

The overexpression of fibronectin 1 promotes cancer progression and associated with M2 macrophages polarization in head and neck squamous cell carcinoma patients

Wanhang Zhou¹, Weidong Du¹, Yanfei Li², Maged Ali Al-Aroomi¹, Cong Yan¹, Yao Wang¹, Zeying Zhang¹, Fayu Liu^{1*}, Changfu Sun^{1*}

1. Department of Oral Maxillofacial-Head and Neck Surgery, School of Stomatology, China Medical University; Oral Diseases Laboratory of Liaoning, Shenyang 110000, China
2. Department of Prosthodontics, Guanghua School of Stomatology, Hospital of Stomatology, Sun Yat-sen University; Guangdong Provincial Key Laboratory of Stomatology, Guangzhou 510055, China

***Corresponding authors:**

Fayu Liu

Department of Oral Maxillofacial-Head and Neck Surgery, School of Stomatology, China Medical University; Oral Diseases Laboratory of Liaoning

117 Nanjing North Road, Heping District, Shenyang, Liaoning 110000, China

Tel: +86 24 22894773

Fax: +86 24 86602310

E-mail: lfyhjk@126.com

Changfu Sun

Department of Oral Maxillofacial-Head and Neck Surgery, School of Stomatology, China Medical University; Oral Diseases Laboratory of Liaoning

117 Nanjing North Road, Heping District, Shenyang, Liaoning 110000, China

Tel: +86 24 22894773

Fax: +86 24 86602310

E-mail: changfusun@hotmail.com

Table of contents

1. The full names of tumor abbreviation from TCGA (Table S1).....	3
2. siRNA sequences (Table S2).....	5
3. FN1 expression in HNSCC from Oncomine (Figure S1).....	6
4. Bar plot of GO&KEGG analysis (Figure S2).....	7
5. The details of GSEA on FN1 in patients with HNSCC (Table S3).....	8
6. The full list of FN1 co-expressed gene in HNSCC (Table S4).....	9

1. Table S1. The full names of tumor abbreviation from TCGA.

Abbreviations	Tumor full names
ACC	Adrenocortical carcinoma
BLCA	Bladder Urothelial Carcinoma
BRCA	Breast invasive carcinoma
CESC	Cervical squamous cell carcinoma and endocervical adenocarcinoma
CHOL	Cholangiocarcinoma
COAD	Colon adenocarcinoma
DLBC	Lymphoid Neoplasm Diffuse Large B-cell Lymphoma
ESCA	Esophageal carcinoma
GBM	Glioblastoma multiforme
HNSC	Head and Neck squamous cell carcinoma
KICH	Kidney Chromophobe
KIRC	Kidney renal clear cell carcinoma
KIRP	Kidney renal papillary cell carcinoma
LAML	Acute Myeloid Leukemia
LGG	Lower Grade Glioma
LIHC	Liver hepatocellular carcinoma
LUAD	Lung adenocarcinoma
LUSC	Lung squamous cell carcinoma
MESO	Mesothelioma
OV	Ovarian serous cystadenocarcinoma
PAAD	Ovarian serous cystadenocarcinoma
PCPG	Pheochromocytoma and Paranglioma
PRAD	Prostate adenocarcinoma
READ	Rectum adenocarcinoma
SARC	Sarcoma
SKCM	Skin Cutaneous Melanoma
STAD	Stomach adenocarcinoma
TGCT	Testicular Germ Cell Tumor
THCA	Thyroid carcinoma

THYM	Thymoma
UCEC	Uterine Corpus Endometrial Carcinoma
UCS	Uterine Carcinosarcoma
UVM	Uveal Melanoma

2. Table S2. siRNA sequences.

siRNA	Sequences
si-FN1#1	GGAAAACACTATCAGATAA
si-FN1#2	CTGCGAGAGTAAACCTGAA
si-FN1#3	GCCAACCTTTACAGACCTA

3. Figure S1. FN1 expression in HNSCC from Oncomine.

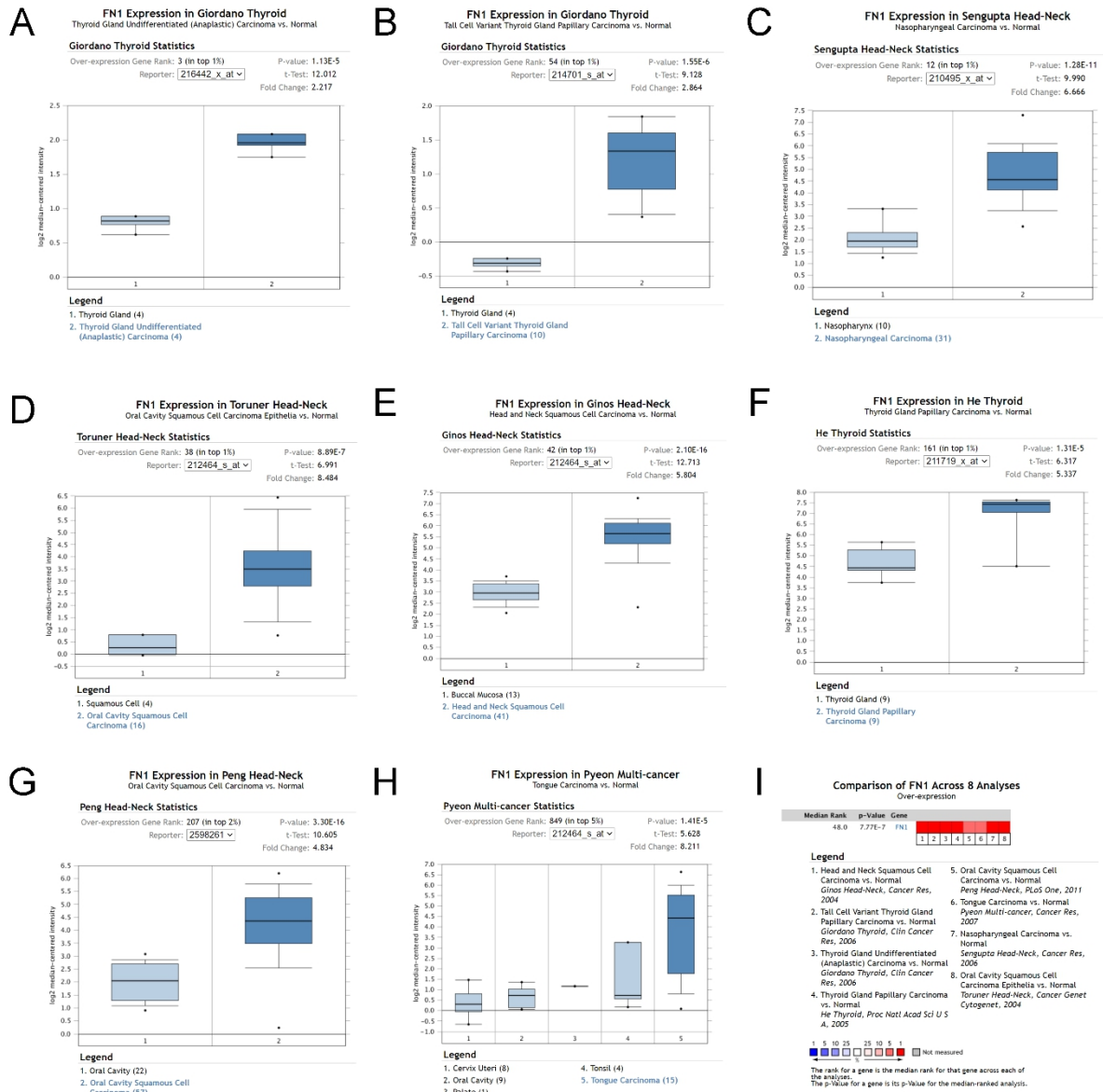


Figure S1. FN1 expression in HNSCC from Oncomine. (A–H) FN1 expression in HNSC tissue and normal tissues in eight analyses from Oncomine. (I) Meta-analysis of seven datasets from eight studies in Oncomine comparing the FN1 expression levels in HNSC tissue with those of the corresponding normal tissues.

4. Figure S2. Bar plots of GO&KEGG analysis.

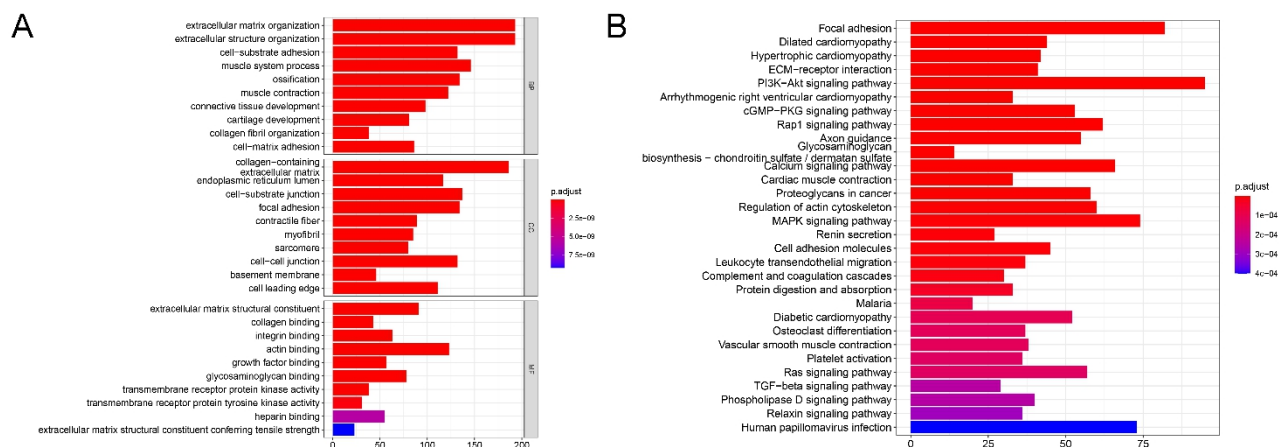


Figure S2. Bar plots of GO&KEGG analysis. (A) GO enrichment bar plot of FN1 and related genes. BP: biological process; CC: cellular component; MF: molecular function. (B) KEGG pathway bar plot of FN1 and related genes.

5. Table S3. The details of GSEA on FN1 in patients with HNSCC.

Gene sets	Size	NES	NOM <i>P</i> -value	FDR q- value
NABA_CORE_MATRISOME	273	3.76	0.003	0.0084
REACTOME_EXTRACELLULAR_MATRIX_ORGANIZATION	299	3.69	0.003	0.0084
NABA_ECM_GLYCOPROTEINS	194	3.52	0.003	0.0082
REACTOME_COLLAGEN_FORMATION	90	3.44	0.003	0.0082
KEGG_FOCAL_ADHESION	198	3.44	0.003	0.0082
KEGG_ECM_RECEPTOR_INTERACTION	82	3.38	0.003	0.0082
REACTOME_ECM_PROTEOGLYCANS	75	3.37	0.003	0.0082
REACTOME_DEGRADATION_OF_THE_EXTRACELLULAR_MATRIX	139	3.35	0.003	0.0082
REACTOME_ASSEMBLY_OF_COLLAGEN_FIBRILS_AND_OTHER_MULTIMERIC_STRUCTURES	61	3.29	0.003	0.0082
REACTOME_COLLAGEN_BIOSYNTHESIS_AND_MODIFYING_ENZYMES	67	3.28	0.003	0.0082
REACTOME_COLLAGEN_DEGRADATION	64	3.25	0.003	0.0082
WP_FOCAL_ADHESION	197	3.21	0.003	0.0082
PID_AVB3_INTEGRIN_PATHWAY	73	3.18	0.003	0.0082
PID_INTEGRIN1_PATHWAY	65	3.18	0.003	0.0082
REACTOME_INTEGRIN_CELL_SURFACE_INTERACTIONS	83	3.14	0.003	0.0082
REACTOME_NON_INTEGRIN_MEMBRANE_ECM_INTERACTIONS	58	3.13	0.003	0.0082
KEGG_HYPERTROPHIC_CARDIOMYOPATHY_HCM	83	3.13	0.003	0.0082
REACTOME_FORMATION_OF_THE_CORNIFIED_ENVELOPE	128	-3.12	0.002	0.0082
REACTOME_MUSCLE_CONTRACTION	205	3.12	0.003	0.0084
KEGG_DILATED_CARDIOMYOPATHY	90	3.06	0.003	0.0082
REACTOME_O_GLYCOSYLATION_OF_TSR_DOMAIN_CONTAINING_PROTEINS	38	3.03	0.002	0.0082
NABA_COLLAGENS	44	3.02	0.003	0.0082
REACTOME_COLLAGEN_CHAIN_TRIMERIZATION	44	3.02	0.003	0.0082
REACTOME_ELASTIC_FIBRE_FORMATION	44	3.02	0.003	0.0082
WP_ENDOCHONDRAL_OSSIFICATION	64	3.01	0.003	0.0082
WP_ENDOCHONDRAL_OSSIFICATION_WITH_SKELETAL_DYSPLASIAS	64	3.01	0.003	0.0082

6. Table S4. The full list of FN1 co-expressed gene in HNSCC

Query	Pearson correlation	P-value	FDR (BH)	Event_SD	Event_TD
FN1	1	1.00E-148	1.00E-144	520	520
POSTN	0.853273503	1.37E-148	1.38E-144	520	520
COL1A1	0.849841442	3.38E-146	2.27E-142	520	520
NID2	0.846815067	3.90E-144	1.97E-140	520	520
COL5A1	0.842351829	3.56E-141	1.44E-137	520	520
COL1A2	0.840082823	1.05E-139	3.53E-136	520	520
COL3A1	0.838603974	9.28E-139	2.67E-135	520	520
ADAM12	0.830621934	8.16E-134	1.86E-130	520	520
COL6A3	0.830608936	8.31E-134	1.86E-130	520	520
COL5A2	0.829588132	3.41E-133	6.88E-130	520	520
VCAN	0.824256865	4.71E-130	8.63E-127	520	520
DACT1	0.819787834	1.67E-127	2.81E-124	520	520
SPARC	0.819268286	3.28E-127	5.09E-124	520	520
FSTL1	0.815869137	2.53E-125	3.64E-122	520	520
LAMA4	0.81328507	6.49E-124	8.72E-121	520	520
ZNF469	0.811170062	8.89E-123	1.12E-119	520	520
FAP	0.810599385	1.79E-122	2.12E-119	520	520
CALD1	0.809542145	6.52E-122	7.30E-119	520	520
GLT8D2	0.807535266	7.40E-121	7.86E-118	520	520
OLFML2B	0.804999086	1.53E-119	1.54E-116	520	520
COL6A1	0.804338922	3.35E-119	3.21E-116	520	520
PDGFRB	0.802893166	1.83E-118	1.68E-115	520	520
FAM198B	0.800182543	4.29E-117	3.76E-114	520	520
TIMP2	0.797909787	5.80E-116	4.87E-113	520	520
MSRB3	0.797498713	9.25E-116	7.46E-113	520	520
COL6A2	0.78897937	1.18E-111	9.04E-109	520	520
TNFAIP6	0.788955564	1.21E-111	9.04E-109	520	520
ADAMTS12	0.787721909	4.59E-111	3.31E-108	520	520
GPR124	0.787367424	6.72E-111	4.67E-108	520	520
AEBP1	0.786906017	1.10E-110	7.41E-108	520	520
LOXL2	0.785467247	5.12E-110	3.33E-107	520	520
ADAMTS2	0.784811246	1.03E-109	6.48E-107	520	519
KCNE4	0.781357811	3.86E-108	2.36E-105	520	520
FBN1	0.78067529	7.85E-108	4.65E-105	520	520
EMILIN1	0.780191078	1.30E-107	7.46E-105	520	520
SULF1	0.778331147	8.78E-107	4.92E-104	520	520
TAGLN	0.773714506	9.38E-105	5.11E-102	520	520
PCOLCE	0.772961209	1.99E-104	1.06E-101	520	520
COL8A1	0.770741752	1.79E-103	9.27E-101	520	520
ITGA11	0.76539538	3.23E-101	1.63E-98	520	520
CDH11	0.765181192	3.97E-101	1.95E-98	520	520

LRRC32	0.7635321	1.91E-100	9.18E-98	520	520
MXRA5	0.762750365	4.01E-100	1.88E-97	520	520
COL10A1	0.759420925	9.12E-99	4.18E-96	520	520
ITGA1	0.758743756	1.71E-98	7.67E-96	520	520
CTHRC1	0.756902542	9.37E-98	4.11E-95	520	520
GPC6	0.755982197	2.18E-97	9.35E-95	520	520
MMP2	0.755716676	2.78E-97	1.17E-94	520	520
HEYL	0.752002213	8.04E-96	3.31E-93	520	520
NTM	0.75161873	1.13E-95	4.57E-93	520	520
VIM	0.746926753	7.25E-94	2.87E-91	520	520
KIAA1462	0.746023932	1.60E-93	6.20E-91	520	520
MMP14	0.745540074	2.44E-93	9.27E-91	520	520
CDH2	0.744993128	3.92E-93	1.46E-90	520	513
MMP16	0.744318882	7.03E-93	2.58E-90	520	518
MICAL2	0.742261194	4.14E-92	1.49E-89	520	520
OLFML3	0.739826299	3.30E-91	1.17E-88	520	520
STARD13	0.738785312	7.97E-91	2.77E-88	520	520
P4HA3	0.73728768	2.81E-90	9.60E-88	520	520
SDC2	0.737009182	3.55E-90	1.19E-87	520	520
ST3GAL2	0.736942738	3.75E-90	1.24E-87	520	520
NOX4	0.734320769	3.32E-89	1.08E-86	520	520
DAB2	0.733265583	7.93E-89	2.54E-86	520	520
FERMT2	0.731433338	3.56E-88	1.12E-85	520	520
COL11A1	0.730622962	6.89E-88	2.14E-85	520	518
COL5A3	0.730028221	1.12E-87	3.41E-85	520	520
ITGB3	0.729561607	1.63E-87	4.90E-85	520	518
SFRP2	0.728074947	5.40E-87	1.60E-84	520	520
THY1	0.727982207	5.82E-87	1.70E-84	520	520
COL4A1	0.727330742	9.82E-87	2.83E-84	520	520
SCARF2	0.726045299	2.74E-86	7.79E-84	520	520
BMP8A	0.724591888	8.70E-86	2.44E-83	520	520
FIBIN	0.72211355	6.12E-85	1.69E-82	520	519
ADAMTS6	0.721597725	9.16E-85	2.50E-82	520	518
ACTA2	0.721563951	9.41E-85	2.53E-82	520	520
ADAMTS5	0.7212606	1.19E-84	3.16E-82	520	520
PMP22	0.720984461	1.48E-84	3.87E-82	520	520
BICC1	0.720914888	1.56E-84	4.04E-82	520	513
HEPH	0.719036362	6.70E-84	1.71E-81	520	520
RASGRF2	0.717812274	1.72E-83	4.34E-81	520	520
MYL9	0.717334852	2.48E-83	6.18E-81	520	520
THBS2	0.714861846	1.64E-82	4.03E-80	520	520
PXDN	0.714596129	2.00E-82	4.87E-80	520	520
BGN	0.713506399	4.57E-82	1.10E-79	520	520
CALU	0.712479991	9.89E-82	2.35E-79	520	520
PHLDB1	0.712158861	1.26E-81	2.95E-79	520	520
CTSK	0.711965078	1.45E-81	3.37E-79	520	520

