology domain containing 2 [Source:RGD Symbol;Acc:15611]	-1.41
ENSRNOG00000003954	Il2rg	interleukin 2 receptor subunit gamma [Source:RGD Symbol;Acc:15611]	-1.41
ENSRNOG00000010291	Slc46a1	solute carrier family 46 member 1 [Source:RGD Symbol;Acc:15611]	-1.41
ENSRNOG0000001621	C2cd2	C2 calcium-dependent domain containing 2 [Source:RGD Symbol;Acc:15611]	-1.41
ENSRNOG0000002659	Ciita	class II, major histocompatibility complex, transmembrane protein [Source:RGD Symbol;Acc:15611]	-1.41
ENSRNOG00000010410	Serpina3c	serine (or cysteine) proteinase inhibitor, clade A, member 3C [Source:RGD Symbol;Acc:15611]	-1.42
ENSRNOG00000029668	Wfdc21	WAP four-disulfide core domain 21 [Source:RGD Symbol;Acc:15611]	-1.42
ENSRNOG00000020503	Cbln3	cerebellin 3 precursor [Source:RGDSymbol;Acc:15611]	-1.43
ENSRNOG00000015035	Myo7b	myosin VIIb [Source:RGD Symbol;Acc:15611]	-1.44
ENSRNOG00000018233	Gas6	growth arrest specific 6 [Source:RGDSymbol;Acc:15611]	-1.44
ENSRNOG00000019737	Sema4a	semaphorin 4A [Source:RGD Symbol;Acc:1306]	-1.44
ENSRNOG00000004249	Tlr7	toll-like receptor 7 [Source:RGDSymbol;Acc:15611]	-1.45
ENSRNOG00000006082	Rmdn2	regulator of microtubule dynamics 2 [Source:RGD Symbol;Acc:15611]	-1.45
ENSRNOG00000015774	Mreg	melanoregulin [Source:RGD Symbol;Acc:1562]	-1.45
ENSRNOG00000030225	Clpx	caseinolytic mitochondrial matrix peptidase chain chaperone [Source:RGD Symbol;Acc:1562]	-1.45
ENSRNOG00000017676	Plvap	plasmalemma vesicle associated protein [Source:RGD Symbol;Acc:1562]	-1.46
ENSRNOG00000007177	Kdelc2	KDEL motif containing 2 [Source:RGDSymbol;Acc:1562]	-1.46
ENSRNOG0000002520	Litaf	lipopolysaccharide-induced TNF factor [Source:RGD Symbol;Acc:1562]	-1.46
ENSRNOG00000019430	Coro1a	coronin 1A [Source:RGD Symbol;Acc:620009]	-1.46
ENSRNOG00000038766	LOC1036943	alanine and glycine-rich protein-like [Source:RGD Symbol;Acc:1562]	-1.47

ENSRNOG00000021130	Abcc8	ATP binding cassette subfamily C member 8[S]	-1.47
ENSRNOG00000049590	RT1-M2	RT1 class Ib, locus M2 [Source:RGD Symbol;Acc:156]	-1.47
ENSRNOG00000008937	Csrp1	cysteine and glycine-rich protein 1 [Source:RGD Symbol;Acc:156]	-1.47
ENSRNOG00000018131	Slc16a4	solute carrier family 16, member 4 [Source:RGD Symbol;Acc:156]	-1.48
ENSRNOG00000031598	Atp8b4	ATPase phospholipid transporting 8B4 (putative)	-1.48
ENSRNOG00000004400	Avpr1a	arginine vasopressin receptor 1A [Source:RGD Symbol;Acc:156]	-1.48
ENSRNOG00000029191	LOC685067	similar to guanylate binding protein family, member 1 [Source:RGD Symbol;Acc:156]	-1.48
ENSRNOG00000013589	Cxcl12	C-X-C motif chemokine ligand 12 [Source:RGD Symbol;Acc:156]	-1.49
ENSRNOG00000001736	Bdh1	3-hydroxybutyrate dehydrogenase 1 [Source:RGD Symbol;Acc:156]	-1.50
ENSRNOG00000006388	Pygl	glycogen phosphorylase L [Source:RGD Symbol;Acc:156]	-1.50
ENSRNOG00000010634	Megf11	multiple EGF-like-domains 11 [Source:RGD Symbol;Acc:156]	-1.50
ENSRNOG00000015911	Lrp5	LDL receptor related protein 5 [Source:RGD Symbol;Acc:156]	-1.50
ENSRNOG00000020060	Atf5	activating transcription factor 5 [Source:RGD Symbol;Acc:156]	-1.51
ENSRNOG00000057713	Cav2	caveolin 2 [Source:RGD Symbol;Acc:620348]	-1.51
ENSRNOG00000016978	LOC308990	hypothetical protein LOC308990 [Source:RGD Symbol;Acc:156]	-1.51
ENSRNOG00000047817	Enox1	ecto-NOX disulfide-thiol exchanger 1 [Source:RGD Symbol;Acc:156]	-1.51
ENSRNOG00000014604	Sigmar1	sigma non-opioid intracellular receptor 1 [Source:RGD Symbol;Acc:156]	-1.51
ENSRNOG00000010625	Dnmt3b	DNA methyltransferase 3 beta [Source:RGD Symbol;Acc:156]	-1.52
ENSRNOG00000042536	Pde4d	phosphodiesterase 4D [Source:RGD Symbol;Acc:156]	-1.52
ENSRNOG00000046195	Slc22a5	solute carrier family 22 member 5 [Source:RGD Symbol;Acc:156]	-1.52
ENSRNOG00000042576	Tcp1111	t-complex 11 like 1 [Source:RGD Symbol;Acc:156]	-1.53
ENSRNOG00000038722	Tlr10	toll-like receptor 10 [Source:RGD Symbol;Acc:156]	-1.53
ENSRNOG00000040195	RGD1559960	similar to Sulfotransferase K1 (rSULT1C2)[Source:RGD Symbol;Acc:156]	-1.53
ENSRNOG00000014806	Pnkd	paroxysmal nonkinesigenic dyskinesia [Source:RGD Symbol;Acc:156]	-1.53
ENSRNOG00000019657	Mk1	Mk1 protein [Source:RGD Symbol;Acc:621163]	-1.53
ENSRNOG00000022698	Vsig10	V-set and immunoglobulin domain containing 10 [Source:RGD Symbol;Acc:156]	-1.54
ENSRNOG00000017414	Irf7	interferon regulatory factor 7 [Source:RGD Symbol;Acc:156]	-1.54
ENSRNOG00000014918	Klrg1	killer cell lectin like receptor G1 [Source:RGD Symbol;Acc:156]	-1.54
ENSRNOG00000018382	Inpp4b	inositol polyphosphate-4-phosphatase type II B [Source:RGD Symbol;Acc:156]	-1.54
ENSRNOG00000047369	LOC100910047369	sulfotransferase 1C2-like [Source:RGD Symbol;Acc:156]	-1.56
ENSRNOG00000014711	Meiob	meiosis specific with OB domains [Source:RGD Symbol;Acc:156]	-1.56
ENSRNOG00000037853	Rarres1	retinoic acid receptor responder 1 [Source:RGD Symbol;Acc:156]	-1.56
ENSRNOG00000042771	Apol3	apolipoprotein L, 3 [Source:RGD Symbol;Acc:156]	-1.57
ENSRNOG00000033215	RT1-Db1	RT1 class II, locus Db1 [Source:RGD Symbol;Acc:156]	-1.57
ENSRNOG0000006033	Spon2	spondin 2 [Source:RGD Symbol;Acc:708584]	-1.58
ENSRNOG00000020300	Lsp1	lymphocyte-specific protein 1 [Source:RGD Symbol;Acc:156]	-1.58
ENSRNOG00000018378	Cacnb2	calcium voltage-gated channel auxiliary subunit beta 2 [Source:RGD Symbol;Acc:156]	-1.58
ENSRNOG00000021802	Isg15	ISG15 ubiquitin-like modifier [Source:RGD Symbol;Acc:156]	-1.59
ENSRNOG00000030868	LOC367746	similar to Spindlin-like protein 2 (SPIN-2)[Source:RGD Symbol;Acc:156]	-1.59
ENSRNOG00000031343	Nxpe5	neurexophilin and PC-esterase domain family, member 5 [Source:RGD Symbol;Acc:156]	-1.59
ENSRNOG00000028156	Pld1	phospholipase D1 [Source:RGD Symbol;Acc:3156]	-1.59
ENSRNOG00000017531	Akr1c3	aldo-keto reductase family 1, member C3 [Source:RGD Symbol;Acc:156]	-1.60
ENSRNOG00000018804	Fam65b	family with sequence similarity 65, member B [Source:RGD Symbol;Acc:156]	-1.60
ENSRNOG00000020653	S1pr2	sphingosine-1-phosphate receptor 2 [Source:RGD Symbol;Acc:156]	-1.60
ENSRNOG00000021237	RGD1565616	RGD1565616 [Source:RGD Symbol;Acc:1565]	-1.60
ENSRNOG00000012427	Veph1	ventricular zone expressed PH domain-containing protein 1 [Source:RGD Symbol;Acc:156]	-1.61
ENSRNOG0000006779	Crot	carnitine O-octanoyltransferase [Source:RGD Symbol;Acc:156]	-1.61
ENSRNOG0000000378	Ctnna3	catenin alpha 3 [Source:RGD Symbol;Acc:156]	-1.61

ENSRNOG00000025278	Scai	suppressor of cancer cell invasion [Source:RGD Symbol;Acc:1]	-1.62
ENSRNOG00000061237	Dio1	deiodinase, iodothyronine, type I [Source:RGD Symbol;Acc:1]	-1.62
ENSRNOG00000004150	Slc9a7	solute carrier family 9 member A7 [Source:RGD Symbol;Acc:1]	-1.62
ENSRNOG00000014125	Evi2b	ecotropic viral integration site 2B [Source:RGD Symbol;Acc:1]	-1.63
ENSRNOG00000012819	Gdnf	glial cell derived neurotrophic factor [Source:RGD Symbol;Acc:1]	-1.64
ENSRNOG00000032844	RT1-Da	RT1 class II, locus Da [Source:RGDSymbol;Acc:1]	-1.64
ENSRNOG00000061895	Ly49si1	immunoreceptor Ly49si1 [Source:RGDSymbol;Acc:1]	-1.64
ENSRNOG00000020828	Pde4a	phosphodiesterase 4A [Source:RGD Symbol;Acc:1]	-1.64
ENSRNOG0000006557	Cyfip2	cytoplasmic FMR1 interacting protein 2 [Source:RGD Symbol;Acc:1]	-1.65
ENSRNOG00000003526	Syt14	synaptotagmin-like 4 [Source:RGD Symbol;Acc:1]	-1.65
ENSRNOG00000018735	Cd74	CD74 molecule [Source:RGD Symbol;Acc:231]	-1.65
ENSRNOG00000032394	Tymp	thymidine phosphorylase [Source:RGDSymbol;Acc:1]	-1.66
ENSRNOG0000005420	Abcg8	ATP binding cassette subfamily G member 8 [Source:RGD Symbol;Acc:1]	-1.66
ENSRNOG00000038740	Gimap7	GTPase, IMAP family member 7 [Source:RGD Symbol;Acc:1]	-1.66
ENSRNOG00000024689	Hopx	HOP homeobox [Source:RGD Symbol;Acc:62]	-1.67
ENSRNOG0000000529	Pim1	Pim-1 proto-oncogene, serine/threonine kinase [Source:RGD Symbol;Acc:1]	-1.67
ENSRNOG00000007700	Inhbc	inhibin beta C subunit [Source:RGDSymbol;Acc:1]	-1.67
ENSRNOG00000009273	LOC259245	alpha-2u globulin PGCL5 [Source:RGDSymbol;Acc:1]	-1.67
ENSRNOG00000002089	Ccng2	cyclin G2 [Source:RGD Symbol;Acc:1305002]	-1.69
ENSRNOG000000050706	Col25a1	collagen type XXV alpha 1 chain [Source:RGD Symbol;Acc:1]	-1.69
ENSRNOG00000011984	Cxcl14	C-X-C motif chemokine ligand 14 [Source:RGD Symbol;Acc:1]	-1.70
ENSRNOG00000008519	RGD1309079	similar to Ab2-095 [Source:RGD Symbol;Acc:1]	-1.70
ENSRNOG00000040128	Cd209a	CD209a molecule [Source:RGD Symbol;Acc:1]	-1.71
ENSRNOG0000001959	Mx1	myxovirus (influenza virus) resistance 1 [Source:RGD Symbol;Acc:1]	-1.71
ENSRNOG00000002470	Ifi47	interferon gamma inducible protein 47 [Source:RGD Symbol;Acc:1]	-1.72
ENSRNOG00000013570	Rad54l2	RAD54-like 2 ( <i>S. cerevisiae</i> ) [Source:RGDSymbol;Acc:1]	-1.72
ENSRNOG00000019470	Hao2	hydroxyacid oxidase 2 [Source:RGD Symbol;Acc:1]	-1.72
ENSRNOG00000011269	Sult1c3	sulfotransferase family 1C member 3 [Source:RGD Symbol;Acc:1]	-1.73
ENSRNOG00000032708	RT1-Bb	RT1 class II, locus Bb [Source:RGD Symbol;Acc:1]	-1.74
ENSRNOG00000010833	Mthfd2	methylenetetrahydrofolate dehydrogenase (NADPH)-dependent [Source:RGD Symbol;Acc:1]	-1.74
ENSRNOG00000012756	Slc25a43	solute carrier family 25, member 43 [Source:RGD Symbol;Acc:1]	-1.74
ENSRNOG00000007545	Angptl4	angiopoietin-like 4 [Source:RGD Symbol;Acc:1]	-1.74
ENSRNOG00000009565	Pdk4	pyruvate dehydrogenase kinase 4 [Source:RGD Symbol;Acc:1]	-1.75
ENSRNOG00000017006	Nkx1-2	NK1 homeobox 2 [Source:RGD Symbol;Acc:1]	-1.75
ENSRNOG00000048166	Arhgap19	Rho GTPase activating protein 19 [Source:RGD Symbol;Acc:1]	-1.76
ENSRNOG00000008842	Cyp4a8	cytochrome P450, family 4, subfamily a, polypeptide 8 [Source:RGD Symbol;Acc:1]	-1.76
ENSRNOG00000039678	LOC1083523	ferritin heavy chain-like [Source:RGDSymbol;Acc:1]	-1.76
ENSRNOG00000022110	Gcsam	germinal center-associated, signaling and motility [Source:RGD Symbol;Acc:1]	-1.76
ENSRNOG00000032798	Slco3a1	solute carrier organic anion transporter family, member 3A1 [Source:RGD Symbol;Acc:1]	-1.77
ENSRNOG00000003305	Cxcr3	C-X-C motif chemokine receptor 3 [Source:RGD Symbol;Acc:1]	-1.77
ENSRNOG00000020272	RGD1310209	similar to KIAA1324 protein [Source:RGDSymbol;Acc:1]	-1.77
ENSRNOG00000009074	AABR070179	-	-1.78
ENSRNOG00000019639	Pgpep1	pyroglutamyl-peptidase I [Source:RGDSymbol;Acc:1]	-1.78
ENSRNOG0000004921	Nusap1	nucleolar and spindle associated protein 1 [Source:RGD Symbol;Acc:1]	-1.79
ENSRNOG00000047349	Ms4a6c	membrane-spanning 4-domains, subfamily A, member 6c [Source:RGD Symbol;Acc:1]	-1.79
ENSRNOG00000012036	Pcsk5	proprotein convertase subtilisin/kexin type 5 [Source:RGD Symbol;Acc:1]	-1.80
ENSRNOG00000011497	Aldh1b1	aldehyde dehydrogenase 1 family, member B1 [Source:RGD Symbol;Acc:1]	-1.80
ENSRNOG00000022764	Evi2a	ecotropic viral integration site 2A [Source:RGD Symbol;Acc:1]	-1.80

ENSRNOG00000061739	Klrk1	killer cell lectin like receptor K1 [Source:RGD Symbol;Acc:1301]	-1.81
ENSRNOG00000004527	Lin7a	lin-7 homolog A, crumbs cell polarity complex [Source:RGD Symbol;Acc:1302]	-1.81
ENSRNOG00000010275	Slc17a9	solute carrier family 17 member 9 [Source:RGD Symbol;Acc:1303]	-1.81
ENSRNOG00000016069	Cd3e	CD3e molecule [Source:RGD Symbol;Acc:1304]	-1.82
ENSRNOG00000009438	Serpina6	serpin family A member 6 [Source:RGDSymbol;Acc:1305]	-1.83
ENSRNOG00000003614	Mgat5	mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetylgalactosaminidase [Source:RGD Symbol;Acc:1306]	-1.84
ENSRNOG00000049489	LOC10255216	helicase ARIP4-like [Source:RGD Symbol;Acc:1307]	-1.84
ENSRNOG00000037919	Chic1	cysteine-rich hydrophobic domain 1 [Source:RGD Symbol;Acc:1308]	-1.84
ENSRNOG00000015773	Il21r	interleukin 21 receptor [Source:RGDSymbol;Acc:1309]	-1.84
ENSRNOG00000011200	Bhmt	betaine-homocysteine S-methyltransferase [Source:RGD Symbol;Acc:1310]	-1.85
ENSRNOG00000023257	Adamts9	ADAM metallopeptidase with thrombospondin type 1 motif 9 [Source:RGD Symbol;Acc:1311]	-1.85
ENSRNOG00000004861	Itga4	integrin subunit alpha 4 [Source:RGDSymbol;Acc:1312]	-1.86
ENSRNOG00000059876	Fsd11	fibronectin type III and SPRY domain containing 1 [Source:RGD Symbol;Acc:1313]	-1.86
ENSRNOG00000010594	LOC500124	similar to RIKEN cDNA 4921507P07 [Source:RGD Symbol;Acc:1314]	-1.87
ENSRNOG00000000479	Kifc1	kinesin family member C1 [Source:RGDSymbol;Acc:1315]	-1.87
ENSRNOG00000033654	LOC501038	Ab2-060 [Source:RGD Symbol;Acc:1560610]"	-1.88
ENSRNOG00000001309	Camkk2	calcium/calmodulin-dependent protein kinase kappa [Source:RGD Symbol;Acc:1316]	-1.88
ENSRNOG00000021086	Dtx4	deltex E3 ubiquitin ligase 4 [Source:RGDSymbol;Acc:1317]	-1.88
ENSRNOG00000009912	Fgr	FGR proto-oncogene, Src family tyrosine kinase [Source:RGD Symbol;Acc:1318]	-1.89
ENSRNOG00000005447	Ypel2	yippee-like 2 [Source:RGD Symbol;Acc:13115]	-1.89
ENSRNOG00000032374	Paqr9	progesterin and adipoQ receptor family member 9 [Source:RGD Symbol;Acc:1319]	-1.89
ENSRNOG00000022730	Zfp57	zinc finger protein 57 [Source:RGDSymbol;Acc:1320]	-1.90
ENSRNOG00000029195	Uba7	ubiquitin-like modifier activating enzyme 7[Source:RGD Symbol;Acc:1321]	-1.91
ENSRNOG00000009979	Sebox	SEBOX homeobox [Source:RGD Symbol;Acc:1322]	-1.91
ENSRNOG00000006970	Ntn3	netrin 3 [Source:RGD Symbol;Acc:619811]"	-1.91
ENSRNOG00000001704	Runx1	runt-related transcription factor 1 [Source:RGD Symbol;Acc:1323]	-1.91
ENSRNOG00000002031	Naa11	N(alpha)-acetyltransferase 11, NatA catalytic subunit [Source:RGD Symbol;Acc:1324]	-1.92
ENSRNOG00000001052	Slc25a30	solute carrier family 25, member 30 [Source:RGD Symbol;Acc:1325]	-1.92
ENSRNOG00000039754	Rab7b	Rab7b, member RAS oncogene family [Source:RGD Symbol;Acc:1326]	-1.93
ENSRNOG00000007410	Dab1	DAB1, reelin adaptor protein [Source:RGDSymbol;Acc:1327]	-1.93
ENSRNOG00000018730	Nectin2	nectin cell adhesion molecule 2 [Source:RGD Symbol;Acc:1328]	-1.94
ENSRNOG00000020625	Mcpt2	mast cell protease 2 [Source:RGD Symbol;Acc:1329]	-1.95
ENSRNOG00000005879	Maml2	mastermind-like transcriptional coactivator 2[Source:RGD Symbol;Acc:1330]	-1.95
ENSRNOG00000058446	Il7r	interleukin 7 receptor [Source:RGDSymbol;Acc:1331]	-1.95
ENSRNOG00000011431	Mfhas1	malignant fibrous histiocytoma amplified sequence 1 [Source:RGD Symbol;Acc:1332]	-1.96
ENSRNOG00000036673	Sectm1b	secreted and transmembrane 1B [Source:RGD Symbol;Acc:1333]	-1.96
ENSRNOG00000015088	Prune2	prune homolog 2 [Source:RGD Symbol;Acc:1334]	-1.97
ENSRNOG00000024650	Ckap2	cytoskeleton associated protein 2 [Source:RGD Symbol;Acc:1335]	-1.98
ENSRNOG00000047150	LOC10091240	urinary protein 3-like [Source:RGDSymbol;Acc:1336]	-1.99
ENSRNOG00000027799	Tmie	transmembrane inner ear [Source:RGD Symbol;Acc:1337]	-1.99
ENSRNOG00000047613	Mup5	major urinary protein 5 [Source:RGD Symbol;Acc:1338]	-2.00
ENSRNOG0000004441	Fcmr	Fc fragment of IgM receptor [Source:RGDSymbol;Acc:1339]	-2.00
ENSRNOG00000047100	LOC367975	similar to B-cell translocation gene 1 [Source:RGD Symbol;Acc:1340]	-2.01
ENSRNOG0000001908	Klhl6	kelch-like family member 6 [Source:RGDSymbol;Acc:1341]	-2.02
ENSRNOG0000007793	Pnrc1	proline-rich nuclear receptor coactivator 1[Source:RGD Symbol;Acc:1342]	-2.03
ENSRNOG00000061519	Asap2	ArfGAP with SH3 domain, ankyrin repeat and PH domain 2 [Source:RGD Symbol;Acc:1343]	-2.03
ENSRNOG00000051056	Fndc4	-	-2.04
ENSRNOG00000058780	Igfbp1	insulin-like growth factor binding protein 1[Source:RGD Symbol;Acc:1344]	-2.06