GLIS3	0.71017571	5.53E-81	1.27E-78	520	519
ZEB2	0.709895644	6.81E-81	1.54E-78	520	520
ZEB1	0.709367606	1.01E-80	2.26E-78	520	520
COL24A1	0.709263489	1.09E-80	2.41E-78	520	518
AXL	0.707829271	3.14E-80	6.88E-78	520	520
SGCD	0.707639441	3.61E-80	7.83E-78	520	520
MXRA8	0.707151312	5.17E-80	1.11E-77	520	520
OLFML1	0.706363123	9.21E-80	1.95E-77	520	520
COLEC12	0.706311111	9.56E-80	2.01E-77	520	520
EFEMP2	0.705856878	1.33E-79	2.77E-77	520	520
PPAPDC1A	0.704241273	4.32E-79	8.89E-77	520	516
DLC1	0.702559486	1.46E-78	2.97E-76	520	520
BNC2	0.702387996	1.65E-78	3.32E-76	520	520
AKAP12	0.702346463	1.70E-78	3.39E-76	520	520
COL4A2	0.700568646	6.07E-78	1.20E-75	520	520
TGFB1I1	0.69992347	9.62E-78	1.88E-75	520	520
HIC1	0.699086032	1.74E-77	3.38E-75	520	520
ADAMTS16	0.698715338	2.27E-77	4.36E-75	520	475
CRISPLD2	0.696604554	1.01E-76	1.91E-74	520	520
SSC5D	0.695871668	1.68E-76	3.17E-74	520	520
ADAMTS14	0.695814077	1.75E-76	3.27E-74	520	520
ECM2	0.694441989	4.56E-76	8.44E-74	520	520
COL12A1	0.693497589	8.79E-76	1.61E-73	520	520
VGLL3	0.693024179	1.22E-75	2.22E-73	520	520
F2R	0.693000524	1.24E-75	2.23E-73	520	520
IGFBP7	0.691853259	2.74E-75	4.89E-73	520	520
ALPK2	0.690743397	5.88E-75	1.04E-72	520	520
ADAMTS4	0.690428194	7.29E-75	1.28E-72	520	520
KCND2	0.689593575	1.29E-74	2.24E-72	520	508
CMTM3	0.689373612	1.50E-74	2.58E-72	520	520
AMPH	0.689239309	1.64E-74	2.81E-72	520	516
GREM1	0.688618202	2.51E-74	4.25E-72	520	520
FLJ10357	0.688292892	3.13E-74	5.26E-72	520	520
FAM26E	0.688165421	3.41E-74	5.68E-72	520	520
FKBP7	0.688140867	3.47E-74	5.73E-72	520	519
TPM1	0.686783156	8.69E-74	1.42E-71	520	520
MAGEL2	0.686667297	9.40E-74	1.53E-71	520	486
CREB3L1	0.685895978	1.58E-73	2.55E-71	520	520
CTGF	0.685354258	2.27E-73	3.64E-71	520	520
LAMB1	0.684022089	5.54E-73	8.80E-71	520	520
TNS3	0.683979259	5.70E-73	8.98E-71	520	520
CNN1	0.683161479	9.83E-73	1.54E-70	520	520
IGDCC4	0.681625463	2.72E-72	4.22E-70	520	520
CHSY3	0.680740048	4.88E-72	7.52E-70	520	520
DAAM2	0.680138742	7.25E-72	1.11E-69	520	520
TGFB3	0.679814002	8.98E-72	1.36E-69	520	520

ENPEP	0.67925557	1.29E-71	1.95E-69	520	520
TMEM26	0.679177116	1.36E-71	2.04E-69	520	518
KIF26B	0.678864572	1.67E-71	2.48E-69	520	520
LHFP	0.678512188	2.10E-71	3.10E-69	520	520
CERCAM	0.6781296	2.70E-71	3.95E-69	520	520
LRRC15	0.678118214	2.72E-71	3.95E-69	520	520
GUCY1A2	0.677578431	3.87E-71	5.57E-69	520	519
ATP10A	0.677543662	3.95E-71	5.66E-69	520	520
HHIPL1	0.677514272	4.03E-71	5.72E-69	520	520
TIMP3	0.676930365	5.89E-71	8.31E-69	520	520
RECK	0.676778283	6.50E-71	9.10E-69	520	519
ADAMTS7	0.676719303	6.75E-71	9.39E-69	520	520
HTRA3	0.676332309	8.68E-71	1.20E-68	520	520
AGTR1	0.67620403	9.43E-71	1.29E-68	520	450
LEPRE1	0.67555799	1.43E-70	1.95E-68	520	520
LRRC17	0.675199272	1.80E-70	2.44E-68	520	517
RCN3	0.675125099	1.89E-70	2.54E-68	520	520
ARHGEF17	0.674954202	2.11E-70	2.82E-68	520	520
SLC24A2	0.673423778	5.64E-70	7.48E-68	520	455
ENPP1	0.673409919	5.69E-70	7.50E-68	520	520
PCDH18	0.673343118	5.94E-70	7.77E-68	520	520
ISLR	0.673182138	6.58E-70	8.56E-68	520	520
EDNRA	0.67303632	7.22E-70	9.34E-68	520	520
GPX8	0.67232867	1.13E-69	1.46E-67	520	520
MAP1A	0.669795481	5.65E-69	7.21E-67	520	520
SYDE1	0.669486174	6.87E-69	8.71E-67	520	520
TM6SF2	0.668709947	1.12E-68	1.41E-66	520	496
FBLN2	0.66795013	1.80E-68	2.26E-66	520	520
FNDC1	0.66732673	2.66E-68	3.31E-66	520	520
S1PR3	0.666719777	3.89E-68	4.81E-66	520	520
ZCCHC24	0.666410428	4.71E-68	5.80E-66	520	520
SGIP1	0.666277601	5.12E-68	6.26E-66	520	520
PGCP	0.666011854	6.04E-68	7.34E-66	520	520
CCIN	0.665725668	7.21E-68	8.71E-66	520	474
DDR2	0.664648077	1.41E-67	1.69E-65	520	518
CNRIP1	0.662516661	5.22E-67	6.23E-65	520	520
CPXM1	0.662082793	6.82E-67	8.08E-65	520	520
WISP1	0.661431863	1.01E-66	1.20E-64	520	519
ANGPTL2	0.66097969	1.34E-66	1.57E-64	520	520
LOXL3	0.660528333	1.76E-66	2.05E-64	520	519
SPOCK1	0.659980344	2.46E-66	2.85E-64	520	520
GALNTL2	0.659791569	2.75E-66	3.17E-64	520	520
PPEF1	0.659143199	4.08E-66	4.67E-64	520	516
THBS1	0.657278	1.26E-65	1.43E-63	520	520
UNC5C	0.657077504	1.42E-65	1.61E-63	520	475
C6orf174	0.655976524	2.74E-65	3.09E-63	520	516

ANTXR1	0.655746359	3.15E-65	3.52E-63	520	520
PLXDC1	0.655085319	4.67E-65	5.20E-63	520	520
TMEM200A	0.651975702	2.94E-64	3.26E-62	520	518
ZNF423	0.651730456	3.40E-64	3.75E-62	520	520
ADAM19	0.650837647	5.75E-64	6.30E-62	520	520
KIAA1755	0.650785233	5.93E-64	6.46E-62	520	518
RUNX2	0.65051201	6.96E-64	7.54E-62	520	520
HMCN1	0.649736754	1.09E-63	1.18E-61	520	520
SERPINH1	0.649669806	1.14E-63	1.22E-61	520	520
MMP11	0.648689487	2.02E-63	2.15E-61	520	520
PALM2-AKAP2	0.64768588	3.61E-63	3.83E-61	520	520
LTBP2	0.647343402	4.40E-63	4.65E-61	520	520
C16orf45	0.647300731	4.51E-63	4.74E-61	520	520
ABCC9	0.646661469	6.53E-63	6.82E-61	520	519
MRC2	0.646524367	7.06E-63	7.34E-61	520	520
CHN1	0.646510374	7.12E-63	7.36E-61	520	520
CSMD2	0.646001896	9.55E-63	9.82E-61	520	520
PDE3A	0.645339195	1.40E-62	1.43E-60	520	512
SLC41A2	0.645133947	1.57E-62	1.60E-60	520	520
PARVA	0.645092544	1.61E-62	1.63E-60	520	520
DACT3	0.643636471	3.71E-62	3.74E-60	520	520
CHRD	0.643049664	5.18E-62	5.19E-60	520	520
CACNA1C	0.642510019	7.04E-62	7.03E-60	520	520
ZNF521	0.641666227	1.14E-61	1.13E-59	520	520
PRRX1	0.641324068	1.38E-61	1.36E-59	520	520
ITGA5	0.640856983	1.80E-61	1.77E-59	520	520
PCDH12	0.640844927	1.81E-61	1.77E-59	520	520
GGT5	0.640840914	1.81E-61	1.77E-59	520	520
TCEAL7	0.64057852	2.10E-61	2.04E-59	520	517
MRAS	0.640531555	2.16E-61	2.08E-59	520	520
JAM3	0.640236785	2.55E-61	2.45E-59	520	520
NAP1L3	0.639976833	2.95E-61	2.82E-59	520	513
WNT2	0.636564253	1.99E-60	1.89E-58	520	516
FILIP1L	0.635795155	3.05E-60	2.89E-58	520	520
MATN3	0.635191782	4.26E-60	4.01E-58	520	519
CDR1	0.634995513	4.75E-60	4.45E-58	520	425
GXYLT2	0.634382456	6.66E-60	6.22E-58	520	519
SHANK1	0.634042222	8.04E-60	7.47E-58	520	499
GUCY1A3	0.632606014	1.77E-59	1.64E-57	520	520
FBXL7	0.632503612	1.87E-59	1.72E-57	520	520
EVC	0.632252105	2.15E-59	1.97E-57	520	520
KDELR3	0.632238573	2.16E-59	1.97E-57	520	520
EPDR1	0.631894551	2.61E-59	2.37E-57	520	518
NUAK1	0.63151576	3.21E-59	2.90E-57	520	520
EBF1	0.631321211	3.57E-59	3.21E-57	520	520
FAM101A	0.631067896	4.10E-59	3.67E-57	520	519

FAM176A	0.63101777	4.21E-59	3.76E-57	520	520
C5orf13	0.630577625	5.35E-59	4.75E-57	520	520
TSHZ3	0.630050677	7.13E-59	6.30E-57	520	520
PDGFB	0.629601472	9.09E-59	8.01E-57	520	520
FKBP10	0.628740024	1.45E-58	1.27E-56	520	520
NID1	0.628464699	1.68E-58	1.47E-56	520	520
LAMB2	0.628444845	1.70E-58	1.48E-56	520	520
CSGALNACT2	0.627762416	2.45E-58	2.12E-56	520	520
DCN	0.627518575	2.80E-58	2.41E-56	520	520
TBXA2R	0.626458067	4.95E-58	4.24E-56	520	520
TMEM47	0.626016178	6.26E-58	5.35E-56	520	520
DCHS1	0.625954786	6.47E-58	5.51E-56	520	520
KCNJ8	0.625628371	7.71E-58	6.53E-56	520	520
LMCD1	0.625294651	9.21E-58	7.77E-56	520	520
RCAN2	0.624434381	1.46E-57	1.22E-55	520	520
ASPN	0.6240169	1.82E-57	1.52E-55	520	520
SAMD14	0.623904416	1.93E-57	1.61E-55	520	519
CCDC80	0.622597826	3.85E-57	3.20E-55	520	520
RHOJ	0.622551126	3.95E-57	3.27E-55	520	520
LPAR4	0.621223331	7.95E-57	6.55E-55	520	482
DLG4	0.620710034	1.04E-56	8.54E-55	520	520
PTPRM	0.620596052	1.11E-56	9.03E-55	520	520
DOK5	0.620153639	1.39E-56	1.13E-54	520	516
TMEM119	0.618905288	2.68E-56	2.17E-54	520	520
LAMC1	0.617657299	5.12E-56	4.13E-54	520	520
C9orf110	0.617338528	6.04E-56	4.85E-54	520	520
NRP1	0.617082097	6.90E-56	5.52E-54	520	520
BTBD19	0.615001648	2.02E-55	1.61E-53	520	516
SNAI1	0.614220316	3.01E-55	2.39E-53	520	520
MFRP	0.613460935	4.45E-55	3.52E-53	520	520
RHOBTB1	0.61237337	7.74E-55	6.10E-53	520	520
FMNL3	0.611431568	1.25E-54	9.80E-53	520	520
EBF2	0.610965409	1.58E-54	1.24E-52	520	478
PCDHGA12	0.61079447	1.73E-54	1.34E-52	520	508
PDGFRL	0.610457385	2.05E-54	1.59E-52	520	518
ANXA6	0.608917213	4.45E-54	3.44E-52	520	520
LAMA2	0.608831814	4.65E-54	3.58E-52	520	520
CHSY1	0.608462098	5.59E-54	4.29E-52	520	520
DOK6	0.60839055	5.80E-54	4.43E-52	520	514
ARSB	0.608266672	6.17E-54	4.70E-52	520	520
C1QTNF6	0.607872349	7.52E-54	5.70E-52	520	520
LHFPL2	0.607208706	1.05E-53	7.92E-52	520	520
ARMC9	0.606725913	1.33E-53	1.00E-51	520	520
LMOD1	0.606594049	1.42E-53	1.07E-51	520	520
TMEM90B	0.60615983	1.77E-53	1.32E-51	520	514
CYS1	0.606151346	1.78E-53	1.32E-51	520	520

RGS4	0.605350823	2.65E-53	1.96E-51	520	520
GAS1	0.60519331	2.86E-53	2.11E-51	520	520
CD248	0.60498243	3.18E-53	2.34E-51	520	520
C12orf23	0.604976664	3.18E-53	2.34E-51	520	520
CLSTN2	0.604774422	3.52E-53	2.57E-51	520	519
LRCH2	0.604459856	4.11E-53	2.99E-51	520	519
F13A1	0.603657977	6.12E-53	4.44E-51	520	520
KANK2	0.602521473	1.07E-52	7.74E-51	520	520
PNMA2	0.602401239	1.14E-52	8.18E-51	520	518
ANPEP	0.602280646	1.20E-52	8.65E-51	520	520
SYT11	0.602140447	1.29E-52	9.23E-51	520	520
ST8SIA2	0.60204513	1.35E-52	9.64E-51	520	517
DCLK3	0.601816462	1.51E-52	1.07E-50	520	518
EDA2R	0.60169809	1.60E-52	1.13E-50	520	514
DIXDC1	0.601413366	1.84E-52	1.30E-50	520	520
GPR116	0.601209614	2.04E-52	1.43E-50	520	520
C14orf37	0.600604004	2.74E-52	1.92E-50	520	520
ADAMTSL1	0.600576181	2.78E-52	1.94E-50	520	519
COL15A1	0.599567872	4.54E-52	3.16E-50	520	520
GPR173	0.599264596	5.26E-52	3.64E-50	520	501
PTK7	0.599088959	5.73E-52	3.96E-50	520	520
RASA3	0.598493336	7.65E-52	5.26E-50	520	520
LUM	0.598486814	7.67E-52	5.26E-50	520	520
CNIH3	0.597927984	1.01E-51	6.87E-50	520	518
SEC24D	0.597626356	1.16E-51	7.93E-50	520	520
TNN	0.595844822	2.74E-51	1.86E-49	520	514
TMEM204	0.595556888	3.15E-51	2.13E-49	520	520
TWIST1	0.595532461	3.19E-51	2.15E-49	520	520
SOX11	0.595337595	3.50E-51	2.35E-49	520	518
STARD8	0.594791949	4.55E-51	3.05E-49	520	520
FBLN5	0.594244983	5.90E-51	3.94E-49	520	520
NHSL2	0.594164587	6.14E-51	4.08E-49	520	516
COL18A1	0.594140492	6.21E-51	4.12E-49	520	520
FMOD	0.594012163	6.60E-51	4.36E-49	520	520
SH3RF3	0.593049	1.04E-50	6.88E-49	520	520
ASAM	0.592682266	1.24E-50	8.16E-49	520	520
PTGDR	0.592267839	1.51E-50	9.90E-49	520	515
AOC3	0.59225148	1.52E-50	9.95E-49	520	520
CD93	0.59214269	1.61E-50	1.04E-48	520	520
SRPX	0.591960179	1.75E-50	1.13E-48	520	520
DIRC1	0.590894112	2.90E-50	1.87E-48	520	412
PTPRN	0.590642099	3.26E-50	2.10E-48	520	508
CLEC11A	0.590445657	3.58E-50	2.30E-48	520	520
ENOX1	0.590197147	4.02E-50	2.58E-48	520	517
PMEPA1	0.590169365	4.08E-50	2.60E-48	520	520
CPZ	0.589949988	4.52E-50	2.88E-48	520	520

SCG5	0.589838797	4.76E-50	3.02E-48	520	520
RAB3IL1	0.589707152	5.07E-50	3.20E-48	520	520
SSPN	0.589674256	5.15E-50	3.24E-48	520	520
GPR4	0.589660231	5.18E-50	3.25E-48	520	520
C13orf33	0.58965217	5.20E-50	3.26E-48	520	520
MARVELD1	0.588252707	1.00E-49	6.26E-48	520	520
FZD4	0.587997291	1.13E-49	7.03E-48	520	520
PLXNC1	0.587638535	1.34E-49	8.28E-48	520	519
C10orf72	0.587423296	1.48E-49	9.13E-48	520	520
ODZ3	0.586845643	1.93E-49	1.19E-47	520	520
KANK4	0.586632024	2.13E-49	1.31E-47	520	517
PPFIA2	0.586625269	2.14E-49	1.31E-47	520	440
NNMT	0.585726516	3.25E-49	1.99E-47	520	520
FGFR1	0.585395324	3.79E-49	2.31E-47	520	520
PDGFC	0.585290583	3.98E-49	2.41E-47	520	520
ENC1	0.585159941	4.22E-49	2.56E-47	520	520
HSPG2	0.584732092	5.15E-49	3.11E-47	520	520
C4orf31	0.58452482	5.66E-49	3.41E-47	520	510
TTYH3	0.584391183	6.03E-49	3.61E-47	520	520
PRSS23	0.584390094	6.03E-49	3.61E-47	520	520
SFRP4	0.584278585	6.35E-49	3.79E-47	520	520
TIE1	0.583731396	8.17E-49	4.86E-47	520	520
RASL12	0.583678953	8.37E-49	4.96E-47	520	520
SCG2	0.583277602	1.01E-48	5.95E-47	520	520
ST6GAL2	0.582738498	1.29E-48	7.58E-47	520	509
ARHGAP31	0.582736226	1.29E-48	7.58E-47	520	520
MFAP5	0.582177636	1.67E-48	9.77E-47	520	520
SLC39A14	0.580764344	3.18E-48	1.86E-46	520	520
NPR2	0.58002891	4.44E-48	2.59E-46	520	520
RAI14	0.579533586	5.56E-48	3.23E-46	520	520
PODN	0.579520659	5.59E-48	3.24E-46	520	520
RUNX1T1	0.579217457	6.42E-48	3.71E-46	520	498
PRKG1	0.579177381	6.54E-48	3.77E-46	520	513
FAM19A5	0.579106802	6.75E-48	3.88E-46	520	520
KIAA1024	0.578621321	8.41E-48	4.82E-46	520	519
SPON1	0.577975207	1.13E-47	6.43E-46	520	520
DENND2A	0.577720847	1.26E-47	7.19E-46	520	520
CCDC102B	0.577177702	1.61E-47	9.16E-46	520	520
SYNE1	0.577115839	1.66E-47	9.39E-46	520	520
VEPH1	0.576673415	2.02E-47	1.14E-45	520	496
HEG1	0.57503004	4.22E-47	2.38E-45	520	520
ACVRL1	0.574616643	5.08E-47	2.85E-45	520	520
FYN	0.574363728	5.69E-47	3.19E-45	520	520
C20orf103	0.574175711	6.18E-47	3.45E-45	520	520
C3orf18	0.573932695	6.89E-47	3.84E-45	520	520
LATS2	0.57384187	7.18E-47	3.99E-45	520	520

FAM101B	0.573623947	7.91E-47	4.38E-45	520	520
SGCB	0.573203187	9.53E-47	5.27E-45	520	520
GIPC3	0.573073528	1.01E-46	5.56E-45	520	520
ACSS3	0.57187009	1.72E-46	9.45E-45	520	512
PLXND1	0.571731628	1.83E-46	1.00E-44	520	520
RASSF8	0.571500072	2.03E-46	1.11E-44	520	520
PDGFRA	0.571313871	2.20E-46	1.20E-44	520	520
INHBA	0.570973473	2.55E-46	1.39E-44	520	520
NEGR1	0.570963619	2.57E-46	1.39E-44	520	518
RUNX1	0.57072388	2.85E-46	1.54E-44	520	520
A2M	0.570690181	2.89E-46	1.56E-44	520	520
SLC2A3	0.57050053	3.15E-46	1.69E-44	520	520
MME	0.570491013	3.16E-46	1.69E-44	520	520
WDR86	0.570320434	3.41E-46	1.82E-44	520	517
PTPRG	0.570135693	3.69E-46	1.97E-44	520	520
FLJ22536	0.569957255	3.99E-46	2.13E-44	520	519
SGK269	0.56892269	6.29E-46	3.34E-44	520	520
ALDH1B1	0.568761693	6.74E-46	3.57E-44	520	520
CACNA1H	0.568611973	7.20E-46	3.80E-44	520	520
PDZRN3	0.56843595	7.78E-46	4.09E-44	520	520
CDK14	0.568305515	8.23E-46	4.32E-44	520	520
ETS1	0.567561012	1.14E-45	5.96E-44	520	520
DSEL	0.567299346	1.28E-45	6.67E-44	520	520
ITGBL1	0.567039667	1.43E-45	7.44E-44	520	519
PTH1R	0.566676925	1.67E-45	8.69E-44	520	520
NALCN	0.566576875	1.75E-45	9.04E-44	520	463
SLC2A14	0.566575072	1.75E-45	9.04E-44	520	517
BST1	0.566400192	1.89E-45	9.73E-44	520	520
PPAPDC3	0.565961291	2.28E-45	1.17E-43	520	520
LOXL1	0.5650927	3.32E-45	1.70E-43	520	520
HAS2	0.564617405	4.08E-45	2.09E-43	520	520
CORO2B	0.564548408	4.20E-45	2.14E-43	520	516
ATP8B2	0.564290433	4.69E-45	2.39E-43	520	520
RUSC2	0.564087634	5.12E-45	2.60E-43	520	520
TNS1	0.563984032	5.36E-45	2.71E-43	520	520
TMEM55A	0.563656928	6.16E-45	3.12E-43	520	520
DYSF	0.563202971	7.49E-45	3.78E-43	520	520
TCF4	0.563191506	7.53E-45	3.79E-43	520	520
CLIC4	0.562730026	9.17E-45	4.60E-43	520	520
CEP170	0.562382515	1.06E-44	5.33E-43	520	520
MGRPRF	0.561888546	1.31E-44	6.56E-43	520	520
ANTXR2	0.561721837	1.41E-44	7.03E-43	520	520
TMEM2	0.561597013	1.49E-44	7.40E-43	520	520
LDB2	0.561494057	1.56E-44	7.71E-43	520	520
EDIL3	0.561390417	1.63E-44	8.04E-43	520	514
MEIS3	0.561039642	1.89E-44	9.31E-43	520	520