ENSRNOG00000025088	Tmc3	transmembrane channel-like 3 [Source:RGDSymbol;Acc:130822]	-2.06
ENSRNOG00000006331	Elovl5	ELOVL fatty acid elongase 5 [Source:RGDSymbol;Acc:130822]	-2.06
ENSRNOG00000026989	Gapt	Grb2-binding adaptor protein, transmembrane [Source:RGDSymbol;Acc:130822]	-2.06
ENSRNOG00000031138	Irgm	immunity-related GTPase M [Source:RGDSymbol;Acc:130822]	-2.08
ENSRNOG00000002501	Ddx3y	DEAD (Asp-Glu-Ala-Asp) box helicase 3, Y-linked [Source:RGDSymbol;Acc:130822]	-2.10
ENSRNOG00000054426	Zfp704	zinc finger protein 704 [Source:RGDSymbol;Acc:130822]	-2.11
ENSRNOG0000004666	Prr51	proline rich 5 like [Source:RGD Symbol;Acc:130822]	-2.11
ENSRNOG000000000503	Ppard	peroxisome proliferator-activated receptor delta [Source:RGD Symbol;Acc:130822]	-2.12
ENSRNOG00000013057	Prc1	protein regulator of cytokinesis 1 [Source:RGD Symbol;Acc:130822]	-2.15
ENSRNOG00000017914	Prkcdbp	protein kinase C, delta binding protein [Source:RGD Symbol;Acc:130822]	-2.16
ENSRNOG00000016791	Chka	choline kinase alpha [Source:RGD Symbol;Acc:130822]	-2.17
ENSRNOG00000024365	Ect2	epithelial cell transforming 2 [Source:RGDSymbol;Acc:130822]	-2.17
ENSRNOG00000010951	Cmtm6	CKLF-like MARVEL transmembrane domain containing 6 [Source:RGD Symbol;Acc:130822]	-2.17
ENSRNOG00000012367	Pcdh7	protocadherin 7 [Source:RGD Symbol;Acc:130822]	-2.17
ENSRNOG00000002834	Klb	klotho beta [Source:RGD Symbol;Acc:130822]	-2.18
ENSRNOG00000022268	Pnpla3	patatin-like phospholipase domain containing 3 [Source:RGD Symbol;Acc:130822]	-2.19
ENSRNOG00000030776	Syt12	synaptotagmin-like 2 [Source:RGDSymbol;Acc:130822]	-2.19
ENSRNOG00000009019	Slc6a6	solute carrier family 6 member 6 [Source:RGD Symbol;Acc:130822]	-2.19
ENSRNOG0000006526	Sema3c	semaphorin 3C [Source:RGD Symbol;Acc:130822]	-2.20
ENSRNOG00000021724	Ptpcap	protein tyrosine phosphatase, receptor type, C-alpha [Source:RGD Symbol;Acc:130822]	-2.20
ENSRNOG00000007529	Bmf	Bcl2 modifying factor [Source:RGDSymbol;Acc:130822]	-2.20
ENSRNOG00000021553	Nckap5	NCK-associated protein 5 [Source:RGDSymbol;Acc:130822]	-2.21
ENSRNOG00000061101	Ripply1	ripply transcriptional repressor 1 [Source:RGD Symbol;Acc:130822]	-2.21
ENSRNOG0000003198	RGD1305733	similar to RIKEN cDNA 2900011O08 [Source:RGD Symbol;Acc:130822]	-2.21
ENSRNOG00000038877	Btn2a2	butyrophilin, subfamily 2, member A2 [Source:RGD Symbol;Acc:130822]	-2.22
ENSRNOG00000029478	Cyp4f39	cytochrome P450, family 4, subfamily f, polypeptide 39 [Source:RGD Symbol;Acc:130822]	-2.22
ENSRNOG00000015423	Ccna2	cyclin A2 [Source:RGD Symbol;Acc:621059]"	-2.22
ENSRNOG00000000036	Klhdc8a	kelch domain containing 8A [Source:RGDSymbol;Acc:130822]	-2.22
ENSRNOG00000046386	Olr1353	olfactory receptor 1353 [Source:RGDSymbol;Acc:130822]	-2.23
ENSRNOG00000026050	Epb4114a	erythrocyte membrane protein band 4.1 like 4A [Source:RGD Symbol;Acc:130822]	-2.24
ENSRNOG00000005984	Etv6	ets variant 6 [Source:RGD Symbol;Acc:155953]"	-2.25
ENSRNOG00000017558	Tubb2a	tubulin, beta 2A class IIa [Source:RGDSymbol;Acc:130822]	-2.27
ENSRNOG00000024115	C6	complement C6 [Source:RGD Symbol;Acc:223]"	-2.27
ENSRNOG0000000459	Psmb9	proteasome subunit beta 9 [Source:RGDSymbol;Acc:130822]	-2.28
ENSRNOG00000049033	Racgap1	Rac GTPase-activating protein 1 [Source:RGD Symbol;Acc:130822]	-2.29
ENSRNOG00000007370	Rnf144a	ring finger protein 144A [Source:RGDSymbol;Acc:130822]	-2.30
ENSRNOG00000057832	Rnf125	ring finger protein 125 [Source:RGDSymbol;Acc:130822]	-2.31
ENSRNOG00000011573	Cсад	cysteine sulfenic acid decarboxylase [Source:RGD Symbol;Acc:130822]	-2.31
ENSRNOG00000014448	Arntl	aryl hydrocarbon receptor nuclear translocator [Source:RGD Symbol;Acc:130822]	-2.31
ENSRNOG00000048818	Catsperd	cation channel sperm associated auxiliary subunit delta [Source:RGD Symbol;Acc:130822]	-2.32
ENSRNOG00000016696	Angpt2	angiopoietin 2 [Source:RGD Symbol;Acc:621059]"	-2.32
ENSRNOG00000010079	Car3	carbonic anhydrase 3 [Source:RGD Symbol;Acc:130822]	-2.35
ENSRNOG00000026577	Cpne4	copine 4 [Source:RGD Symbol;Acc:1308844]"	-2.35
ENSRNOG00000049075	Fabp5	fatty acid binding protein 5, epidermal [Source:RGD Symbol;Acc:130822]	-2.35
ENSRNOG00000034116	Gk	glycerol kinase [Source:RGD Symbol;Acc:708]"	-2.36
ENSRNOG00000020281	Kif22	kinesin family member 22 [Source:RGDSymbol;Acc:130822]	-2.36
ENSRNOG00000037928	AABR070219	-	-2.38
ENSRNOG0000006738	Fbxo32	F-box protein 32 [Source:RGD Symbol;Acc:621059]"	-2.38

ENSRNOG00000008942	RGD1304963	similar to hypothetical protein MGC38716 [Source:RGD Symbol;Acc:620388]	-2.39
ENSRNOG00000020193	Runx2	runt-related transcription factor 2 [Source:RGD Symbol;Acc:2297]	-2.40
ENSRNOG00000016561	Ns5atp9	NS5A (hepatitis C virus) transactivated protein	-2.40
ENSRNOG00000012205	Lgsn	lensin, lens protein with glutamine synthetase	-2.40
ENSRNOG00000020573	Efna1	ephrin A1 [Source:RGD Symbol;Acc:620388]"	-2.45
ENSRNOG00000013003	Srms	src-related kinase lacking C-terminal regulatory	-2.45
ENSRNOG00000015821	Cd2	Cd2 molecule [Source:RGD Symbol;Acc:2297]	-2.47
ENSRNOG00000000632	Cdk1	cyclin-dependent kinase 1 [Source:RGDSymbol;Acc:620388]	-2.48
ENSRNOG00000029993	Kynu	kynureninase [Source:RGD Symbol;Acc:71061]	-2.48
ENSRNOG00000051171	G6pc	glucose-6-phosphatase, catalytic subunit [Source:RGD Symbol;Acc:620388]	-2.48
ENSRNOG00000049053	Glipr112	GLI pathogenesis-related 1 like 2 [Source:RGD Symbol;Acc:620388]	-2.49
ENSRNOG00000060052	Tdrd15	tudor domain containing 15 [Source:RGDSymbol;Acc:620388]	-2.51
ENSRNOG00000004487	Nek2	NIMA-related kinase 2 [Source:RGDSymbol;Acc:620388]	-2.51
ENSRNOG00000032618	Mst1r	macrophage stimulating 1 receptor [Source:RGD Symbol;Acc:620388]	-2.54
ENSRNOG00000011917	Cd79b	CD79b molecule [Source:RGD Symbol;Acc:620388]	-2.57
ENSRNOG00000019046	Reg4	regenerating family member 4 [Source:RGDSymbol;Acc:620388]	-2.57
ENSRNOG00000053047	Top2a	topoisomerase (DNA) II alpha [Source:RGDSymbol;Acc:620388]	-2.58
ENSRNOG00000008450	LOC10035951	ribonucleotide reductase M2 polypeptide [Source:RGD Symbol;Acc:620388]	-2.60
ENSRNOG00000019660	Spib	Spi-B transcription factor [Source:RGDSymbol;Acc:620388]	-2.60
ENSRNOG00000012721	Ednra	endothelin receptor type A [Source:RGDSymbol;Acc:620388]	-2.60
ENSRNOG00000058752	Popdc2	popeye domain containing 2 [Source:RGDSymbol;Acc:620388]	-2.61
ENSRNOG00000014443	Pde5a	phosphodiesterase 5A [Source:RGD Symbol;Acc:620388]	-2.61
ENSRNOG00000049388	Prr32	proline rich 32 [Source:RGD Symbol;Acc:1583]	-2.63
ENSRNOG00000053321	AABR070707	-	-2.64
ENSRNOG00000011475	Srcin1	SRC kinase signaling inhibitor 1 [Source:RGD Symbol;Acc:620388]	-2.64
ENSRNOG00000019100	Kif2c	kinesin family member 2C [Source:RGDSymbol;Acc:620388]	-2.66
ENSRNOG00000002922	Adora2b	adenosine A2B receptor [Source:RGD Symbol;Acc:620388]	-2.66
ENSRNOG00000013727	Ndc80	NDC80 kinetochore complex component [Source:RGD Symbol;Acc:620388]	-2.68
ENSRNOG00000018815	Plk1	polo-like kinase 1 [Source:RGD Symbol;Acc:320388]	-2.72
ENSRNOG00000050848	Dtx1	deltex E3 ubiquitin ligase 1 [Source:RGDSymbol;Acc:620388]	-2.74
ENSRNOG00000005109	Rprm	represso, TP53 dependent G2 arrest mediator catenin	-2.75
ENSRNOG00000015727	Loxl4	lysyl oxidase-like 4 [Source:RGDSymbol;Acc:620388]	-2.76
ENSRNOG00000028668	Slc28a2	solute carrier family 28 member 2 [Source:RGD Symbol;Acc:620388]	-2.77
ENSRNOG00000020990	Fgf21	fibroblast growth factor 21 [Source:RGDSymbol;Acc:620388]	-2.77
ENSRNOG00000058539	Ccnb1	cyclin B1 [Source:RGD Symbol;Acc:2291]"	-2.78
ENSRNOG00000019659	Aspa	aspartoacylase [Source:RGD Symbol;Acc:6216]	-2.78
ENSRNOG00000016358	Apba2	amyloid beta precursor protein binding family 4	-2.78
ENSRNOG00000008045	Slamf9	SLAM family member 9 [Source:RGDSymbol;Acc:620388]	-2.81
ENSRNOG00000001484	Gatsl2	GATS protein-like 2 [Source:RGD Symbol;Acc:620388]	-2.81
ENSRNOG00000036641	LOC689065	hypothetical protein LOC689065 [Source:RGD Symbol;Acc:620388]	-2.86
ENSRNOG00000017120	Abhd2	abhydrolase domain containing 2 [Source:RGD Symbol;Acc:620388]	-2.87
ENSRNOG0000005659	Aurkb	aurora kinase B [Source:RGD Symbol;Acc:6216]	-2.87
ENSRNOG00000039759	Gpr34	G protein-coupled receptor 34 [Source:RGDSymbol;Acc:620388]	-2.88
ENSRNOG00000036942	Tnfrsf9	TNF receptor superfamily member 9 [Source:RGD Symbol;Acc:620388]	-2.89
ENSRNOG00000037668	Ccdc162	coiled-coil domain containing 162 [Source:RGD Symbol;Acc:620388]	-2.91
ENSRNOG0000007866	Clec2d	C-type lectin domain family 2, member D [Source:RGD Symbol;Acc:620388]	-2.91
ENSRNOG00000023465	LOC500300	similar to hypothetical protein MGC6835 [Source:RGD Symbol;Acc:620388]	-2.92
ENSRNOG00000014320	Inhba	inhibin beta A subunit [Source:RGD Symbol;Acc:620388]	-2.92

ENSRNOG00000007483	Ccnf	cyclin F [Source:RGD Symbol;Acc:67401]"	-2.94
ENSRNOG00000037076	LOC689757	similar to osteoclast inhibitory lectin [Source:RGD Symbol;Acc:10111]	-2.95
ENSRNOG00000014426	Lox	lysyl oxidase [Source:RGD Symbol;Acc:3015]	-2.96
ENSRNOG00000048874	Gckr	glucokinase regulator [Source:RGD Symbol;Acc:10112]	-2.98
ENSRNOG00000007247	A2ml1	alpha-2-macroglobulin-like 1 [Source:RGDSymbol;Acc:10113]	-3.04
ENSRNOG00000046699	Slpi	secretory leukocyte peptidase inhibitor [Source:RGD Symbol;Acc:10114]	-3.05
ENSRNOG00000037421	Zfp951	zinc finger protein 951 [Source:RGDSymbol;Acc:10115]	-3.21
ENSRNOG00000013552	Scd	stearoyl-CoA desaturase [Source:RGDSymbol;Acc:10116]	-3.22
ENSRNOG00000020467	Nrep	neuronal regeneration related protein [Source:RGD Symbol;Acc:10117]	-3.27
ENSRNOG00000054286	Rrm2	ribonucleotide reductase regulatory subunit M2 [Source:RGD Symbol;Acc:10118]	-3.27
ENSRNOG00000042721	Gimd1	GIMAP family P-loop NTPase domain containing 1 [Source:RGD Symbol;Acc:10119]	-3.27
ENSRNOG00000005971	Gpr176	G protein-coupled receptor 176 [Source:RGDSymbol;Acc:10120]	-3.41
ENSRNOG00000028137	Mki67	marker of proliferation Ki-67 [Source:RGDSymbol;Acc:10121]	-3.46
ENSRNOG00000007575	Plppr1	phospholipid phosphatase related 1 [Source:RGD Symbol;Acc:10122]	-3.49
ENSRNOG00000000412	Slc35f1	solute carrier family 35, member F1 [Source:RGD Symbol;Acc:10123]	-3.50
ENSRNOG00000017019	Lmx1b	LIM homeobox transcription factor 1 beta [Source:RGD Symbol;Acc:10124]	-3.52
ENSRNOG00000039357	Fam129c	family with sequence similarity 129, member C [Source:RGD Symbol;Acc:10125]	-3.52
ENSRNOG00000021499	Siglech	sialic acid binding Ig-like lectin H [Source:RGD Symbol;Acc:10126]	-3.55
ENSRNOG00000019542	LOC1009109	interferon-inducible GTPase 1-like [Source:RGD Symbol;Acc:10127]	-3.56
ENSRNOG00000016525	Susd3	sushi domain containing 3 [Source:RGDSymbol;Acc:10128]	-3.59
ENSRNOG00000038960	RGD1309362	similar to interferon-inducible GTPase [Source:RGD Symbol;Acc:10129]	-3.65
ENSRNOG00000007906	Bub1b	BUB1 mitotic checkpoint serine/threonine kinase [Source:RGD Symbol;Acc:10130]	-3.71
ENSRNOG00000030269	Atp2b2	ATPase plasma membrane Ca2+ transporting 2 [Source:RGD Symbol;Acc:10131]	-3.76
ENSRNOG00000009481	Ddhd1	DDHD domain containing 1 [Source:RGDSymbol;Acc:10132]	-3.77
ENSRNOG00000026764	Pla2g4c	phospholipase A2, group IVC [Source:RGDSymbol;Acc:10133]	-3.77
ENSRNOG00000008965	Socs2	suppressor of cytokine signaling 2 [Source:MGD;Acc:10134]	-3.81
ENSRNOG00000011820	Acpp	acid phosphatase, prostate [Source:RGDSymbol;Acc:10135]	-3.87
ENSRNOG00000029055	Ttk	Ttk protein kinase [Source:RGD Symbol;Acc:10136]	-3.96
ENSRNOG00000003984	Apln	apelin [Source:RGD Symbol;Acc:620672]"	-4.04
ENSRNOG00000037339	Siglec10	sialic acid binding Ig-like lectin 10 [Source:RGD Symbol;Acc:10137]	-4.05
ENSRNOG00000013823	Cers3	ceramide synthase 3 [Source:RGD Symbol;Acc:10138]	-4.09
ENSRNOG00000006962	Stk32c	serine/threonine kinase 32C [Source:RGDSymbol;Acc:10139]	-4.11
ENSRNOG00000025589	Jph4	junctophilin 4 [Source:RGD Symbol;Acc:1303]	-4.17
ENSRNOG00000008050	Stac3	SH3 and cysteine rich domain 3 [Source:RGDSymbol;Acc:10140]	-4.26
ENSRNOG00000022296	Pnpla5	patatin-like phospholipase domain containing 5 [Source:RGD Symbol;Acc:10141]	-4.29
ENSRNOG00000007129	Cd8b	CD8b molecule [Source:RGD Symbol;Acc:231]	-4.34
ENSRNOG00000029556	LOC304725	similar to contactin associated protein-like 5 isoform [Source:RGD Symbol;Acc:10142]	-4.47
ENSRNOG00000003244	Ltc4s	leukotriene C4 synthase [Source:RGDSymbol;Acc:10143]	-4.57
ENSRNOG00000037080	Adamts17	ADAM metallopeptidase with thrombospondin type 1 motif 17 [Source:RGD Symbol;Acc:10144]	-4.60
ENSRNOG00000012987	Ptk6	protein tyrosine kinase 6 [Source:RGDSymbol;Acc:10145]	-4.60
ENSRNOG00000012835	Esp11	extra spindle pole bodies like 1, separase [Source:RGD Symbol;Acc:10146]	-4.64
ENSRNOG00000019050	Ifit1	interferon-induced protein with tetratricopeptide repeats 1 [Source:RGD Symbol;Acc:10147]	-4.64
ENSRNOG00000025300	Fer1l6	fer-1-like family member 6 [Source:RGDSymbol;Acc:10148]	-4.69
ENSRNOG00000009334	Knstrn	kinetochore-localized astrin/SPAG5 binding protein [Source:RGD Symbol;Acc:10149]	-4.78
ENSRNOG0000001628	Pcp4	Purkinje cell protein 4 [Source:RGD Symbol;Acc:10150]	-4.81
ENSRNOG00000042103	RGD1560771	similar to STELLA [Source:RGD Symbol;Acc:10151]	-4.91
ENSRNOG00000050075	AABR070134	-	-5.25
ENSRNOG00000028765	Ttc24	tetratricopeptide repeat domain 24 [Source:RGD Symbol;Acc:10152]	-5.67

ENSRNOG00000013408	Npas2	neuronal PAS domain protein 2 [Source:RGDS	-5.89
ENSRNOG00000003738	Ush2a	usherin [Source:RGD Symbol;Acc:628777]"	-6.14
ENSRNOG00000014018	St8sia1	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sial	-6.57

**Supplemental Table S3. All the transcripts that are differentially expressed in AST treated DM rats compared to DM rats**

ID	Name	Description	log2FC
ENSRNOG00000014018	St8sia1	ST8 alpha-N-acetyl-neuraminate alpha-2,8-sialyltrans	5.06
ENSRNOG00000033496	Igdcc4	immunoglobulin superfamily, DCC subclass, membe	4.90
ENSRNOG00000025300	Fer1l6	fer-1-like family member 6 [Source:RGDSymbol;Acc:	4.85
ENSRNOG00000037339	Siglec10	sialic acid binding Ig-like lectin 10 [Source:RGDSym	4.82
ENSRNOG00000054954	Nilr1	neutrophil immunoglobulin-like receptor-1[Source:R	4.65
ENSRNOG00000019187	Dnajb7	DnaJ heat shock protein family (Hsp40) member B7[	4.59
ENSRNOG00000025384	Slc2a10	solute carrier family 2 member 10 [Source:RGDSymbol;	4.45
ENSRNOG00000018316	Grap2	GRB2-related adaptor protein 2 [Source:MGISymbol]	4.41
ENSRNOG00000036942	Tnfrsf9	TNF receptor superfamily member 9 [Source:RGDSym	4.32
ENSRNOG00000028137	Mki67	marker of proliferation Ki-67 [Source:RGDSymbol;A	4.29
ENSRNOG00000039931	Muc16	mucin 16, cell surface associated [Source:RGDSymb	4.29
ENSRNOG00000031478	Zfp663	zinc finger protein 663 [Source:RGDSymbol;Acc:23	4.23
ENSRNOG00000052376	Bend6	BEN domain containing 6 [Source:RGDSymbol;Acc:	4.20
ENSRNOG00000028765	Ttc24	tetratricopeptide repeat domain 24 [Source:RGDSym	4.03
ENSRNOG00000012835	Espl1	extra spindle pole bodies like 1, separase[Source:RG	3.91
ENSRNOG00000017286	Ephx2	epoxide hydrolase 2 [Source:RGD Symbol;Acc:6207	3.68
ENSRNOG00000023340	Tmem72	transmembrane protein 72 [Source:RGDSymbol;Acc:	3.67
ENSRNOG00000011820	Acpp	acid phosphatase, prostate [Source:RGDSymbol;Acc:	3.50
ENSRNOG0000003388	Cenpf	centromere protein F [Source:RGD Symbol;Acc:6286	3.48
ENSRNOG00000023809	Opcml	opioid binding protein/cell adhesion molecule-like[So	3.48
ENSRNOG00000029055	Ttk	Ttk protein kinase [Source:RGD Symbol;Acc:130555	3.30
ENSRNOG00000007090	Cacna1c	calcium voltage-gated channel subunit alpha1 C[Sour	3.12
ENSRNOG00000014265	Tnfrsf19	TNF receptor superfamily member 19 [Source:RGDSym	3.12
ENSRNOG00000020525	Col5a3	collagen type V alpha 3 chain [Source:RGDSymbol;A	3.12
ENSRNOG00000030269	Atp2b2	ATPase plasma membrane Ca2+ transporting 2[Sourc	3.11
ENSRNOG00000020132	Ttll10	tubulin tyrosine ligase like 10 [Source:RGDSymbol;A	3.11
ENSRNOG00000042360	Treml4	triggering receptor expressed on myeloid cells-like4	3.10
ENSRNOG00000025589	Jph4	junctophilin 4 [Source:RGD Symbol;Acc:1303170]"	3.10
ENSRNOG00000003522	Mr1	major histocompatibility complex, class I-related[Sou	3.09
ENSRNOG00000028335	Fat4	FAT atypical cadherin 4 [Source:RGDSymbol;Acc:1	3.05
ENSRNOG00000058446	Il7r	interleukin 7 receptor [Source:RGDSymbol;Acc:1309	2.97
ENSRNOG00000001656	Kcnj15	potassium voltage-gated channel subfamily J member	2.93
ENSRNOG00000033658	Kntc1	kinetochore associated 1 [Source:RGDSymbol;Acc:1	2.91
ENSRNOG0000006962	Stk32c	serine/threonine kinase 32C [Source:RGDSymbol;Acc	2.90
ENSRNOG00000036726	Cd300e	Cd300e molecule [Source:RGD Symbol;Acc:158513	2.89
ENSRNOG00000038957	RGD130518	similar to CDNA sequence BC023105 [Source:RGDSy	2.75
ENSRNOG00000051171	G6pc	glucose-6-phosphatase, catalytic subunit [Source:RG	2.73
ENSRNOG00000023465	LOC500300	similar to hypothetical protein MGC6835 [Source:RG	2.73
ENSRNOG00000020014	Myh14	myosin heavy chain 14 [Source:RGDSymbol;Acc:130	2.71
ENSRNOG0000004861	Itga4	integrin subunit alpha 4 [Source:RGDSymbol;Acc:15	2.69
ENSRNOG00000011200	Bhmt	betaine-homocysteine S-methyltransferase [Source:R	2.68
ENSRNOG00000033161	RGD15651	similar to 40S ribosomal protein S26 [Source:RGDSy	2.68
ENSRNOG00000039357	Fam129c	family with sequence similarity 129, member C[Sourc	2.66
ENSRNOG00000014156	Fut7	fucosyltransferase 7 [Source:RGD Symbol;Acc:7350	2.63

ENSRNOG00000023257	Adamts9	ADAM metallopeptidase with thrombospondin type	2.62
ENSRNOG00000013727	Ndc80	NDC80 kinetochore complex component [Source:RGDSymbol;Acc:156335]	2.58
ENSRNOG00000017120	Abhd2	abhydrolase domain containing 2 [Source:RGDSymbol;Acc:156335]	2.56
ENSRNOG00000016041	Zc3h12d	zinc finger CCCH type containing 12D [Source:RGDSymbol;Acc:156335]	2.55
ENSRNOG00000029071	Unc5c	unc-5 netrin receptor C [Source:RGDSymbol;Acc:73]	2.55
ENSRNOG00000008471	Kif21b	kinesin family member 21B [Source:RGDSymbol;Acc:156335]	2.54
ENSRNOG00000060052	Tdrd15	tudor domain containing 15 [Source:RGDSymbol;Acc:156335]	2.54
ENSRNOG00000014496	Coro6	coronin 6 [Source:RGD Symbol;Acc:708560]"	2.54
ENSRNOG00000017249	Zfp366	zinc finger protein 366 [Source:RGDSymbol;Acc:231]	2.53
ENSRNOG00000014768	Glis3	GLIS family zinc finger 3 [Source:RGDSymbol;Acc:156335]	2.49
ENSRNOG00000009019	Slc6a6	solute carrier family 6 member 6 [Source:RGDSymbol;Acc:156335]	2.48
ENSRNOG00000033693	Naip6	NLR family, apoptosis inhibitory protein 6[Source:RGDSymbol;Acc:156335]	2.47
ENSRNOG00000031669	Lpp	LIM domain containing preferred translocationpartner	2.45
ENSRNOG00000011475	Srcin1	SRC kinase signaling inhibitor 1 [Source:RGDSymbol;Acc:156335]	2.43
ENSRNOG00000003587	Vegfd	vascular endothelial growth factor D [Source:RGDSymbol;Acc:156335]	2.40
ENSRNOG00000054426	Zfp704	zinc finger protein 704 [Source:RGDSymbol;Acc:156335]	2.39
ENSRNOG00000021437	AABR0707	-	2.38
ENSRNOG00000046683	Lilrb3	leukocyte immunoglobulin like receptor B3[Source:RGDSymbol;Acc:156335]	2.38
ENSRNOG00000061328	Pag1	phosphoprotein membrane anchor withglycosphingolipid	2.37
ENSRNOG00000005309	Scn8a	sodium voltage-gated channel alpha subunit 8[Source:RGDSymbol;Acc:156335]	2.37
ENSRNOG00000007200	Ikzf3	IKAROS family zinc finger 3 [Source:RGDSymbol;Acc:156335]	2.36
ENSRNOG00000045560	LOC499229	similar to very large inducible GTPase 1 isoform A[S]	2.36
ENSRNOG00000058742	AABR0706	-	2.35
ENSRNOG00000053448	Rn50_10_08	-	2.34
ENSRNOG00000015088	Prune2	prune homolog 2 [Source:RGD Symbol;Acc:1311350]	2.32
ENSRNOG00000012051	Ncaph	non-SMC condensin I complex, subunit H [Source:RGDSymbol;Acc:156335]	2.32
ENSRNOG00000005879	Maml2	mastermind-like transcriptional coactivator 2[Source:RGDSymbol;Acc:156335]	2.30
ENSRNOG00000019112	Chp2	calcineurin-like EF hand protein 2 [Source:RGDSymbol;Acc:156335]	2.28
ENSRNOG00000026953	Gpr88	G-protein coupled receptor 88 [Source:RGDSymbol;Acc:156335]	2.26
ENSRNOG00000010834	Mpped1	metallophosphoesterase domain containing 1[Source:RGDSymbol;Acc:156335]	2.26
ENSRNOG00000019587	Ptpn	protein tyrosine phosphatase, receptor type, N[Source:RGDSymbol;Acc:156335]	2.25
ENSRNOG00000008045	Slamf9	SLAM family member 9 [Source:RGDSymbol;Acc:156335]	2.25
ENSRNOG00000009258	Cdk6	cyclin-dependent kinase 6 [Source:RGDSymbol;Acc:156335]	2.25
ENSRNOG00000028913	RGD156123	similar to MAP/microtubule affinity-regulatingkinase	2.24
ENSRNOG00000023073	Nr1h5	nuclear receptor subfamily 1, group H, member 5[Source:RGDSymbol;Acc:156335]	2.23
ENSRNOG00000016998	Atxn1	ataxin 1 [Source:RGD Symbol;Acc:3624]"	2.19
ENSRNOG00000019472	Ackr2	atypical chemokine receptor 2 [Source:RGDSymbol;Acc:156335]	2.19
ENSRNOG00000023209	Slamf7	SLAM family member 7 [Source:RGDSymbol;Acc:156335]	2.16
ENSRNOG00000045913	Prdm16	PR/SET domain 16 [Source:RGD Symbol;Acc:23244]	2.15
ENSRNOG00000049758	Tbc1d16	TBC1 domain family, member 16 [Source:RGDSymbol;Acc:156335]	2.15
ENSRNOG00000038784	Piezo2	piezo-type mechanosensitive ion channel component	2.14
ENSRNOG00000056130	AABR0702	-	2.14
ENSRNOG00000053240	Soga1	suppressor of glucose, autophagy associated 1[Source:RGDSymbol;Acc:156335]	2.11
ENSRNOG0000004249	Tlr7	toll-like receptor 7 [Source:RGDSymbol;Acc:156335]	2.10
ENSRNOG00000021569	Tiam1	T-cell lymphoma invasion and metastasis 1[Source:RGDSymbol;Acc:156335]	2.09
ENSRNOG00000014336	Mcm5	minichromosome maintenance complex component 5	2.09
ENSRNOG00000037060	Odf3b	outer dense fiber of sperm tails 3B [Source:RGDSymbol;Acc:156335]	2.08
ENSRNOG00000048874	Gckr	glucokinase regulator [Source:RGD Symbol;Acc:267]	2.07

ENSRNOG00000003703	Mcm6	minichromosome maintenance complex component 6	2.07
ENSRNOG00000022911	Hjurp	Holliday junction recognition protein [Source:RGDSymbol;Acc:1308170]	2.06
ENSRNOG00000023309	Anks6	ankyrin repeat and sterile alpha motif domaincontaining 6	2.06
ENSRNOG00000005970	Lrrc1	leucine rich repeat containing 1 [Source:RGDSymbol;Acc:1308170]	2.05
ENSRNOG00000020281	Kif22	kinesin family member 22 [Source:RGDSymbol;Acc:1308170]	2.03
ENSRNOG00000003498	Olr1584	olfactory receptor 1584 [Source:RGDSymbol;Acc:1308170]	2.02
ENSRNOG00000007923	Cgref1	cell growth regulator with EF hand domain 1[Source:RGDSymbol;Acc:1308170]	2.01
ENSRNOG00000042888	Cdyl2	chromodomain Y-like 2 [Source:RGDSymbol;Acc:1308170]	2.01
ENSRNOG00000012671	Gan	gigaxonin [Source:RGD Symbol;Acc:1307766]"	2.01
ENSRNOG00000048411	Uhrf1	ubiquitin-like with PHD and ring finger domains 1[Source:RGDSymbol;Acc:1308170]	2.00
ENSRNOG00000008356	Myo5c	myosin VC [Source:RGD Symbol;Acc:1309994]"	2.00
ENSRNOG00000010266	Cd180	CD180 molecule [Source:RGD Symbol;Acc:1308170]	1.99
ENSRNOG00000053047	Top2a	topoisomerase (DNA) II alpha [Source:RGDSymbol;Acc:1308170]	1.98
ENSRNOG00000019481	Cyp8b1	cytochrome P450, family 8, subfamily b, polypeptide 1	1.98
ENSRNOG00000014452	Zfhx3	zinc finger homeobox 3 [Source:RGDSymbol;Acc:1308170]	1.97
ENSRNOG00000012543	Mcm3	minichromosome maintenance complex component 3	1.97
ENSRNOG00000047349	Ms4a6c	membrane-spanning 4-domains, subfamily A, member 6	1.97
ENSRNOG00000003094	Cmah	cytidine monophospho-N-acetylneuraminic acidhydrolyase	1.96
ENSRNOG00000013515	Ptpru	protein tyrosine phosphatase, receptor type, U[Source:RGDSymbol;Acc:1308170]	1.96
ENSRNOG00000015727	Lox14	lysyl oxidase-like 4 [Source:RGDSymbol;Acc:130851]	1.96
ENSRNOG00000026235	Hk3	hexokinase 3 [Source:RGD Symbol;Acc:2798]"	1.96
ENSRNOG00000024711	Sdk2	sidekick cell adhesion molecule 2 [Source:RGDSymbol;Acc:1308170]	1.95
ENSRNOG00000055015	AABR0701	-	1.95
ENSRNOG00000017767	Mrvi1	murine retrovirus integration site 1 homolog[Source:RGDSymbol;Acc:1308170]	1.94
ENSRNOG00000028668	Slc28a2	solute carrier family 28 member 2 [Source:RGDSymbol;Acc:1308170]	1.93
ENSRNOG00000057569	Ahnak	AHNAK nucleoprotein [Source:RGD Symbol;Acc:6111]	1.93
ENSRNOG00000015076	Cyp26b1	cytochrome P450, family 26, subfamily b, polypeptide 1	1.92
ENSRNOG00000013057	Prc1	protein regulator of cytokinesis 1 [Source:RGDSymbol;Acc:1308170]	1.92
ENSRNOG00000005190	Nipal2	NIPA-like domain containing 2 [Source:RGDSymbol;Acc:1308170]	1.92
ENSRNOG00000008444	Cbl	Cbl proto-oncogene [Source:RGD Symbol;Acc:15611]	1.91
ENSRNOG00000021553	Nckap5	NCK-associated protein 5 [Source:RGDSymbol;Acc:1308170]	1.91
ENSRNOG00000042182	Mroh2a	maestro heat-like repeat family member 2A[Source:RGDSymbol;Acc:1308170]	1.90
ENSRNOG00000038722	Tlr10	toll-like receptor 10 [Source:RGDSymbol;Acc:13115]	1.90
ENSRNOG00000014125	Evi2b	ecotropic viral integration site 2B [Source:RGDSymbol;Acc:1308170]	1.90
ENSRNOG00000042576	Tcp11l1	t-complex 11 like 1 [Source:RGD Symbol;Acc:15623]	1.89
ENSRNOG00000009341	Hivep3	human immunodeficiency virus type I enhancer binding protein 3	1.89
ENSRNOG00000009329	Nr1d1	nuclear receptor subfamily 1, group D, member 1[Source:RGDSymbol;Acc:1308170]	1.88
ENSRNOG00000012410	S100a1	S100 calcium binding protein A1 [Source:RGDSymbol;Acc:1308170]	1.88
ENSRNOG00000060408	AABR0705	-	1.88
ENSRNOG0000000655	Ptprc	protein tyrosine phosphatase, receptor type, C[Source:RGDSymbol;Acc:1308170]	1.88
ENSRNOG00000029235	Sfmbt2	Scm-like with four mbt domains 2 [Source:RGDSymbol;Acc:1308170]	1.88
ENSRNOG00000004603	Srgap1	SLIT-ROBO Rho GTPase activating protein 1[Source:RGDSymbol;Acc:1308170]	1.86
ENSRNOG00000061070	Irf4	interferon regulatory factor 4 [Source:RGDSymbol;Acc:1308170]	1.86
ENSRNOG00000039668	Col8a1	collagen type VIII alpha 1 chain [Source:RGDSymbol;Acc:1308170]	1.86
ENSRNOG00000055909	Apoa4	apolipoprotein A4 [Source:RGD Symbol;Acc:2132]"	1.86
ENSRNOG00000014835	Il1rl1	interleukin 1 receptor-like 1 [Source:RGDSymbol;Acc:1308170]	1.86
ENSRNOG00000034116	Gk	glycerol kinase [Source:RGD Symbol;Acc:70893]"	1.85
ENSRNOG00000017503	Ppargc1b	PPARG coactivator 1 beta [Source:RGDSymbol;Acc:1308170]	1.85

ENSRNOG00000058470	Col12a1	collagen type XII alpha 1 chain [Source:RGDSymbol]	1.85
ENSRNOG00000019659	Aspa	aspartoacylase [Source:RGD Symbol;Acc:621693]"	1.85
ENSRNOG00000015133	Kmt2a	lysine methyltransferase 2A [Source:RGDSymbol;Acc:621693]"	1.85
ENSRNOG0000001484	Gatsl2	GATS protein-like 2 [Source:RGD Symbol;Acc:130434]"	1.84
ENSRNOG00000024899	Cxcl13	C-X-C motif chemokine ligand 13 [Source:RGDSymbol]	1.84
ENSRNOG00000011977	Sema5a	semaphorin 5A [Source:RGD Symbol;Acc:1308650]"	1.84
ENSRNOG00000012061	Prkcb	protein kinase C, beta [Source:RGD Symbol;Acc:339344]"	1.84
ENSRNOG00000007034	Hipk2	homeodomain interacting protein kinase 2 [Source:RGD Symbol]	1.83
ENSRNOG00000006738	Fbxo32	F-box protein 32 [Source:RGD Symbol;Acc:620373]"	1.83
ENSRNOG00000004307	Tor3a	torsin family 3, member A [Source:RGDSymbol;Acc:339344]"	1.82
ENSRNOG00000011081	Serpina7	serpin family A member 7 [Source:RGDSymbol;Acc:339344]"	1.82
ENSRNOG00000022884	Cd84	CD84 molecule [Source:RGD Symbol;Acc:1564553]"	1.82
ENSRNOG00000033824	Gpd2	glycerol-3-phosphate dehydrogenase 2 [Source:RGDSymbol]	1.82
ENSRNOG00000012819	Gdnf	glial cell derived neurotrophic factor [Source:RGDSymbol]	1.82
ENSRNOG00000049452	Neb1	nebulette [Source:RGD Symbol;Acc:1308315]"	1.82
ENSRNOG00000049590	RT1-M2	RT1 class Ib, locus M2 [Source:RGD Symbol;Acc:340344]"	1.81
ENSRNOG00000015588	Nol3	nucleolar protein 3 [Source:RGD Symbol;Acc:70855]"	1.81
ENSRNOG00000024272	Ino80d	INO80 complex subunit D [Source:RGDSymbol;Acc:340344]"	1.81
ENSRNOG00000022067	Tlr5	toll-like receptor 5 [Source:RGD Symbol;Acc:63135]"	1.81
ENSRNOG0000004305	Abl2	ABL proto-oncogene 2, non-receptor tyrosine kinase [Source:RGDSymbol;Acc:340344]"	1.79
ENSRNOG00000011407	Prag1	PEAK1 related kinase activating pseudokinase 1[Source:RGDSymbol;Acc:340344]"	1.79
ENSRNOG00000014776	Adcy7	adenylate cyclase 7 [Source:RGD Symbol;Acc:61996]"	1.79
ENSRNOG00000027859	Tmem26	transmembrane protein 26 [Source:RGDSymbol;Acc:340344]"	1.79
ENSRNOG00000019260	Ceacam20	carcinoembryonic antigen-related cell adhesionmole [Source:RGDSymbol;Acc:340344]"	1.79
ENSRNOG00000018570	C1qtnf3	C1q and tumor necrosis factor related protein 3[Source:RGDSymbol;Acc:340344]"	1.78
ENSRNOG00000007302	Fbn1	fibrillin 1 [Source:RGD Symbol;Acc:620908]"	1.78
ENSRNOG00000030724	Adamdec1	ADAM-like, decysin 1 [Source:RGDSymbol;Acc:1304344]"	1.77
ENSRNOG00000027191	Birc6	baculoviral IAP repeat-containing 6 [Source:RGDSy [Source:RGDSymbol;Acc:340344]"	1.77
ENSRNOG00000018285	Kcna2	potassium voltage-gated channel subfamily A membe [Source:RGDSymbol;Acc:340344]"	1.75
ENSRNOG00000003897	Col1a1	collagen type I alpha 1 chain [Source:RGDSymbol;Acc:340344]"	1.75
ENSRNOG00000016353	Nim1k	NIM1 serine/threonine protein kinase [Source:RGDSymbol;Acc:340344]"	1.75
ENSRNOG00000013886	Fyb	FYN binding protein [Source:RGD Symbol;Acc:156344]"	1.74
ENSRNOG00000059097	-	-	1.74
ENSRNOG00000033110	Svep1	sushi, von Willebrand factor type A, EGF andpentrax [Source:RGDSymbol;Acc:340344]"	1.74
ENSRNOG00000018268	Hhip	Hedgehog-interacting protein [Source:RGDSymbol;Acc:340344]"	1.72
ENSRNOG00000032048	Zfp462	zinc finger protein 462 [Source:RGDSymbol;Acc:156344]"	1.71
ENSRNOG00000030404	Arrb1	arrestin, beta 1 [Source:RGD Symbol;Acc:2156]"	1.71
ENSRNOG00000014443	Pde5a	phosphodiesterase 5A [Source:RGD Symbol;Acc:620344]"	1.71
ENSRNOG00000016758	Loxl2	lysyl oxidase-like 2 [Source:RGDSymbol;Acc:1308434]"	1.69
ENSRNOG00000032590	Ttc28	tetratricopeptide repeat domain 28 [Source:RGDSymbol;Acc:340344]"	1.69
ENSRNOG00000028362	Unc80	unc-80 homolog, NALCN activator [Source:RGDSymbol;Acc:340344]"	1.69
ENSRNOG00000016308	Il10ra	interleukin 10 receptor subunit alpha [Source:RGDSymbol;Acc:340344]"	1.69
ENSRNOG0000002834	Klb	klotho beta [Source:RGD Symbol;Acc:1308227]"	1.68
ENSRNOG00000042980	Adam19	ADAM metallopeptidase domain 19 [Source:RGDSymbol;Acc:340344]"	1.67
ENSRNOG00000036572	Sfxn4	sideroflexin 4 [Source:RGD Symbol;Acc:1306088]"	1.67
ENSRNOG00000018929	Kif20b	kinesin family member 20B [Source:RGDSymbol;Acc:340344]"	1.66
ENSRNOG00000012730	Lrrk1	leucine-rich repeat kinase 1 [Source:RGDSymbol;Acc:340344]"	1.65
ENSRNOG00000058866	Myo5a	myosin VA [Source:RGD Symbol;Acc:3143]"	1.64

ENSRNOG00000058068	Obscn	obscurin, cytoskeletal calmodulin and titin-interacting protein	1.64
ENSRNOG00000049951	Tmem151a	transmembrane protein 151A [Source:RGDSymbol;Acc:130111]	1.64
ENSRNOG00000022764	Evi2a	ecotropic viral integration site 2A [Source:RGDSymbol;Acc:130112]	1.64
ENSRNOG00000028273	Tmem150b	transmembrane protein 150B [Source:RGDSymbol;Acc:130113]	1.64
ENSRNOG00000012830	Paqr8	progesterin and adipoQ receptor family member 8[Source:RGDSymbol;Acc:130114]	1.62
ENSRNOG00000001959	Mx1	myxovirus (influenza virus) resistance 1 [Source:RGDSymbol;Acc:130115]	1.62
ENSRNOG00000024703	Dock5	dedicator of cytokinesis 5 [Source:RGDSymbol;Acc:130116]	1.62
ENSRNOG00000017528	Gpr157	G protein-coupled receptor 157 [Source:RGDSymbol;Acc:130117]	1.62
ENSRNOG00000016208	Setbp1	SET binding protein 1 [Source:RGDSymbol;Acc:130118]	1.62
ENSRNOG00000017980	Itgal	integrin subunit alpha L [Source:RGDSymbol;Acc:63119]	1.62
ENSRNOG00000048166	Arhgap19	Rho GTPase activating protein 19 [Source:RGDSymbol;Acc:130120]	1.62
ENSRNOG00000012333	Kbtbd11	kelch repeat and BTB domain containing 11[Source:RGDSymbol;Acc:130121]	1.61
ENSRNOG00000032247	Bank1	B-cell scaffold protein with ankyrin repeats 1[Source:RGDSymbol;Acc:130122]	1.61
ENSRNOG00000060356	Kif15	kinesin family member 15 [Source:RGDSymbol;Acc:130123]	1.61
ENSRNOG00000017114	Synj2	synaptojanin 2 [Source:RGD Symbol;Acc:69436]"	1.61
ENSRNOG00000067779	Crot	carnitine O-octanoyltransferase [Source:RGDSymbol;Acc:130124]	1.61
ENSRNOG00000051528	Ddx11	DEAD/H-box helicase 11 [Source:RGDSymbol;Acc:130125]	1.60
ENSRNOG00000018373	Tln2	talin 2 [Source:RGD Symbol;Acc:1565416]"	1.60
ENSRNOG00000045829	Thbs1	thrombospondin 1 [Source:RGD Symbol;Acc:158845]	1.59
ENSRNOG00000005124	Plekhh2	pleckstrin homology, MyTH4 and FERM domaincontaining 2	1.59
ENSRNOG00000010592	Slc25a27	solute carrier family 25, member 27 [Source:RGDSymbol;Acc:130126]	1.59
ENSRNOG00000059456	Grk3	G protein-coupled receptor kinase 3 [Source:RGDSymbol;Acc:130127]	1.59
ENSRNOG00000050430	Vav1	vav guanine nucleotide exchange factor 1 [Source:RGDSymbol;Acc:130128]	1.59
ENSRNOG00000022598	Trerf1	transcriptional regulating factor 1 [Source:RGDSymbol;Acc:130129]	1.59
ENSRNOG00000050206	Shank2	SH3 and multiple ankyrin repeat domains 2[Source:RGDSymbol;Acc:130130]	1.58
ENSRNOG0000005564	Ubn2	ubinuclein 2 [Source:RGD Symbol;Acc:1310722]"	1.58
ENSRNOG00000008479	Slc8a1	solute carrier family 8 member A1 [Source:RGDSymbol;Acc:130131]	1.58
ENSRNOG00000020353	Sh3pxd2a	SH3 and PX domains 2A [Source:RGDSymbol;Acc:130132]	1.58
ENSRNOG00000009590	Stox2	storkhead box 2 [Source:RGD Symbol;Acc:708477]"	1.57
ENSRNOG00000002959	Shroom4	shroom family member 4 [Source:RGDSymbol;Acc:130133]	1.57
ENSRNOG00000019542	LOC100910441	interferon-inducible GTPase 1-like [Source:RGDSymbol;Acc:130134]	1.57
ENSRNOG00000011070	Gnb4	G protein subunit beta 4 [Source:RGDSymbol;Acc:130135]	1.55
ENSRNOG00000029658	Rnf213	ring finger protein 213 [Source:RGDSymbol;Acc:130136]	1.55
ENSRNOG00000049994	Ifi441	interferon-induced protein 44-like [Source:RGDSymbol;Acc:130137]	1.55
ENSRNOG00000006178	Dync1h1	dynein cytoplasmic 1 heavy chain 1 [Source:RGDSymbol;Acc:130138]	1.54
ENSRNOG00000046309	Gpr68	G protein-coupled receptor 68 [Source:RGDSymbol;Acc:130139]	1.54
ENSRNOG00000013045	Setd7	SET domain containing (lysine methyltransferase) 7[Source:RGDSymbol;Acc:130140]	1.53
ENSRNOG00000023803	Cmya5	cardiomyopathy associated 5 [Source:RGDSymbol;Acc:130141]	1.53
ENSRNOG00000016181	Tbx20	T-box 20 [Source:RGD Symbol;Acc:1309396]"	1.53
ENSRNOG00000009495	Src	SRC proto-oncogene, non-receptor tyrosine kinase[Source:RGDSymbol;Acc:130142]	1.53
ENSRNOG00000006548	Mrc2	mannose receptor, C type 2 [Source:RGDSymbol;Acc:130143]	1.53
ENSRNOG00000020828	Pde4a	phosphodiesterase 4A [Source:RGD Symbol;Acc:327111]	1.53
ENSRNOG00000005404	Rasgrp1	RAS guanyl releasing protein 1 [Source:RGDSymbol;Acc:130144]	1.52
ENSRNOG00000030954	Fat1	FAT atypical cadherin 1 [Source:RGDSymbol;Acc:63145]	1.52
ENSRNOG00000014288	Fn1	fibronectin 1 [Source:RGD Symbol;Acc:2624]"	1.52
ENSRNOG00000046050	Dennd1c	DENN/MADD domain containing 1C [Source:MGIS;Acc:130146]	1.52
ENSRNOG00000023549	Samd5	sterile alpha motif domain containing 5 [Source:RGDSymbol;Acc:130147]	1.51
ENSRNOG00000022730	Zfp57	zinc finger protein 57 [Source:RGDSymbol;Acc:130148]	1.51