MSC	0.560900184	2.00E-44	9.86E-43	520	520
FGD5	0.560573077	2.30E-44	1.13E-42	520	520
TMEFF1	0.560124615	2.79E-44	1.36E-42	520	520
KDELC1	0.560109536	2.80E-44	1.37E-42	520	520
KCTD12	0.560005768	2.93E-44	1.43E-42	520	520
GUCY1B3	0.559447835	3.71E-44	1.80E-42	520	520
CHST15	0.559370354	3.84E-44	1.86E-42	520	520
LOC399959	0.559001947	4.48E-44	2.17E-42	520	520
PKD2	0.558951989	4.58E-44	2.21E-42	520	520
AK5	0.558813802	4.86E-44	2.34E-42	520	510
LZTS1	0.557985141	6.89E-44	3.31E-42	520	520
TSPAN2	0.557918756	7.08E-44	3.39E-42	520	518
DCLK1	0.557840175	7.32E-44	3.50E-42	520	516
HSPA12B	0.557799602	7.45E-44	3.55E-42	520	520
LOC149837	0.557649963	7.93E-44	3.77E-42	520	512
PGM2L1	0.556983564	1.05E-43	4.98E-42	520	520
FBLN7	0.556799891	1.13E-43	5.37E-42	520	520
PTGER2	0.556377262	1.35E-43	6.39E-42	520	519
LEPREL2	0.556342022	1.37E-43	6.47E-42	520	520
NKX3-2	0.556223994	1.44E-43	6.79E-42	520	504
BMP1	0.55613754	1.50E-43	7.02E-42	520	520
NTNG2	0.555518355	1.94E-43	9.07E-42	520	519
ARHGAP6	0.555514329	1.94E-43	9.07E-42	520	518
TGFB2	0.55440366	3.09E-43	1.44E-41	520	520
EPHA3	0.554267986	3.27E-43	1.52E-41	520	518
GRID1	0.553540514	4.42E-43	2.05E-41	520	519
SPON2	0.552678536	6.32E-43	2.92E-41	520	520
APBB2	0.552611892	6.50E-43	2.99E-41	520	520
PLBD2	0.552609441	6.51E-43	2.99E-41	520	520
ZCCHC5	0.552595718	6.54E-43	3.01E-41	520	429
PRKCA	0.552149416	7.87E-43	3.61E-41	520	520
STX2	0.552028775	8.27E-43	3.78E-41	520	520
PKIG	0.551403536	1.07E-42	4.88E-41	520	520
PAPSS2	0.551243183	1.14E-42	5.21E-41	520	520
SLC2A10	0.551108566	1.21E-42	5.49E-41	520	519
LPPR4	0.549670523	2.18E-42	9.89E-41	520	518
PRICKLE1	0.549363685	2.47E-42	1.12E-40	520	520
TUBA1A	0.548891871	3.00E-42	1.35E-40	520	520
OMD	0.548005712	4.31E-42	1.94E-40	520	508
CORIN	0.547994211	4.33E-42	1.94E-40	520	520
HTRA1	0.547196073	5.99E-42	2.68E-40	520	520
VASH1	0.547119508	6.18E-42	2.76E-40	520	520
MYADM	0.546915221	6.71E-42	3.00E-40	520	520
FKBP14	0.546642929	7.50E-42	3.34E-40	520	520
GLIS2	0.546410385	8.24E-42	3.66E-40	520	520
RBMS3	0.546308482	8.59E-42	3.81E-40	520	518

SH3PXD2B	0.546092169	9.37E-42	4.15E-40	520	520
AKAP2	0.545909107	1.01E-41	4.45E-40	520	509
CXCL12	0.545845221	1.04E-41	4.56E-40	520	520
FUT8	0.545781944	1.06E-41	4.67E-40	520	520
FNDC3B	0.54536434	1.26E-41	5.52E-40	520	520
SGCE	0.544017083	2.17E-41	9.47E-40	520	519
MPDZ	0.543192054	3.02E-41	1.32E-39	520	519
SNTB1	0.543058883	3.18E-41	1.39E-39	520	520
RXFP3	0.542875526	3.42E-41	1.49E-39	520	278
MMP13	0.542742271	3.61E-41	1.57E-39	520	520
MMP8	0.542597544	3.83E-41	1.66E-39	520	448
ADAMTS10	0.542502408	3.98E-41	1.72E-39	520	520
CLIP3	0.542437931	4.08E-41	1.76E-39	520	520
GNAI2	0.542209958	4.47E-41	1.92E-39	520	520
AFAP1	0.541996089	4.87E-41	2.09E-39	520	520
FAM196B	0.541545303	5.83E-41	2.49E-39	520	443
MAP1B	0.541458023	6.03E-41	2.58E-39	520	520
AKT3	0.54105516	7.08E-41	3.02E-39	520	520
IL1R1	0.54092504	7.46E-41	3.17E-39	520	520
AMPD2	0.540554196	8.64E-41	3.67E-39	520	520
CDH5	0.539759323	1.19E-40	5.02E-39	520	520
SH2B3	0.539396908	1.37E-40	5.78E-39	520	520
FLT4	0.538808228	1.73E-40	7.28E-39	520	520
GALNT10	0.53874678	1.77E-40	7.45E-39	520	520
11-Sep	0.538728118	1.78E-40	7.49E-39	520	520
CYR61	0.538659338	1.83E-40	7.68E-39	520	520
KLF17	0.538209921	2.19E-40	9.15E-39	520	379
JAM2	0.53812564	2.26E-40	9.44E-39	520	519
PRUNE2	0.538096243	2.29E-40	9.53E-39	520	520
APCDD1L	0.53732578	3.10E-40	1.29E-38	520	519
ZFPM2	0.537318729	3.11E-40	1.29E-38	520	518
CDK15	0.536993818	3.53E-40	1.46E-38	520	430
NFATC4	0.536990829	3.53E-40	1.46E-38	520	520
MRV1	0.536720869	3.93E-40	1.62E-38	520	520
SPOCD1	0.536453359	4.36E-40	1.80E-38	520	520
CYTH3	0.536310264	4.61E-40	1.89E-38	520	520
SLC45A1	0.535785095	5.67E-40	2.32E-38	520	516
MAGEH1	0.535562594	6.18E-40	2.53E-38	520	520
METTL11B	0.534663087	8.78E-40	3.58E-38	520	405
IBSP	0.534602418	8.99E-40	3.66E-38	520	503
DKK3	0.534476504	9.44E-40	3.84E-38	520	520
ANO6	0.53427455	1.02E-39	4.14E-38	520	520
ADAMTSL2	0.534194183	1.05E-39	4.27E-38	520	520
NRP2	0.534162229	1.07E-39	4.31E-38	520	520
FLT1	0.533962592	1.15E-39	4.65E-38	520	520
TIMP1	0.533709443	1.27E-39	5.12E-38	520	520

GLIS1	0.533390538	1.44E-39	5.79E-38	520	520
TLR4	0.532105489	2.37E-39	9.50E-38	520	520
DGKI	0.531990092	2.48E-39	9.91E-38	520	507
THBS4	0.531103634	3.49E-39	1.39E-37	520	518
ELTD1	0.530866245	3.82E-39	1.52E-37	520	520
SHROOM4	0.530235094	4.87E-39	1.94E-37	520	520
SRPX2	0.529517504	6.41E-39	2.54E-37	520	520
AG2	0.529267282	7.06E-39	2.80E-37	520	520
ACTG2	0.529039932	7.70E-39	3.04E-37	520	520
FGF5	0.528395076	9.85E-39	3.89E-37	520	457
TGFBR2	0.528274958	1.03E-38	4.06E-37	520	520
STK32B	0.527866162	1.20E-38	4.74E-37	520	520
ITGB1	0.527697479	1.28E-38	5.04E-37	520	520
ACAN	0.527619935	1.32E-38	5.18E-37	520	520
MMP9	0.527537931	1.37E-38	5.33E-37	520	520
CILP	0.527450334	1.41E-38	5.50E-37	520	516
ST6GALNAC5	0.527192512	1.56E-38	6.06E-37	520	518
ZNF697	0.526517711	2.01E-38	7.81E-37	520	520
GFPT2	0.526225442	2.25E-38	8.71E-37	520	520
ACVR1	0.525635762	2.81E-38	1.09E-36	520	520
CPN2	0.52528599	3.21E-38	1.24E-36	520	421
HTR1B	0.524574082	4.19E-38	1.62E-36	520	413
SEC23A	0.524529859	4.26E-38	1.64E-36	520	520
PAPPA	0.524315354	4.62E-38	1.78E-36	520	520
C1QTNF1	0.524037249	5.13E-38	1.97E-36	520	520
LIX1L	0.523947945	5.31E-38	2.03E-36	520	520
ESAM	0.523888423	5.43E-38	2.07E-36	520	520
OLR1	0.52308308	7.34E-38	2.80E-36	520	519
MRC1	0.522980262	7.63E-38	2.90E-36	520	520
GNA12	0.522893134	7.88E-38	2.99E-36	520	520
DCLK2	0.522835818	8.06E-38	3.05E-36	520	519
GUCA1A	0.522798596	8.17E-38	3.09E-36	520	501
FZD2	0.52269567	8.49E-38	3.21E-36	520	520
SAMD4A	0.522130424	1.05E-37	3.95E-36	520	520
SFXN3	0.522046238	1.08E-37	4.07E-36	520	520
PRR16	0.521409277	1.37E-37	5.16E-36	520	520
TEK	0.521200913	1.48E-37	5.56E-36	520	519
RAB23	0.521030177	1.58E-37	5.92E-36	520	520
TNFSF4	0.52092371	1.65E-37	6.14E-36	520	520
NRK	0.520501512	1.92E-37	7.17E-36	520	463
FOXS1	0.520384987	2.01E-37	7.48E-36	520	519
KCNA6	0.518574627	3.93E-37	1.46E-35	520	493
SGTB	0.518389276	4.21E-37	1.56E-35	520	520
ANXA5	0.518293901	4.36E-37	1.61E-35	520	520
FAM110B	0.517595722	5.64E-37	2.08E-35	520	519
ADAMTS9	0.517347058	6.18E-37	2.28E-35	520	520

SALL1	0.517145309	6.66E-37	2.45E-35	520	494
DLL4	0.516737646	7.73E-37	2.84E-35	520	520
RHOQ	0.516625455	8.06E-37	2.95E-35	520	520
MCAM	0.516385752	8.80E-37	3.22E-35	520	520
SLC39A13	0.516125033	9.68E-37	3.54E-35	520	520
NOVA2	0.516117222	9.71E-37	3.54E-35	520	520
CRYGN	0.516049895	9.95E-37	3.62E-35	520	349
GJC1	0.516049084	9.95E-37	3.62E-35	520	520
GSC	0.516001671	1.01E-36	3.67E-35	520	512
IGF2	0.5160004	1.01E-36	3.67E-35	520	520
MFGE8	0.51595668	1.03E-36	3.72E-35	520	520
4-Sep	0.51564992	1.15E-36	4.15E-35	520	520
LOC100134259	0.515071	1.42E-36	5.12E-35	520	514
PCDH17	0.514394277	1.82E-36	6.53E-35	520	520
MEX3B	0.514320158	1.87E-36	6.70E-35	520	520
GEFT	0.514054643	2.06E-36	7.37E-35	520	520
PLVAP	0.513698515	2.35E-36	8.37E-35	520	520
CTSZ	0.513691494	2.35E-36	8.38E-35	520	520
PABPC5	0.513387174	2.63E-36	9.34E-35	520	492
ENG	0.513281447	2.73E-36	9.69E-35	520	520
SLIT3	0.513273209	2.74E-36	9.70E-35	520	519
CNPY4	0.513224886	2.79E-36	9.86E-35	520	520
RGS16	0.513090293	2.93E-36	1.03E-34	520	520
SOBP	0.5124817	3.65E-36	1.29E-34	520	520
ARSE	0.512461717	3.67E-36	1.29E-34	520	513
BCAT1	0.511950383	4.42E-36	1.55E-34	520	520
WIPF1	0.511638485	4.95E-36	1.73E-34	520	520
ARHGAP29	0.5115169	5.17E-36	1.81E-34	520	520
SNED1	0.510879868	6.50E-36	2.27E-34	520	520
MYCT1	0.510707117	6.92E-36	2.41E-34	520	520
MSR1	0.510553364	7.31E-36	2.55E-34	520	520
NKD1	0.510473469	7.53E-36	2.62E-34	520	520
PPFIBP1	0.510340458	7.90E-36	2.74E-34	520	520
TMEM130	0.510321603	7.95E-36	2.75E-34	520	505
TMEM169	0.510154307	8.44E-36	2.92E-34	520	516
PRTG	0.509809877	9.55E-36	3.30E-34	520	511
PDLIM3	0.509163446	1.20E-35	4.15E-34	520	520
SCARF1	0.508468266	1.54E-35	5.31E-34	520	520
COL8A2	0.508179873	1.71E-35	5.88E-34	520	520
MAN1A1	0.507850876	1.92E-35	6.60E-34	520	520
CDR2	0.507779796	1.97E-35	6.76E-34	520	520
PDE7B	0.507540736	2.15E-35	7.35E-34	520	520
GLIPR1	0.507308911	2.33E-35	7.96E-34	520	520
FZD1	0.507160536	2.46E-35	8.38E-34	520	520
ACE	0.507039006	2.57E-35	8.74E-34	520	520
FAM38B	0.506936152	2.67E-35	9.05E-34	520	517

SUSD5	0.506692251	2.91E-35	9.85E-34	520	517
LRFN5	0.506421504	3.20E-35	1.08E-33	520	478
BACH2	0.50618972	3.47E-35	1.17E-33	520	520
FCGR2A	0.505902963	3.84E-35	1.30E-33	520	520
SERPINE1	0.504563737	6.17E-35	2.08E-33	520	520
C11orf41	0.503503545	8.96E-35	3.01E-33	520	519
TIAM2	0.502483569	1.28E-34	4.30E-33	520	520
RBM24	0.502398381	1.32E-34	4.42E-33	520	515
LGALS1	0.502256415	1.39E-34	4.64E-33	520	520
TCF12	0.501836553	1.61E-34	5.36E-33	520	520
GEM	0.501411338	1.86E-34	6.20E-33	520	520
GRAMD1A	0.501284731	1.95E-34	6.47E-33	520	520
SPRED1	0.501215757	2.00E-34	6.62E-33	520	520
FAM70B	0.501050044	2.12E-34	6.99E-33	520	520
DRP2	0.50085027	2.27E-34	7.48E-33	520	516
MFAP2	0.500105182	2.94E-34	9.68E-33	520	520
RBM9	0.499435895	3.71E-34	1.22E-32	520	520
RARRES2	0.499095497	4.17E-34	1.37E-32	520	520
CDC42EP3	0.498856076	4.53E-34	1.49E-32	520	520
GRP	0.498834758	4.56E-34	1.49E-32	520	465
TRIO	0.498641837	4.88E-34	1.59E-32	520	520
THPO	0.498603251	4.95E-34	1.61E-32	520	495
TBX15	0.498563396	5.01E-34	1.63E-32	520	520
CRTAP	0.49847369	5.17E-34	1.68E-32	520	520
FAM189A1	0.497463114	7.33E-34	2.38E-32	520	483
PLN	0.497012633	8.56E-34	2.77E-32	520	512
CALHM2	0.497004905	8.58E-34	2.78E-32	520	520
FHOD3	0.496961961	8.71E-34	2.81E-32	520	520
CXorf36	0.496891584	8.92E-34	2.88E-32	520	520
GNS	0.496743704	9.39E-34	3.02E-32	520	520
LIMS3	0.496490959	1.02E-33	3.29E-32	520	493
SCN1B	0.496362561	1.07E-33	3.44E-32	520	520
ARL4C	0.495436286	1.47E-33	4.70E-32	520	520
MAP3K12	0.495317759	1.53E-33	4.89E-32	520	520
CYB5R3	0.494869804	1.78E-33	5.69E-32	520	520
SMAD7	0.494844756	1.80E-33	5.73E-32	520	520
TGFBI	0.494750354	1.86E-33	5.91E-32	520	520
RDH8	0.494367476	2.12E-33	6.72E-32	520	377
IQSEC1	0.49403304	2.37E-33	7.52E-32	520	520
PALM2	0.493303996	3.04E-33	9.62E-32	520	520
COL14A1	0.493274931	3.07E-33	9.70E-32	520	520
PDE1B	0.492931264	3.45E-33	1.09E-31	520	520
HTR2A	0.492584102	3.88E-33	1.22E-31	520	391
MITF	0.492321054	4.24E-33	1.33E-31	520	520
NCKAP5L	0.491985599	4.75E-33	1.49E-31	520	520
HNMT	0.491380855	5.83E-33	1.83E-31	520	520

CDH6	0.491315297	5.96E-33	1.86E-31	520	518
HSD11B1	0.491241071	6.11E-33	1.91E-31	520	516
CNN3	0.490916338	6.82E-33	2.12E-31	520	520
CCBE1	0.490913482	6.83E-33	2.12E-31	520	509
MYH9	0.490724469	7.27E-33	2.26E-31	520	520
CSDC2	0.490503522	7.84E-33	2.43E-31	520	497
ACTN1	0.489972492	9.37E-33	2.90E-31	520	520
HLX	0.489923143	9.53E-33	2.95E-31	520	520
HECW2	0.489910467	9.57E-33	2.95E-31	520	520
RHOBTB3	0.489678683	1.03E-32	3.19E-31	520	520
TRPC1	0.488996176	1.30E-32	4.00E-31	520	519
JPH2	0.488918094	1.33E-32	4.10E-31	520	520
TPM2	0.488721397	1.43E-32	4.37E-31	520	520
PLOD3	0.488644901	1.46E-32	4.48E-31	520	520
CD276	0.488624948	1.47E-32	4.50E-31	520	520
F2RL2	0.488398582	1.59E-32	4.85E-31	520	520
IL7R	0.48785079	1.91E-32	5.82E-31	520	519
C5AR1	0.487513768	2.13E-32	6.50E-31	520	520
OGN	0.486744486	2.76E-32	8.36E-31	520	488
GPR162	0.486187307	3.32E-32	1.00E-30	520	520
ROBO4	0.48605812	3.46E-32	1.05E-30	520	520
FOXC2	0.485767413	3.81E-32	1.15E-30	520	514
PTX3	0.485663206	3.95E-32	1.19E-30	520	515
ARHGAP42	0.485455274	4.23E-32	1.27E-30	520	519
FKBP9L	0.48524653	4.53E-32	1.36E-30	520	520
IKBIP	0.485180376	4.63E-32	1.39E-30	520	520
FAM65A	0.484734329	5.36E-32	1.61E-30	520	520
PDE2A	0.484671386	5.48E-32	1.64E-30	520	520
C20orf112	0.484320775	6.15E-32	1.84E-30	520	520
WISP2	0.484296883	6.20E-32	1.85E-30	520	517
TLL1	0.484225024	6.35E-32	1.89E-30	520	519
SYTL2	0.483527255	7.98E-32	2.37E-30	520	520
KERA	0.48276264	1.03E-31	3.05E-30	520	380
TNC	0.482748816	1.03E-31	3.06E-30	520	520
SNX9	0.482597612	1.08E-31	3.21E-30	520	520
DPYSL3	0.482547002	1.10E-31	3.26E-30	520	520
ZNF385D	0.482532845	1.11E-31	3.27E-30	520	510
S1PR1	0.48230938	1.19E-31	3.51E-30	520	520
KIRREL	0.482274058	1.20E-31	3.55E-30	520	520
GPC4	0.482099986	1.28E-31	3.75E-30	520	520
SLITRK4	0.482092636	1.28E-31	3.75E-30	520	477
ANGPT2	0.481779334	1.42E-31	4.15E-30	520	520
KIF3C	0.48166685	1.47E-31	4.30E-30	520	520
C14orf49	0.481586192	1.51E-31	4.41E-30	520	520
FARP1	0.481132669	1.75E-31	5.11E-30	520	520
CHPF2	0.481115142	1.76E-31	5.13E-30	520	520