ENSRNOG00000060464	Plxna3	plexin A3 [Source:RGD Symbol;Acc:1584973]"	1.51
ENSRNOG00000004444	Ikzf1	IKAROS family zinc finger 1 [Source:RGDSymbol;Acc:130554]"	1.51
ENSRNOG00000013679	Sema4d	semaphorin 4D [Source:RGD Symbol;Acc:1310554]"	1.51
ENSRNOG00000024931	Ccdc88b	coiled-coil domain containing 88B [Source:RGDSymbol;Acc:130554]"	1.51
ENSRNOG00000016846	Pik3cd	phosphatidylinositol-4,5-bisphosphate 3-kinase,catalytic subunit 3 [Source:RGD Symbol;Acc:1306152]"	1.50
ENSRNOG00000005810	Nlrc4	NLR family, CARD domain containing 4 [Source:RGD Symbol;Acc:1306152]"	1.50
ENSRNOG00000015948	Slc1a5	solute carrier family 1 member 5 [Source:RGDSymbol;Acc:1306152]"	1.50
ENSRNOG00000020871	Ltbp4	latent transforming growth factor beta bindingprotein 4 [Source:RGD Symbol;Acc:1306152]"	1.50
ENSRNOG00000023428	Pik3r5	phosphoinositide-3-kinase, regulatory subunit 5[Source:RGD Symbol;Acc:1306152]"	1.50
ENSRNOG00000027747	Ninl	ninein-like [Source:RGD Symbol;Acc:1306152]"	1.49
ENSRNOG00000001216	Trpm2	transient receptor potential cation channel,subfamily M, member 2 [Source:RGD Symbol;Acc:1306152]"	1.49
ENSRNOG00000007338	Fbln2	fibulin 2 [Source:RGD Symbol;Acc:628685]"	1.49
ENSRNOG00000061264	AABR0705	-	1.49
ENSRNOG00000004698	Cd244	CD244 molecule [Source:RGD Symbol;Acc:68400]"	1.49
ENSRNOG00000003526	Syt14	synaptotagmin-like 4 [Source:RGD Symbol;Acc:6201]"	1.49
ENSRNOG00000006967	Xiap	X-linked inhibitor of apoptosis [Source:RGDSymbol;Acc:1306152]"	1.49
ENSRNOG00000053239	Clmp	CXADR-like membrane protein [Source:RGDSymbol;Acc:1306152]"	1.48
ENSRNOG00000045992	Tlr8	toll-like receptor 8 [Source:RGDSymbol;Acc:159032]"	1.48
ENSRNOG00000051706	Tep1	telomerase associated protein 1 [Source:RGDSymbol;Acc:1306152]"	1.48
ENSRNOG00000010018	Clec4a3	C-type lectin domain family 4, member A3 [Source:RGD Symbol;Acc:1306152]"	1.48
ENSRNOG00000021243	Siglec1	sialic acid binding Ig like lectin 1 [Source:RGDSymbol;Acc:1306152]"	1.48
ENSRNOG00000008425	Nav1	neuron navigator 1 [Source:RGD Symbol;Acc:159021]"	1.48
ENSRNOG00000058133	Ppm1n	protein phosphatase, Mg2+/Mn2+ dependent, 1N [Source:RGD Symbol;Acc:1306152]"	1.47
ENSRNOG00000028156	Pld1	phospholipase D1 [Source:RGD Symbol;Acc:3349]"	1.47
ENSRNOG00000023548	Sned1	sushi, nidogen and EGF-like domains 1 [Source:RGD Symbol;Acc:1306152]"	1.47
ENSRNOG00000037409	Scimp	SLP adaptor and CSK interacting membrane protein [Source:RGD Symbol;Acc:1306152]"	1.47
ENSRNOG0000004048	Lrrk2	leucine-rich repeat kinase 2 [Source:RGDSymbol;Acc:1306152]"	1.47
ENSRNOG00000011696	Lifr	leukemia inhibitory factor receptor alpha[Source:RGD Symbol;Acc:1306152]"	1.47
ENSRNOG00000007377	Slit3	slit guidance ligand 3 [Source:RGDSymbol;Acc:6931]"	1.47
ENSRNOG00000009211	C3ar1	complement C3a receptor 1 [Source:RGDSymbol;Acc:1306152]"	1.46
ENSRNOG00000008245	Ptgis	prostaglandin I2 synthase [Source:RGDSymbol;Acc:1306152]"	1.46
ENSRNOG0000006331	Elov15	ELOVL fatty acid elongase 5 [Source:RGDSymbol;Acc:1306152]"	1.46
ENSRNOG00000009491	Phc3	polyhomeotic homolog 3 [Source:RGDSymbol;Acc:1306152]"	1.46
ENSRNOG00000006952	Prex1	phosphatidylinositol-3,4,5-trisphosphate-dependentR [Source:RGD Symbol;Acc:1306152]"	1.46
ENSRNOG00000060614	Pxdn	peroxidasin [Source:RGD Symbol;Acc:1560694]"	1.45
ENSRNOG00000009448	Papln	papilin, proteoglycan-like sulfated glycoprotein[Source:RGD Symbol;Acc:1306152]"	1.45
ENSRNOG00000039204	Pram1	PML-RARA regulated adaptor molecule 1 [Source:RGD Symbol;Acc:1306152]"	1.45
ENSRNOG00000004398	Pkhd1l1	polycystic kidney and hepatic disease 1-like 1[Source:RGD Symbol;Acc:1306152]"	1.44
ENSRNOG00000028930	Dab2	DAB2, clathrin adaptor protein [Source:RGDSymbol;Acc:1306152]"	1.44
ENSRNOG00000019138	Clec11a	C-type lectin domain family 11, member A [Source:RGD Symbol;Acc:1306152]"	1.44
ENSRNOG00000017406	Atrnl1	attractin like 1 [Source:RGD Symbol;Acc:1563485]"	1.44
ENSRNOG00000011944	Snx10	sorting nexin 10 [Source:RGD Symbol;Acc:1305782]"	1.44
ENSRNOG00000006114	Bicc1	BicC family RNA binding protein 1 [Source:RGDSymbol;Acc:1306152]"	1.44
ENSRNOG00000016643	Lpcat2	lysophosphatidylcholine acyltransferase 2[Source:RGD Symbol;Acc:1306152]"	1.44
ENSRNOG00000061316	LOC102547	retinoic acid early-inducible protein 1-gamma-like[Source:RGD Symbol;Acc:1306152]"	1.44
ENSRNOG00000059140	Myo1g	myosin IG [Source:RGD Symbol;Acc:1306016]"	1.43
ENSRNOG00000061519	Asap2	ArfGAP with SH3 domain, ankyrin repeat and PH do [Source:RGD Symbol;Acc:1306152]"	1.43
ENSRNOG00000015858	Hyal1	hyaluronoglucosaminidase 1 [Source:RGDSymbol;Acc:1306152]"	1.43

ENSRNOG00000013917	Igslf10	immunoglobulin superfamily, member 10 [Source:RGD Symbol;Acc:1564216]"	1.43
ENSRNOG00000048222	Nlrc5	NLR family, CARD domain containing 5 [Source:RGD Symbol;Acc:1564216]"	1.43
ENSRNOG00000021441	Reln	reelin [Source:RGD Symbol;Acc:3553]"	1.43
ENSRNOG00000055293	Ptprb	protein tyrosine phosphatase, receptor type, B[Source:RGD Symbol;Acc:1564216]"	1.42
ENSRNOG00000005783	Dlg5	discs large MAGUK scaffold protein 5 [Source:RGD Symbol;Acc:1564216]"	1.42
ENSRNOG00000019018	Plat	plasminogen activator, tissue type [Source:RGDSymbol;Acc:1564216]"	1.42
ENSRNOG00000015911	Lrp5	LDL receptor related protein 5 [Source:RGDSymbol;Acc:1564216]"	1.42
ENSRNOG00000016117	Myof	myoferlin [Source:RGD Symbol;Acc:1564216]"	1.42
ENSRNOG00000000894	Fry	FRY microtubule binding protein [Source:RGDSymbol;Acc:1564216]"	1.42
ENSRNOG00000061739	Klrk1	killer cell lectin like receptor K1 [Source:RGDSymbol;Acc:1564216]"	1.42
ENSRNOG00000012580	Ccdc141	coiled-coil domain containing 141 [Source:RGDSymbol;Acc:1564216]"	1.42
ENSRNOG00000027808	Lilra5	leukocyte immunoglobulin-like receptor, subfamily A [Source:RGDSymbol;Acc:1564216]"	1.41
ENSRNOG00000019943	Slc7a6	solute carrier family 7 member 6 [Source:RGDSymbol;Acc:1564216]"	1.41
ENSRNOG00000015473	Phactr2	phosphatase and actin regulator 2 [Source:RGDSymbol;Acc:1564216]"	1.40
ENSRNOG00000056786	Piezo1	piezo-type mechanosensitive ion channel component [Source:RGDSymbol;Acc:1564216]"	1.39
ENSRNOG0000002470	Ifi47	interferon gamma inducible protein 47 [Source:RGD Symbol;Acc:1564216]"	1.39
ENSRNOG00000009826	Bche	butyrylcholinesterase [Source:RGD Symbol;Acc:6199]"	1.39
ENSRNOG00000048771	RGD155948	similar to immunoglobulin superfamily, member 7[Source:RGD Symbol;Acc:1564216]"	1.38
ENSRNOG00000054890	Flna	filamin A [Source:RGD Symbol;Acc:1560614]"	1.38
ENSRNOG00000013624	Uevld	UEV and lactate/malate dehydrogenase domains[Source:RGD Symbol;Acc:1564216]"	1.38
ENSRNOG00000023007	Col6a6	collagen type VI alpha 6 chain [Source:RGDSymbol;Acc:1564216]"	1.38
ENSRNOG00000028627	Hmcn1	hemicentin 1 [Source:RGD Symbol;Acc:1564772]"	1.38
ENSRNOG00000022305	Abcc1	ATP binding cassette subfamily C member 1[Source:RGD Symbol;Acc:1564216]"	1.38
ENSRNOG00000042607	Rhof	ras homolog family member F, filopodia associated[Source:RGD Symbol;Acc:1564216]"	1.38
ENSRNOG00000023473	Rnf122	ring finger protein 122 [Source:RGDSymbol;Acc:1564216]"	1.38
ENSRNOG00000029195	Uba7	ubiquitin-like modifier activating enzyme 7[Source:RGD Symbol;Acc:1564216]"	1.37
ENSRNOG00000024947	Fabp2	fatty acid binding protein 2 [Source:RGDSymbol;Acc:1564216]"	1.37
ENSRNOG00000023972	Col4a2	collagen type IV alpha 2 chain [Source:RGDSymbol;Acc:1564216]"	1.37
ENSRNOG00000018110	Svil	supervillin [Source:RGD Symbol;Acc:1306354]"	1.37
ENSRNOG00000002886	Myh10	myosin heavy chain 10 [Source:RGD Symbol;Acc:7144]"	1.37
ENSRNOG00000045626	Pkd1l2	polycystic kidney disease 1-like 2 [Source:RGDSymbol;Acc:1564216]"	1.37
ENSRNOG00000005390	Nup210	nucleoporin 210 [Source:RGD Symbol;Acc:69339]"	1.36
ENSRNOG00000000187	Csf2rb	colony stimulating factor 2 receptor beta commonsubunit [Source:RGD Symbol;Acc:1564216]"	1.36
ENSRNOG00000000245	Slc16a6	solute carrier family 16, member 6 [Source:RGDSymbol;Acc:1564216]"	1.36
ENSRNOG00000022533	Micall2	MICAL-like 2 [Source:RGD Symbol;Acc:1307875]"	1.36
ENSRNOG00000001478	Gtf2ird1	GTF2I repeat domain containing 1 [Source:RGDSymbol;Acc:1564216]"	1.35
ENSRNOG00000025558	Palm2	paralemmin 2 [Source:RGD Symbol;Acc:6497336]"	1.35
ENSRNOG00000006526	Sema3c	semaphorin 3C [Source:RGD Symbol;Acc:1309343]"	1.35
ENSRNOG00000011341	Rictor	RPTOR independent companion of MTOR, complex [Source:RGD Symbol;Acc:1564216]"	1.35
ENSRNOG00000006231	Ptpro	protein tyrosine phosphatase, receptor type, O[Source:RGD Symbol;Acc:1564216]"	1.35
ENSRNOG00000016281	Col4a1	collagen type IV alpha 1 chain [Source:RGDSymbol;Acc:1564216]"	1.35
ENSRNOG00000011947	Tifab	TIFA inhibitor [Source:RGD Symbol;Acc:1311681]"	1.34
ENSRNOG00000017172	Mvb12b	multivesicular body subunit 12B [Source:RGDSymbol;Acc:1564216]"	1.34
ENSRNOG00000011271	Mcc	mutated in colorectal cancers [Source:RGDSymbol;Acc:1564216]"	1.34
ENSRNOG00000017676	Plvap	plasmalemma vesicle associated protein [Source:RGD Symbol;Acc:1564216]"	1.34
ENSRNOG00000028207	Colgalt2	collagen beta(1-O)galactosyltransferase 2[Source:RGD Symbol;Acc:1564216]"	1.34
ENSRNOG00000052840	Tanc2	tetratricopeptide repeat, ankyrin repeat and coiled-coil domain containing 2 [Source:RGD Symbol;Acc:1564216]"	1.33
ENSRNOG00000021237	RGD156561	RGD1565616 [Source:RGD Symbol;Acc:1565616]"	1.33

ENSRNOG00000011566	Cecr2	CECR2, histone acetyl-lysine reader [Source:RGDSymbol;Acc:133]	1.33
ENSRNOG00000038881	Hcls1	hematopoietic cell specific Lyn substrate 1[Source:RGDSymbol;Acc:133]	1.33
ENSRNOG00000011073	Htt	huntingtin [Source:RGD Symbol;Acc:68337]"	1.33
ENSRNOG00000004332	Egfr	epidermal growth factor receptor [Source:RGDSymbol;Acc:133]	1.33
ENSRNOG00000028814	Oasl2	2'-5' oligoadenylate synthetase-like 2 [Source:RGDSymbol;Acc:133]	1.33
ENSRNOG00000033608	Cd276	Cd276 molecule [Source:RGD Symbol;Acc:727815]"	1.33
ENSRNOG00000010718	Gpr153	G protein-coupled receptor 153 [Source:RGDSymbol;Acc:132]	1.32
ENSRNOG00000008005	Akna	AT-hook transcription factor [Source:RGDSymbol;Acc:132]	1.32
ENSRNOG00000028768	Gbp4	guanylate binding protein 4 [Source:RGDSymbol;Acc:132]	1.32
ENSRNOG00000046905	Sgce	sarcoglycan, epsilon [Source:RGDSymbol;Acc:1303]	1.32
ENSRNOG00000002659	Ciita	class II, major histocompatibility complex,transactivator [Source:RGDSymbol;Acc:132]	1.32
ENSRNOG00000018382	Inpp4b	inositol polyphosphate-4-phosphatase type II B[Source:RGDSymbol;Acc:132]	1.32
ENSRNOG00000051440	Ppp1r12b	protein phosphatase 1, regulatory subunit 12B[Source:RGDSymbol;Acc:132]	1.32
ENSRNOG00000023122	Apol11a	apolipoprotein L 11a [Source:RGDSymbol;Acc:1309]	1.32
ENSRNOG00000011625	Tnks	tankyrase [Source:RGD Symbol;Acc:1308784]"	1.32
ENSRNOG00000031930	Bin2	bridging integrator 2 [Source:RGDSymbol;Acc:1306]	1.32
ENSRNOG00000004947	Zfp871	zinc finger protein 871 [Source:MGISymbol;Acc:MC00000004947]	1.31
ENSRNOG00000025053	Lrp1	LDL receptor related protein 1 [Source:RGDSymbol;Acc:1306]	1.31
ENSRNOG0000001926	Cldn1	claudin 1 [Source:RGD Symbol;Acc:68422]"	1.31
ENSRNOG00000004207	Eml5	echinoderm microtubule associated protein like 5[Source:RGDSymbol;Acc:1306]	1.31
ENSRNOG0000001971	Bbx	BBX, HMG-box containing [Source:RGDSymbol;Acc:1306]	1.31
ENSRNOG00000036711	Spn	sialophorin [Source:RGD Symbol;Acc:3750]"	1.30
ENSRNOG00000021892	Ccdc38	coiled-coil domain containing 38 [Source:RGDSymbol;Acc:1306]	1.30
ENSRNOG00000053577	Gramd1b	GRAM domain containing 1B [Source:RGDSymbol;Acc:1306]	1.30
ENSRNOG00000000528	Fgd2	FYVE, RhoGEF and PH domain containing 2 [Source:RGDSymbol;Acc:129]	1.29
ENSRNOG00000014004	Ncoa7	nuclear receptor coactivator 7 [Source:RGDSymbol;Acc:129]	1.29
ENSRNOG00000059938	AC120712.1-		1.29
ENSRNOG00000013802	Slc25a36	solute carrier family 25 member 36 [Source:RGDSymbol;Acc:129]	1.29
ENSRNOG0000002248	Fryl	FRY like transcription coactivator [Source:RGDSymbol;Acc:129]	1.29
ENSRNOG00000061262	Huwe1	HECT, UBA and WWE domain containing 1, E3 ubiquitin ligase [Source:RGDSymbol;Acc:129]	1.29
ENSRNOG0000005542	Apob	apolipoprotein B [Source:RGD Symbol;Acc:2129]"	1.29
ENSRNOG0000009037	Sulf1	sulfatase 1 [Source:RGD Symbol;Acc:708554]"	1.28
ENSRNOG00000023760	Plekhm3	pleckstrin homology domain containing M3 [Source:RGDSymbol;Acc:128]	1.28
ENSRNOG00000024907	Tnrc6b	trinucleotide repeat containing 6B [Source:RGDSymbol;Acc:128]	1.28
ENSRNOG00000050325	Adgre4	adhesion G protein-coupled receptor E4 [Source:RGDSymbol;Acc:127]	1.27
ENSRNOG00000017803	Apbb1ip	amyloid beta precursor protein binding family Bmember 1 [Source:RGDSymbol;Acc:126]	1.26
ENSRNOG00000011455	Slc36a4	solute carrier family 36 member 4 [Source:RGDSymbol;Acc:126]	1.26
ENSRNOG00000047967	Arhgef19	Rho guanine nucleotide exchange factor 19[Source:RGDSymbol;Acc:126]	1.26
ENSRNOG00000059479	Adcy1	adenylate cyclase 1 [Source:RGD Symbol;Acc:13093]	1.26
ENSRNOG00000030689	Ms4a6bl	membrane-spanning 4-domains, subfamily A, member 6 [Source:RGDSymbol;Acc:126]	1.26
ENSRNOG00000032708	RT1-Bb	RT1 class II, locus Bb [Source:RGD Symbol;Acc:346]	1.26
ENSRNOG00000046254	Adgre1	adhesion G protein-coupled receptor E1 [Source:RGDSymbol;Acc:126]	1.26
ENSRNOG00000012160	Syk	spleen associated tyrosine kinase [Source:RGDSymbol;Acc:125]	1.25
ENSRNOG0000000869	Arhgef6	Rac/Cdc42 guanine nucleotide exchange factor 6[Source:RGDSymbol;Acc:125]	1.25
ENSRNOG00000043128	Armcx4	armadillo repeat containing, X-linked 4 [Source:RGDSymbol;Acc:125]	1.25
ENSRNOG0000007033	Sorcs2	sortilin-related VPS10 domain containing receptor 2[Source:RGDSymbol;Acc:125]	1.25
ENSRNOG00000059705	Elmo1	engulfment and cell motility 1 [Source:RGDSymbol;Acc:124]	1.24
ENSRNOG00000017164	Afap1l2	actin filament associated protein 1-like 2[Source:RGDSymbol;Acc:124]	1.24

ENSRNOG00000003018	Olfml2b	olfactomedin-like 2B [Source:RGDSymbol;Acc:1309]	1.24
ENSRNOG00000013046	Tram2	translocation associated membrane protein 2[Source:	1.24
ENSRNOG00000014268	Abca2	ATP binding cassette subfamily A member 2[Source:	1.24
ENSRNOG00000031475	Col16a1	collagen type XVI alpha 1 chain [Source:RGDSymb	1.24
ENSRNOG00000016576	Carmil1	capping protein regulator and myosin 1 linker 1[Sour	1.24
ENSRNOG00000013993	AABR0700	-	1.23
ENSRNOG00000009912	Fgr	FGR proto-oncogene, Src family tyrosine kinase[Sou	1.23
ENSRNOG00000042070	Ticam2	toll-like receptor adaptor molecule 2 [Source:RGDSy	1.23
ENSRNOG00000026415	Col14a1	collagen type XIV alpha 1 chain [Source:RGDSymb	1.23
ENSRNOG00000011167	Wdhd1	WD repeat and HMG-box DNA binding protein 1[So	1.23
ENSRNOG00000055251	Prtg	proto-ogenin [Source:RGD Symbol;Acc:1307157]"	1.23
ENSRNOG00000042230	RGD130718	similar to RIKEN cDNA B430306N03 gene [Source:	1.23
ENSRNOG00000028380	Ccdc66	coiled-coil domain containing 66 [Source:RGDSymb	1.23
ENSRNOG00000029308	Lrmp	lymphoid-restricted membrane protein [Source:RGDS	1.23
ENSRNOG00000008332	Smo	smoothed, frizzled class receptor [Source:RGDSyn	1.23
ENSRNOG00000003003	Tbc1d19	TBC1 domain family, member 19 [Source:RGDSymb	1.22
ENSRNOG00000004489	Adgre5	adhesion G protein-coupled receptor E5 [Source:RG	1.22
ENSRNOG00000047218	Clic5	chloride intracellular channel 5 [Source:RGDSymbol	1.22
ENSRNOG00000038916	Dram1	DNA-damage regulated autophagy modulator 1[Sour	1.22
ENSRNOG00000021104	Emp3	epithelial membrane protein 3 [Source:RGDSymbol;A	1.22
ENSRNOG00000004057	Ccdc88a	coiled coil domain containing 88A [Source:RGDSym	1.22
ENSRNOG00000001431	Rasa4	RAS p21 protein activator 4 [Source:RGDSymbol;Ac	1.22
ENSRNOG00000007975	Ncoa2	nuclear receptor coactivator 2 [Source:RGDSymbol;A	1.22
ENSRNOG00000032788	Dysf	dysferlin [Source:RGD Symbol;Acc:1311023]"	1.22
ENSRNOG00000006338	Lrp6	LDL receptor related protein 6 [Source:RGDSymbol;	1.22
ENSRNOG00000049236	Myh9i1	myosin heavy chain 9-like 1 [Source:RGDSymbol;Ac	1.22
ENSRNOG00000007853	Prdm10	PR/SET domain 10 [Source:RGD Symbol;Acc:15603	1.21
ENSRNOG00000018865	Adamts12	ADAM metallopeptidase with thrombospondin type	1.21
ENSRNOG00000028781	Abcc6	ATP binding cassette subfamily C member 6[Source:	1.21
ENSRNOG00000008749	Col5a1	collagen type V alpha 1 chain [Source:RGDSymbol;A	1.21
ENSRNOG00000003736	Col5a2	collagen type V alpha 2 chain [Source:RGDSymbol;A	1.21
ENSRNOG00000060348	Zdhhc23	zinc finger, DHHC-type containing 23 [Source:RGDS	1.21
ENSRNOG00000008409	Myo1f	myosin IF [Source:RGD Symbol;Acc:1309750]"	1.21
ENSRNOG00000024000	Cd22	CD22 molecule [Source:RGD Symbol;Acc:1311610]	1.21
ENSRNOG00000018414	Csf1r	colony stimulating factor 1 receptor [Source:RGDSy	1.21
ENSRNOG00000018835	Notch2	notch 2 [Source:RGD Symbol;Acc:3188]"	1.21
ENSRNOG00000020689	Cpeb3	cytoplasmic polyadenylation element binding protein	1.21
ENSRNOG00000031197	F8	coagulation factor VIII [Source:RGDSymbol;Acc:72	1.21
ENSRNOG00000025502	Arhgef37	Rho guanine nucleotide exchange factor 37[Source:R	1.20
ENSRNOG00000013231	Ptafr	platelet-activating factor receptor [Source:RGDSymb	1.20
ENSRNOG00000008237	Unc13b	unc-13 homolog B [Source:RGD Symbol;Acc:61972	1.20
ENSRNOG00000054008	Scamp5	secretory carrier membrane protein 5 [Source:RGDSy	1.20
ENSRNOG00000012175	Nfatc2	nuclear factor of activated T-cells 2 [Source:RGDSy	1.20
ENSRNOG00000021586	Gpr39	G protein-coupled receptor 39 [Source:RGDSymbol;A	1.20
ENSRNOG00000038365	Plekha2	pleckstrin homology domain containing A2 [Source:F	1.20
ENSRNOG0000000190	Ep300	E1A binding protein p300 [Source:RGDSymbol;Acc:	1.20
ENSRNOG00000011015	Hivep2	human immunodeficiency virus type I enhancer bindi	1.20
ENSRNOG0000003538	Adamts4	ADAM metallopeptidase with thrombospondin type	1.19

ENSRNOG00000046005	Scd2	stearoyl-Coenzyme A desaturase 2 [Source:RGDSym	1.19
ENSRNOG0000002652	Rap1gap2	RAP1 GTPase activating protein 2 [Source:RGDSym	1.19
ENSRNOG00000023579	Tet2	tet methylcytosine dioxygenase 2 [Source:RGDSymb	1.19
ENSRNOG00000052064	Parvg	parvin, gamma [Source:RGD Symbol;Acc:1597417]"	1.19
ENSRNOG00000052296	Shank3	SH3 and multiple ankyrin repeat domains 3[Source:R	1.19
ENSRNOG00000027017	Rnasel	ribonuclease L [Source:RGD Symbol;Acc:727933]"	1.19
ENSRNOG00000012002	Iqgap1	IQ motif containing GTPase activating protein 1[Sou	1.19
ENSRNOG00000061403	Tlr13	toll-like receptor 13 [Source:RGDSymbol;Acc:15626	1.19
ENSRNOG00000027938	RGD156203	similar to OTTHUMP00000046255 [Source:RGDSy	1.18
ENSRNOG00000036673	Sectm1b	secreted and transmembrane 1B [Source:RGDSymb	1.18
ENSRNOG00000008586	Aldh1l2	aldehyde dehydrogenase 1 family, member L2[Sourc	1.18
ENSRNOG00000011411	Adgrg6	adhesion G protein-coupled receptor G6 [Source:RG	1.18
ENSRNOG00000005292	Trip11	thyroid hormone receptor interactor 11 [Source:RGD	1.18
ENSRNOG00000019555	Arap1	ArfGAP with RhoGAP domain, ankyrin repeat and P	1.18
ENSRNOG00000029756	P2ry13	purinergic receptor P2Y13 [Source:RGDSymbol;Acc	1.18
ENSRNOG00000025042	Pde3a	phosphodiesterase 3A [Source:RGD Symbol;Acc:619	1.18
ENSRNOG00000012756	Slc25a43	solute carrier family 25, member 43 [Source:RGDSy	1.17
ENSRNOG00000054515	Fgd6	FYVE, RhoGEF and PH domain containing 6 [Sourc	1.17
ENSRNOG0000005352	Elf4	E74 like ETS transcription factor 4 [Source:RGDSyn	1.17
ENSRNOG00000048870	St6galnac4	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransfer	1.17
ENSRNOG00000053450	Myadm	myeloid-associated differentiation marker[Source:RC	1.17
ENSRNOG00000038948	Stab2	stabilin 2 [Source:RGD Symbol;Acc:628822]"	1.17
ENSRNOG00000032240	Gbp5	guanylate binding protein 5 [Source:RGDSymbol;Ac	1.17
ENSRNOG00000010488	Zmiz1	zinc finger, MIZ-type containing 1 [Source:RGDSym	1.17
ENSRNOG00000042139	Clec4a1	C-type lectin domain family 4, member A1 [Source:R	1.16
ENSRNOG0000004660	Fzd6	frizzled class receptor 6 [Source:RGDSymbol;Acc:62	1.16
ENSRNOG00000032394	Tymp	thymidine phosphorylase [Source:RGDSymbol;Acc:1	1.16
ENSRNOG00000013140	Pdzd2	PDZ domain containing 2 [Source:RGDSymbol;Acc:	1.16
ENSRNOG00000012850	Kat6b	lysine acetyltransferase 6B [Source:RGDSymbol;Acc	1.16
ENSRNOG00000016408	Kirrel	kin of IRRE like (Drosophila) [Source:RGDSymbol;A	1.16
ENSRNOG00000011504	Akap2	A-kinase anchoring protein 2 [Source:RGDSymbol;A	1.16
ENSRNOG00000052665	Onecut2	one cut domain, family member 2 [Source:MGISymb	1.16
ENSRNOG00000017191	Trim30c	tripartite motif-containing 30C [Source:RGDSymbol;	1.16
ENSRNOG0000006646	Vopp1	vesicular, overexpressed in cancer, prosurvivalprotein	1.16
ENSRNOG00000028630	Ksr2	kinase suppressor of ras 2 [Source:RGDSymbol;Acc:	1.16
ENSRNOG00000032070	Dync2h1	dynein cytoplasmic 2 heavy chain 1 [Source:RGDSy	1.16
ENSRNOG00000017932	St3gal2	ST3 beta-galactoside alpha-2,3-sialyltransferase 2[So	1.15
ENSRNOG00000009074	AABR0701	-	1.15
ENSRNOG00000021240	Atrn	attractin [Source:RGD Symbol;Acc:69063]"	1.15
ENSRNOG00000025028	Prkdc	protein kinase, DNA activated, catalytic polypeptide	1.15
ENSRNOG00000030213	Vps13c	vacuolar protein sorting 13C [Source:RGDSymbol;A	1.15
ENSRNOG0000000695	Ssh1	slingshot protein phosphatase 1 [Source:RGDSymbol	1.15
ENSRNOG00000001111	Brca2	BRCA2, DNA repair associated [Source:RGDSymb	1.15
ENSRNOG00000024201	Fer1l5	fer-1-like family member 5 [Source:RGDSymbol;Acc	1.14
ENSRNOG0000003357	Col3a1	collagen type III alpha 1 chain [Source:RGDSymbol;	1.14
ENSRNOG00000008115	Arhgap11a	Rho GTPase activating protein 11A [Source:RGDSy	1.14
ENSRNOG0000002061	Ptpn13	protein tyrosine phosphatase, non-receptor type 13[So	1.14
ENSRNOG00000009385	Pik3cg	phosphatidylinositol-4,5-bisphosphate 3-kinase,cataly	1.14

ENSRNOG00000020505	Map4k1	mitogen activated protein kinase kinase kinase	1.14
ENSRNOG00000026319	Akap9	A-kinase anchoring protein 9 [Source:RGDSymbol;Acc:1311502]	1.14
ENSRNOG00000017017	Zbtb43	zinc finger and BTB domain containing 43 [Source:RGDSymbol;Acc:1311502]	1.14
ENSRNOG00000002657	Pla2g4a	phospholipase A2 group IVA [Source:RGDSymbol;Acc:1311502]	1.14
ENSRNOG00000010484	Zdhhc21	zinc finger, DHHC-type containing 21 [Source:RGDSymbol;Acc:1311502]	1.13
ENSRNOG00000021657	Pld6	phospholipase D family, member 6 [Source:RGDSymbol;Acc:1311502]	1.13
ENSRNOG00000010536	Nr2c2	nuclear receptor subfamily 2, group C, member 2 [Source:RGDSymbol;Acc:1311502]	1.13
ENSRNOG00000003882	Cep350	centrosomal protein 350 [Source:RGDSymbol;Acc:6111]	1.13
ENSRNOG00000013718	Herc2	HECT and RLD domain containing E3 ubiquitin protein ligase 2 [Source:RGDSymbol;Acc:1311502]	1.13
ENSRNOG00000006718	Rbm33	RNA binding motif protein 33 [Source:RGDSymbol;Acc:1311502]	1.12
ENSRNOG00000024402	Focad	focal adhesion [Source:RGD Symbol;Acc:1311849]"	1.12
ENSRNOG00000004033	Sema6a	semaphorin 6A [Source:RGD Symbol;Acc:1305493]	1.12
ENSRNOG00000001255	Mlxip	MLX interacting protein [Source:RGDSymbol;Acc:1311502]	1.12
ENSRNOG00000051922	-	-	1.12
ENSRNOG00000025539	Vps13a	vacuolar protein sorting 13A [Source:RGDSymbol;Acc:1311502]	1.12
ENSRNOG00000027756	Usf3	upstream transcription factor family member 3 [Source:RGDSymbol;Acc:1311502]	1.11
ENSRNOG00000011213	Blm	Bloom syndrome RecQ like helicase [Source:RGDSymbol;Acc:1311502]	1.11
ENSRNOG00000011669	Gstcd	glutathione S-transferase, C-terminal domaincontaining 1 [Source:RGDSymbol;Acc:1311502]	1.11
ENSRNOG00000008758	Tspan18	tetraspanin 18 [Source:RGD Symbol;Acc:1560411]"	1.11
ENSRNOG00000022343	Alms1	ALMS1, centrosome and basal body associated protein [Source:RGDSymbol;Acc:1311502]	1.11
ENSRNOG00000020060	Atf5	activating transcription factor 5 [Source:RGDSymbol;Acc:1311502]	1.11
ENSRNOG00000006583	Hpgds	hematopoietic prostaglandin D synthase [Source:RGDSymbol;Acc:1311502]	1.11
ENSRNOG00000019154	Zmynd8	zinc finger, MYND-type containing 8 [Source:RGDSymbol;Acc:1311502]	1.11
ENSRNOG00000018372	Cul9	cullin 9 [Source:RGD Symbol;Acc:1562008]"	1.11
ENSRNOG00000005620	Lcp2	lymphocyte cytosolic protein 2 [Source:RGDSymbol;Acc:1311502]	1.11
ENSRNOG00000053550	Itga1	integrin subunit alpha 1 [Source:RGDSymbol;Acc:2911]	1.11
ENSRNOG00000012148	Trio	trio Rho guanine nucleotide exchange factor [Source:RGDSymbol;Acc:1311502]	1.10
ENSRNOG00000017154	Atp11a	ATPase phospholipid transporting 11A [Source:RGDSymbol;Acc:1311502]	1.10
ENSRNOG00000032396	RGD155951	similar to novel protein [Source:RGDSymbol;Acc:1562008]"	1.10
ENSRNOG00000060179	Gpc3	glypican 3 [Source:RGD Symbol;Acc:2725]"	1.10
ENSRNOG00000022753	Mast3	microtubule associated serine/threonine kinase 3 [Source:RGDSymbol;Acc:1311502]	1.10
ENSRNOG0000003622	Cybb	cytochrome b-245 beta chain [Source:RGDSymbol;Acc:1311502]	1.10
ENSRNOG00000012864	Ern1	endoplasmic reticulum to nucleus signaling 1 [Source:RGDSymbol;Acc:1311502]	1.10
ENSRNOG00000017020	Inpp5d	inositol polyphosphate-5-phosphatase D [Source:RGDSymbol;Acc:1311502]	1.10
ENSRNOG0000002461	Nid1	nidogen 1 [Source:RGD Symbol;Acc:3178]"	1.10
ENSRNOG00000060615	Rai1	retinoic acid induced 1 [Source:RGDSymbol;Acc:1311502]	1.10
ENSRNOG00000042536	Pde4d	phosphodiesterase 4D [Source:RGD Symbol;Acc:3281]	1.10
ENSRNOG00000026435	Arid3a	AT-rich interaction domain 3A [Source:RGDSymbol;Acc:1311502]	1.09
ENSRNOG0000003213	Helz	helicase with zinc finger [Source:RGDSymbol;Acc:1311502]	1.09
ENSRNOG00000039971	Ctla2a	cytotoxic T lymphocyte-associated protein 2 alpha [Source:RGDSymbol;Acc:1311502]	1.09
ENSRNOG0000000699	Selplg	selectin P ligand [Source:RGD Symbol;Acc:1307971]	1.09
ENSRNOG00000027906	Ankrd11	ankyrin repeat domain 11 [Source:RGDSymbol;Acc:1311502]	1.09
ENSRNOG0000004458	Ston2	stonin 2 [Source:RGD Symbol;Acc:1311502]"	1.09
ENSRNOG00000013089	Kif13b	kinesin family member 13B [Source:RGDSymbol;Acc:1311502]	1.09
ENSRNOG00000007415	Ptgs1	prostaglandin-endoperoxide synthase 1 [Source:RGDSymbol;Acc:1311502]	1.09
ENSRNOG00000013388	Pgap1	post-GPI attachment to proteins 1 [Source:RGDSymbol;Acc:1311502]	1.08
ENSRNOG00000014368	Eif4g3	eukaryotic translation initiation factor 4 gamma, 3 [Source:RGDSymbol;Acc:1311502]	1.08
ENSRNOG00000014285	Ssh2	slingshot protein phosphatase 2 [Source:RGDSymbol;Acc:1311502]	1.08

ENSRNOG00000000648	Jmjd1c	jumonji domain containing 1C [Source:RGDSymbol;Acc:130296]	1.08
ENSRNOG00000016879	Ldlrad4	low density lipoprotein receptor class A domaincontaining 4	1.08
ENSRNOG00000036964	Ralgapa2	Ral GTPase activating protein catalytic alphasubunit	1.08
ENSRNOG00000021719	Slfn5	schlafen family member 5 [Source:RGDSymbol;Acc:130296]	1.08
ENSRNOG00000022975	Nfam1	NFAT activating protein with ITAM motif 1[Source:RGDSymbol;Acc:130296]	1.08
ENSRNOG00000033119	Plcb4	phospholipase C, beta 4 [Source:RGDSymbol;Acc:3306]"	1.08
ENSRNOG00000008816	Gpnmb	glycoprotein nmb [Source:RGD Symbol;Acc:71008]"	1.08
ENSRNOG00000012561	Arhgef10	Rho guanine nucleotide exchange factor 10[Source:RGDSymbol;Acc:130296]	1.08
ENSRNOG00000016294	Cd4	Cd4 molecule [Source:RGD Symbol;Acc:2306]"	1.07
ENSRNOG00000000942	Pan3	PAN3 poly(A) specific ribonuclease subunit[Source:RGDSymbol;Acc:130296]	1.07
ENSRNOG00000020865	Ano1	anoctamin 1 [Source:RGD Symbol;Acc:1310786]"	1.07
ENSRNOG00000032660	Adgrl2	adhesion G protein-coupled receptor L2 [Source:RGDSymbol;Acc:130296]	1.07
ENSRNOG00000002180	Tbc1d1	TBC1 domain family member 1 [Source:RGDSymbol;Acc:130296]	1.07
ENSRNOG00000015977	Zfp609	zinc finger protein 609 [Source:RGDSymbol;Acc:1506]"	1.07
ENSRNOG00000016488	Pltp	phospholipid transfer protein [Source:RGDSymbol;Acc:130296]"	1.07
ENSRNOG00000014530	Nav2	neuron navigator 2 [Source:RGD Symbol;Acc:61977]"	1.07
ENSRNOG00000014311	Slc7a8	solute carrier family 7 member 8 [Source:RGDSymbol;Acc:130296]	1.07
ENSRNOG00000002122	Lrrc8c	leucine rich repeat containing 8 family, member C[Source:RGDSymbol;Acc:130296]	1.07
ENSRNOG00000037604	Ascc3	activating signal cointegrator 1 complex subunit 3[Source:RGDSymbol;Acc:130296]	1.07
ENSRNOG00000002736	Rabgap1l	RAB GTPase activating protein 1-like [Source:RGDSymbol;Acc:130296]	1.07
ENSRNOG00000022871	LOC691170	similar to zinc finger protein 84 (HPF2) [Source:RGDSymbol;Acc:130296]	1.06
ENSRNOG00000013780	Nf1	neurofibromin 1 [Source:RGD Symbol;Acc:3168]"	1.06
ENSRNOG00000012772	Nqo1	NAD(P)H quinone dehydrogenase 1 [Source:RGDSymbol;Acc:130296]	1.06
ENSRNOG00000010964	Akap13	A-kinase anchoring protein 13 [Source:RGDSymbol;Acc:130296]	1.06
ENSRNOG00000005868	Ttc21b	tetratricopeptide repeat domain 21B [Source:RGDSymbol;Acc:130296]	1.06
ENSRNOG00000005196	Slc12a6	solute carrier family 12, member 6 [Source:RGDSymbol;Acc:130296]	1.06
ENSRNOG00000008016	Ckap4	cytoskeleton-associated protein 4 [Source:RGDSymbol;Acc:130296]	1.06
ENSRNOG00000007984	Amer1	APC membrane recruitment protein 1 [Source:RGDSymbol;Acc:130296]	1.06
ENSRNOG00000021259	Prnp	prion protein [Source:RGD Symbol;Acc:3410]"	1.05
ENSRNOG00000009046	Phf13	PHD finger protein 13 [Source:RGDSymbol;Acc:130296]	1.05
ENSRNOG00000002208	Shroom3	shroom family member 3 [Source:RGDSymbol;Acc:130296]	1.05
ENSRNOG00000000341	Nid2	nidogen 2 [Source:RGD Symbol;Acc:1311685]"	1.05
ENSRNOG00000037165	Nipal3	NIPA-like domain containing 3 [Source:RGDSymbol;Acc:130296]	1.05
ENSRNOG00000019689	Vwf	von Willebrand factor [Source:RGDSymbol;Acc:621]"	1.05
ENSRNOG00000009145	Klf12	Kruppel-like factor 12 [Source:RGDSymbol;Acc:130296]	1.05
ENSRNOG00000007462	Sept8	septin 8 [Source:RGD Symbol;Acc:1308449]"	1.05
ENSRNOG00000004677	Zeb2	zinc finger E-box binding homeobox 2 [Source:RGDSymbol;Acc:130296]	1.05
ENSRNOG00000055567	Fmn12	formin-like 2 [Source:RGD Symbol;Acc:1560248]"	1.05
ENSRNOG00000031743	Gbp2	guanylate binding protein 2 [Source:RGDSymbol;Acc:130296]	1.05
ENSRNOG00000018461	Pdgfrb	platelet derived growth factor receptor beta[Source:RGDSymbol;Acc:130296]	1.05
ENSRNOG00000019604	Pld2	phospholipase D2 [Source:RGD Symbol;Acc:3350]"	1.04
ENSRNOG00000052894	Epg5	ectopic P-granules autophagy protein 5 homolog[Source:RGDSymbol;Acc:130296]	1.04
ENSRNOG00000029938	Pik3c2b	phosphatidylinositol-4-phosphate 3-kinase, catalytic	1.04
ENSRNOG00000009812	Sbf2	SET binding factor 2 [Source:RGDSymbol;Acc:1588]"	1.04
ENSRNOG0000001804	Itpr2	inositol 1,4,5-trisphosphate receptor, type 2[Source:RGDSymbol;Acc:130296]	1.04
ENSRNOG00000019956	Kdm4a	lysine demethylase 4A [Source:RGDSymbol;Acc:130296]	1.04
ENSRNOG00000018683	Dock1	dedicator of cyto-kinesis 1 [Source:RGDSymbol;Acc:130296]	1.04
ENSRNOG00000033245	Mug2	murinoglobulin 2 [Source:RGD Symbol;Acc:130296]	1.03

ENSRNOG00000015396	Sptan1	spectrin, alpha, non-erythrocytic 1 [Source:RGDSymbol;Acc:131097]	1.03
ENSRNOG00000010658	LOC103691	cystathione gamma-lyase [Source:RGDSymbol;Acc:131097]	1.03
ENSRNOG00000010529	Thbs2	thrombospondin 2 [Source:RGD Symbol;Acc:131097]	1.03
ENSRNOG00000007690	Cmpk2	cytidine/uridine monophosphate kinase 2 [Source:RGD Symbol;Acc:131097]	1.03
ENSRNOG00000002347	Rgl1	ral guanine nucleotide dissociation stimulator,-like1 [Source:RGD Symbol;Acc:131097]	1.03
ENSRNOG00000004679	Fign	fidgetin, microtubule severing factor [Source:RGDSymbol;Acc:131097]	1.03
ENSRNOG00000015411	Apobec1	apolipoprotein B mRNA editing enzyme catalytic subunit 1 [Source:RGD Symbol;Acc:131097]	1.02
ENSRNOG00000002680	Lamc1	laminin subunit gamma 1 [Source:RGDSymbol;Acc:131097]	1.02
ENSRNOG000000029242	Plekho2	pleckstrin homology domain containing O2 [Source:RGD Symbol;Acc:131097]	1.02
ENSRNOG00000061595	Tfec	transcription factor EC [Source:RGDSymbol;Acc:38449]	1.02
ENSRNOG00000010516	Plau	plasminogen activator, urokinase [Source:RGDSymbol;Acc:131097]	1.02
ENSRNOG00000043102	Bahcc1	BAH domain and coiled-coil containing 1 [Source:RGD Symbol;Acc:131097]	1.02
ENSRNOG0000003217	Lgals3bp	galectin 3 binding protein [Source:RGDSymbol;Acc:131097]	1.02
ENSRNOG00000020456	Nucb2	nucleobindin 2 [Source:RGD Symbol;Acc:620888]"	1.02
ENSRNOG00000026942	RGD131159	similar to KIAA2026 protein [Source:RGDSymbol;Acc:131097]	1.01
ENSRNOG00000039890	Abcg3l3	ATP-binding cassette, subfamily G (WHITE), member 3 [Source:RGD Symbol;Acc:131097]	1.01
ENSRNOG00000016744	Chd6	chromodomain helicase DNA binding protein 6 [Source:RGD Symbol;Acc:131097]	1.01
ENSRNOG00000045679	Apoa1	apolipoprotein A1 [Source:RGD Symbol;Acc:2130]"	1.01
ENSRNOG00000018911	Pfkfb3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase [Source:RGD Symbol;Acc:131097]	1.01
ENSRNOG00000001004	Ncor2	nuclear receptor co-repressor 2 [Source:RGDSymbol;Acc:131097]	1.01
ENSRNOG00000009795	Nfib	nuclear factor I/B [Source:RGD Symbol;Acc:62015]"	1.01
ENSRNOG00000013589	Cxcl12	C-X-C motif chemokine ligand 12 [Source:RGDSymbol;Acc:131097]	1.01
ENSRNOG00000002487	Mbnl3	muscleblind-like splicing regulator 3 [Source:RGDSymbol;Acc:131097]	1.01
ENSRNOG00000055010	Axin2	axin 2 [Source:RGD Symbol;Acc:69259]"	1.00
ENSRNOG00000042679	Lcor	ligand dependent nuclear receptor corepressor [Source:RGD Symbol;Acc:131097]	1.00
ENSRNOG00000016680	Nsd1	nuclear receptor binding SET domain protein 1 [Source:RGD Symbol;Acc:131097]	1.00
ENSRNOG00000037911	LOC680227	LRRGT00193 [Source:RGD Symbol;Acc:1594204]"	1.00
ENSRNOG0000007894	Mpdz	multiple PDZ domain crumbs cell polarity complex component [Source:RGD Symbol;Acc:131097]	1.00
ENSRNOG00000025670	Shisa3	shisa family member 3 [Source:RGDSymbol;Acc:15649]	1.00
ENSRNOG00000032917	Zfand2a	zinc finger AN1-type containing 2A [Source:RGDSymbol;Acc:131097]	-1.00
ENSRNOG00000017810	Uros	uroporphyrinogen III synthase [Source:RGDSymbol;Acc:131097]	-1.00
ENSRNOG00000009920	LOC680121	similar to heat shock protein 8 [Source:RGD Symbol;Acc:131097]	-1.00
ENSRNOG00000033765	Eif1	eukaryotic translation initiation factor 1 [Source:RGD Symbol;Acc:131097]	-1.00
ENSRNOG00000019106	Rps17	ribosomal protein S17 [Source:RGD Symbol;Acc:62015]	-1.00
ENSRNOG00000042720	Mrpl28	mitochondrial ribosomal protein L28 [Source:RGDSymbol;Acc:131097]	-1.01
ENSRNOG0000006744	Acyp1	acylphosphatase 1 [Source:RGD Symbol;Acc:131132]	-1.01
ENSRNOG00000013390	Kbtbd8	kelch repeat and BTB domain containing 8 [Source:RGD Symbol;Acc:131097]	-1.01
ENSRNOG00000033076	Thns1l	threonine synthase-like 1 [Source:RGDSymbol;Acc:131097]	-1.01
ENSRNOG00000032575	Ocel1	occludin/ELL domain containing 1 [Source:RGDSymbol;Acc:131097]	-1.01
ENSRNOG00000051792	LOC689959	hypothetical protein LOC689959 [Source:RGDSymbol;Acc:131097]	-1.01
ENSRNOG00000018812	Rpp25	ribonuclease P/MRP 25 subunit [Source:RGDSymbol;Acc:131097]	-1.02
ENSRNOG00000017843	Polr3k	RNA polymerase III subunit K [Source:RGD Symbol;Acc:131097]	-1.02
ENSRNOG00000036686	Anapc11	anaphase promoting complex subunit 11 [Source:RGD Symbol;Acc:131097]	-1.02
ENSRNOG00000034066	Hspa8	heat shock protein family A (Hsp70) member 8 [Source:RGD Symbol;Acc:131097]	-1.03
ENSRNOG0000006304	Mdm2	MDM2 proto-oncogene [Source:RGD Symbol;Acc:131097]	-1.03
ENSRNOG00000013133	Foxa2	forkhead box A2 [Source:RGD Symbol;Acc:2808]"	-1.03
ENSRNOG00000011300	Lama3	laminin subunit alpha 3 [Source:RGDSymbol;Acc:62015]	-1.03
ENSRNOG00000018848	Eif1b	eukaryotic translation initiation factor 1B [Source:RGD Symbol;Acc:131097]	-1.03