CADPS	0.481108214	1.76E-31	5.13E-30	520	485
LPAR1	0.481057842	1.79E-31	5.21E-30	520	520
CHST11	0.480322529	2.28E-31	6.61E-30	520	520
PDE1A	0.480163959	2.40E-31	6.95E-30	520	519
RSPO3	0.48011575	2.44E-31	7.05E-30	520	512
BEND6	0.47996041	2.56E-31	7.41E-30	520	519
GPX7	0.479600267	2.88E-31	8.31E-30	520	520
SDC3	0.479299486	3.18E-31	9.14E-30	520	520
HECW1	0.479105352	3.38E-31	9.72E-30	520	516
XIRP1	0.478836159	3.69E-31	1.06E-29	520	518
SCARB2	0.47879828	3.74E-31	1.07E-29	520	520
P4HA1	0.478700965	3.86E-31	1.10E-29	520	520
GDPD5	0.478482787	4.14E-31	1.18E-29	520	520
ARHGAP18	0.478470638	4.16E-31	1.19E-29	520	520
GDF6	0.478277933	4.42E-31	1.26E-29	520	493
LIN7A	0.478243946	4.47E-31	1.27E-29	520	508
CHRNA1	0.477613627	5.48E-31	1.56E-29	520	506
CNTNAP1	0.477510315	5.67E-31	1.61E-29	520	520
MEF2C	0.477344005	5.98E-31	1.69E-29	520	520
ROR1	0.477329929	6.01E-31	1.70E-29	520	510
RBPM52	0.477062456	6.55E-31	1.85E-29	520	520
ALDH1L2	0.477001321	6.68E-31	1.88E-29	520	520
SPARCL1	0.475831012	9.72E-31	2.73E-29	520	520
SLC16A4	0.475160743	1.21E-30	3.39E-29	520	519
GOLM1	0.47505031	1.25E-30	3.50E-29	520	520
GNG11	0.474742219	1.38E-30	3.85E-29	520	520
SATB2	0.474732029	1.38E-30	3.86E-29	520	520
IQSEC3	0.474612865	1.44E-30	4.01E-29	520	507
PRKD1	0.474347479	1.56E-30	4.35E-29	520	517
FAM155A	0.473520088	2.03E-30	5.65E-29	520	511
GPR176	0.473494266	2.05E-30	5.69E-29	520	520
LOC284688	0.473436037	2.09E-30	5.79E-29	520	308
CREB3L2	0.473274948	2.20E-30	6.08E-29	520	520
SOAT1	0.473064113	2.35E-30	6.50E-29	520	520
SMURF2	0.472635239	2.70E-30	7.43E-29	520	520
LOC100129034	0.472254838	3.04E-30	8.37E-29	520	520
IGFBP5	0.471599284	3.74E-30	1.03E-28	520	520
SLAMF8	0.471573844	3.77E-30	1.03E-28	520	520
GALNT2	0.471444467	3.93E-30	1.08E-28	520	520
PLOD1	0.471207972	4.23E-30	1.16E-28	520	520
SOCS5	0.470985623	4.54E-30	1.24E-28	520	520
BCL6B	0.47053712	5.23E-30	1.43E-28	520	520
ITGA9	0.470347704	5.55E-30	1.51E-28	520	519
LIMS1	0.47024441	5.74E-30	1.56E-28	520	520
C8orf31	0.470223873	5.78E-30	1.57E-28	520	502
SLC8A1	0.470182377	5.85E-30	1.59E-28	520	520

TRAM2	0.470148381	5.91E-30	1.60E-28	520	520
VASH2	0.469937468	6.32E-30	1.71E-28	520	519
ABL1	0.469712032	6.78E-30	1.83E-28	520	520
KDR	0.469683934	6.84E-30	1.85E-28	520	520
GLG1	0.469559862	7.12E-30	1.92E-28	520	520
BHLHE41	0.46919642	7.98E-30	2.14E-28	520	520
LPL	0.468915986	8.71E-30	2.34E-28	520	520
IFFO1	0.468873263	8.83E-30	2.37E-28	520	520
MAP3K3	0.468848742	8.90E-30	2.38E-28	520	520
C6orf204	0.468781231	9.09E-30	2.43E-28	520	519
ABCA6	0.468695688	9.33E-30	2.49E-28	520	519
SULF2	0.468314223	1.05E-29	2.81E-28	520	520
FAM171B	0.468249414	1.07E-29	2.86E-28	520	520
NEK6	0.46819757	1.09E-29	2.90E-28	520	520
DNAJC18	0.46812095	1.12E-29	2.97E-28	520	520
ARHGAP28	0.468119913	1.12E-29	2.97E-28	520	520
APBA2	0.468046486	1.14E-29	3.03E-28	520	520
FAT4	0.468045616	1.14E-29	3.03E-28	520	519
MAMDC2	0.467820132	1.23E-29	3.24E-28	520	519
SEMA6B	0.467804292	1.23E-29	3.26E-28	520	520
TBC1D2B	0.467676877	1.28E-29	3.38E-28	520	520
TRO	0.467674659	1.28E-29	3.38E-28	520	520
MOCS1	0.467457986	1.37E-29	3.60E-28	520	520
PRAF2	0.467457897	1.37E-29	3.60E-28	520	520
FOXO1	0.467225339	1.48E-29	3.87E-28	520	520
DENND5A	0.467160486	1.51E-29	3.94E-28	520	520
CDH13	0.467121889	1.53E-29	3.99E-28	520	520
MYLK	0.466953253	1.61E-29	4.19E-28	520	520
DOCK4	0.466951588	1.61E-29	4.19E-28	520	520
KLHL4	0.466865706	1.65E-29	4.29E-28	520	486
ZBTB46	0.466566808	1.81E-29	4.70E-28	520	520
MAPRE2	0.46646578	1.87E-29	4.84E-28	520	520
ST6GALNAC3	0.465138337	2.83E-29	7.30E-28	520	519
PCNX	0.465104929	2.86E-29	7.37E-28	520	520
ADORA1	0.465095758	2.86E-29	7.38E-28	520	520
CD34	0.464960651	2.99E-29	7.69E-28	520	520
CLEC5A	0.464954028	2.99E-29	7.69E-28	520	520
FNDC3A	0.46485178	3.09E-29	7.93E-28	520	520
CHPF	0.464262023	3.70E-29	9.49E-28	520	520
PODNL1	0.464113732	3.88E-29	9.92E-28	520	520
TENC1	0.464034612	3.97E-29	1.02E-27	520	520
AXIN2	0.463665992	4.45E-29	1.14E-27	520	520
MAGED2	0.463371848	4.87E-29	1.24E-27	520	520
SERPINF1	0.463363624	4.89E-29	1.24E-27	520	520
L3MBTL3	0.463357665	4.90E-29	1.24E-27	520	520
LRP1	0.463147461	5.22E-29	1.33E-27	520	520

STAC	0.463120432	5.27E-29	1.34E-27	520	518
SLC1A7	0.462830644	5.76E-29	1.46E-27	520	451
FKBP9	0.462566353	6.24E-29	1.58E-27	520	520
FAM131B	0.462254306	6.87E-29	1.74E-27	520	518
BICD1	0.462243003	6.89E-29	1.74E-27	520	520
EFHD1	0.462001957	7.42E-29	1.87E-27	520	520
RASD2	0.461971607	7.49E-29	1.89E-27	520	520
SCARA5	0.461920236	7.61E-29	1.91E-27	520	515
BACE1	0.461829337	7.83E-29	1.97E-27	520	520
SLC39A10	0.46171387	8.11E-29	2.03E-27	520	520
ZBTB47	0.461656426	8.25E-29	2.07E-27	520	520
NPTX2	0.461567962	8.48E-29	2.12E-27	520	519
HRH2	0.461545238	8.54E-29	2.13E-27	520	513
SUSD2	0.46123286	9.39E-29	2.34E-27	520	520
FLRT2	0.461146938	9.64E-29	2.40E-27	520	520
LOC283731	0.46112729	9.70E-29	2.42E-27	520	412
CD163	0.461074274	9.86E-29	2.45E-27	520	520
NLGN2	0.460937358	1.03E-28	2.55E-27	520	520
PRDM8	0.460918465	1.03E-28	2.56E-27	520	519
ADAMTS15	0.460896363	1.04E-28	2.58E-27	520	508
CAP2	0.460455517	1.19E-28	2.94E-27	520	520
TBC1D16	0.460330314	1.24E-28	3.05E-27	520	520
TMEM233	0.46032306	1.24E-28	3.06E-27	520	494
NES	0.460249589	1.27E-28	3.12E-27	520	520
CSGALNACT1	0.460091898	1.33E-28	3.27E-27	520	520
TNFSF12	0.46008666	1.33E-28	3.27E-27	520	520
RASGRP3	0.459950233	1.39E-28	3.41E-27	520	520
PAM	0.459782626	1.46E-28	3.58E-27	520	520
SALL4	0.459626437	1.53E-28	3.75E-27	520	512
NETO1	0.459329945	1.68E-28	4.09E-27	520	453
TFPI	0.459258523	1.71E-28	4.18E-27	520	520
TRPC3	0.459100696	1.80E-28	4.38E-27	520	488
ARMCX2	0.458862074	1.93E-28	4.70E-27	520	520
ITGB5	0.458780123	1.98E-28	4.81E-27	520	520
MMD	0.458722224	2.02E-28	4.89E-27	520	520
POFUT2	0.458687575	2.04E-28	4.94E-27	520	520
MEIS3P1	0.458614289	2.08E-28	5.04E-27	520	520
ASXL3	0.458529931	2.14E-28	5.17E-27	520	431
LRCH1	0.458306439	2.29E-28	5.52E-27	520	520
ITGA4	0.458074433	2.45E-28	5.92E-27	520	520
SPRY4	0.458039415	2.48E-28	5.97E-27	520	520
KCTD17	0.457775718	2.69E-28	6.46E-27	520	520
VCL	0.457772817	2.69E-28	6.46E-27	520	520
XYLT1	0.457650519	2.79E-28	6.70E-27	520	520
PTPN9	0.457555267	2.87E-28	6.88E-27	520	520
RFTN1	0.456942429	3.45E-28	8.27E-27	520	520

CYGB	0.456908141	3.49E-28	8.35E-27	520	520
HHIP	0.456884073	3.51E-28	8.40E-27	520	422
BMPR2	0.456529395	3.91E-28	9.33E-27	520	520
CDH15	0.456394185	4.07E-28	9.71E-27	520	513
LYVE1	0.455986593	4.60E-28	1.10E-26	520	519
S1PR2	0.455829325	4.83E-28	1.15E-26	520	520
SPRED3	0.45558263	5.20E-28	1.23E-26	520	455
TGM2	0.455451086	5.41E-28	1.28E-26	520	520
VSIG4	0.45545027	5.41E-28	1.28E-26	520	520
CCDC36	0.455270205	5.71E-28	1.35E-26	520	503
NRXN2	0.455208093	5.82E-28	1.37E-26	520	520
TBX2	0.455112644	5.98E-28	1.41E-26	520	520
TRPC4	0.45458085	7.02E-28	1.65E-26	520	517
LIMS2	0.453895695	8.61E-28	2.03E-26	520	520
ABL2	0.453864332	8.69E-28	2.04E-26	520	520
CCDC89	0.453548111	9.55E-28	2.24E-26	520	506
COL13A1	0.453252827	1.04E-27	2.45E-26	520	520
SHISA4	0.45324318	1.05E-27	2.45E-26	520	520
KCNK2	0.453101398	1.09E-27	2.55E-26	520	494
CCDC46	0.453092039	1.09E-27	2.56E-26	520	520
NCOR2	0.45283601	1.18E-27	2.76E-26	520	520
PALLD	0.452785218	1.20E-27	2.80E-26	520	520
C1S	0.45262371	1.26E-27	2.93E-26	520	520
TMEM133	0.452597355	1.27E-27	2.95E-26	520	518
UBTD1	0.452255189	1.40E-27	3.26E-26	520	520
PLCL1	0.452132514	1.45E-27	3.37E-26	520	520
ITGAV	0.452077456	1.48E-27	3.43E-26	520	520
SEPN1	0.451950918	1.53E-27	3.55E-26	520	520
IGFBP4	0.451202082	1.92E-27	4.43E-26	520	520
TLN2	0.451196989	1.92E-27	4.43E-26	520	520
ADC	0.451179226	1.93E-27	4.45E-26	520	520
PTPRB	0.45075086	2.19E-27	5.04E-26	520	520
SIGLEC9	0.450724806	2.21E-27	5.08E-26	520	520
LOX	0.450683618	2.23E-27	5.13E-26	520	520
APBB1	0.450613411	2.28E-27	5.24E-26	520	520
TPP1	0.450532128	2.33E-27	5.36E-26	520	520
ADPRH	0.450251196	2.54E-27	5.81E-26	520	520
LOC728264	0.450062455	2.68E-27	6.13E-26	520	520
IGF2AS	0.449987876	2.74E-27	6.26E-26	520	458
CACNA1G	0.449652659	3.03E-27	6.89E-26	520	516
MURC	0.449513683	3.15E-27	7.17E-26	520	520
C5orf46	0.449342936	3.31E-27	7.53E-26	520	491
NOTCH4	0.449341678	3.31E-27	7.53E-26	520	520
SORCS2	0.449211023	3.44E-27	7.81E-26	520	520
EML1	0.449035034	3.63E-27	8.21E-26	520	520
LBH	0.448834217	3.85E-27	8.70E-26	520	520

TM4SF18	0.448685393	4.02E-27	9.08E-26	520	520
PHC2	0.448649547	4.06E-27	9.16E-26	520	520
GRIA3	0.448414854	4.35E-27	9.79E-26	520	511
ZNF660	0.44836094	4.42E-27	9.94E-26	520	459
SLIT2	0.448312474	4.48E-27	1.01E-25	520	515
FPR3	0.448185292	4.65E-27	1.04E-25	520	520
CHRM4	0.448076047	4.80E-27	1.08E-25	520	482
PTGIS	0.44788542	5.08E-27	1.14E-25	520	517
LIF	0.447793726	5.22E-27	1.17E-25	520	520
RARA	0.447787672	5.23E-27	1.17E-25	520	520
SEMA3C	0.447770469	5.25E-27	1.17E-25	520	520
KIAA0754	0.447462412	5.75E-27	1.28E-25	520	519
TLN1	0.447100615	6.39E-27	1.42E-25	520	520
TPST1	0.447064283	6.46E-27	1.43E-25	520	520
SOD3	0.4467764	7.02E-27	1.56E-25	520	520
KCNJ6	0.446747373	7.08E-27	1.57E-25	520	376
CASC4	0.445861083	9.16E-27	2.03E-25	520	520
VAT1L	0.445821005	9.27E-27	2.05E-25	520	503
LOC646999	0.445782026	9.38E-27	2.07E-25	520	516
MAP6	0.445726721	9.53E-27	2.10E-25	520	517
SERPINA5	0.445673162	9.68E-27	2.13E-25	520	495
LOC441204	0.445468457	1.03E-26	2.26E-25	520	492
LARP6	0.445241369	1.10E-26	2.41E-25	520	520
DRAM1	0.445197081	1.11E-26	2.44E-25	520	520
CUBN	0.444995137	1.18E-26	2.58E-25	520	520
TRPV2	0.444784745	1.25E-26	2.74E-25	520	520
PRICKLE2	0.444555071	1.34E-26	2.92E-25	520	520
BEST1	0.44433735	1.42E-26	3.11E-25	520	520
AP2B1	0.44415017	1.50E-26	3.28E-25	520	520
BHMT2	0.443995771	1.57E-26	3.42E-25	520	507
PDE1C	0.443972292	1.58E-26	3.44E-25	520	489
FTO	0.443937387	1.60E-26	3.48E-25	520	520
C1QTNF7	0.443256105	1.95E-26	4.23E-25	520	495
CLIP2	0.443211483	1.97E-26	4.28E-25	520	520
FRMD5	0.442901644	2.16E-26	4.67E-25	520	508
ARMCX1	0.442816174	2.21E-26	4.78E-25	520	520
TRIM61	0.442433574	2.47E-26	5.33E-25	520	430
C18orf1	0.441858208	2.91E-26	6.28E-25	520	520
COMP	0.441836138	2.93E-26	6.31E-25	520	518
CYTSB	0.441596962	3.13E-26	6.75E-25	520	520
KLF9	0.441546271	3.18E-26	6.84E-25	520	520
GPR85	0.441151456	3.56E-26	7.65E-25	520	518
PDE4DIP	0.440983106	3.74E-26	8.02E-25	520	520
C7orf58	0.440802598	3.93E-26	8.43E-25	520	518
ATXN1	0.440775655	3.96E-26	8.49E-25	520	520
NEXN	0.440717234	4.03E-26	8.62E-25	520	520

HABP4	0.440600776	4.17E-26	8.90E-25	520	520
MAGED4B	0.440206679	4.66E-26	9.95E-25	520	520
NCAM1	0.440159114	4.73E-26	1.01E-24	520	520
ASAP1	0.440053356	4.87E-26	1.04E-24	520	520
GLB1	0.439971629	4.99E-26	1.06E-24	520	520
SERPING1	0.439526247	5.66E-26	1.20E-24	520	520
TBC1D1	0.439436458	5.81E-26	1.23E-24	520	520
C1QTNF3	0.439336333	5.97E-26	1.27E-24	520	520
MMP19	0.43927596	6.08E-26	1.29E-24	520	520
KATNAL1	0.439135121	6.33E-26	1.34E-24	520	520
MMP7	0.438643011	7.27E-26	1.54E-24	520	517
CNTN4	0.438609053	7.34E-26	1.55E-24	520	502
AVPR1A	0.43854063	7.49E-26	1.58E-24	520	509
GPM6B	0.438315995	7.98E-26	1.68E-24	520	520
SULT1C4	0.438312779	7.99E-26	1.68E-24	520	499
CAMK2A	0.43822101	8.20E-26	1.72E-24	520	516
WWC2	0.438162166	8.34E-26	1.75E-24	520	520
DKK2	0.438149142	8.37E-26	1.75E-24	520	515
LIPA	0.43793915	8.88E-26	1.86E-24	520	520
PURG	0.437627144	9.70E-26	2.02E-24	520	434
SLC46A3	0.437492024	1.01E-25	2.10E-24	520	520
ENPP2	0.437085177	1.13E-25	2.35E-24	520	520
RGS3	0.436969432	1.17E-25	2.43E-24	520	520
EPYC	0.436765814	1.24E-25	2.57E-24	520	406
SEMA5A	0.436671796	1.27E-25	2.64E-24	520	520
ZBTB10	0.436573976	1.31E-25	2.71E-24	520	520
ISM1	0.436463504	1.35E-25	2.79E-24	520	520
PRR5L	0.436453946	1.35E-25	2.80E-24	520	520
ADRA2A	0.436301896	1.41E-25	2.91E-24	520	514
CSF1R	0.436267998	1.42E-25	2.94E-24	520	520
MEOX2	0.435856419	1.60E-25	3.29E-24	520	506
ABCB4	0.435629514	1.70E-25	3.51E-24	520	520
FGF7	0.435067336	1.99E-25	4.10E-24	520	519
THBS3	0.434913095	2.08E-25	4.28E-24	520	520
ZNF608	0.434780439	2.16E-25	4.43E-24	520	520
LAMA1	0.434680779	2.22E-25	4.55E-24	520	519
MS4A4A	0.434491407	2.34E-25	4.79E-24	520	520
PLEKHO2	0.434007145	2.68E-25	5.47E-24	520	520
NEDD9	0.43383822	2.81E-25	5.73E-24	520	520
GLT25D1	0.433741257	2.89E-25	5.88E-24	520	520
TBX3	0.433592912	3.01E-25	6.12E-24	520	520
FLI1	0.433543114	3.05E-25	6.20E-24	520	520
FAM13C	0.433486905	3.10E-25	6.30E-24	520	512
OR51E1	0.433438561	3.14E-25	6.37E-24	520	518
PCDHGB6	0.433387117	3.19E-25	6.46E-24	520	511
MGP	0.433359208	3.21E-25	6.50E-24	520	520