ENSRNOG00000020571	Mpg	N-methylpurine-DNA glycosylase [Source:RGDSym]	-1.03
ENSRNOG0000002828	Tob1	transducer of ErbB-2.1 [Source:RGDSymbol;Acc:62]	-1.04
ENSRNOG00000029627	LOC100362	ribosomal protein S20-like [Source:RGDSymbol;Acc:62]	-1.04
ENSRNOG00000029861	Gsta2	glutathione S-transferase alpha 2 [Source:RGDSymbol;Acc:62]	-1.04
ENSRNOG0000003269	Atp6v0e1	ATPase H <sup>+</sup> transporting V0 subunit e1 [Source:RGDSymbol;Acc:62]	-1.04
ENSRNOG00000016560	Card19	caspase recruitment domain family, member 19 [Source:RGDSymbol;Acc:62]	-1.04
ENSRNOG00000048291	Tbcc	tubulin folding cofactor C [Source:RGDSymbol;Acc:62]	-1.04
ENSRNOG00000015366	Neurl3	neuralized E3 ubiquitin protein ligase 3 [Source:RGDSymbol;Acc:62]	-1.04
ENSRNOG00000011771	Ptp4a1	protein tyrosine phosphatase type IVA, member 1 [Source:RGDSymbol;Acc:62]	-1.05
ENSRNOG0000001820	Med21	mediator complex subunit 21 [Source:RGDSymbol;Acc:62]	-1.05
ENSRNOG00000021338	Tmem132a	transmembrane protein 132A [Source:RGDSymbol;Acc:62]	-1.05
ENSRNOG00000033583	LOC100910	zinc finger protein 709-like [Source:RGDSymbol;Acc:62]	-1.06
ENSRNOG0000000585	Amd1	adenosylmethionine decarboxylase 1 [Source:RGDSymbol;Acc:62]	-1.06
ENSRNOG00000060899	AABR0704	-	-1.06
ENSRNOG00000017955	Nudt8	nudix hydrolase 8 [Source:RGD Symbol;Acc:130904]	-1.06
ENSRNOG00000054563	Selenoh	selenoprotein H [Source:RGD Symbol;Acc:1563348]	-1.06
ENSRNOG00000008569	Ndufa6	NADH:ubiquinone oxidoreductase subunit A6 [Source:RGD Symbol;Acc:1563348]	-1.06
ENSRNOG00000020830	LOC108348	nesprin-4 [Source:RGD Symbol;Acc:11504732]"	-1.06
ENSRNOG0000003510	Fmo2	flavin containing monooxygenase 2 [Source:RGDSymbol;Acc:130599]	-1.07
ENSRNOG00000019330	Procr	protein C receptor [Source:RGD Symbol;Acc:130599]	-1.07
ENSRNOG00000057080	-	-	-1.07
ENSRNOG00000017188	Cyp27a1	cytochrome P450, family 27, subfamily a, polypeptide 1 [Source:RGDSymbol;Acc:130599]	-1.07
ENSRNOG00000029470	LOC685619	similar to TP53-regulating kinase (p53-relatedprotein) [Source:RGDSymbol;Acc:130599]	-1.08
ENSRNOG00000028063	Tmem38b	transmembrane protein 38B [Source:RGDSymbol;Acc:130599]	-1.08
ENSRNOG00000016575	Tnfrsf1b	TNF receptor superfamily member 1B [Source:RGDSymbol;Acc:130599]	-1.08
ENSRNOG00000022392	Hspb8	heat shock protein family B (small) member 8 [Source:RGDSymbol;Acc:130599]	-1.08
ENSRNOG00000013092	Lonrf3	LON peptidase N-terminal domain and ring finger 3 [Source:RGDSymbol;Acc:130599]	-1.08
ENSRNOG0000000177	Plpp2	phospholipid phosphatase 2 [Source:RGDSymbol;Acc:130599]	-1.09
ENSRNOG00000029077	Dpm3	dolichyl-phosphate mannosyltransferase subunit 3 [Source:RGDSymbol;Acc:130599]	-1.09
ENSRNOG0000000827	Ier3	immediate early response 3 [Source:RGDSymbol;Acc:130599]	-1.10
ENSRNOG0000003228	Mid1ip1	MID1 interacting protein 1 [Source:RGDSymbol;Acc:130599]	-1.10
ENSRNOG0000006663	Usp2	ubiquitin specific peptidase 2 [Source:RGDSymbol;Acc:130599]	-1.10
ENSRNOG00000037690	Sertad3	SERTA domain containing 3 [Source:RGDSymbol;Acc:130599]	-1.11
ENSRNOG00000011530	Fam188b	family with sequence similarity 188, member B [Source:RGDSymbol;Acc:130599]	-1.11
ENSRNOG00000020626	Snrnp25	small nuclear ribonucleoprotein U11/U12 subunit 25 [Source:RGDSymbol;Acc:130599]	-1.11
ENSRNOG00000058478	Mapk8ip1	mitogen-activated protein kinase 8 interactingprotein [Source:RGDSymbol;Acc:130599]	-1.11
ENSRNOG0000006369	Alg2	ALG2, alpha-1,3/1,6-mannosyltransferase [Source:RGDSymbol;Acc:130599]	-1.12
ENSRNOG00000013728	Polg2	DNA polymerase gamma 2, accessory subunit [Source:RGDSymbol;Acc:130599]	-1.12
ENSRNOG00000013464	Spink1	serine peptidase inhibitor, Kazal type 1 [Source:RGDSymbol;Acc:130599]	-1.12
ENSRNOG00000028685	Shf	Src homology 2 domain containing F [Source:RGDSymbol;Acc:130599]	-1.12
ENSRNOG0000009536	Pgp	phosphoglycolate phosphatase [Source:RGDSymbol;Acc:130599]	-1.13
ENSRNOG00000016961	Rps27	ribosomal protein S27 [Source:RGDSymbol;Acc:621]	-1.13
ENSRNOG00000019484	Slc6a9	solute carrier family 6 member 9 [Source:RGDSymbol;Acc:621]	-1.13
ENSRNOG00000033740	Lurap11	leucine rich adaptor protein 1-like [Source:RGDSymbol;Acc:621]	-1.13
ENSRNOG0000002012	Donson	downstream neighbor of SON [Source:RGDSymbol;Acc:621]	-1.14
ENSRNOG00000014700	Ttc36	tetratricopeptide repeat domain 36 [Source:RGDSymbol;Acc:621]	-1.14
ENSRNOG00000030273	Zfp563	zinc finger protein 563 [Source:RGDSymbol;Acc:130599]	-1.14
ENSRNOG00000032560	Cyp3a23/3a	cytochrome P450, family 3, subfamily a, polypeptide 1 [Source:RGDSymbol;Acc:130599]	-1.14

ENSRNOG00000025930	Chst13	carbohydrate sulfotransferase 13 [Source:RGDSymbol;Acc:1309187]"	-1.14
ENSRNOG00000003500	Apoa2	apolipoprotein A2 [Source:RGD Symbol;Acc:2131]"	-1.14
ENSRNOG00000006302	Gclc	glutamate-cysteine ligase, catalytic subunit[Source:RGD Symbol;Acc:1309187]"	-1.14
ENSRNOG00000047578	Ccdc28b	coiled coil domain containing 28B [Source:RGDSymbol;Acc:1309187]"	-1.15
ENSRNOG00000020117	LOC108348	breast cancer metastasis-suppressor 1 homolog[Source:RGD Symbol;Acc:1309187]"	-1.15
ENSRNOG00000021185	Bola1	bolA family member 1 [Source:RGDSymbol;Acc:1309187]"	-1.15
ENSRNOG00000003232	Slc9a3r1	SLC9A3 regulator 1 [Source:RGD Symbol;Acc:7085]"	-1.15
ENSRNOG00000015003	Pex11a	peroxisomal biogenesis factor 11 alpha [Source:RGD Symbol;Acc:1309187]"	-1.15
ENSRNOG00000033433	Csrnp1	cysteine and serine rich nuclear protein 1[Source:RGD Symbol;Acc:1309187]"	-1.15
ENSRNOG00000062279	Cln5	ceroid-lipofuscinosis, neuronal 5 [Source:RGDSymbol;Acc:1309187]"	-1.15
ENSRNOG00000047821	Smlr1	small leucine-rich protein 1 [Source:RGDSymbol;Acc:1309187]"	-1.15
ENSRNOG00000021156	Vegfb	vascular endothelial growth factor B [Source:RGDSymbol;Acc:1309187]"	-1.16
ENSRNOG00000031950	Izumo4	IZUMO family member 4 [Source:RGDSymbol;Acc:1309187]"	-1.17
ENSRNOG00000001009	Bri3	brain protein I3 [Source:RGD Symbol;Acc:1309187]"	-1.17
ENSRNOG00000046480	Zfp764	zinc finger protein 764 [Source:RGDSymbol;Acc:1598126]"	-1.17
ENSRNOG00000016231	Polr2d	RNA polymerase II subunit D [Source:RGDSymbol;Acc:1309187]"	-1.18
ENSRNOG00000015519	Ces1d	carboxylesterase 1D [Source:RGD Symbol;Acc:7089]"	-1.19
ENSRNOG0000004608	Pam16	presequence translocase associated motor 16 homolog [Source:RGD Symbol;Acc:1309187]"	-1.19
ENSRNOG00000018774	Rps14	ribosomal protein S14 [Source:RGD Symbol;Acc:6209]"	-1.19
ENSRNOG00000027722	H1fx	H1 histone family, member X [Source:RGDSymbol;Acc:1309187]"	-1.19
ENSRNOG00000011559	Cnn3	calponin 3 [Source:RGD Symbol;Acc:71044]"	-1.19
ENSRNOG00000043416	Bcl3	B-cell CLL/lymphoma 3 [Source:RGDSymbol;Acc:1309187]"	-1.21
ENSRNOG00000050404	Pmepa1	prostate transmembrane protein, androgen induced 1 [Source:RGD Symbol;Acc:1309187]"	-1.21
ENSRNOG00000029881	Clec4m	C-type lectin domain family 4 member M [Source:RGD Symbol;Acc:1309187]"	-1.21
ENSRNOG00000014870	Slc13a5	solute carrier family 13 member 5 [Source:RGDSymbol;Acc:1309187]"	-1.21
ENSRNOG00000011612	Tdo2	tryptophan 2,3-dioxygenase [Source:RGDSymbol;Acc:1309187]"	-1.21
ENSRNOG00000011290	Tm2d3	TM2 domain containing 3 [Source:RGDSymbol;Acc:1309187]"	-1.21
ENSRNOG0000001555	Btg3	BTG anti-proliferation factor 3 [Source:RGDSymbol;Acc:1309187]"	-1.22
ENSRNOG00000031167	Srxn1	sulfiredoxin 1 [Source:RGD Symbol;Acc:1307332]"	-1.22
ENSRNOG00000033623	Pigx	phosphatidylinositol glycan anchor biosynthesis, class E [Source:RGD Symbol;Acc:1309187]"	-1.22
ENSRNOG00000010017	Wee1	WEE1 G2 checkpoint kinase [Source:RGDSymbol;Acc:1309187]"	-1.22
ENSRNOG00000047089	Alkbh7	alkB homolog 7 [Source:RGD Symbol;Acc:1598126]"	-1.23
ENSRNOG00000027949	Rfx6	regulatory factor X, 6 [Source:RGDSymbol;Acc:1309187]"	-1.23
ENSRNOG00000047714	Tmem37	transmembrane protein 37 [Source:RGDSymbol;Acc:1309187]"	-1.23
ENSRNOG00000021824	Dnajb1	DnaJ heat shock protein family (Hsp40) member B1 [Source:RGD Symbol;Acc:1309187]"	-1.23
ENSRNOG00000029678	Znf354b	zinc finger protein 354B [Source:RGDSymbol;Acc:1309187]"	-1.23
ENSRNOG00000049604	Mvk	mevalonate kinase [Source:RGD Symbol;Acc:62129]"	-1.23
ENSRNOG00000010589	LOC103689	protein FAM134B [Source:RGD Symbol;Acc:93909]"	-1.23
ENSRNOG00000016392	Zfp593	zinc finger protein 593 [Source:RGDSymbol;Acc:1309187]"	-1.24
ENSRNOG00000006341	Saysd1	SAYSVFN motif domain containing 1 [Source:RGD Symbol;Acc:1309187]"	-1.24
ENSRNOG00000059406	Ier5	immediate early response 5 [Source:RGDSymbol;Acc:1309187]"	-1.24
ENSRNOG00000011800	F3	coagulation factor III, tissue factor [Source:RGDSymbol;Acc:1309187]"	-1.24
ENSRNOG00000058316	Mospd1	motile sperm domain containing 1 [Source:RGDSymbol;Acc:1309187]"	-1.25
ENSRNOG00000022921	Dact2	dishevelled-binding antagonist of beta-catenin 2[Source:RGD Symbol;Acc:1309187]"	-1.25
ENSRNOG0000001242	Gstt3	glutathione S-transferase, theta 3 [Source:RGDSymbol;Acc:1309187]"	-1.26
ENSRNOG00000011283	Sdhaf3	succinate dehydrogenase complex assembly factor 3[Source:RGD Symbol;Acc:1309187]"	-1.26
ENSRNOG00000042496	Cyp4f5	cytochrome P450, family 4, subfamily f, polypeptide 5 [Source:RGD Symbol;Acc:1309187]"	-1.27
ENSRNOG00000007237	Id2	inhibitor of DNA binding 2, HLH protein [Source:RGD Symbol;Acc:1309187]"	-1.27

ENSRNOG00000057389	Dusp28	dual specificity phosphatase 28 [Source:RGDSymbol]	-1.28
ENSRNOG00000016330	Rbm12b	RNA binding motif protein 12B [Source:RGDSymbol]	-1.30
ENSRNOG00000002072	Eva1c	eva-1 homolog C [Source:RGD Symbol;Acc:1307569]	-1.30
ENSRNOG00000027622	Slc35e3	solute carrier family 35, member E3 [Source:RGDSymbol]	-1.31
ENSRNOG00000028753	B9d2	B9 protein domain 2 [Source:RGD Symbol;Acc:15666]	-1.31
ENSRNOG00000020093	LOC100360	ribosomal protein S12-like [Source:RGDSymbol;Acc:15666]	-1.31
ENSRNOG00000010386	H2afx	H2A histone family, member X [Source:RGDSymbol]	-1.32
ENSRNOG00000018464	Lipt1	lipoyltransferase 1 [Source:RGD Symbol;Acc:131021]	-1.32
ENSRNOG00000020029	Mcrip2	MAPK regulated co-repressor interacting protein 2[S]	-1.33
ENSRNOG00000013409	Gclm	glutamate cysteine ligase, modifier subunit[Source:RGD Symbol;Acc:131021]	-1.34
ENSRNOG00000019202	PVR	poliovirus receptor [Source:RGD Symbol;Acc:38131]	-1.34
ENSRNOG00000021029	Hamp	hepcidin antimicrobial peptide [Source:RGDSymbol;Acc:67390]	-1.34
ENSRNOG00000007886	Orm1	orosomucoid 1 [Source:RGD Symbol;Acc:67390]"	-1.34
ENSRNOG00000020799	Polr2i	RNA polymerase II subunit I [Source:RGDSymbol;Acc:67390]	-1.36
ENSRNOG00000021403	Rhob	ras homolog family member B [Source:RGDSymbol;Acc:67390]	-1.37
ENSRNOG00000016962	Neu2	neuraminidase 2 [Source:RGD Symbol;Acc:3164]"	-1.37
ENSRNOG00000018649	Slc35c2	solute carrier family 35 member C2 [Source:RGDSymbol;Acc:3164]	-1.37
ENSRNOG00000014205	Klf2	Kruppel-like factor 2 [Source:RGDSymbol;Acc:13591]	-1.37
ENSRNOG00000048651	Nrtn	neurturin [Source:RGD Symbol;Acc:621494]"	-1.38
ENSRNOG00000014061	Dusp5	dual specificity phosphatase 5 [Source:RGDSymbol;Acc:621494]	-1.39
ENSRNOG00000046871	LOC681367	hypothetical protein LOC681367 [Source:RGDSymbol;Acc:621494]	-1.39
ENSRNOG00000001376	Mettl7a	methyltransferase like 7A [Source:RGDSymbol;Acc:621494]	-1.39
ENSRNOG00000015382	Arid5a	AT-rich interaction domain 5A [Source:RGDSymbol;Acc:621494]	-1.40
ENSRNOG0000001442	Por	cytochrome p450 oxidoreductase [Source:RGDSymbol;Acc:621494]	-1.41
ENSRNOG00000053452	Actg1	actin, gamma 1 [Source:RGD Symbol;Acc:1304556]"	-1.41
ENSRNOG00000017243	Bnip3	BCL2 interacting protein 3 [Source:RGDSymbol;Acc:1304556]	-1.42
ENSRNOG00000012471	Thbs4	thrombospondin 4 [Source:RGD Symbol;Acc:620461]	-1.43
ENSRNOG0000003866	Cxcr4	C-X-C motif chemokine receptor 4 [Source:RGDSymbol;Acc:620461]	-1.43
ENSRNOG00000047123	Tstd1	thiosulfate sulfurtransferase like domain containing1	-1.43
ENSRNOG00000046540	Ugt2b37	UDP-glucuronosyltransferase 2 family, member 37[S]	-1.43
ENSRNOG0000004100	Trib1	tribbles pseudokinase 1 [Source:RGDSymbol;Acc:620461]	-1.44
ENSRNOG00000036701	LOC100361	actin, gamma 1 propeptide-like [Source:RGDSymbol;Acc:620461]	-1.45
ENSRNOG00000010603	Gzma	granzyme A [Source:RGD Symbol;Acc:628640]"	-1.45
ENSRNOG00000059714	LOC103692	heat shock protein HSP 90-alpha [Source:RGDSymbol;Acc:628640]	-1.46
ENSRNOG00000023778	Gcnt2	glucosaminyl (N-acetyl) transferase 2, I-branchingenz	-1.47
ENSRNOG00000057072	Slc12a3	solute carrier family 12 member 3 [Source:RGDSymbol;Acc:628640]	-1.47
ENSRNOG00000048187	LOC691153	hypothetical protein LOC691153 [Source:RGDSymbol;Acc:628640]	-1.49
ENSRNOG00000029862	Spc24	SPC24, NDC80 kinetochore complex component[Source:RGD Symbol;Acc:628640]	-1.49
ENSRNOG00000009550	Sqle	squalene epoxidase [Source:RGD Symbol;Acc:37551]	-1.55
ENSRNOG00000032297	Msmo1	methylsterol monooxygenase 1 [Source:RGDSymbol;Acc:37551]	-1.56
ENSRNOG00000017212	Spsb1	splA/ryanodine receptor domain and SOCS boxconta	-1.56
ENSRNOG00000014350	Cyr61	cysteine-rich, angiogenic inducer, 61 [Source:RGDSymbol;Acc:1306163]	-1.56
ENSRNOG00000014367	Ephb6	Eph receptor B6 [Source:RGD Symbol;Acc:1306163]	-1.56
ENSRNOG00000012260	Ddx25	DEAD-box helicase 25 [Source:RGD Symbol;Acc:62039]	-1.57
ENSRNOG00000051483	LOC103689	selenoprotein W-like [Source:RGDSymbol;Acc:94181]	-1.58
ENSRNOG0000005250	Abcg5	ATP binding cassette subfamily G member 5[Source:RGD Symbol;Acc:94181]	-1.63
ENSRNOG00000020938	Ppp1r15a	protein phosphatase 1, regulatory subunit 15A[Source:RGD Symbol;Acc:62039]	-1.64
ENSRNOG00000018484	Plk3	polo-like kinase 3 [Source:RGD Symbol;Acc:62039]	-1.65

ENSRNOG00000011474	Ppp1r3b	protein phosphatase 1, regulatory subunit 3B [Source:RGDSymbol;Acc:1308536]"	-1.65
ENSRNOG00000042838	Junb	JunB proto-oncogene, AP-1 transcription factor subunit 1 [Source:RGDSymbol;Acc:1309719]"	-1.66
ENSRNOG00000003300	Btg2	BTG anti-proliferation factor 2 [Source:RGDSymbol;Acc:1308536]"	-1.66
ENSRNOG00000011593	Hey1	hes-related family bHLH transcription factor with YR domain 1 [Source:RGDSymbol;Acc:1308536]"	-1.67
ENSRNOG00000018005	Duoxa1	dual oxidase maturation factor 1 [Source:RGDSymbol;Acc:1308536]"	-1.67
ENSRNOG00000007152	Bhlhe40	basic helix-loop-helix family, member e40 [Source:RGDSymbol;Acc:1308536]"	-1.67
ENSRNOG00000003977	Dusp1	dual specificity phosphatase 1 [Source:RGDSymbol;Acc:1308536]"	-1.69
ENSRNOG00000021102	Scn1b	sodium voltage-gated channel beta subunit 1 [Source:RGDSymbol;Acc:1308536]"	-1.72
ENSRNOG00000029394	Dusp8	dual specificity phosphatase 8 [Source:RGDSymbol;Acc:1308536]"	-1.72
ENSRNOG00000046607	Cited4	Cbp/p300-interacting transactivator, with Glu/Asp-rich C-terminal domain 4 [Source:RGDSymbol;Acc:1308536]"	-1.73
ENSRNOG00000014714	Trpv6	transient receptor potential cation channel, subfamily V, member 6 [Source:RGDSymbol;Acc:1308536]"	-1.73
ENSRNOG00000043098	Mt2A	metallothionein 2A [Source:RGD Symbol;Acc:15923]"	-1.73
ENSRNOG00000023896	Dusp6	dual specificity phosphatase 6 [Source:RGDSymbol;Acc:1308536]"	-1.73
ENSRNOG00000006019	G0s2	G0/G1switch 2 [Source:RGD Symbol;Acc:1311675]"	-1.77
ENSRNOG00000016122	Hmgcr	3-hydroxy-3-methylglutaryl-CoA reductase [Source:RGDSymbol;Acc:1308536]"	-1.78
ENSRNOG00000001990	Ugt2b10	UDP glucuronosyltransferase 2 family, polypeptide B [Source:RGDSymbol;Acc:1308536]"	-1.79
ENSRNOG00000059840	Unc5a	unc-5 netrin receptor A [Source:RGDSymbol;Acc:621838]"	-1.81
ENSRNOG00000009580	Lca5	LCA5, lebercillin [Source:RGD Symbol;Acc:1308555]"	-1.82
ENSRNOG00000054181	LOC10036157	Cytochrome P450, family 2, subfamily c, polypeptide 1 [Source:RGDSymbol;Acc:1308536]"	-1.83
ENSRNOG00000027784	Tsku	tsukushi, small leucine rich proteoglycan [Source:RGDSymbol;Acc:1308536]"	-1.83
ENSRNOG00000020136	Tgm1	transglutaminase 1 [Source:RGD Symbol;Acc:61838]"	-1.84
ENSRNOG00000008445	Dact1	dishevelled-binding antagonist of beta-catenin 1 [Source:RGDSymbol;Acc:1308536]"	-1.90
ENSRNOG00000038047	Mt1	metallothionein 1 [Source:RGD Symbol;Acc:3117]"	-1.90
ENSRNOG00000004437	Map2k6	mitogen-activated protein kinase kinase 6 [Source:RGDSymbol;Acc:1308536]"	-1.92
ENSRNOG00000045644	LOC684762	similar to CG31613-PA [Source:RGDSymbol;Acc:1308536]"	-1.93
ENSRNOG00000021750	Id1	inhibitor of DNA binding 1, HLH protein [Source:RGDSymbol;Acc:1308536]"	-1.94
ENSRNOG00000016690	Idi1	isopentenyl-diphosphate delta isomerase 1 [Source:RGDSymbol;Acc:1308536]"	-1.98
ENSRNOG00000014490	Bdh2	3-hydroxybutyrate dehydrogenase 2 [Source:RGDSymbol;Acc:1308536]"	-1.98
ENSRNOG00000002946	Socs3	suppressor of cytokine signaling 3 [Source:RGDSymbol;Acc:1308536]"	-2.03
ENSRNOG00000061160	Htra4	HtrA serine peptidase 4 [Source:RGDSymbol;Acc:1308536]"	-2.07
ENSRNOG00000013090	Gadd45g	growth arrest and DNA-damage-inducible, gamma [Source:RGDSymbol;Acc:1308536]"	-2.09
ENSRNOG00000014387	Chac1	ChaC glutathione-specific gamma-glutamylcyclotranspeptidase 1 [Source:RGDSymbol;Acc:1308536]"	-2.10
ENSRNOG00000040045	Crnk1l	crooked neck pre-mRNA splicing factor 1 [Source:RGDSymbol;Acc:1308536]"	-2.13
ENSRNOG00000005286	Coch	cochlin [Source:RGD Symbol;Acc:1308536]"	-2.15
ENSRNOG00000008015	Fos	FBJ osteosarcoma oncogene [Source:RGDSymbol;Acc:1308536]"	-2.16
ENSRNOG00000001414	Serpine1	serpin family E member 1 [Source:RGDSymbol;Acc:1308536]"	-2.17
ENSRNOG00000005615	Gadd45a	growth arrest and DNA-damage-inducible, alpha [Source:RGDSymbol;Acc:1308536]"	-2.18
ENSRNOG00000011490	Angptl8	angiopoietin-like 8 [Source:RGD Symbol;Acc:23201]"	-2.18
ENSRNOG00000019661	Gdf15	growth differentiation factor 15 [Source:RGDSymbol;Acc:1308536]"	-2.23
ENSRNOG00000053025	AC130391.1-		-2.26
ENSRNOG00000020614	Phlda2	pleckstrin homology-like domain, family A, member 2 [Source:RGDSymbol;Acc:1308536]"	-2.27
ENSRNOG00000008901	Coro2a	coronin 2A [Source:RGD Symbol;Acc:1309719]"	-2.30
ENSRNOG00000039390	Slc37a2	solute carrier family 37 member 2 [Source:RGDSymbol;Acc:1308536]"	-2.32
ENSRNOG00000015160	Gem	GTP binding protein overexpressed in skeletal muscle [Source:RGDSymbol;Acc:1308536]"	-2.43
ENSRNOG00000017084	Hsd11b2	hydroxysteroid 11-beta dehydrogenase 2 [Source:RGDSymbol;Acc:1308536]"	-2.53
ENSRNOG0000004476	Wif1	Wnt inhibitory factor 1 [Source:RGDSymbol;Acc:61838]"	-2.54
ENSRNOG00000016853	Dsg1	desmoglein 1 [Source:RGD Symbol;Acc:1309925]"	-2.56
ENSRNOG00000015763	Nat8f3	N-acetyltransferase 8 (GCN5-related) family member 3 [Source:RGDSymbol;Acc:1308536]"	-2.65