STON1	0.433225063	3.33E-25	6.74E-24	520	520
APLNR	0.433198736	3.36E-25	6.79E-24	520	520
ADAMTS3	0.433149707	3.41E-25	6.87E-24	520	518
ANGPTL1	0.433126484	3.43E-25	6.91E-24	520	507
NXPH3	0.43298973	3.56E-25	7.17E-24	520	518
SIDT2	0.432958126	3.59E-25	7.23E-24	520	520
KIAA1210	0.432892423	3.66E-25	7.35E-24	520	310
RASL10B	0.432536249	4.04E-25	8.11E-24	520	519
PAG1	0.432447109	4.14E-25	8.31E-24	520	520
TECTA	0.432342746	4.26E-25	8.54E-24	520	513
TSPAN11	0.432290563	4.32E-25	8.66E-24	520	520
RFX8	0.432219424	4.41E-25	8.82E-24	520	507
PLA2G5	0.432100744	4.56E-25	9.10E-24	520	503
RAPGEF2	0.432033138	4.64E-25	9.26E-24	520	520
THSD7A	0.431722847	5.06E-25	1.01E-23	520	514
PTGIR	0.431705607	5.09E-25	1.01E-23	520	520
RPS6KA2	0.431626187	5.20E-25	1.03E-23	520	520
EXTL2	0.43135902	5.60E-25	1.11E-23	520	520
LOC283867	0.431167963	5.90E-25	1.17E-23	520	363
CCDC88A	0.431081345	6.05E-25	1.20E-23	520	520
MSX2	0.430884218	6.38E-25	1.26E-23	520	520
C13orf18	0.430546492	7.01E-25	1.39E-23	520	520
SLC7A7	0.430410845	7.28E-25	1.44E-23	520	520
ROS1	0.430354437	7.39E-25	1.46E-23	520	477
PHLPP2	0.429851554	8.49E-25	1.67E-23	520	520
FILIP1	0.429302905	9.87E-25	1.95E-23	520	518
ANK2	0.429223812	1.01E-24	1.99E-23	520	520
SACS	0.429069992	1.05E-24	2.07E-23	520	520
CTNNB1	0.428877786	1.11E-24	2.18E-23	520	520
UGGT2	0.428624643	1.19E-24	2.34E-23	520	520
EID1	0.428368555	1.28E-24	2.50E-23	520	520
TMEM106A	0.427936366	1.44E-24	2.81E-23	520	520
KCNF1	0.427891641	1.45E-24	2.85E-23	520	509
ROR2	0.427823736	1.48E-24	2.90E-23	520	520
PCDHGA3	0.427654658	1.55E-24	3.03E-23	520	495
LHX8	0.427648053	1.55E-24	3.03E-23	520	499
KCNMB1	0.427354849	1.68E-24	3.28E-23	520	520
SIRPB1	0.426968733	1.87E-24	3.64E-23	520	519
INS-IGF2	0.426954299	1.88E-24	3.65E-23	520	329
FGF14	0.426806588	1.96E-24	3.79E-23	520	514
KCNT2	0.426743979	1.99E-24	3.86E-23	520	496
TNFRSF19	0.426360773	2.21E-24	4.28E-23	520	520
RAPGEF1	0.426251219	2.27E-24	4.40E-23	520	520
ETV1	0.426213586	2.30E-24	4.44E-23	520	520
CADM3	0.426119588	2.36E-24	4.55E-23	520	517
FAM114A1	0.425785079	2.58E-24	4.98E-23	520	520

CD300C	0.425568531	2.74E-24	5.27E-23	520	520
PCDH9	0.425495254	2.79E-24	5.37E-23	520	501
LCA5	0.425434995	2.84E-24	5.45E-23	520	518
OPRL1	0.425287319	2.96E-24	5.67E-23	520	520
ERLEC1	0.425246736	2.99E-24	5.73E-23	520	520
KIAA1614	0.425164772	3.06E-24	5.85E-23	520	520
APP	0.425018683	3.18E-24	6.08E-23	520	520
SLC15A4	0.424816283	3.36E-24	6.41E-23	520	520
ZNF281	0.424742042	3.43E-24	6.53E-23	520	520
FLNA	0.424510595	3.65E-24	6.94E-23	520	520
TCP11L1	0.42427883	3.88E-24	7.38E-23	520	520
PDE4B	0.424270052	3.89E-24	7.39E-23	520	520
GAP43	0.42426662	3.90E-24	7.39E-23	520	508
SLC16A2	0.424110374	4.06E-24	7.70E-23	520	520
TGOLN2	0.424084269	4.09E-24	7.74E-23	520	520
NFATC2	0.424004542	4.18E-24	7.90E-23	520	507
PCDHGA11	0.423835127	4.38E-24	8.27E-23	520	513
KIF7	0.423772045	4.45E-24	8.40E-23	520	520
FOLR2	0.423596225	4.67E-24	8.80E-23	520	520
C8orf48	0.423572505	4.70E-24	8.85E-23	520	506
KLHL38	0.423517259	4.77E-24	8.97E-23	520	441
CSF1	0.423447568	4.86E-24	9.13E-23	520	520
EPB41L2	0.423275084	5.09E-24	9.56E-23	520	520
AP1S2	0.423259557	5.11E-24	9.59E-23	520	520
PDGFD	0.423164188	5.25E-24	9.83E-23	520	520
PTPRK	0.423007856	5.47E-24	1.02E-22	520	520
APOLD1	0.422969909	5.53E-24	1.03E-22	520	520
ZNF704	0.42286714	5.68E-24	1.06E-22	520	516
SLC43A1	0.422686013	5.97E-24	1.11E-22	520	520
BVES	0.422602735	6.10E-24	1.14E-22	520	520
DIP2C	0.422548629	6.19E-24	1.15E-22	520	520
GATA6	0.422363838	6.51E-24	1.21E-22	520	520
SYPL2	0.422344954	6.54E-24	1.22E-22	520	513
CDYL2	0.422208962	6.78E-24	1.26E-22	520	518
DENND5B	0.422110067	6.97E-24	1.29E-22	520	520
SNAI2	0.422006193	7.16E-24	1.33E-22	520	520
ADAMTS1	0.421981293	7.21E-24	1.34E-22	520	520
PCDHGA2	0.421893436	7.38E-24	1.37E-22	520	504
GPR133	0.421808596	7.55E-24	1.40E-22	520	517
NT5E	0.421740675	7.69E-24	1.42E-22	520	520
ENTPD1	0.421676544	7.82E-24	1.44E-22	520	520
POM121L9P	0.42144828	8.32E-24	1.53E-22	520	511
HDX	0.421350609	8.54E-24	1.57E-22	520	514
PLXNA4	0.421271446	8.72E-24	1.60E-22	520	518
KIAA0427	0.421269099	8.73E-24	1.60E-22	520	520
ARHGEF6	0.420904232	9.62E-24	1.76E-22	520	520

BRSK1	0.420814539	9.85E-24	1.80E-22	520	520
TM6SF1	0.420781105	9.94E-24	1.82E-22	520	520
SLC22A17	0.420531471	1.06E-23	1.94E-22	520	520
SPRY1	0.420447562	1.09E-23	1.98E-22	520	520
SLC45A3	0.420377178	1.11E-23	2.02E-22	520	520
HSPA13	0.420347372	1.12E-23	2.03E-22	520	520
PRKCDBP	0.420081849	1.20E-23	2.18E-22	520	520
CMKLR1	0.419630541	1.35E-23	2.45E-22	520	520
JAK1	0.419478545	1.41E-23	2.55E-22	520	520
ZNF275	0.419261525	1.49E-23	2.70E-22	520	520
KIAA1644	0.419103743	1.55E-23	2.81E-22	520	520
FUT4	0.419095315	1.56E-23	2.82E-22	520	520
ARHGEF15	0.419066255	1.57E-23	2.84E-22	520	520
C1R	0.418769201	1.70E-23	3.06E-22	520	520
SEMA5B	0.418685838	1.74E-23	3.13E-22	520	519
SORBS1	0.41842753	1.86E-23	3.35E-22	520	519
HYAL2	0.418393431	1.88E-23	3.38E-22	520	520
DCBLD2	0.418370568	1.89E-23	3.39E-22	520	520
PCDHGB7	0.41804151	2.06E-23	3.70E-22	520	518
AMIGO2	0.418003023	2.08E-23	3.73E-22	520	520
FGF16	0.41785423	2.17E-23	3.88E-22	520	148
SEMA3D	0.417005335	2.71E-23	4.85E-22	520	513
RNF180	0.416831983	2.84E-23	5.07E-22	520	518
SH3RF1	0.416719996	2.92E-23	5.22E-22	520	520
FGFRL1	0.416645058	2.98E-23	5.32E-22	520	520
TMEM59L	0.416431885	3.15E-23	5.62E-22	520	503
QKI	0.416306433	3.26E-23	5.80E-22	520	520
SLCO2B1	0.416125705	3.42E-23	6.07E-22	520	520
RHOBTB2	0.416078275	3.46E-23	6.14E-22	520	520
SHISA2	0.416018057	3.51E-23	6.24E-22	520	519
FLNC	0.415741323	3.78E-23	6.70E-22	520	520
PLEKHG2	0.415646267	3.87E-23	6.87E-22	520	520
SMARCA1	0.415589401	3.93E-23	6.96E-22	520	520
SPATS2L	0.41513802	4.43E-23	7.82E-22	520	520
NLRP12	0.415017085	4.57E-23	8.07E-22	520	492
HEY2	0.414876806	4.74E-23	8.36E-22	520	520
C3AR1	0.41468774	4.98E-23	8.77E-22	520	520
QPCT	0.414576072	5.13E-23	9.03E-22	520	520
SCT	0.414418865	5.35E-23	9.40E-22	520	488
TMCO3	0.414289355	5.53E-23	9.71E-22	520	520
KIAA1949	0.41428695	5.53E-23	9.71E-22	520	520
GLT8D1	0.414098947	5.81E-23	1.02E-21	520	520
KCNN2	0.414075407	5.85E-23	1.02E-21	520	515
EMILIN2	0.413993081	5.97E-23	1.05E-21	520	520
FHL5	0.413487911	6.82E-23	1.19E-21	520	503
EFEMP1	0.413382007	7.01E-23	1.22E-21	520	520

FHL1	0.413310745	7.14E-23	1.25E-21	520	520
SIRPB2	0.413286356	7.18E-23	1.25E-21	520	518
FAM180A	0.41315305	7.44E-23	1.30E-21	520	513
GNG2	0.413027418	7.68E-23	1.34E-21	520	520
PLAUR	0.412923166	7.90E-23	1.37E-21	520	520
PLAU	0.412829146	8.09E-23	1.40E-21	520	520
ACSL4	0.4125438	8.71E-23	1.51E-21	520	520
HGF	0.412230636	9.45E-23	1.64E-21	520	513
CTSO	0.412007188	1.00E-22	1.73E-21	520	520
DTNA	0.411934256	1.02E-22	1.76E-21	520	519
CYP2U1	0.411877807	1.04E-22	1.79E-21	520	520
LTBP3	0.411870819	1.04E-22	1.79E-21	520	520
BASP1	0.411623929	1.11E-22	1.91E-21	520	520
SNPH	0.411599747	1.11E-22	1.92E-21	520	520
OIT3	0.41139713	1.17E-22	2.02E-21	520	483
PLA2G15	0.411351366	1.19E-22	2.04E-21	520	520
ABI3BP	0.411180046	1.24E-22	2.13E-21	520	518
LINGO1	0.411100874	1.27E-22	2.17E-21	520	520
LOC644538	0.411079153	1.27E-22	2.18E-21	520	520
CAMK1G	0.410593402	1.44E-22	2.47E-21	520	514
MEF2D	0.410089326	1.64E-22	2.81E-21	520	520
HSPA12A	0.409987278	1.69E-22	2.89E-21	520	520
BAI3	0.409677141	1.83E-22	3.12E-21	520	451
MMP23B	0.409635817	1.85E-22	3.15E-21	520	520
DPYSL2	0.40963073	1.85E-22	3.15E-21	520	520
FOXL1	0.409313046	2.01E-22	3.42E-21	520	520
MCFD2	0.409130396	2.11E-22	3.58E-21	520	520
BFAR	0.409017168	2.17E-22	3.68E-21	520	520
CD99L2	0.40895993	2.20E-22	3.73E-21	520	520
UBE2QL1	0.408729647	2.33E-22	3.95E-21	520	520
CYBRD1	0.408454092	2.50E-22	4.23E-21	520	520
TXNDC15	0.408433693	2.52E-22	4.25E-21	520	520
TEAD1	0.408426146	2.52E-22	4.26E-21	520	520
RAB8B	0.408396613	2.54E-22	4.29E-21	520	520
MXRA7	0.408351452	2.57E-22	4.33E-21	520	520
RASSF4	0.407886547	2.90E-22	4.86E-21	520	520
WNT5B	0.407855843	2.92E-22	4.90E-21	520	520
HSPB7	0.407816687	2.95E-22	4.94E-21	520	517
PEG3	0.407811361	2.95E-22	4.94E-21	520	511
PEAR1	0.407743717	3.00E-22	5.03E-21	520	520
IGSF21	0.407481602	3.21E-22	5.37E-21	520	517
TSPYL4	0.407355858	3.32E-22	5.54E-21	520	520
IGF1	0.406612006	4.01E-22	6.68E-21	520	519
FUT11	0.406521933	4.10E-22	6.83E-21	520	520
ITGA8	0.406516759	4.11E-22	6.84E-21	520	500
PEA15	0.406369808	4.27E-22	7.09E-21	520	520

ADRA1B	0.406316074	4.32E-22	7.18E-21	520	494
SLC11A1	0.406241843	4.41E-22	7.31E-21	520	520
RASGRP4	0.406117272	4.55E-22	7.54E-21	520	520
SEC31A	0.406013247	4.67E-22	7.74E-21	520	520
CYTL1	0.405868441	4.85E-22	8.02E-21	520	519
KCNJ5	0.405780459	4.95E-22	8.19E-21	520	518
MRO	0.405778473	4.96E-22	8.19E-21	520	501
FAM168A	0.405515448	5.30E-22	8.74E-21	520	520
PDPN	0.405190677	5.75E-22	9.48E-21	520	520
PCDHGA9	0.404753298	6.43E-22	1.06E-20	520	510
TMEM184B	0.40473257	6.46E-22	1.06E-20	520	520
GJA5	0.404477308	6.89E-22	1.13E-20	520	520
GLIPR2	0.40437014	7.08E-22	1.16E-20	520	520
PCDHGA4	0.404271333	7.26E-22	1.19E-20	520	507
STC1	0.404078087	7.63E-22	1.25E-20	520	520
ZFP92	0.403976948	7.82E-22	1.28E-20	520	471
TM7SF4	0.40392997	7.92E-22	1.29E-20	520	464
PTGFR	0.403872765	8.03E-22	1.31E-20	520	517
SLC29A3	0.403807741	8.16E-22	1.33E-20	520	520
ZNF826	0.403804205	8.17E-22	1.33E-20	520	499
ARF4	0.403705069	8.38E-22	1.37E-20	520	520
PRPH2	0.403517009	8.79E-22	1.43E-20	520	513
ZNF699	0.403508893	8.80E-22	1.43E-20	520	518
EXT2	0.403208589	9.50E-22	1.54E-20	520	520
CNTN3	0.403176436	9.57E-22	1.55E-20	520	445
GLI3	0.403098789	9.76E-22	1.58E-20	520	520
PCGF2	0.403027922	9.94E-22	1.61E-20	520	520
ZNF135	0.403016256	9.97E-22	1.61E-20	520	516
COL16A1	0.402973043	1.01E-21	1.63E-20	520	520
ZNF486	0.402657721	1.09E-21	1.76E-20	520	504
JAZF1	0.402652824	1.09E-21	1.76E-20	520	520
LGR5	0.402505927	1.13E-21	1.82E-20	520	511
ATP1B4	0.402490453	1.14E-21	1.83E-20	520	299
EMP3	0.40225907	1.21E-21	1.94E-20	520	520
C3orf64	0.402249301	1.21E-21	1.94E-20	520	520
ATP8A2	0.402194097	1.23E-21	1.97E-20	520	501
NR2F2	0.401912668	1.32E-21	2.11E-20	520	520
STK10	0.401773475	1.36E-21	2.18E-20	520	520
UBR1	0.401696042	1.39E-21	2.22E-20	520	520
SLC17A5	0.401653729	1.40E-21	2.24E-20	520	520
EGFLAM	0.401517806	1.45E-21	2.32E-20	520	520
PCDHB18	0.401440776	1.48E-21	2.36E-20	520	507
C9orf109	0.401383815	1.50E-21	2.39E-20	520	519
LASP1	0.400945395	1.68E-21	2.67E-20	520	520
FAM160B1	0.40087166	1.71E-21	2.71E-20	520	520
SH3KBP1	0.400815896	1.73E-21	2.75E-20	520	520

MYH10	0.400723605	1.77E-21	2.81E-20	520	520
EXTL1	0.400297584	1.97E-21	3.12E-20	520	450
TRAK2	0.400149264	2.04E-21	3.23E-20	520	520
EMX2	0.399951702	2.15E-21	3.40E-20	520	503
C5orf62	0.399928008	2.16E-21	3.41E-20	520	520
RNASE4	0.399731224	2.27E-21	3.58E-20	520	520
RPGRIP1L	0.399645055	2.32E-21	3.65E-20	520	520
ELK3	0.399573169	2.36E-21	3.72E-20	520	520
DCHS2	0.39920014	2.59E-21	4.07E-20	520	503
ANKRD1	0.399136249	2.63E-21	4.13E-20	520	484
SERPINA1	0.398961411	2.75E-21	4.31E-20	520	520
PDE4A	0.398874914	2.81E-21	4.40E-20	520	520
ZNF578	0.398861856	2.81E-21	4.41E-20	520	515
EMX2OS	0.398861727	2.81E-21	4.41E-20	520	509
CD84	0.398842742	2.83E-21	4.43E-20	520	520
MGC45800	0.398694303	2.93E-21	4.59E-20	520	517
NOG	0.398644496	2.97E-21	4.64E-20	520	466
PRKACB	0.398573194	3.02E-21	4.72E-20	520	520
SCN5A	0.398400104	3.16E-21	4.93E-20	520	508
CASQ2	0.398263847	3.26E-21	5.09E-20	520	508
4-Mar	0.398247824	3.28E-21	5.11E-20	520	499
PLXDC2	0.398190118	3.32E-21	5.18E-20	520	520
AR	0.398142926	3.36E-21	5.23E-20	520	460
SERINC1	0.397696041	3.76E-21	5.84E-20	520	520
ADRA1D	0.397683711	3.77E-21	5.85E-20	520	502
ORAI2	0.397657249	3.79E-21	5.88E-20	520	520
ZNF532	0.397385094	4.06E-21	6.29E-20	520	520
AQP9	0.397323946	4.12E-21	6.38E-20	520	520
MYL3	0.397089213	4.36E-21	6.75E-20	520	452
CDX1	0.396534416	5.00E-21	7.71E-20	520	512
ERMN	0.396309259	5.29E-21	8.15E-20	520	512
PDE10A	0.396118783	5.54E-21	8.53E-20	520	518
GLRB	0.396018612	5.68E-21	8.74E-20	520	511
FAT3	0.395752096	6.06E-21	9.32E-20	520	480
RAB11FIP2	0.395663583	6.20E-21	9.52E-20	520	520
LRRN4	0.3950704	7.17E-21	1.10E-19	520	489
MFAP4	0.39500165	7.29E-21	1.12E-19	520	520
GOPC	0.394696438	7.86E-21	1.20E-19	520	520
RECQL	0.394448721	8.35E-21	1.28E-19	520	520
NACAD	0.394056552	9.19E-21	1.40E-19	520	520
SIGLEC15	0.394045882	9.21E-21	1.40E-19	520	465
NAGA	0.393826765	9.72E-21	1.48E-19	520	520
COL25A1	0.393631467	1.02E-20	1.55E-19	520	417
KCNMB4	0.393581171	1.03E-20	1.57E-19	520	520
LOC285954	0.393520148	1.05E-20	1.59E-19	520	428
ZYX	0.393256965	1.12E-20	1.70E-19	520	520

C9orf47	0.393098779	1.16E-20	1.76E-19	520	473
TIMP4	0.392813119	1.24E-20	1.88E-19	520	505
C10orf10	0.392491433	1.34E-20	2.04E-19	520	520
PLOD2	0.39233432	1.40E-20	2.11E-19	520	520
ILK	0.392188744	1.45E-20	2.19E-19	520	520
TSPAN4	0.391991079	1.52E-20	2.29E-19	520	520
SUCNR1	0.391951501	1.53E-20	2.31E-19	520	487
SLC12A4	0.391768755	1.60E-20	2.41E-19	520	520
C1orf70	0.391569242	1.68E-20	2.53E-19	520	504
TCTN3	0.391360237	1.77E-20	2.66E-19	520	520
MAML2	0.39134429	1.78E-20	2.67E-19	520	520
ANKH	0.391311459	1.79E-20	2.69E-19	520	520
TMEM132E	0.391231666	1.82E-20	2.74E-19	520	482
TK2	0.390656747	2.10E-20	3.14E-19	520	520
KAL1	0.390513898	2.17E-20	3.25E-19	520	520
EFNB3	0.390371806	2.25E-20	3.36E-19	520	520
HSPB2	0.390350008	2.26E-20	3.37E-19	520	520
SIGLEC7	0.390338061	2.26E-20	3.38E-19	520	517
CYP1B1	0.390294309	2.29E-20	3.41E-19	520	520
CHRNA3	0.390265513	2.30E-20	3.43E-19	520	389
MMP1	0.390246822	2.31E-20	3.45E-19	520	520
RASGRF1	0.390028894	2.44E-20	3.63E-19	520	517
SLC39A8	0.389947871	2.49E-20	3.70E-19	520	520
C19orf59	0.389832066	2.56E-20	3.80E-19	520	507
MAGED1	0.389803572	2.57E-20	3.82E-19	520	520
SLC8A3	0.389770772	2.60E-20	3.85E-19	520	479
RAI2	0.389681611	2.65E-20	3.93E-19	520	518
ODZ4	0.389093144	3.05E-20	4.52E-19	520	520
CHRNA2	0.388931787	3.17E-20	4.69E-19	520	279
CREB5	0.388838256	3.25E-20	4.80E-19	520	520
MYL4	0.38874073	3.32E-20	4.91E-19	520	501
CDC42BPA	0.388529238	3.50E-20	5.15E-19	520	520
APOD	0.388312124	3.68E-20	5.42E-19	520	520
OPCML	0.388226399	3.76E-20	5.53E-19	520	420
PREX2	0.388109639	3.87E-20	5.68E-19	520	513
HMGXB3	0.388046065	3.93E-20	5.76E-19	520	520
EFNB2	0.387992057	3.98E-20	5.83E-19	520	520
RFTN2	0.387912519	4.05E-20	5.93E-19	520	520
MYPN	0.387719618	4.24E-20	6.21E-19	520	458
ITGA7	0.387609346	4.36E-20	6.37E-19	520	520
KCNQ3	0.387571137	4.40E-20	6.42E-19	520	480
PDZRN4	0.387532527	4.44E-20	6.48E-19	520	462
HAS2AS	0.38751074	4.46E-20	6.51E-19	520	496
MYOCD	0.387492775	4.48E-20	6.53E-19	520	446
LDLRAD3	0.387367074	4.62E-20	6.73E-19	520	520
DCBLD1	0.387357598	4.63E-20	6.74E-19	520	520

PODXL	0.387035949	5.00E-20	7.26E-19	520	520
CASS4	0.386966556	5.08E-20	7.38E-19	520	520
COL22A1	0.38661615	5.52E-20	8.01E-19	520	519
TBCEL	0.386579072	5.57E-20	8.08E-19	520	520
CAMK2N1	0.386477966	5.71E-20	8.27E-19	520	520
TSPAN18	0.386307756	5.94E-20	8.60E-19	520	520
FAM20C	0.386175683	6.13E-20	8.87E-19	520	520
DZIP1	0.385964423	6.45E-20	9.31E-19	520	520
SLC35B4	0.385740012	6.80E-20	9.81E-19	520	520
PDIA5	0.385574954	7.07E-20	1.02E-18	520	520
SV2A	0.385447966	7.29E-20	1.05E-18	520	520
MYF5	0.385401599	7.37E-20	1.06E-18	520	251
ARHGEF10	0.385348885	7.46E-20	1.07E-18	520	520
SHC3	0.385233022	7.67E-20	1.10E-18	520	517
TMEM176A	0.385208314	7.71E-20	1.11E-18	520	520
INSRR	0.385151262	7.82E-20	1.12E-18	520	443
FAM134B	0.385041769	8.02E-20	1.15E-18	520	520
MN1	0.384983987	8.13E-20	1.17E-18	520	520
PKNOX2	0.384585279	8.94E-20	1.28E-18	520	517
LOC653653	0.384566203	8.98E-20	1.28E-18	520	517
FCGR3A	0.384536297	9.04E-20	1.29E-18	520	520
P4HA2	0.384529108	9.06E-20	1.29E-18	520	520
GRK5	0.384366974	9.41E-20	1.34E-18	520	520
RNF144A	0.384267484	9.63E-20	1.37E-18	520	520
SPATA13	0.3842317	9.71E-20	1.39E-18	520	519
C1orf187	0.384206303	9.77E-20	1.39E-18	520	495
RNASE1	0.384136995	9.93E-20	1.41E-18	520	520
LTBP1	0.384052172	1.01E-19	1.44E-18	520	520
TNFSF11	0.384013282	1.02E-19	1.45E-18	520	518
LEF1	0.383947796	1.04E-19	1.48E-18	520	520
LRP12	0.383803039	1.07E-19	1.53E-18	520	520
PCDHB4	0.383743517	1.09E-19	1.54E-18	520	517
TMEM136	0.38371993	1.10E-19	1.55E-18	520	520
ERG	0.383559067	1.14E-19	1.61E-18	520	520
SURF4	0.383545652	1.14E-19	1.61E-18	520	520
CBLB	0.383540353	1.14E-19	1.61E-18	520	520
FOXP1	0.38332455	1.20E-19	1.69E-18	520	520
TP53I11	0.382809446	1.36E-19	1.91E-18	520	520
GSTM5	0.382640558	1.41E-19	1.99E-18	520	518
CD200	0.382622351	1.42E-19	1.99E-18	520	520
FAM48B1	0.382540795	1.45E-19	2.03E-18	520	152
GJA4	0.382492999	1.46E-19	2.05E-18	520	520
DIRAS1	0.382412196	1.49E-19	2.09E-18	520	519
F2RL3	0.382393528	1.50E-19	2.10E-18	520	520
PTPRO	0.382340556	1.52E-19	2.12E-18	520	519
MFAP3L	0.382291259	1.53E-19	2.14E-18	520	518

TOX2	0.382178394	1.57E-19	2.20E-18	520	520
CFL2	0.382171676	1.58E-19	2.20E-18	520	520
NCAM2	0.382112477	1.60E-19	2.23E-18	520	484
CYYR1	0.381953205	1.66E-19	2.31E-18	520	520
MTMR2	0.381884771	1.69E-19	2.35E-18	520	520
EIF2AK4	0.381821478	1.71E-19	2.38E-18	520	520
TRAM1L1	0.381803987	1.72E-19	2.39E-18	520	511
CSPG4	0.381787626	1.73E-19	2.40E-18	520	520
C1orf216	0.381653611	1.78E-19	2.47E-18	520	520
TANC2	0.381441173	1.87E-19	2.60E-18	520	520
FPR1	0.381193413	1.98E-19	2.75E-18	520	520
MGAT5B	0.380951129	2.10E-19	2.91E-18	520	519
NKAIN4	0.380926462	2.11E-19	2.92E-18	520	424
DPT	0.380779938	2.18E-19	3.01E-18	520	519
GYPC	0.380679444	2.24E-19	3.08E-18	520	520
SEC22C	0.380634528	2.26E-19	3.11E-18	520	520
CLEC14A	0.380485682	2.34E-19	3.22E-18	520	520
ASB5	0.380387787	2.39E-19	3.29E-18	520	347
ACTC1	0.380359243	2.41E-19	3.31E-18	520	492
PNMAL1	0.380196311	2.50E-19	3.43E-18	520	513
PLAC9	0.379949063	2.65E-19	3.63E-18	520	520
CD302	0.379803667	2.74E-19	3.75E-18	520	520
SLC16A10	0.379699268	2.81E-19	3.84E-18	520	520
NTNG1	0.379684737	2.82E-19	3.85E-18	520	446
TRIM55	0.379616488	2.86E-19	3.91E-18	520	449
ITGA10	0.379601132	2.87E-19	3.93E-18	520	520
LOXHD1	0.379377361	3.03E-19	4.13E-18	520	474
SLC22A4	0.379097311	3.23E-19	4.40E-18	520	519
DYRK2	0.378785933	3.47E-19	4.72E-18	520	520
PCDHB5	0.37869602	3.54E-19	4.82E-18	520	518
CD300E	0.378442749	3.76E-19	5.10E-18	520	448
CHGB	0.378127179	4.04E-19	5.48E-18	520	513
ANKRD40	0.377982068	4.18E-19	5.66E-18	520	520
WNT5A	0.377892542	4.27E-19	5.77E-18	520	520
PHACTR1	0.377776888	4.38E-19	5.92E-18	520	515
DNAJC10	0.377467341	4.71E-19	6.34E-18	520	520
HAND2	0.377466892	4.71E-19	6.34E-18	520	464
TRIM3	0.37734077	4.85E-19	6.52E-18	520	520
ALPK3	0.377221748	4.98E-19	6.70E-18	520	520
PTRF	0.376829178	5.45E-19	7.31E-18	520	520
MS4A7	0.376741176	5.57E-19	7.45E-18	520	520
TRIM9	0.376640753	5.70E-19	7.62E-18	520	518
APLN	0.376407414	6.01E-19	8.02E-18	520	520
SLC2A6	0.37636797	6.06E-19	8.09E-18	520	520
GREM2	0.376352565	6.09E-19	8.12E-18	520	493
PHC1	0.376297757	6.16E-19	8.21E-18	520	520

PTPRD	0.376273085	6.20E-19	8.25E-18	520	519
PRDM16	0.376259316	6.22E-19	8.27E-18	520	518
ISLR2	0.376154304	6.37E-19	8.47E-18	520	516
CRYBB1	0.376067747	6.50E-19	8.63E-18	520	488
BBS12	0.376046803	6.53E-19	8.67E-18	520	520
ARL15	0.375952147	6.67E-19	8.85E-18	520	520
TMEM176B	0.375828052	6.86E-19	9.10E-18	520	520
ZNF853	0.375803265	6.90E-19	9.15E-18	520	520
C12orf53	0.375532133	7.35E-19	9.71E-18	520	511
EPHB2	0.37548156	7.43E-19	9.82E-18	520	520
NLRP3	0.375380594	7.60E-19	1.00E-17	520	520
CUL7	0.375255179	7.83E-19	1.03E-17	520	520
KLHL5	0.375012687	8.27E-19	1.09E-17	520	520
PILRA	0.374654152	8.98E-19	1.18E-17	520	520
HS3ST3B1	0.374606678	9.08E-19	1.19E-17	520	514
ALPL	0.374593724	9.10E-19	1.20E-17	520	520
GBGT1	0.374586043	9.12E-19	1.20E-17	520	520
IL10	0.374452325	9.40E-19	1.23E-17	520	518
DOK1	0.374433217	9.44E-19	1.24E-17	520	520
SGCA	0.37436594	9.59E-19	1.26E-17	520	499
ANGPTL7	0.3742898	9.76E-19	1.28E-17	520	372
PDIA4	0.37416944	1.00E-18	1.31E-17	520	520
PCDHGA6	0.373929096	1.06E-18	1.38E-17	520	510
GPR34	0.373767392	1.10E-18	1.43E-17	520	520
C2orf84	0.373743372	1.11E-18	1.44E-17	520	475
PRSS35	0.37357606	1.15E-18	1.49E-17	520	460
SEL1L	0.373529437	1.16E-18	1.51E-17	520	520
LCTL	0.373527024	1.16E-18	1.51E-17	520	477
SEMA7A	0.37350375	1.17E-18	1.52E-17	520	520
GLS	0.37342746	1.19E-18	1.54E-17	520	520
PCDHGA5	0.373197283	1.25E-18	1.62E-17	520	505
GPR88	0.373062896	1.29E-18	1.67E-17	520	382
PLEKHO1	0.373015852	1.30E-18	1.69E-17	520	520
ADCY2	0.372843003	1.36E-18	1.76E-17	520	505
INHBB	0.372556109	1.45E-18	1.87E-17	520	520
SCN4A	0.372513839	1.46E-18	1.89E-17	520	467
SPP1	0.372163295	1.58E-18	2.04E-17	520	520
VEGFC	0.372104502	1.60E-18	2.07E-17	520	519
TNFRSF9	0.37197955	1.65E-18	2.12E-17	520	520
HIP1	0.371972531	1.65E-18	2.13E-17	520	520
ZNF835	0.371908243	1.68E-18	2.16E-17	520	450
HDLBP	0.371760224	1.73E-18	2.23E-17	520	520
NKAPL	0.371679754	1.76E-18	2.27E-17	520	501
NTN4	0.371368387	1.89E-18	2.43E-17	520	520
ZNF496	0.371136333	2.00E-18	2.56E-17	520	520
ZNF167	0.371094998	2.01E-18	2.58E-17	520	519

ATP6V0D2	0.371074091	2.02E-18	2.59E-17	520	518
GPRIN3	0.37105307	2.03E-18	2.60E-17	520	520
SMOC2	0.370750135	2.18E-18	2.78E-17	520	520
IQGAP2	0.370576742	2.26E-18	2.89E-17	520	520
MCHR1	0.370413393	2.35E-18	2.99E-17	520	510
ATF2	0.370384317	2.36E-18	3.01E-17	520	520
CD86	0.370349399	2.38E-18	3.03E-17	520	520
FBLN1	0.370258654	2.43E-18	3.09E-17	520	520
RBM43	0.370199096	2.46E-18	3.13E-17	520	520
C15orf54	0.370161483	2.48E-18	3.16E-17	520	424
UACA	0.370148343	2.49E-18	3.16E-17	520	520
IL2RA	0.370142941	2.50E-18	3.16E-17	520	520
PREX1	0.370112494	2.51E-18	3.18E-17	520	520
HILS1	0.370084523	2.53E-18	3.20E-17	520	272
C10orf25	0.369785668	2.70E-18	3.42E-17	520	518
BMPER	0.369585127	2.83E-18	3.57E-17	520	511
ITSN1	0.369584035	2.83E-18	3.57E-17	520	520
TMEM108	0.369490068	2.89E-18	3.65E-17	520	515
SIRPA	0.369467155	2.90E-18	3.66E-17	520	520
ZC4H2	0.369436362	2.92E-18	3.69E-17	520	519
CCR1	0.369412833	2.94E-18	3.70E-17	520	520
POU2F2	0.369250134	3.05E-18	3.84E-17	520	520
PSAP	0.36918508	3.09E-18	3.89E-17	520	520
COPA	0.369126847	3.13E-18	3.94E-17	520	520
FSD1L	0.369085505	3.16E-18	3.97E-17	520	519
ZFHX4	0.368890562	3.30E-18	4.14E-17	520	519
TDO2	0.368595778	3.53E-18	4.42E-17	520	519
CYBB	0.368267998	3.80E-18	4.75E-17	520	520
CHST14	0.368069452	3.97E-18	4.96E-17	520	520
RCVRN	0.368035051	4.00E-18	5.00E-17	520	341
GANAB	0.367996174	4.04E-18	5.04E-17	520	520
SOX5	0.367722054	4.29E-18	5.35E-17	520	494
ADARB1	0.367670043	4.34E-18	5.41E-17	520	520
EPHX4	0.36762573	4.38E-18	5.45E-17	520	507
GNB1	0.367495898	4.51E-18	5.60E-17	520	520
ZBTB38	0.367495403	4.51E-18	5.60E-17	520	520
VGLL2	0.367425364	4.58E-18	5.68E-17	520	328
ATRN	0.367346046	4.67E-18	5.78E-17	520	520
CRTC3	0.367336602	4.67E-18	5.79E-17	520	520
EVI5	0.367219918	4.80E-18	5.94E-17	520	520
GREB1L	0.366822111	5.24E-18	6.47E-17	520	409
SCN2B	0.366764341	5.31E-18	6.55E-17	520	508
AKAP13	0.366666413	5.43E-18	6.69E-17	520	520
RPLPOP2	0.366660795	5.43E-18	6.69E-17	520	520
PGM3	0.366531899	5.59E-18	6.88E-17	520	520
1-Mar	0.366406929	5.75E-18	7.07E-17	520	519

B3GNT9	0.366367708	5.80E-18	7.13E-17	520	520
KLF7	0.366216659	6.00E-18	7.36E-17	520	520
PTGER3	0.366017036	6.27E-18	7.69E-17	520	520
IL11	0.365863254	6.48E-18	7.94E-17	520	520
RAB11FIP5	0.365842932	6.51E-18	7.97E-17	520	520
CYP46A1	0.365623729	6.84E-18	8.35E-17	520	508
CDH23	0.36554762	6.95E-18	8.49E-17	520	520
PCSK5	0.365508222	7.01E-18	8.56E-17	520	518
SLC38A4	0.365462787	7.08E-18	8.64E-17	520	518
RNF24	0.365265054	7.40E-18	9.01E-17	520	520
RSPRY1	0.365109534	7.66E-18	9.32E-17	520	520
ZNF70	0.364885096	8.05E-18	9.78E-17	520	520
PCDHGC3	0.36477365	8.25E-18	1.00E-16	520	520
LOC339524	0.364672865	8.44E-18	1.02E-16	520	519
CRIM1	0.364567832	8.63E-18	1.05E-16	520	520
RNF150	0.364506676	8.75E-18	1.06E-16	520	514
CEP170L	0.364271384	9.22E-18	1.12E-16	520	414
CILP2	0.364172083	9.42E-18	1.14E-16	520	519
DOCK7	0.363975105	9.84E-18	1.19E-16	520	520
GREB1	0.363961581	9.87E-18	1.19E-16	520	520
ZNF366	0.363908833	9.98E-18	1.21E-16	520	510
RUNDC2A	0.363797188	1.02E-17	1.23E-16	520	518
MYBPH	0.36366284	1.05E-17	1.27E-16	520	447
OSCAR	0.363469525	1.10E-17	1.32E-16	520	520
PTPN14	0.363388744	1.12E-17	1.35E-16	520	520
OSBPL5	0.363384828	1.12E-17	1.35E-16	520	520
CST2	0.363324204	1.13E-17	1.36E-16	520	374
ELOVL2	0.363317915	1.14E-17	1.36E-16	520	517
RELN	0.363015351	1.21E-17	1.46E-16	520	506
ARCN1	0.36297465	1.23E-17	1.47E-16	520	520
CCRL2	0.362959423	1.23E-17	1.47E-16	520	520
MUSK	0.362895501	1.25E-17	1.49E-16	520	378
PIP5K1C	0.362841293	1.26E-17	1.51E-16	520	520
C10orf128	0.362810212	1.27E-17	1.52E-16	520	504
STARD3NL	0.362751103	1.29E-17	1.54E-16	520	520
CCL13	0.362688685	1.30E-17	1.56E-16	520	519
WBSCR17	0.362425125	1.38E-17	1.65E-16	520	518
LAIR1	0.36234766	1.41E-17	1.68E-16	520	520
UHRF1BP1L	0.362329221	1.41E-17	1.68E-16	520	520
DYNC2H1	0.362280445	1.43E-17	1.70E-16	520	519
AGPAT1	0.362212653	1.45E-17	1.72E-16	520	520
C6orf145	0.362211657	1.45E-17	1.72E-16	520	520
GDF11	0.362168532	1.46E-17	1.73E-16	520	520
ALOX5	0.362136096	1.47E-17	1.75E-16	520	520
EDNRB	0.362131521	1.47E-17	1.75E-16	520	519
TMEM98	0.362060506	1.50E-17	1.77E-16	520	520