ENSRNOG00000026293	Jun	Jun proto-oncogene, AP-1 transcription factorsubunit	-2.67
ENSRNOG00000054978	Hist1h1c	histone cluster 1 H1 family member c [Source:RGDSymbol]	-2.72
ENSRNOG00000048782	Wnt7a	wingless-type MMTV integration site family, member 7a	-2.78
ENSRNOG00000045840	Hist1h4m	histone cluster 1, H4m [Source:RGDSymbol;Acc:130444]	-2.91
ENSRNOG00000049515	Obp1f	odorant binding protein I f [Source:RGDSymbol;Acc:130445]	-2.95
ENSRNOG00000015149	Nrg4	neuregulin 4 [Source:RGD Symbol;Acc:1589860]"	-2.98
ENSRNOG00000048264	LOC684828	similar to Histone H1.2 (H1 VAR.1) (H1c) [Source:RGD Symbol;Acc:1589860]	-3.07
ENSRNOG00000054296	Hist1h2bo	histone cluster 1 H2B family member o [Source:RGD Symbol;Acc:1589860]	-3.08
ENSRNOG00000013953	Ntrk1	neurotrophic receptor tyrosine kinase 1 [Source:RGD Symbol;Acc:1589860]	-3.14
ENSRNOG00000012886	Maff	MAF bZIP transcription factor F [Source:RGDSymbol;Acc:1589860]	-3.23
ENSRNOG00000059093	-	-	-3.28
ENSRNOG00000050647	Hspa1b	heat shock protein family A (Hsp70) member 1B[Source:RGD Symbol;Acc:1589860]	-3.54
ENSRNOG00000003745	Atf3	activating transcription factor 3 [Source:RGDSymbol;Acc:1589860]	-3.75
ENSRNOG00000011250	Inmt	indolethylamine N-methyltransferase [Source:RGDSymbol;Acc:1589860]	-4.23
ENSRNOG00000045646	LOC102549	histone H3.2-like [Source:RGD Symbol;Acc:7709329]	-4.52
ENSRNOG00000009465	Sfrp2	secreted frizzled-related protein 2 [Source:RGDSymbol;Acc:1589860]	-4.88
ENSRNOG00000013771	Clca2	chloride channel accessory 2 [Source:RGDSymbol;Acc:1589860]	-6.34

**Supplemental Table S4. All the transcripts that are differentially expressed in AST treated DM rats com**

ID	Name	Description	log2FC
ENSRNOG00000047613	Mup5	major urinary protein 5 [Source:RGDSymbol;Acc:735107]	7.08
ENSRNOG00000014018	St8sia1	ST8 alpha-N-acetyl-neuraminate alpha-2,8-sialyltransferase	6.53
ENSRNOG00000009273	LOC259245	alpha-2u globulin PGCL5 [Source:RGDSymbol;Acc:70850]	5.91
ENSRNOG00000032871	Mlc1	megalencephalic leukoencephalopathy with subcorticalcyst	5.63
ENSRNOG00000048159	AABR07065	-	4.48
ENSRNOG00000050595	LOC1009125	major urinary protein-like [Source:RGDSymbol;Acc:64862]	4.34
ENSRNOG00000001830	Arntl2	aryl hydrocarbon receptor nuclear translocator-like2 [Source:RGDSymbol;Acc:13081]	3.95
ENSRNOG00000018316	Grap2	GRB2-related adaptor protein 2 [Source:MGISymbol;Acc:13081]	3.62
ENSRNOG00000025648	Dhrs7l1	dehydrogenase/reductase (SDR family) member 7-like 1[Source:RGDSymbol;Acc:13081]	3.57
ENSRNOG00000014711	Meiob	meiosis specific with OB domains [Source:RGDSymbol;Acc:13081]	3.13
ENSRNOG00000028765	Ttc24	tetratricopeptide repeat domain 24 [Source:RGDSymbol;Acc:13081]	3.00
ENSRNOG00000017208	Cspg4	chondroitin sulfate proteoglycan 4 [Source:RGDSymbol;Acc:13081]	2.93
ENSRNOG0000000378	Ctnna3	catenin alpha 3 [Source:RGD Symbol;Acc:1562230]"	2.89
ENSRNOG00000058317	Pnck	pregnancy up-regulated nonubiquitous CaM kinase[Source:RGDSymbol;Acc:13081]	2.80
ENSRNOG00000011820	Acpp	acid phosphatase, prostate [Source:RGDSymbol;Acc:2023]	2.69
ENSRNOG00000037339	Siglec10	sialic acid binding Ig-like lectin 10 [Source:RGDSymbol;Acc:13081]	2.68
ENSRNOG00000014787	Cabp5	calcium binding protein 5 [Source:RGDSymbol;Acc:13081]	2.66
ENSRNOG00000008450	LOC1003595	ribonucleotide reductase M2 polypeptide [Source:RGDSymbol;Acc:13081]	2.66
ENSRNOG00000060408	AABR07051	-	2.63
ENSRNOG00000011892	Slc36a2	solute carrier family 36 member 2 [Source:RGDSymbol;Acc:13081]	2.62
ENSRNOG00000058446	Il7r	interleukin 7 receptor [Source:RGDSymbol;Acc:1309776]	2.60
ENSRNOG00000014426	Lox	lysyl oxidase [Source:RGD Symbol;Acc:3015]"	2.58
ENSRNOG00000023340	Tmem72	transmembrane protein 72 [Source:RGDSymbol;Acc:13081]	2.56
ENSRNOG00000016612	Trim36	tripartite motif-containing 36 [Source:RGDSymbol;Acc:13081]	2.53
ENSRNOG0000000632	Cdk1	cyclin-dependent kinase 1 [Source:RGDSymbol;Acc:2319]	2.50
ENSRNOG00000017964	Slc22a25	solute carrier family 22, member 25 [Source:RGDSymbol;Acc:13081]	2.50
ENSRNOG00000008245	Ptgis	prostaglandin I2 synthase [Source:RGDSymbol;Acc:3438]	2.47
ENSRNOG00000055909	Apoa4	apolipoprotein A4 [Source:RGD Symbol;Acc:2132]"	2.47
ENSRNOG0000001874	Slc7a4	solute carrier family 7, member 4 [Source:RGDSymbol;Acc:13081]	2.38
ENSRNOG00000011777	Spag5	sperm associated antigen 5 [Source:RGDSymbol;Acc:6201]	2.36
ENSRNOG00000048411	Uhrf1	ubiquitin-like with PHD and ring finger domains 1[Source:RGDSymbol;Acc:13081]	2.36
ENSRNOG00000018086	Slc22a8	solute carrier family 22 member 8 [Source:RGDSymbol;Acc:13081]	2.33
ENSRNOG00000013057	Prc1	protein regulator of cytokinesis 1 [Source:RGDSymbol;Acc:13081]	2.29
ENSRNOG00000011200	Bhmt	betaine-homocysteine S-methyltransferase [Source:RGDSymbol;Acc:13081]	2.27
ENSRNOG0000003703	Mcm6	minichromosome maintenance complex component 6[Source:RGDSymbol;Acc:13081]	2.23
ENSRNOG00000033658	Kntc1	kinetochore associated 1 [Source:RGDSymbol;Acc:130790]	2.23
ENSRNOG00000012543	Mcm3	minichromosome maintenance complex component 3[Source:RGDSymbol;Acc:13081]	2.23
ENSRNOG00000012721	Ednra	endothelin receptor type A [Source:RGDSymbol;Acc:2535]	2.19
ENSRNOG0000007090	Cacna1c	calcium voltage-gated channel subunit alpha1 C[Source:RGDSymbol;Acc:13081]	2.11
ENSRNOG00000017120	Abhd2	abhydrolase domain containing 2 [Source:RGDSymbol;Acc:13081]	2.10
ENSRNOG00000016512	Sema3b	semaphorin 3B [Source:RGD Symbol;Acc:1310079]"	2.10
ENSRNOG00000020132	Ttl10	tubulin tyrosine ligase like 10 [Source:RGDSymbol;Acc:15081]	2.08
ENSRNOG00000048874	Gckr	glucokinase regulator [Source:RGD Symbol;Acc:2671]"	2.04
ENSRNOG00000019306	Syt12	synaptotagmin 12 [Source:RGD Symbol;Acc:621876]"	2.03
ENSRNOG00000033261	Fam107a	family with sequence similarity 107, member A[Source:RGDSymbol;Acc:13081]	1.96
ENSRNOG0000007200	Ikzf3	IKAROS family zinc finger 3 [Source:RGDSymbol;Acc:13081]	1.96

ENSRNOG00000049452	Neb1	nebulette [Source:RGD Symbol;Acc:1308315]"	1.96
ENSRNOG00000020281	Kif22	kinesin family member 22 [Source:RGDSymbol;Acc:13118]	1.94
ENSRNOG00000000814	Fabp7	fatty acid binding protein 7 [Source:RGDSymbol;Acc:6931]	1.94
ENSRNOG00000019542	LOC1009109	interferon-inducible GTPase 1-like [Source:RGDSymbol;Acc:1309222]	1.91
ENSRNOG00000016069	Cd3e	CD3e molecule [Source:RGD Symbol;Acc:1309222]"	1.89
ENSRNOG00000019477	Zmynd15	zinc finger, MYND-type containing 15 [Source:RGDSymbol;Acc:1309222]	1.88
ENSRNOG00000032708	RT1-Bb	RT1 class II, locus Bb [Source:RGD Symbol;Acc:3469]"	1.88
ENSRNOG00000006738	Fbxo32	F-box protein 32 [Source:RGD Symbol;Acc:620373]"	1.87
ENSRNOG00000024899	Cxcl13	C-X-C motif chemokine ligand 13 [Source:RGDSymbol;Acc:1309222]	1.83
ENSRNOG00000051171	G6pc	glucose-6-phosphatase, catalytic subunit [Source:RGDSymbol;Acc:1309222]	1.83
ENSRNOG00000029235	Sfmbt2	Scm-like with four mbt domains 2 [Source:RGDSymbol;Acc:1309222]	1.83
ENSRNOG00000037060	Odf3b	outer dense fiber of sperm tails 3B [Source:RGDSymbol;Acc:1309222]	1.82
ENSRNOG00000059834	Cib2	calcium and integrin binding family member 2[Source:RGD Symbol;Acc:1309222]	1.81
ENSRNOG00000028668	Slc28a2	solute carrier family 28 member 2 [Source:RGD Symbol;Acc:1309222]	1.81
ENSRNOG00000015581	Dnah6	dynein, axonemal, heavy chain 6 [Source:RGDSymbol;Acc:1309222]	1.81
ENSRNOG00000029191	LOC685067	similar to guanylate binding protein family, member6 [Source:RGD Symbol;Acc:1309222]	1.79
ENSRNOG00000007923	Cgref1	cell growth regulator with EF hand domain 1[Source:RGD Symbol;Acc:1309222]	1.79
ENSRNOG00000011944	Snx10	sorting nexin 10 [Source:RGD Symbol;Acc:1305782]"	1.77
ENSRNOG00000067779	Crot	carnitine O-octanoyltransferase [Source:RGDSymbol;Acc:1309222]	1.76
ENSRNOG00000037302	Rad51	RAD51 recombinase [Source:RGD Symbol;Acc:1563603]"	1.73
ENSRNOG00000023209	Slamf7	SLAM family member 7 [Source:RGDSymbol;Acc:156019]	1.71
ENSRNOG00000007033	Sorcs2	sortilin-related VPS10 domain containing receptor 2[Source:RGD Symbol;Acc:1309222]	1.69
ENSRNOG00000011407	Prag1	PEAK1 related kinase activating pseudokinase 1[Source:RGD Symbol;Acc:1309222]	1.68
ENSRNOG00000009019	Slc6a6	solute carrier family 6 member 6 [Source:RGDSymbol;Acc:1309222]	1.67
ENSRNOG00000046803	Arhgef16	Rho guanine nucleotide exchange factor 16[Source:RGD Symbol;Acc:1309222]	1.67
ENSRNOG00000016353	Nim1k	NIM1 serine/threonine protein kinase [Source:RGDSymbol;Acc:1309222]	1.66
ENSRNOG00000033693	Naip6	NLR family, apoptosis inhibitory protein 6[Source:RGD Symbol;Acc:1309222]	1.66
ENSRNOG00000016926	Plekhs1	pleckstrin homology domain containing S1 [Source:RGDSymbol;Acc:1309222]	1.63
ENSRNOG00000060052	Tdrd15	tudor domain containing 15 [Source:RGDSymbol;Acc:7710]	1.63
ENSRNOG00000023257	Adamts9	ADAM metallopeptidase with thrombospondin type 1motif 9	1.62
ENSRNOG00000020014	Myh14	myosin heavy chain 14 [Source:RGDSymbol;Acc:1306821]	1.61
ENSRNOG00000033824	Gpd2	glycerol-3-phosphate dehydrogenase 2 [Source:RGDSymbol;Acc:1309222]	1.58
ENSRNOG00000018570	C1qtnf3	C1q and tumor necrosis factor related protein 3[Source:RGD Symbol;Acc:1309222]	1.58
ENSRNOG00000022764	Evi2a	ecotropic viral integration site 2A [Source:RGDSymbol;Acc:1309222]	1.57
ENSRNOG00000011081	Serpina7	serpin family A member 7 [Source:RGDSymbol;Acc:61983]	1.55
ENSRNOG00000032394	Tymp	thymidine phosphorylase [Source:RGDSymbol;Acc:1305782]	1.55
ENSRNOG00000059540	Gcnt3	glucosaminyl (N-acetyl) transferase 3, mucin type[Source:RGD Symbol;Acc:1309222]	1.55
ENSRNOG00000012892	Abca4	ATP binding cassette subfamily A member 4[Source:RGD Symbol;Acc:1309222]	1.54
ENSRNOG00000025164	Bhlha15	basic helix-loop-helix family, member a15[Source:RGD Symbol;Acc:1309222]	1.54
ENSRNOG0000001959	Mx1	myxovirus (influenza virus) resistance 1 [Source:RGDSymbol;Acc:1309222]	1.53
ENSRNOG00000054426	Zfp704	zinc finger protein 704 [Source:RGDSymbol;Acc:1563869]	1.51
ENSRNOG0000007483	Ccnf	cyclin F [Source:RGD Symbol;Acc:67401]"	1.51
ENSRNOG0000003498	Olr1584	olfactory receptor 1584 [Source:RGDSymbol;Acc:1334087]	1.51
ENSRNOG0000009258	Cdk6	cyclin-dependent kinase 6 [Source:RGDSymbol;Acc:62112]	1.50
ENSRNOG00000042607	Rhof	ras homolog family member F, filopodia associated[Source:RGD Symbol;Acc:1309222]	1.50
ENSRNOG0000005190	Nipal2	NIPA-like domain containing 2 [Source:RGDSymbol;Acc:1309222]	1.48
ENSRNOG00000060356	Kif15	kinesin family member 15 [Source:RGDSymbol;Acc:72779]	1.48
ENSRNOG00000020991	Ms4a6a	membrane spanning 4-domains A6A [Source:RGDSymbol;Acc:1309222]	1.45

ENSRNOG00000023851	Igsf3	immunoglobulin superfamily, member 3 [Source:RGDSymbol;Acc:1308752]	1.44
ENSRNOG00000008332	Smo	smoothened, frizzled class receptor [Source:RGDSymbol;Acc:1308752]	1.44
ENSRNOG00000028156	Pld1	phospholipase D1 [Source:RGDSymbol;Acc:3349]"	1.44
ENSRNOG00000042499	LOC1003644	thymosin, beta 10-like [Source:RGDSymbol;Acc:2321025]	1.44
ENSRNOG00000053047	Top2a	topoisomerase (DNA) II alpha [Source:RGDSymbol;Acc:618]	1.44
ENSRNOG00000008680	Lox11	lysyl oxidase-like 1 [Source:RGDSymbol;Acc:1308752]	1.43
ENSRNOG00000030269	Atp2b2	ATPase plasma membrane Ca2+ transporting 2[Source:RGDSymbol;Acc:1308752]	1.43
ENSRNOG000000002773	Rgs4	regulator of G-protein signaling 4 [Source:RGDSymbol;Acc:1308752]	1.43
ENSRNOG00000015076	Cyp26b1	cytochrome P450, family 26, subfamily b, polypeptide1 [Source:RGDSymbol;Acc:1308752]	1.41
ENSRNOG00000011774	Fblim1	filamin binding LIM protein 1 [Source:RGDSymbol;Acc:1308752]	1.40
ENSRNOG00000048870	St6galnac4	ST6 N-acetylgalactosaminide alpha-2,6-sialyltransferase 4	1.40
ENSRNOG00000024947	Fabp2	fatty acid binding protein 2 [Source:RGDSymbol;Acc:2591]	1.39
ENSRNOG00000003897	Col1a1	collagen type I alpha 1 chain [Source:RGDSymbol;Acc:618]	1.38
ENSRNOG00000034116	Gk	glycerol kinase [Source:RGDSymbol;Acc:70893]"	1.38
ENSRNOG00000020653	S1pr2	sphingosine-1-phosphate receptor 2 [Source:RGDSymbol;Acc:1308752]	1.38
ENSRNOG00000000036	Klhd8a	kelch domain containing 8A [Source:RGDSymbol;Acc:1308752]	1.36
ENSRNOG00000026604	Cercam	cerebral endothelial cell adhesion molecule[Source:RGDSymbol;Acc:1308752]	1.36
ENSRNOG00000036682	Pycr1	pyrroline-5-carboxylate reductase 1 [Source:RGDSymbol;Acc:1308752]	1.35
ENSRNOG00000038361	RGD156486	similar to 20-alpha-hydroxysteroid dehydrogenase[Source:RGDSymbol;Acc:1308752]	1.34
ENSRNOG00000020456	Nucb2	nucleobindin 2 [Source:RGDSymbol;Acc:620888]"	1.33
ENSRNOG00000022884	Cd84	CD84 molecule [Source:RGDSymbol;Acc:1564553]"	1.32
ENSRNOG00000003749	Xk	X-linked Kx blood group [Source:RGDSymbol;Acc:13596]"	1.32
ENSRNOG00000010275	Slc17a9	solute carrier family 17 member 9 [Source:RGDSymbol;Acc:1308752]	1.32
ENSRNOG00000060248	Chchd6	coiled-coil-helix-coiled-coil-helix domaincontaining 6 [Source:RGDSymbol;Acc:1308752]	1.31
ENSRNOG00000000165	Pfkfb1	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase1 [Source:RGDSymbol;Acc:1308752]	1.31
ENSRNOG00000012333	Kbtbd11	kelch repeat and BTB domain containing 11[Source:RGDSymbol;Acc:1308752]	1.30
ENSRNOG00000046309	Gpr68	G protein-coupled receptor 68 [Source:RGDSymbol;Acc:1308752]	1.30
ENSRNOG00000049994	Ifi44l	interferon-induced protein 44-like [Source:RGDSymbol;Acc:1308752]	1.29
ENSRNOG00000007546	Asns	asparagine synthetase (glutamine-hydrolyzing)[Source:RGDSymbol;Acc:1308752]	1.29
ENSRNOG00000047464	AABR07060	-	1.28
ENSRNOG00000049590	RT1-M2	RT1 class Ib, locus M2 [Source:RGDSymbol;Acc:3493]"	1.28
ENSRNOG00000011475	Srcin1	SRC kinase signaling inhibitor 1 [Source:RGDSymbol;Acc:1308752]	1.28
ENSRNOG00000058742	AABR07067	-	1.24
ENSRNOG00000023664	Lepr	leptin receptor [Source:RGDSymbol;Acc:3001]"	1.24
ENSRNOG0000006231	Ptpro	protein tyrosine phosphatase, receptor type, O[Source:RGDSymbol;Acc:1308752]	1.23
ENSRNOG00000060348	Zdhhc23	zinc finger, DHHC-type containing 23 [Source:RGDSymbol;Acc:1308752]	1.23
ENSRNOG00000061890	Ust5r	integral membrane transport protein UST5r[Source:RGDSymbol;Acc:1308752]	1.21
ENSRNOG00000010071	RGD1560010	RGD1560010 [Source:RGDSymbol;Acc:1560010]"	1.20
ENSRNOG00000010266	Cd180	CD180 molecule [Source:RGDSymbol;Acc:1308170]"	1.20
ENSRNOG00000015948	Slc1a5	solute carrier family 1 member 5 [Source:RGDSymbol;Acc:1308752]	1.19
ENSRNOG00000059097	-	-	1.19
ENSRNOG00000028768	Gbp4	guanylate binding protein 4 [Source:RGDSymbol;Acc:1308752]	1.18
ENSRNOG00000012580	Ccdc141	coiled-coil domain containing 141 [Source:RGDSymbol;Acc:1308752]	1.18
ENSRNOG00000013663	Tmem86a	transmembrane protein 86A [Source:RGDSymbol;Acc:1308752]	1.18
ENSRNOG0000001736	Bdh1	3-hydroxybutyrate dehydrogenase 1 [Source:RGDSymbol;Acc:1308752]	1.18
ENSRNOG00000008115	Arhgap11a	Rho GTPase activating protein 11A [Source:RGDSymbol;Acc:1308752]	1.17
ENSRNOG00000014766	Galt	galactose-1-phosphate uridylyltransferase[Source:RGDSymbol;Acc:1308752]	1.17
ENSRNOG00000014125	Evi2b	ecotropic viral integration site 2B [Source:RGDSymbol;Acc:1308752]	1.17

ENSRNOG00000026235	Hk3	hexokinase 3 [Source:RGD Symbol;Acc:2798]"	1.16
ENSRNOG00000016998	Atxn1	ataxin 1 [Source:RGD Symbol;Acc:3624]"	1.16
ENSRNOG00000027808	Lilra5	leukocyte immunoglobulin-like receptor, subfamily A(with	1.16
ENSRNOG00000019414	Tmem79	transmembrane protein 79 [Source:RGDSymbol;Acc:13098	1.15
ENSRNOG00000008471	Kif21b	kinesin family member 21B [Source:RGDSymbol;Acc:130	1.15
ENSRNOG00000009515	Pgm3	phosphoglucomutase 3 [Source:RGDSymbol;Acc:1305221	1.15
ENSRNOG00000010298	Xbp1	X-box binding protein 1 [Source:RGDSymbol;Acc:130307	1.13
ENSRNOG00000045679	Apoa1	apolipoprotein A1 [Source:RGD Symbol;Acc:2130]"	1.13
ENSRNOG00000016306	Adgrv1	adhesion G protein-coupled receptor V1 [Source:RGDSym	1.13
ENSRNOG00000011648	Aqp1	aquaporin 1 [Source:RGD Symbol;Acc:2141]"	1.13
ENSRNOG00000010183	Fam198b	family with sequence similarity 198, member B[Source:RG	1.12
ENSRNOG00000055103	Cftr	cystic fibrosis transmembrane conductance regulator[Sourc	1.12
ENSRNOG00000043451	Spp1	secreted phosphoprotein 1 [Source:RGDSymbol;Acc:3752]	1.11
ENSRNOG00000016488	Pltp	phospholipid transfer protein [Source:RGDSymbol;Acc:13	1.10
ENSRNOG00000010105	S100a11	S100 calcium binding protein A11 [Source:RGDSymbol;A	1.10
ENSRNOG00000006548	Mrc2	mannose receptor, C type 2 [Source:RGDSymbol;Acc:1559	1.10
ENSRNOG00000021586	Gpr39	G protein-coupled receptor 39 [Source:RGDSymbol;Acc:1	1.09
ENSRNOG0000006967	Xiap	X-linked inhibitor of apoptosis [Source:RGDSymbol;Acc:6	1.08
ENSRNOG00000014130	Cks2	CDC28 protein kinase regulatory subunit 2[Source:RGD S	1.08
ENSRNOG0000001926	Cldn1	claudin 1 [Source:RGD Symbol;Acc:68422]"	1.08
ENSRNOG00000013009	Ldha	lactate dehydrogenase A [Source:RGDSymbol;Acc:2996]	1.08
ENSRNOG00000003003	Tbc1d19	TBC1 domain family, member 19 [Source:RGDSymbol;Ac	1.07
ENSRNOG00000019659	Aspa	aspartoacylase [Source:RGD Symbol;Acc:621693]"	1.07
ENSRNOG00000011070	Gnb4	G protein subunit beta 4 [Source:RGDSymbol;Acc:135932	1.07
ENSRNOG00000006331	Elov15	ELOVL fatty acid elongase 5 [Source:RGDSymbol;Acc:62	1.06
ENSRNOG00000004249	Tlr7	toll-like receptor 7 [Source:RGDSymbol;Acc:1563357]	1.06
ENSRNOG00000020839	Lrfn3	leucine rich repeat and fibronectin type III domaincontainin	1.05
ENSRNOG00000031997	Ttl17	tubulin tyrosine ligase like 7 [Source:RGDSymbol;Acc:156	1.05
ENSRNOG00000016576	Carmil1	capping protein regulator and myosin 1 linker 1[Source:RG	1.05
ENSRNOG00000052064	Parvg	parvin, gamma [Source:RGD Symbol;Acc:1597417]"	1.05
ENSRNOG00000020598	Kcnk6	potassium two pore domain channel subfamily K member6	1.05
ENSRNOG00000031743	Gbp2	guanylate binding protein 2 [Source:RGDSymbol;Acc:6218	1.04
ENSRNOG00000032922	Dclk1	doublecortin-like kinase 1 [Source:RGDSymbol;Acc:68437	1.04
ENSRNOG00000036673	Sectm1b	secreted and transmembrane 1B [Source:RGDSymbol;Acc:	1.04
ENSRNOG0000007136	Anxa7	annexin A7 [Source:RGD Symbol;Acc:621173]"	1.04
ENSRNOG00000056837	Abr	active BCR-related [Source:RGD Symbol;Acc:1306279]"	1.04
ENSRNOG00000031475	Col16a1	collagen type XVI alpha 1 chain [Source:RGDSymbol;Acc	1.03
ENSRNOG00000016112	Cd274	CD274 molecule [Source:RGD Symbol;Acc:1566211]"	1.03
ENSRNOG00000002667	Lamc2	laminin subunit gamma 2 [Source:RGDSymbol;Acc:62105	1.03
ENSRNOG00000024382	Fcgr3a	Fc fragment of IgG receptor IIIa [Source:RGDSymbol;Acc:	1.02
ENSRNOG00000033608	Cd276	Cd276 molecule [Source:RGD Symbol;Acc:727815]"	1.01
ENSRNOG00000048932	Smagp	small cell adhesion glycoprotein [Source:RGDSymbol;Acc	1.01
ENSRNOG0000002089	Ccng2	cyclin G2 [Source:RGD Symbol;Acc:1305002]"	1.01
ENSRNOG00000037853	Rarres1	retinoic acid receptor responder 1 [Source:RGDSymbol;Ac	1.01
ENSRNOG0000003191	Bhlhb9	basic helix-loop-helix domain containing, class B, 9[Source	1.00
ENSRNOG00000014350	Cyr61	cysteine-rich, angiogenic inducer, 61 [Source:RGDSymbol;	-1.00
ENSRNOG00000020385	Fads3	fatty acid desaturase 3 [Source:RGDSymbol;Acc:628876]	-1.01
ENSRNOG0000006302	Gclc	glutamate-cysteine ligase, catalytic subunit[Source:RGD Sy	-1.01