TSPYL5	0.361931935	1.54E-17	1.82E-16	520	520
C1orf38	0.361870047	1.56E-17	1.85E-16	520	520
DUSP27	0.361806382	1.58E-17	1.87E-16	520	402
ATP1A2	0.36180442	1.58E-17	1.87E-16	520	507
STON1-GTF2A1L	0.36169248	1.62E-17	1.92E-16	520	265
ABCA1	0.361665434	1.63E-17	1.93E-16	520	520
FBXO32	0.361594522	1.66E-17	1.96E-16	520	520
IRS1	0.361455192	1.71E-17	2.01E-16	520	520
SLC30A7	0.361445823	1.71E-17	2.02E-16	520	520
FLJ16779	0.361385295	1.73E-17	2.04E-16	520	483
OAF	0.361296614	1.77E-17	2.08E-16	520	520
MTMR6	0.361099918	1.85E-17	2.17E-16	520	520
CCDC92	0.361022191	1.88E-17	2.20E-16	520	520
ITGB2	0.360841329	1.95E-17	2.29E-16	520	520
INPPL1	0.360836277	1.95E-17	2.29E-16	520	520
MYO9B	0.360576611	2.07E-17	2.42E-16	520	520
ACTA1	0.360436073	2.13E-17	2.50E-16	520	518
DUSP10	0.36026858	2.21E-17	2.59E-16	520	520
SLC1A3	0.360247885	2.22E-17	2.60E-16	520	520
MEGF10	0.360199864	2.24E-17	2.63E-16	520	516
HK3	0.360145083	2.27E-17	2.65E-16	520	520
C2	0.359991919	2.35E-17	2.74E-16	520	520
LMOD3	0.359965194	2.36E-17	2.76E-16	520	493
HAPLN4	0.35989995	2.40E-17	2.79E-16	520	473
SKIL	0.359736136	2.48E-17	2.89E-16	520	520
AGT	0.359686829	2.51E-17	2.92E-16	520	519
SSH1	0.359684051	2.51E-17	2.92E-16	520	520
FSTL3	0.359678578	2.51E-17	2.92E-16	520	520
CSRNP2	0.359656034	2.53E-17	2.93E-16	520	520
LOC400043	0.359606085	2.55E-17	2.96E-16	520	519
DNM3	0.359584998	2.56E-17	2.97E-16	520	519
TMEM214	0.359567771	2.57E-17	2.98E-16	520	520
ALDH18A1	0.359552866	2.58E-17	2.99E-16	520	520
MAB21L1	0.359458482	2.64E-17	3.05E-16	520	499
CGB	0.35944802	2.64E-17	3.06E-16	520	476
PDCD1LG2	0.359437333	2.65E-17	3.06E-16	520	519
ARPP21	0.359390337	2.68E-17	3.09E-16	520	337
SPTBN1	0.359342136	2.70E-17	3.12E-16	520	520
C10orf26	0.359197103	2.79E-17	3.22E-16	520	520
PTPN21	0.359174721	2.80E-17	3.23E-16	520	520
NR5A2	0.359156399	2.81E-17	3.24E-16	520	520
NR4A3	0.359134123	2.83E-17	3.25E-16	520	520
SERINC3	0.359116926	2.84E-17	3.26E-16	520	520
KCNA1	0.359105825	2.85E-17	3.27E-16	520	377
HAS1	0.359000728	2.91E-17	3.34E-16	520	511
CACNA1S	0.358910453	2.97E-17	3.41E-16	520	369

XPNPEP2	0.358682733	3.12E-17	3.57E-16	520	506
MLLT11	0.358515487	3.23E-17	3.70E-16	520	520
MYOG	0.35841734	3.30E-17	3.78E-16	520	351
PSD	0.358277086	3.40E-17	3.89E-16	520	520
MYO10	0.358247303	3.42E-17	3.91E-16	520	520
CCR8	0.358095044	3.54E-17	4.04E-16	520	496
NPAS3	0.358039247	3.58E-17	4.08E-16	520	502
CYSLTR2	0.357985918	3.62E-17	4.13E-16	520	506
TBC1D19	0.35783664	3.74E-17	4.26E-16	520	520
UNC45B	0.357793745	3.78E-17	4.29E-16	520	474
HRC	0.357336925	4.17E-17	4.73E-16	520	517
TSPAN9	0.357034804	4.45E-17	5.05E-16	520	520
KLHL30	0.356863775	4.61E-17	5.23E-16	520	517
CTSB	0.356823829	4.65E-17	5.27E-16	520	520
PRELP	0.356800387	4.67E-17	5.29E-16	520	520
SMYD1	0.356785046	4.69E-17	5.31E-16	520	318
FRMD7	0.356763965	4.71E-17	5.33E-16	520	307
ZNF154	0.356763432	4.71E-17	5.33E-16	520	519
ARSI	0.356670268	4.81E-17	5.43E-16	520	520
EMCN	0.356438277	5.05E-17	5.70E-16	520	520
PI15	0.356434307	5.06E-17	5.70E-16	520	519
SFMBT2	0.356343328	5.16E-17	5.81E-16	520	518
FCAR	0.356307478	5.20E-17	5.85E-16	520	473
SH3BP4	0.356292831	5.21E-17	5.87E-16	520	520
CMTM1	0.35622153	5.29E-17	5.96E-16	520	520
EVI2A	0.356090039	5.44E-17	6.11E-16	520	520
PTTG1IP	0.355951614	5.61E-17	6.29E-16	520	520
ZFH3	0.355719124	5.89E-17	6.60E-16	520	520
C21orf7	0.355648619	5.98E-17	6.70E-16	520	520
SOX17	0.355606941	6.04E-17	6.76E-16	520	520
ZNF25	0.3554844	6.20E-17	6.93E-16	520	520
PPP3CB	0.355353957	6.37E-17	7.12E-16	520	520
BEST3	0.355253234	6.51E-17	7.27E-16	520	457
HDAC9	0.355112716	6.71E-17	7.49E-16	520	520
ANGPT1	0.355088267	6.74E-17	7.52E-16	520	516
PXDNL	0.355079545	6.75E-17	7.53E-16	520	517
TWSG1	0.355045427	6.80E-17	7.58E-16	520	520
TRDN	0.354948746	6.95E-17	7.74E-16	520	402
LOC158376	0.354905541	7.01E-17	7.80E-16	520	518
PCDHGB5	0.354873532	7.06E-17	7.85E-16	520	510
DAP	0.354844378	7.10E-17	7.90E-16	520	520
C10orf71	0.354653595	7.40E-17	8.21E-16	520	308
MYOT	0.354475105	7.68E-17	8.53E-16	520	476
DES	0.354279017	8.01E-17	8.87E-16	520	516
TMED7-TICAM2	0.354233274	8.09E-17	8.96E-16	520	514
ZNF491	0.354222616	8.11E-17	8.97E-16	520	512

DMXL2	0.354148682	8.23E-17	9.10E-16	520	520
PYGO1	0.354095984	8.33E-17	9.20E-16	520	487
MPP1	0.354054272	8.40E-17	9.28E-16	520	520
PDK4	0.353868487	8.74E-17	9.64E-16	520	520
FMO1	0.353747885	8.97E-17	9.89E-16	520	519
FNIP2	0.353728332	9.00E-17	9.92E-16	520	520
LPCAT2	0.353356444	9.74E-17	1.07E-15	520	520
PDLIM7	0.353235305	1.00E-16	1.10E-15	520	520
BMP4	0.352901182	1.07E-16	1.18E-15	520	520
CGB5	0.352898468	1.07E-16	1.18E-15	520	483
ELFN1	0.352884548	1.08E-16	1.18E-15	520	520
ACTN2	0.352808164	1.09E-16	1.20E-15	520	502
SYN1	0.352508744	1.17E-16	1.28E-15	520	518
MBTPS1	0.352482848	1.17E-16	1.28E-15	520	520
C4orf26	0.352346519	1.21E-16	1.32E-15	520	455
ST3GAL5	0.352022825	1.29E-16	1.41E-15	520	520
CDKL5	0.351958858	1.31E-16	1.43E-15	520	512
PVRL3	0.351956011	1.31E-16	1.43E-15	520	515
PCDHA3	0.35184193	1.34E-16	1.46E-15	520	339
DNAJC3	0.351830036	1.35E-16	1.46E-15	520	520
EHD2	0.351791753	1.36E-16	1.47E-15	520	520
SMOC1	0.351632937	1.40E-16	1.52E-15	520	520
SLC16A12	0.351557846	1.42E-16	1.55E-15	520	490
RGAG4	0.351532014	1.43E-16	1.55E-15	520	519
GNB4	0.351510958	1.44E-16	1.56E-15	520	520
PGR	0.351426259	1.46E-16	1.59E-15	520	510
TBXAS1	0.351392861	1.47E-16	1.60E-15	520	520
A2BP1	0.351214379	1.53E-16	1.66E-15	520	348
MSN	0.351064377	1.58E-16	1.71E-15	520	520
CCDC141	0.350907077	1.63E-16	1.76E-15	520	498
MYH1	0.350891608	1.64E-16	1.77E-15	520	383
ASPHD2	0.350890029	1.64E-16	1.77E-15	520	520
LEPROT	0.350854762	1.65E-16	1.78E-15	520	520
GPR21	0.350835348	1.66E-16	1.79E-15	520	412
WIPI1	0.350832178	1.66E-16	1.79E-15	520	520
TMEM8C	0.350669166	1.72E-16	1.85E-15	520	223
P704P	0.350606697	1.74E-16	1.87E-15	520	520
PLIN2	0.350569057	1.75E-16	1.88E-15	520	520
C20orf194	0.350412802	1.81E-16	1.95E-15	520	520
DNAJC12	0.350333993	1.84E-16	1.98E-15	520	519
TUB	0.350202885	1.89E-16	2.03E-15	520	520
LILRA6	0.350159091	1.91E-16	2.05E-15	520	520
RBPMS	0.350133855	1.92E-16	2.06E-15	520	520
CD33	0.350082738	1.94E-16	2.08E-15	520	520
GTDC1	0.350064521	1.95E-16	2.08E-15	520	520
MYH8	0.349885654	2.02E-16	2.16E-15	520	309

MYF6	0.349817066	2.05E-16	2.19E-15	520	363
ROCK1	0.349722454	2.09E-16	2.23E-15	520	520
TOX	0.349655508	2.12E-16	2.26E-15	520	520
FAM49A	0.34945393	2.21E-16	2.35E-15	520	520
CELF2	0.349435869	2.22E-16	2.36E-15	520	520
SMAD9	0.349320936	2.28E-16	2.42E-15	520	501
CGB8	0.34912921	2.37E-16	2.51E-15	520	404
CREBL2	0.349100565	2.38E-16	2.53E-15	520	520
LCN1	0.349032692	2.42E-16	2.56E-15	520	341
LRRRC8C	0.349008641	2.43E-16	2.57E-15	520	520
ARHGAP36	0.349001983	2.43E-16	2.57E-15	520	318
LGI2	0.348985002	2.44E-16	2.58E-15	520	520
HYOU1	0.348833575	2.52E-16	2.66E-15	520	520
CLEC4A	0.348806396	2.54E-16	2.68E-15	520	520
SLC29A1	0.348758347	2.56E-16	2.70E-15	520	520
SLC26A10	0.348665779	2.61E-16	2.75E-15	520	516
LDOC1L	0.348651934	2.62E-16	2.76E-15	520	520
ELMO1	0.348637154	2.63E-16	2.76E-15	520	520
APLP2	0.348595556	2.65E-16	2.79E-15	520	520
C11orf95	0.348545371	2.68E-16	2.81E-15	520	520
KIAA0247	0.348511157	2.70E-16	2.83E-15	520	520
SDCBP	0.348353292	2.79E-16	2.92E-15	520	520
WSCD1	0.34834465	2.79E-16	2.93E-15	520	519
ZNF208	0.348278324	2.83E-16	2.97E-15	520	491
FAR2	0.348087941	2.94E-16	3.08E-15	520	518
SLCO5A1	0.348072322	2.95E-16	3.09E-15	520	512
ZNF677	0.34799488	3.00E-16	3.14E-15	520	515
FAM23A	0.347968646	3.02E-16	3.16E-15	520	514
DSE	0.347966148	3.02E-16	3.16E-15	520	520
POU6F1	0.347943741	3.03E-16	3.17E-15	520	520
FHL3	0.347813095	3.12E-16	3.25E-15	520	520
MYL2	0.347510733	3.32E-16	3.46E-15	520	426
PRKAB2	0.347472689	3.35E-16	3.48E-15	520	520
KBTBD10	0.34743023	3.38E-16	3.51E-15	520	511
IGSF6	0.347429092	3.38E-16	3.51E-15	520	520
AP1M1	0.347220859	3.53E-16	3.66E-15	520	520
SLC43A2	0.347068116	3.64E-16	3.77E-15	520	520
TBC1D8B	0.346892776	3.77E-16	3.91E-15	520	520
LILRB4	0.346778275	3.86E-16	4.00E-15	520	520
TRAM1	0.34673315	3.90E-16	4.04E-15	520	520
TXLNB	0.346710845	3.92E-16	4.05E-15	520	519
BOC	0.346695005	3.93E-16	4.06E-15	520	520
C7orf10	0.346631756	3.98E-16	4.12E-15	520	520
FAM124A	0.346547932	4.05E-16	4.19E-15	520	520
PECAM1	0.346501497	4.09E-16	4.22E-15	520	520
C17orf51	0.346483416	4.11E-16	4.24E-15	520	520

ARL6IP5	0.346403386	4.18E-16	4.31E-15	520	520
TMEM43	0.346286741	4.28E-16	4.41E-15	520	520
DPY19L3	0.346121574	4.43E-16	4.56E-15	520	520
FNDC4	0.34604046	4.50E-16	4.63E-15	520	520
ZC3H7B	0.346025035	4.51E-16	4.64E-15	520	520
DAPK1	0.34587164	4.66E-16	4.78E-15	520	520
RASAL2	0.345802443	4.73E-16	4.85E-15	520	520
ITM2C	0.345779559	4.75E-16	4.87E-15	520	520
MYBPC2	0.34570074	4.83E-16	4.95E-15	520	494
ZNF827	0.3456519	4.88E-16	5.00E-15	520	519
ZNF365	0.345582843	4.95E-16	5.06E-15	520	518
ASB1	0.345536496	4.99E-16	5.11E-15	520	520
NEB	0.345478151	5.05E-16	5.17E-15	520	520
VPS13B	0.345446034	5.09E-16	5.20E-15	520	520
PRKD3	0.345305845	5.24E-16	5.35E-15	520	520
DDAH1	0.345178964	5.37E-16	5.49E-15	520	520
UBTD2	0.345141757	5.42E-16	5.53E-15	520	520
FAM43B	0.345118062	5.44E-16	5.55E-15	520	500
NLRC4	0.345015787	5.56E-16	5.66E-15	520	519
HS3ST2	0.344989873	5.59E-16	5.69E-15	520	506
ITPRIPL2	0.344861052	5.74E-16	5.84E-15	520	520
NMNAT2	0.344610314	6.04E-16	6.14E-15	520	520
NDN	0.344533021	6.14E-16	6.24E-15	520	520
C11orf24	0.344493892	6.19E-16	6.29E-15	520	520
NAV3	0.344278343	6.47E-16	6.57E-15	520	520
TMEM100	0.344183467	6.59E-16	6.69E-15	520	494
SLN	0.344106668	6.70E-16	6.79E-15	520	487
VCAM1	0.34408713	6.73E-16	6.82E-15	520	520
PPP1R3A	0.344069749	6.75E-16	6.84E-15	520	258
MGAM	0.344046104	6.78E-16	6.87E-15	520	504
PTPRE	0.344007032	6.84E-16	6.92E-15	520	520
KCNMA1	0.34377527	7.17E-16	7.24E-15	520	520
ZAK	0.343761945	7.19E-16	7.26E-15	520	520
CD80	0.343423979	7.70E-16	7.76E-15	520	520
FOXF2	0.343411277	7.72E-16	7.77E-15	520	520
DGKD	0.343384577	7.77E-16	7.81E-15	520	520
C14orf135	0.343379216	7.77E-16	7.81E-15	520	520
CCL18	0.343350235	7.82E-16	7.85E-15	520	520
ELOVL5	0.342743439	8.85E-16	8.86E-15	520	520
PRND	0.342534073	9.24E-16	9.25E-15	520	480
LOC100126784	0.342432186	9.43E-16	9.43E-15	520	511
ZSCAN2	0.342212646	9.86E-16	9.86E-15	520	520
LAPTM5	0.342209319	9.87E-16	9.86E-15	520	520
CASD1	0.342061356	1.02E-15	1.02E-14	520	520
CD209	0.342033263	1.02E-15	1.02E-14	520	520
LSAMP	0.342013977	1.03E-15	1.02E-14	520	519

MYOZ3	0.341617436	1.11E-15	1.11E-14	520	514
NEDD4	0.34150206	1.14E-15	1.14E-14	520	520
DBN1	0.341276003	1.19E-15	1.19E-14	520	520
RNASE2	0.341092651	1.24E-15	1.23E-14	520	511
PROX1	0.341054038	1.25E-15	1.24E-14	520	506
OBP2A	0.340919724	1.28E-15	1.27E-14	520	374
DDIT4L	0.340854549	1.30E-15	1.29E-14	520	512
TSPAN5	0.340839214	1.30E-15	1.29E-14	520	520
PLCG1	0.340804782	1.31E-15	1.30E-14	520	520
DPYSL4	0.340618599	1.36E-15	1.35E-14	520	518
GPR161	0.340439907	1.41E-15	1.40E-14	520	520
LMOD2	0.34033216	1.44E-15	1.43E-14	520	368
SGCG	0.340146488	1.50E-15	1.48E-14	520	463
ELMO2	0.340001135	1.54E-15	1.52E-14	520	520
C6orf97	0.339903418	1.58E-15	1.55E-14	520	519
ESM1	0.339821438	1.60E-15	1.58E-14	520	520
TTN	0.339754629	1.62E-15	1.60E-14	520	520
SLC6A1	0.339753267	1.62E-15	1.60E-14	520	511
ITIH3	0.339743023	1.63E-15	1.60E-14	520	489
FBN2	0.339735857	1.63E-15	1.60E-14	520	520
KIAA0355	0.339709776	1.64E-15	1.61E-14	520	520
DIO3	0.339592934	1.68E-15	1.65E-14	520	502
TRIM32	0.33948027	1.72E-15	1.68E-14	520	520
TCTEX1D1	0.339456154	1.72E-15	1.69E-14	520	520
RSPO2	0.339420996	1.74E-15	1.70E-14	520	300
YIPF5	0.339400897	1.74E-15	1.71E-14	520	520
CETP	0.339399745	1.74E-15	1.71E-14	520	520
ME3	0.339341672	1.76E-15	1.72E-14	520	520
LDB3	0.339277419	1.79E-15	1.75E-14	520	517
DNM1	0.338882637	1.94E-15	1.89E-14	520	520
PIK3R1	0.33881703	1.96E-15	1.91E-14	520	520
SESTD1	0.338796203	1.97E-15	1.92E-14	520	520
TRIM44	0.338738897	1.99E-15	1.94E-14	520	520
FXYD6	0.338656771	2.03E-15	1.97E-14	520	520
LRRC25	0.33859212	2.05E-15	1.99E-14	520	520
CLCN4	0.338532865	2.08E-15	2.02E-14	520	519
KLF12	0.338367971	2.15E-15	2.08E-14	520	520
CDO1	0.338353723	2.15E-15	2.09E-14	520	502
TGFBR1	0.338311874	2.17E-15	2.11E-14	520	520
STC2	0.338290495	2.18E-15	2.11E-14	520	520
ARHGAP1	0.338193196	2.22E-15	2.15E-14	520	520
MAN2B2	0.338126088	2.25E-15	2.18E-14	520	520
SRGN	0.33811552	2.26E-15	2.18E-14	520	520
ZC3H12B	0.338113326	2.26E-15	2.18E-14	520	513
BPI	0.338029717	2.30E-15	2.22E-14	520	370
SLC14A2	0.338003291	2.31E-15	2.23E-14	520	405

SLC6A6	0.337930018	2.34E-15	2.26E-14	520	520
RAB11FIP3	0.337850722	2.38E-15	2.30E-14	520	520
LILRB3	0.337756286	2.43E-15	2.34E-14	520	520
FABP3	0.337734167	2.44E-15	2.35E-14	520	520
IMPAD1	0.337520467	2.54E-15	2.45E-14	520	520
METTL7B	0.337401106	2.61E-15	2.50E-14	520	512
ANO5	0.337305597	2.66E-15	2.55E-14	520	491
COX7A1	0.337288902	2.66E-15	2.56E-14	520	520
KCND1	0.337281324	2.67E-15	2.56E-14	520	520
TTBK2	0.337159059	2.73E-15	2.62E-14	520	520
GPR141	0.337114143	2.76E-15	2.65E-14	520	480
KDELC2	0.337102648	2.77E-15	2.65E-14	520	520
PARVB	0.337029263	2.81E-15	2.69E-14	520	520
MGAT2	0.336905438	2.88E-15	2.75E-14	520	520
SDK2	0.33682256	2.92E-15	2.80E-14	520	520
SHF	0.336665149	3.02E-15	2.88E-14	520	520
STAB1	0.336459051	3.14E-15	3.00E-14	520	520
CAV3	0.336447744	3.15E-15	3.01E-14	520	309
CD4	0.336440191	3.16E-15	3.01E-14	520	520
PIK3CG	0.33637583	3.20E-15	3.05E-14	520	518
CPXM2	0.336294525	3.25E-15	3.10E-14	520	520
IGF2R	0.336202915	3.31E-15	3.15E-14	520	520
EPS8	0.336113154	3.37E-15	3.21E-14	520	520
TWIST2	0.336099055	3.38E-15	3.21E-14	520	520
TRIM8	0.335814058	3.58E-15	3.40E-14	520	520
SMARCD3	0.335811698	3.58E-15	3.40E-14	520	520
LCP2	0.335789092	3.59E-15	3.41E-14	520	520
HSD17B14	0.335760527	3.61E-15	3.43E-14	520	520
TXNDC5	0.335597641	3.73E-15	3.54E-14	520	520
DIO2	0.33545065	3.84E-15	3.63E-14	520	520
PLA2G7	0.335369904	3.91E-15	3.69E-14	520	520
L1CAM	0.335321505	3.94E-15	3.72E-14	520	520
MUM1L1	0.335199091	4.04E-15	3.81E-14	520	462
BMF	0.335192312	4.05E-15	3.81E-14	520	520
ZNF415	0.335178046	4.06E-15	3.82E-14	520	517
MAP9	0.335154587	4.08E-15	3.84E-14	520	519
SRGAP2	0.335140749	4.09E-15	3.85E-14	520	520
MAP3K2	0.335121939	4.10E-15	3.86E-14	520	520
TRPC6	0.335093451	4.13E-15	3.88E-14	520	520
CACNG1	0.335067578	4.15E-15	3.90E-14	520	378
ITFG1	0.335048544	4.16E-15	3.91E-14	520	520
ICAM1	0.334951779	4.24E-15	3.98E-14	520	520
RARB	0.334835771	4.34E-15	4.07E-14	520	520
FAM115A	0.33480306	4.37E-15	4.10E-14	520	519
LIMS3- LOC440895	0.334670558	4.49E-15	4.20E-14	520	520