ENSRNOG00000010643	Kank2	KN motif and ankyrin repeat domains 2 [Source:RGDSymbol;Acc:1309274]"	-1.01
ENSRNOG00000007237	Id2	inhibitor of DNA binding 2, HLH protein [Source:RGDSymbol;Acc:1359220]"	-1.01
ENSRNOG00000020058	Celsr2	cadherin, EGF LAG seven-pass G-type receptor 2[Source:RGDSymbol;Acc:1309274]"	-1.03
ENSRNOG00000013728	Polg2	DNA polymerase gamma 2, accessory subunit[Source:RGDSymbol;Acc:1309274]"	-1.03
ENSRNOG00000027622	Slc35e3	solute carrier family 35, member E3 [Source:RGDSymbol;Acc:1309274]"	-1.03
ENSRNOG00000027630	Casc1	cancer susceptibility candidate 1 [Source:RGDSymbol;Acc:1309274]"	-1.04
ENSRNOG00000011300	Lama3	laminin subunit alpha 3 [Source:RGDSymbol;Acc:628776]"	-1.04
ENSRNOG00000010165	Tnfaip2	TNF alpha induced protein 2 [Source:RGDSymbol;Acc:1594599]"	-1.07
ENSRNOG00000014205	Klf2	Kruppel-like factor 2 [Source:RGDSymbol;Acc:1359220]"	-1.08
ENSRNOG00000001030	Tsc22d1	TSC22 domain family, member 1 [Source:RGDSymbol;Acc:1309274]"	-1.08
ENSRNOG00000018464	Lipt1	lipoyltransferase 1 [Source:RGD Symbol;Acc:1310276]"	-1.08
ENSRNOG00000019661	Gdf15	growth differentiation factor 15 [Source:RGDSymbol;Acc:1309274]"	-1.08
ENSRNOG00000030387	Kng1	kininogen 1 [Source:RGD Symbol;Acc:1359376]"	-1.08
ENSRNOG00000027368	LOC1009108	protein FAM100A-like [Source:RGDSymbol;Acc:6496445]"	-1.08
ENSRNOG00000046601	Unc5cl	unc-5 family C-terminal like [Source:RGDSymbol;Acc:1584599]"	-1.08
ENSRNOG00000030273	Zfp563	zinc finger protein 563 [Source:RGDSymbol;Acc:1308729]"	-1.08
ENSRNOG00000010078	Spag1	sperm associated antigen 1 [Source:RGDSymbol;Acc:1310276]"	-1.09
ENSRNOG0000000585	Amd1	adenosylmethionine decarboxylase 1 [Source:RGDSymbol;Acc:1309274]"	-1.09
ENSRNOG00000016875	Cbx7	chromobox 7 [Source:RGD Symbol;Acc:735027]"	-1.09
ENSRNOG00000008305	Sc5d	sterol-C5-desaturase [Source:RGD Symbol;Acc:620775]"	-1.10
ENSRNOG00000033361	Slc39a5	solute carrier family 39 member 5 [Source:RGDSymbol;Acc:1309274]"	-1.10
ENSRNOG00000036876	Faat20	Fanconi anemia core complex associated protein 20[Source:RGDSymbol;Acc:1309274]"	-1.12
ENSRNOG00000011559	Cnn3	calponin 3 [Source:RGD Symbol;Acc:71044]"	-1.12
ENSRNOG0000001329	Gjc3	gap junction protein, gamma 3 [Source:RGDSymbol;Acc:1309274]"	-1.12
ENSRNOG00000046480	Zfp764	zinc finger protein 764 [Source:RGDSymbol;Acc:1594599]"	-1.12
ENSRNOG00000024677	Arhgap33	Rho GTPase activating protein 33 [Source:RGDSymbol;Acc:1309274]"	-1.13
ENSRNOG00000013907	Sall1	spalt-like transcription factor 1 [Source:RGDSymbol;Acc:1309274]"	-1.14
ENSRNOG00000005660	Fam110c	family with sequence similarity 110, member C[Source:RGDSymbol;Acc:1309274]"	-1.16
ENSRNOG00000029394	Dusp8	dual specificity phosphatase 8 [Source:RGDSymbol;Acc:1309274]"	-1.16
ENSRNOG00000008596	Ttl19	tubulin tyrosine ligase like 9 [Source:RGDSymbol;Acc:1309274]"	-1.17
ENSRNOG00000002930	Ppl	periplakin [Source:RGD Symbol;Acc:1305511]"	-1.17
ENSRNOG00000013092	Lonrf3	LON peptidase N-terminal domain and ring finger 3[Source:RGDSymbol;Acc:1309274]"	-1.17
ENSRNOG00000010017	Wee1	WEE1 G2 checkpoint kinase [Source:RGDSymbol;Acc:1309274]"	-1.17
ENSRNOG00000047986	LOC1009124	alcohol sulfotransferase-like [Source:RGDSymbol;Acc:6484599]"	-1.17
ENSRNOG00000014218	Tmem25	transmembrane protein 25 [Source:RGDSymbol;Acc:15964599]"	-1.19
ENSRNOG00000003866	Cxcr4	C-X-C motif chemokine receptor 4 [Source:RGDSymbol;Acc:1309274]"	-1.22
ENSRNOG00000007850	Mok	MOK protein kinase [Source:RGD Symbol;Acc:1309274]"	-1.22
ENSRNOG0000001990	Ugt2b10	UDP glucuronosyltransferase 2 family, polypeptideB10 [Source:RGDSymbol;Acc:1309274]"	-1.22
ENSRNOG00000045644	LOC684762	similar to CG31613-PA [Source:RGDSymbol;Acc:1586732]"	-1.22
ENSRNOG00000049604	Mvk	mevalonate kinase [Source:RGD Symbol;Acc:621295]"	-1.23
ENSRNOG00000024832	Gpr158	G protein-coupled receptor 158 [Source:RGDSymbol;Acc:1309274]"	-1.24
ENSRNOG00000018232	Srf	serum response factor [Source:RGDSymbol;Acc:1559787]"	-1.25
ENSRNOG00000015057	Tmem102	transmembrane protein 102 [Source:RGDSymbol;Acc:1559787]"	-1.25
ENSRNOG00000008046	Tmem30b	transmembrane protein 30B [Source:RGDSymbol;Acc:1309274]"	-1.26
ENSRNOG00000018484	Plk3	polo-like kinase 3 [Source:RGD Symbol;Acc:62039]"	-1.27
ENSRNOG00000007886	Orm1	orosomucoid 1 [Source:RGD Symbol;Acc:67390]"	-1.27
ENSRNOG00000021403	Rhob	ras homolog family member B [Source:RGDSymbol;Acc:621295]"	-1.27
ENSRNOG00000005479	Slc1a2	solute carrier family 1 member 2 [Source:RGDSymbol;Acc:1309274]"	-1.28

ENSRNOG00000004903	Ebp	emopamil binding protein (sterol isomerase)[Source:RGD Symbol;Acc:1306163]"	-1.28
ENSRNOG00000005003	Ptprn2	protein tyrosine phosphatase, receptor type N2[Source:RGD Symbol;Acc:1306164]"	-1.28
ENSRNOG00000012862	Spsb4	splA/ryanodine receptor domain and SOCS boxcontaining 4 [Source:RGDSymbol;Acc:1306165]"	-1.30
ENSRNOG00000020989	Tm7sf2	transmembrane 7 superfamily member 2 [Source:RGDSymbol;Acc:1306166]"	-1.30
ENSRNOG00000011474	Ppp1r3b	protein phosphatase 1, regulatory subunit 3B[Source:RGD Symbol;Acc:1306167]"	-1.30
ENSRNOG00000057557	Prlr	prolactin receptor [Source:RGD Symbol;Acc:3407]"	-1.31
ENSRNOG00000048187	LOC691153	hypothetical protein LOC691153 [Source:RGDSymbol;Acc:1306168]"	-1.31
ENSRNOG00000013313	Nceh1	neutral cholesterol ester hydrolase 1 [Source:RGDSymbol;Acc:1306169]"	-1.32
ENSRNOG00000046643	Cyp3a9	cytochrome P450, family 3, subfamily a, polypeptide9 [Source:RGD Symbol;Acc:1306170]"	-1.32
ENSRNOG00000054438	LOC292543	similar to solute carrier family 7 (cationic aminoacid transp [Source:RGD Symbol;Acc:1306171]"	-1.34
ENSRNOG00000021102	Scn1b	sodium voltage-gated channel beta subunit 1[Source:RGD Symbol;Acc:1306172]"	-1.34
ENSRNOG00000039379	RGD156296	similar to chromosome 6 open reading frame 52[Source:RGD Symbol;Acc:1306173]"	-1.35
ENSRNOG0000004437	Map2k6	mitogen-activated protein kinase kinase 6[Source:RGD Symbol;Acc:1306174]"	-1.36
ENSRNOG0000001843	Bcl6	B-cell CLL/lymphoma 6 [Source:RGDSymbol;Acc:130934]"	-1.37
ENSRNOG00000011490	Angptl8	angiopoietin-like 8 [Source:RGD Symbol;Acc:2320121]"	-1.38
ENSRNOG0000000634	RGD1306739	similar to RIKEN cDNA 1700040L02 [Source:RGDSymbol;Acc:1306175]"	-1.38
ENSRNOG00000020136	Tgm1	transglutaminase 1 [Source:RGD Symbol;Acc:61838]"	-1.39
ENSRNOG00000043098	Mt2A	metallothionein 2A [Source:RGD Symbol;Acc:1592345]"	-1.40
ENSRNOG00000014367	Ephb6	Eph receptor B6 [Source:RGD Symbol;Acc:1306163]"	-1.42
ENSRNOG00000019159	Jakmip2	janus kinase and microtubule interacting protein 2[Source:RGD Symbol;Acc:1306176]"	-1.42
ENSRNOG00000011593	Hey1	hes-related family bHLH transcription factor withYRPW motif [Source:RGD Symbol;Acc:1306177]"	-1.43
ENSRNOG0000003778	Opn3	opsin 3 [Source:RGD Symbol;Acc:1594385]"	-1.45
ENSRNOG00000027949	Rfx6	regulatory factor X, 6 [Source:RGDSymbol;Acc:1307491]"	-1.46
ENSRNOG00000027024	Rgs16	regulator of G-protein signaling 16 [Source:RGDSymbol;Acc:1306178]"	-1.47
ENSRNOG00000015416	Nabp1	nucleic acid binding protein 1 [Source:RGDSymbol;Acc:1306179]"	-1.50
ENSRNOG00000045649	Arrdc3	arrestin domain containing 3 [Source:RGDSymbol;Acc:1306180]"	-1.51
ENSRNOG00000012886	Maff	MAF bZIP transcription factor F [Source:RGDSymbol;Acc:1306181]"	-1.52
ENSRNOG00000025948	RGD1311891	similar to hypothetical protein FLJ10901 [Source:RGDSymbol;Acc:1306182]"	-1.53
ENSRNOG0000005053	Egln3	egl-9 family hypoxia-inducible factor 3 [Source:RGDSymbol;Acc:1306183]"	-1.56
ENSRNOG00000017766	Car12	carbonic anhydrase 12 [Source:RGDSymbol;Acc:1306612]"	-1.56
ENSRNOG00000020254	Per2	period circadian clock 2 [Source:RGDSymbol;Acc:61945]"	-1.58
ENSRNOG0000001466	LOC1003614	cytochrome P450, family 2, subfamily c, polypeptide55-like [Source:RGD Symbol;Acc:1306184]"	-1.60
ENSRNOG00000014490	Bdh2	3-hydroxybutyrate dehydrogenase 2 [Source:RGDSymbol;Acc:1306185]"	-1.60
ENSRNOG00000053452	Actg1	actin, gamma 1 [Source:RGD Symbol;Acc:1304556]"	-1.62
ENSRNOG00000013251	Trim24	tripartite motif-containing 24 [Source:RGDSymbol;Acc:1592346]"	-1.62
ENSRNOG00000011800	F3	coagulation factor III, tissue factor [Source:RGDSymbol;Acc:1306186]"	-1.62
ENSRNOG00000038047	Mt1	metallothionein 1 [Source:RGD Symbol;Acc:3117]"	-1.64
ENSRNOG00000022863	Lingo4	leucine rich repeat and Ig domain containing 4[Source:RGD Symbol;Acc:1306187]"	-1.64
ENSRNOG00000015149	Nrg4	neuregulin 4 [Source:RGD Symbol;Acc:1589860]"	-1.68
ENSRNOG00000038909	Pou3f3	POU class 3 homeobox 3 [Source:RGDSymbol;Acc:61976]"	-1.68
ENSRNOG00000015160	Gem	GTP binding protein overexpressed in skeletal muscle[Source:RGD Symbol;Acc:1306188]"	-1.69
ENSRNOG00000036701	LOC1003614	actin, gamma 1 propeptide-like [Source:RGDSymbol;Acc:2320122]"	-1.71
ENSRNOG0000005615	Gadd45a	growth arrest and DNA-damage-inducible, alpha[Source:RGD Symbol;Acc:1306189]"	-1.73
ENSRNOG00000026293	Jun	Jun proto-oncogene, AP-1 transcription factorsubunit [Source:RGD Symbol;Acc:1306190]"	-1.75
ENSRNOG00000021669	Mybl1	myeloblastosis oncogene-like 1 [Source:RGDSymbol;Acc:1306191]"	-1.75
ENSRNOG00000054549	Lss	lanosterol synthase (2,3-oxidosqualene-lanosterolcyclase) [Source:RGD Symbol;Acc:1306192]"	-1.76
ENSRNOG00000021663	RGD1561849	similar to RIKEN cDNA 3110035E14 [Source:RGDSymbol;Acc:1306193]"	-1.77
ENSRNOG00000016552	Hmgcs1	3-hydroxy-3-methylglutaryl-CoA synthase 1[Source:RGD Symbol;Acc:1306194]"	-1.80

ENSRNOG00000020614	Phlda2	pleckstrin homology-like domain, family A, member 2 [Source:RGDSymbol;Acc:1311905]	-1.81
ENSRNOG00000029223	Prss32	protease, serine, 32 [Source:RGDSymbol;Acc:1311905]	-1.82
ENSRNOG00000002812	Lhx1	LIM homeobox 1 [Source:RGD Symbol;Acc:71074]"	-1.83
ENSRNOG00000013975	Acat2l1	acetyl-CoA acetyltransferase 2-like 1 [Source:RGDSymbol]	-1.84
ENSRNOG00000014714	Trpv6	transient receptor potential cation channel, subfamily V, member 6	-1.86
ENSRNOG00000053025	AC130391.3	-	-1.89
ENSRNOG00000001414	Serpine1	serpin family E member 1 [Source:RGDSymbol;Acc:3249]	-1.92
ENSRNOG00000030788	Olr36	olfactory receptor 36 [Source:RGDSymbol;Acc:1333325]	-1.93
ENSRNOG00000012034	Ces2i	carboxylesterase 2I [Source:RGD Symbol;Acc:1565045]"	-1.93
ENSRNOG00000002826	Hsd17b7	hydroxysteroid (17-beta) dehydrogenase 7 [Source:RGDSymbol]	-1.94
ENSRNOG00000020779	Kcna7	potassium voltage-gated channel subfamily A member 7[Source:RGDSymbol;Acc:1306445]	-1.95
ENSRNOG00000049198	Hist2h3c2	histone cluster 2, H3c2 [Source:RGDSymbol;Acc:1306445]	-1.96
ENSRNOG00000008901	Coro2a	coronin 2A [Source:RGD Symbol;Acc:1309719]"	-1.97
ENSRNOG00000025687	LOC498836	LRRK00125 [Source:RGD Symbol;Acc:1566345]"	-2.01
ENSRNOG00000023778	Gcnt2	glucosaminyl (N-acetyl) transferase 2, I-branching enzyme	-2.02
ENSRNOG00000007234	Cyp51	cytochrome P450, family 51 [Source:RGDSymbol;Acc:248]	-2.05
ENSRNOG00000032297	Msmo1	methylsterol monooxygenase 1 [Source:RGDSymbol;Acc:61306445]	-2.07
ENSRNOG00000019422	Egr1	early growth response 1 [Source:RGDSymbol;Acc:2544]	-2.15
ENSRNOG00000009550	Sqle	squalene epoxidase [Source:RGD Symbol;Acc:3755]"	-2.20
ENSRNOG00000002053	Fras1	Fraser extracellular matrix complex subunit 1[Source:RGDSymbol;Acc:1306445]	-2.22
ENSRNOG00000018755	Acss2	acyl-CoA synthetase short-chain family member 2[Source:RGDSymbol;Acc:1306445]	-2.24
ENSRNOG00000002469	Trim7	tripartite motif-containing 7 [Source:RGDSymbol;Acc:1306445]	-2.25
ENSRNOG00000050453	-	-	-2.25
ENSRNOG00000017084	Hsd11b2	hydroxysteroid 11-beta dehydrogenase 2 [Source:RGDSymbol]	-2.26
ENSRNOG00000061160	Htra4	HtrA serine peptidase 4 [Source:RGDSymbol;Acc:1306242]	-2.36
ENSRNOG00000016690	Idi1	isopentenyl-diphosphate delta isomerase 1[Source:RGD Symbol;Acc:1306445]	-2.36
ENSRNOG00000050647	Hspa1b	heat shock protein family A (Hsp70) member 1B[Source:RGDSymbol;Acc:1306445]	-2.38
ENSRNOG00000015763	Nat8f3	N-acetyltransferase 8 (GCN5-related) family member 3[Source:RGDSymbol;Acc:1306445]	-2.39
ENSRNOG00000008015	Fos	FBJ osteosarcoma oncogene [Source:RGDSymbol;Acc:262]	-2.39
ENSRNOG00000002802	Cxcl1	C-X-C motif chemokine ligand 1 [Source:RGDSymbol;Acc:1306445]	-2.49
ENSRNOG0000001259	Cux2	cut-like homeobox 2 [Source:RGD Symbol;Acc:1305967]"	-2.50
ENSRNOG00000011452	Aldoc	aldolase, fructose-bisphosphate C [Source:RGDSymbol;Acc:1306445]	-2.53
ENSRNOG00000019189	Acat2	acetyl-CoA acetyltransferase 2 [Source:RGDSymbol;Acc:1306445]	-2.54
ENSRNOG00000030316	Otogl	otogelin-like [Source:RGD Symbol;Acc:1589018]"	-2.56
ENSRNOG00000003745	Atf3	activating transcription factor 3 [Source:RGDSymbol;Acc:1306445]	-2.60
ENSRNOG00000016122	Hmgcr	3-hydroxy-3-methylglutaryl-CoA reductase [Source:RGDSymbol]	-2.64
ENSRNOG00000054978	Hist1h1c	histone cluster 1 H1 family member c [Source:RGDSymbol;Acc:1306445]	-2.66
ENSRNOG00000004476	Wif1	Wnt inhibitory factor 1 [Source:RGDSymbol;Acc:619774]	-2.68
ENSRNOG00000013953	Ntrk1	neurotrophic receptor tyrosine kinase 1 [Source:RGDSymbol;Acc:1306445]	-2.75
ENSRNOG00000046636	Hist2h4a	histone cluster 2, H4 [Source:RGDSymbol;Acc:1565073]	-2.76
ENSRNOG00000054296	Hist1h2bo	histone cluster 1 H2B family member o [Source:RGDSymbol;Acc:1306445]	-2.76
ENSRNOG00000016853	Dsg1	desmoglein 1 [Source:RGD Symbol;Acc:1309925]"	-2.83
ENSRNOG00000039390	Slc37a2	solute carrier family 37 member 2 [Source:RGDSymbol;Acc:1306445]	-2.91
ENSRNOG00000061185	Hist2h3c2	histone cluster 2, H3c2 [Source:RGDSymbol;Acc:1306445]	-2.95
ENSRNOG00000045840	Hist1h4m	histone cluster 1, H4m [Source:RGDSymbol;Acc:1306905]	-2.96
ENSRNOG00000019589	Tas1r3	taste 1 receptor member 3 [Source:RGDSymbol;Acc:62053]	-3.03
ENSRNOG00000009580	Lca5	LCA5, lebercillin [Source:RGD Symbol;Acc:1308555]"	-3.16
ENSRNOG00000045646	LOC1025491	histone H3.2-like [Source:RGD Symbol;Acc:7709329]"	-3.26

ENSRNOG00000048264	LOC684828	similar to Histone H1.2 (H1 VAR.1) (H1c) [Source:RGDSymbol;Acc:13]	-3.39
ENSRNOG00000021555	Mis18a	MIS18 kinetochore protein A [Source:RGDSymbol;Acc:13]	-3.56
ENSRNOG00000033321	Hmgb2	high mobility group box 2 [Source:RGDSymbol;Acc:6929]	-3.72
ENSRNOG00000059093	-	-	-4.01
ENSRNOG00000033515	LOC100366000	Da1-10-like [Source:RGD Symbol;Acc:2324612]"	-4.22
ENSRNOG00000046051	LOC103689999	saccharopine dehydrogenase-like oxidoreductase[Source:RGD Symbol;Acc:2324612]	-4.73

pared to MET treated DM rats

**Supplemental Table S5 The sequences of the primers used for qPCR.**

Gene Name	Orientation	Primer sequence
Unc5c	F	TTTCTCAGGACTGCCTGGCG
	R	AAAAGTCATCATCTTGAGCGGC
Srgap1	F	AGCCATAGCCAAGTTGACTAT
	R	CGTGTCTGAAAATGTATCGTCC
Sema5a	F	AGACAATAAAGGACGCCGTAA
	R	GCTTATACAAGGCACTAGAAC
Src	F	GCCCTCTCTAAGCTAAACTCTC
	R	GCAGAGAGAAGCTACCAACATAT
Plxna3	F	CTTCACCCTCAGCAGCATTAAT
	R	GGTTGATTCAACACTAACCCAC
Sema4d	F	TCATCAACACGGTCCCACAG
	R	CAGGGCTGAGCGGAACCTTA
Slit3	F	ATCAACAGTCCCCCTATCTTG
	R	CTTGAAATCCTGCAACTCGTT
Sema3c	F	ATTCAAAATGGCTGAGTGAACC
	R	CATTAGGGCATATTCTTGCAC
Smo	F	CAAGTGTGAAAATGACCGAGTG
	R	TGATGTTTGTACCTCGTTGG
Ssh1	F	TTCAGACTCACCATCTACTTGC
	R	TCTTTACTGGTGTGATCTAGGC
Sema6a	F	GTGTATTGTGTGTGATCACC
	R	TTGGTGACACTGCTCATAGATC
Ssh2	F	GAATGCGTCAAACCTAGAGGAC
	R	GCAGTGCACAAGACATTAGAT
Tubulin	F	TACCCTCGCATCCACTTCCCT
	R	CGCTTGGTCTTGATGGTGGCA