ABCA9	0.334612352	4.54E-15	4.25E-14	520	518
SPRED2	0.334600631	4.55E-15	4.26E-14	520	520
ITPR1	0.334403434	4.73E-15	4.42E-14	520	520
PDGFA	0.334187832	4.94E-15	4.61E-14	520	520
ARAP3	0.334044868	5.08E-15	4.73E-14	520	520
PCDHB15	0.334021124	5.10E-15	4.75E-14	520	519
PITX3	0.33398797	5.14E-15	4.78E-14	520	492
NUDT10	0.333879282	5.25E-15	4.88E-14	520	511
IDS	0.333877499	5.25E-15	4.88E-14	520	520
COTL1	0.33379742	5.33E-15	4.96E-14	520	520
H6PD	0.333473998	5.68E-15	5.28E-14	520	520
UGGT1	0.333444092	5.72E-15	5.31E-14	520	520
MKL1	0.333411243	5.76E-15	5.34E-14	520	520
IVNS1ABP	0.333359341	5.81E-15	5.39E-14	520	520
SOHLH2	0.333354392	5.82E-15	5.40E-14	520	466
LAYN	0.333158637	6.05E-15	5.60E-14	520	520
IGF1R	0.333108726	6.11E-15	5.66E-14	520	520
GPRC5B	0.333088977	6.13E-15	5.68E-14	520	519
GABARAPL1	0.333028938	6.21E-15	5.74E-14	520	520
FAM124B	0.333017235	6.22E-15	5.75E-14	520	517
PARD3B	0.332943766	6.31E-15	5.83E-14	520	517
STEAP2	0.3329245	6.33E-15	5.85E-14	520	520
TTC3	0.332824116	6.46E-15	5.96E-14	520	520
C1orf54	0.332772073	6.53E-15	6.02E-14	520	520
LILRA2	0.332606402	6.74E-15	6.21E-14	520	519
RAB31	0.332568075	6.79E-15	6.26E-14	520	520
KBTBD11	0.332539585	6.83E-15	6.29E-14	520	519
TPM4	0.332458085	6.94E-15	6.39E-14	520	520
PGM5	0.332408424	7.01E-15	6.45E-14	520	520
DTX4	0.332353371	7.09E-15	6.52E-14	520	520
AMZ1	0.332272604	7.20E-15	6.62E-14	520	517
PRKAG3	0.332220971	7.27E-15	6.68E-14	520	386
PTPRR	0.332198658	7.31E-15	6.71E-14	520	510
FCGR2C	0.332139085	7.39E-15	6.78E-14	520	519
KDEL2	0.332043838	7.53E-15	6.91E-14	520	520
MYO1C	0.331922833	7.71E-15	7.07E-14	520	520
KIFAP3	0.331859995	7.81E-15	7.15E-14	520	520
ADCYAP1R1	0.331775296	7.94E-15	7.27E-14	520	383
FAM171A2	0.331611131	8.20E-15	7.50E-14	520	520
INSR	0.331536538	8.32E-15	7.60E-14	520	520
SLC35F1	0.331213626	8.86E-15	8.08E-14	520	479
CLDN14	0.331138251	8.99E-15	8.19E-14	520	515
LPXN	0.331091969	9.08E-15	8.27E-14	520	520
NBAS	0.331005094	9.23E-15	8.40E-14	520	520
CTDSP2	0.330949785	9.33E-15	8.49E-14	520	520
LOC100270710	0.33079095	9.63E-15	8.75E-14	520	520

FAM198A	0.330651597	9.89E-15	8.98E-14	520	516
F10	0.330621869	9.95E-15	9.03E-14	520	515
JAKMIP2	0.330586753	1.00E-14	9.09E-14	520	513
JPH3	0.330480879	1.02E-14	9.28E-14	520	503
TFEC	0.330477261	1.02E-14	9.28E-14	520	520
SLITRK2	0.330393966	1.04E-14	9.43E-14	520	488
CALCRL	0.330286724	1.06E-14	9.62E-14	520	520
DHH	0.330258408	1.07E-14	9.67E-14	520	468
MAGED4	0.33025626	1.07E-14	9.67E-14	520	520
APH1B	0.33025238	1.07E-14	9.67E-14	520	520
NHS	0.330249815	1.07E-14	9.67E-14	520	520
FMN1	0.33021291	1.08E-14	9.74E-14	520	514
NKX6-1	0.330013757	1.12E-14	1.01E-13	520	467
CD300LB	0.330000904	1.12E-14	1.01E-13	520	516
PLCL2	0.329961811	1.13E-14	1.02E-13	520	520
PTENP1	0.329958358	1.13E-14	1.02E-13	520	520
GALNS	0.32993462	1.14E-14	1.03E-13	520	520
SLC6A12	0.329759826	1.18E-14	1.06E-13	520	518
SLC17A9	0.329721546	1.19E-14	1.07E-13	520	520
EYA1	0.329655937	1.20E-14	1.08E-13	520	502
MAN2A1	0.329641848	1.20E-14	1.08E-13	520	520
ANKRD50	0.329564505	1.22E-14	1.10E-13	520	520
PLCB1	0.329539946	1.23E-14	1.10E-13	520	520
CD163L1	0.329414553	1.26E-14	1.13E-13	520	520
TTYH2	0.329363919	1.27E-14	1.14E-13	520	520
ARID5A	0.329331594	1.28E-14	1.15E-13	520	520
PIP4K2B	0.329285335	1.29E-14	1.16E-13	520	520
TNFRSF12A	0.329242652	1.30E-14	1.17E-13	520	520
DNALI1	0.329234515	1.30E-14	1.17E-13	520	519
LOC344595	0.329231212	1.30E-14	1.17E-13	520	520
CCDC102A	0.329175977	1.32E-14	1.18E-13	520	520
PCSK1	0.329121893	1.33E-14	1.19E-13	520	518
SETBP1	0.329099621	1.34E-14	1.19E-13	520	520
PDE5A	0.329091051	1.34E-14	1.20E-13	520	520
SYNPO2	0.328997772	1.36E-14	1.22E-13	520	520
TMEM158	0.328926346	1.38E-14	1.23E-13	520	520
ADAM33	0.328861707	1.40E-14	1.25E-13	520	520
SH3BGR1	0.328463275	1.51E-14	1.35E-13	520	520
DOCK1	0.32843658	1.52E-14	1.35E-13	520	520
SNX19	0.328222034	1.59E-14	1.41E-13	520	520
EBF3	0.328133399	1.61E-14	1.43E-13	520	520
NHEDC2	0.32804336	1.64E-14	1.46E-13	520	520
BAHCC1	0.327974553	1.66E-14	1.47E-13	520	520
TNIK	0.327922116	1.68E-14	1.49E-13	520	519
SND1	0.32784202	1.71E-14	1.51E-13	520	520
XIRP2	0.327798812	1.72E-14	1.52E-13	520	409

GRAMD1B	0.327755852	1.74E-14	1.53E-13	520	519
RETN	0.327751046	1.74E-14	1.53E-13	520	398
ECSCR	0.327625725	1.78E-14	1.57E-13	520	520
GRB10	0.327587922	1.79E-14	1.58E-13	520	520
MINPP1	0.327119538	1.96E-14	1.73E-13	520	520
TES	0.327063715	1.98E-14	1.75E-13	520	520
IGLON5	0.327038774	1.99E-14	1.76E-13	520	520
LAMC3	0.326908837	2.04E-14	1.80E-13	520	520
NPY6R	0.326852609	2.07E-14	1.82E-13	520	334
SVEP1	0.326781152	2.09E-14	1.84E-13	520	520
TRIM46	0.326565207	2.18E-14	1.92E-13	520	520
BMP5	0.326426034	2.24E-14	1.97E-13	520	326
VAT1	0.326377305	2.26E-14	1.99E-13	520	520
DNAL1	0.326339686	2.28E-14	2.00E-13	520	520
MMP10	0.32617846	2.35E-14	2.06E-13	520	520
SHANK2	0.326128886	2.37E-14	2.08E-13	520	518
FCER1G	0.326105199	2.39E-14	2.09E-13	520	520
VTN	0.326000724	2.43E-14	2.13E-13	520	508
MNDA	0.32597533	2.45E-14	2.14E-13	520	520
IP6K3	0.325967155	2.45E-14	2.14E-13	520	477
ARSJ	0.325905382	2.48E-14	2.17E-13	520	520
TTC7B	0.325842537	2.51E-14	2.19E-13	520	520
SDS	0.325647734	2.60E-14	2.27E-13	520	520
HAVCR2	0.32562745	2.61E-14	2.28E-13	520	520
NAV1	0.325616782	2.62E-14	2.28E-13	520	520
VPS13C	0.325436174	2.71E-14	2.36E-13	520	520
C3	0.325299307	2.78E-14	2.42E-13	520	520
FGF18	0.325203164	2.84E-14	2.47E-13	520	471
PPP3CA	0.325164966	2.86E-14	2.48E-13	520	520
PANX1	0.324885466	3.01E-14	2.62E-13	520	520
HFE2	0.324878419	3.02E-14	2.62E-13	520	307
GPR137B	0.324873208	3.02E-14	2.62E-13	520	520
MYL1	0.324871785	3.02E-14	2.62E-13	520	368
MOBKL1A	0.324870563	3.02E-14	2.62E-13	520	520
TLR8	0.324740441	3.10E-14	2.68E-13	520	520
PIGT	0.324702091	3.12E-14	2.70E-13	520	520
ZBTB20	0.324595634	3.18E-14	2.76E-13	520	513
SUSD1	0.324588572	3.19E-14	2.76E-13	520	520
TLL2	0.324572158	3.20E-14	2.77E-13	520	517
C1QC	0.324553305	3.21E-14	2.77E-13	520	520
ADAT1	0.324537493	3.22E-14	2.78E-13	520	520
ZHX3	0.324490852	3.25E-14	2.80E-13	520	520
EGR2	0.324233002	3.41E-14	2.94E-13	520	520
MANBA	0.324207532	3.43E-14	2.95E-13	520	520
DUSP3	0.324139812	3.47E-14	2.99E-13	520	520
CTNNA3	0.324104982	3.50E-14	3.01E-13	520	302

LRR4C	0.324059533	3.53E-14	3.03E-13	520	447
C3orf59	0.323804891	3.70E-14	3.18E-13	520	520
PXK	0.323705724	3.77E-14	3.24E-13	520	520
MEG3	0.323629019	3.83E-14	3.28E-13	520	520
TMEM140	0.323365265	4.03E-14	3.45E-13	520	520
EXOC3L2	0.323359352	4.03E-14	3.45E-13	520	520
CACNB1	0.32303523	4.29E-14	3.67E-13	520	520
GPR183	0.322947656	4.36E-14	3.73E-13	520	520
PRG4	0.322913016	4.39E-14	3.75E-13	520	511
PTGFRN	0.322866808	4.42E-14	3.78E-13	520	520
ZNF93	0.322630663	4.63E-14	3.95E-13	520	519
PHTF1	0.322589845	4.66E-14	3.98E-13	520	520
KLKP1	0.322342112	4.89E-14	4.17E-13	520	159
INPP4B	0.322338339	4.89E-14	4.17E-13	520	520
CHST3	0.322328639	4.90E-14	4.17E-13	520	520
STK17B	0.322288325	4.94E-14	4.20E-13	520	520
USP51	0.322271622	4.95E-14	4.21E-13	520	509
TRIM63	0.322222995	5.00E-14	4.25E-13	520	445
ASPH	0.322063913	5.15E-14	4.38E-13	520	520
SEC14L1	0.322063134	5.15E-14	4.38E-13	520	520
SLFN11	0.321859245	5.36E-14	4.54E-13	520	520
APOE	0.321839086	5.38E-14	4.56E-13	520	520
XYLT2	0.321800513	5.41E-14	4.59E-13	520	520
USP11	0.321685953	5.53E-14	4.69E-13	520	520
TMEM121	0.321609488	5.61E-14	4.75E-13	520	520
KIAA1549	0.321458499	5.78E-14	4.89E-13	520	520
MYH11	0.321387235	5.85E-14	4.95E-13	520	520
CD68	0.321340688	5.91E-14	4.99E-13	520	520
CCPG1	0.321326092	5.92E-14	5.00E-13	520	520
LCP1	0.32120264	6.06E-14	5.11E-13	520	520
ACAA2	0.321175667	6.09E-14	5.13E-13	520	520
CR1	0.321122835	6.15E-14	5.18E-13	520	519
SARDH	0.321114625	6.16E-14	5.18E-13	520	520
BBS9	0.321011113	6.28E-14	5.28E-13	520	520
RNF115	0.320967793	6.34E-14	5.33E-13	520	520
PAFAH1B2	0.320867927	6.46E-14	5.42E-13	520	520
CMYA5	0.320828581	6.50E-14	5.46E-13	520	520
KIAA0196	0.32081906	6.52E-14	5.47E-13	520	520
TMOD2	0.320683684	6.68E-14	5.60E-13	520	520
FAM176B	0.320659161	6.71E-14	5.63E-13	520	520
MYL6P	0.320341198	7.13E-14	5.97E-13	520	464
VWF	0.320316473	7.16E-14	5.99E-13	520	520
PHTF2	0.320268123	7.23E-14	6.04E-13	520	520
CSRP3	0.320266854	7.23E-14	6.04E-13	520	346
NBPF15	0.320128793	7.42E-14	6.20E-13	520	520
CADM1	0.320027634	7.56E-14	6.31E-13	520	520

KBTBD5	0.319984548	7.62E-14	6.36E-13	520	321
PADI2	0.319949645	7.67E-14	6.39E-13	520	520
ARHGEF2	0.319833008	7.84E-14	6.53E-13	520	520
HS2ST1	0.319750176	7.97E-14	6.63E-13	520	520
WT1	0.319634564	8.14E-14	6.77E-13	520	347
MYO18B	0.319554263	8.26E-14	6.87E-13	520	493
EHD3	0.319520126	8.32E-14	6.91E-13	520	520
AKAP6	0.319481098	8.38E-14	6.95E-13	520	520
MEX3A	0.319319501	8.63E-14	7.16E-13	520	520
CDC27	0.319313363	8.64E-14	7.16E-13	520	520
EGFL6	0.319249372	8.75E-14	7.24E-13	520	520
JMJD1C	0.319236509	8.77E-14	7.26E-13	520	520
PICALM	0.319151083	8.91E-14	7.37E-13	520	520
TGFB1	0.319050216	9.08E-14	7.51E-13	520	520
KLF10	0.31902689	9.12E-14	7.54E-13	520	520
GPR84	0.319016004	9.14E-14	7.55E-13	520	520
MGAT5	0.318685646	9.72E-14	8.02E-13	520	520
NBPF16	0.318683125	9.73E-14	8.02E-13	520	509
C13orf15	0.318586117	9.90E-14	8.16E-13	520	520
PCDHAC2	0.318572181	9.93E-14	8.18E-13	520	391
GOLIM4	0.318567432	9.94E-14	8.19E-13	520	520
ACSM5	0.318251143	1.05E-13	8.68E-13	520	448
MTR	0.318239187	1.06E-13	8.69E-13	520	520
SLC13A3	0.318233093	1.06E-13	8.70E-13	520	519
DYNC1H1	0.318188453	1.07E-13	8.77E-13	520	520
RTN4RL2	0.318046868	1.10E-13	8.99E-13	520	517
MAP4	0.318020869	1.10E-13	9.03E-13	520	520
CLDN11	0.31801454	1.10E-13	9.04E-13	520	517
CCL2	0.317903599	1.12E-13	9.22E-13	520	520
PARK2	0.317870891	1.13E-13	9.27E-13	520	518
VGLL4	0.317752403	1.16E-13	9.47E-13	520	520
MYH3	0.317688292	1.17E-13	9.58E-13	520	520
KCNB1	0.31765608	1.18E-13	9.63E-13	520	382
SNX29	0.317638261	1.18E-13	9.66E-13	520	520
VOPP1	0.317455135	1.22E-13	9.99E-13	520	520
BCORL1	0.317238332	1.27E-13	1.04E-12	520	520
RCN1	0.317195768	1.28E-13	1.05E-12	520	520
GAS7	0.31716312	1.29E-13	1.05E-12	520	520
SBF2	0.317136375	1.30E-13	1.06E-12	520	520
B4GALNT1	0.317035811	1.32E-13	1.08E-12	520	520
IFNAR2	0.316971282	1.34E-13	1.09E-12	520	520
NEU3	0.316934473	1.35E-13	1.10E-12	520	518
PPAP2B	0.316852468	1.37E-13	1.11E-12	520	520
SERPINE2	0.316768362	1.39E-13	1.13E-12	520	520
NBPF9	0.316711976	1.40E-13	1.14E-12	520	520
PRKAR1A	0.316624417	1.43E-13	1.16E-12	520	520

ITGAX	0.316584855	1.44E-13	1.17E-12	520	520
SSTR1	0.316531058	1.45E-13	1.18E-12	520	387
LRRC2	0.316276936	1.52E-13	1.23E-12	520	491
CABP4	0.316150052	1.56E-13	1.26E-12	520	483
MT1A	0.316101533	1.57E-13	1.27E-12	520	455
TP53BP1	0.316072771	1.58E-13	1.28E-12	520	520
SSTR2	0.316053648	1.59E-13	1.28E-12	520	518
DNAJB4	0.316031348	1.59E-13	1.29E-12	520	520
ZNF626	0.315954272	1.61E-13	1.30E-12	520	517
F5	0.315920629	1.62E-13	1.31E-12	520	520
BAG2	0.315911105	1.63E-13	1.31E-12	520	520
PNMA6A	0.315879123	1.64E-13	1.32E-12	520	517
ENTPD7	0.315435027	1.78E-13	1.43E-12	520	520
CLTCL1	0.315417178	1.78E-13	1.43E-12	520	520
CCDC8	0.315415932	1.78E-13	1.43E-12	520	520
MBD5	0.315381613	1.79E-13	1.44E-12	520	520
ATP6V1G2	0.315372903	1.80E-13	1.44E-12	520	508
FLJ44054	0.315335624	1.81E-13	1.45E-12	520	263
NRAP	0.31531245	1.82E-13	1.46E-12	520	406
SKI	0.31521652	1.85E-13	1.48E-12	520	520
DTX1	0.315188775	1.86E-13	1.49E-12	520	520
C13orf29	0.315180025	1.86E-13	1.49E-12	520	520
SLCO2A1	0.315140958	1.88E-13	1.50E-12	520	520
COPB1	0.315109036	1.89E-13	1.51E-12	520	520
CHI3L1	0.315102073	1.89E-13	1.51E-12	520	520
ZNF454	0.315075215	1.90E-13	1.52E-12	520	487
SMPX	0.315060933	1.90E-13	1.52E-12	520	397
TNNI1	0.315020634	1.92E-13	1.53E-12	520	520
KIAA0040	0.314953103	1.94E-13	1.55E-12	520	520
PTPRJ	0.314695531	2.04E-13	1.63E-12	520	520
LRRC14B	0.31466689	2.05E-13	1.63E-12	520	365
SEMA3A	0.31453354	2.10E-13	1.67E-12	520	520
RILPL1	0.314419408	2.14E-13	1.71E-12	520	520
RRBP1	0.314383508	2.16E-13	1.72E-12	520	520
B4GALT1	0.314317489	2.18E-13	1.74E-12	520	520
TNFSF8	0.314147154	2.25E-13	1.79E-12	520	508
SPI1	0.314142868	2.25E-13	1.79E-12	520	520
POPDC3	0.314115831	2.27E-13	1.80E-12	520	516
HPCAL4	0.313826175	2.39E-13	1.90E-12	520	494
ELMOD1	0.313779632	2.41E-13	1.91E-12	520	478
DAB1	0.313765659	2.42E-13	1.92E-12	520	349
SYT3	0.31376256	2.42E-13	1.92E-12	520	453
KCNN3	0.313711301	2.44E-13	1.93E-12	520	520
MYOD1	0.313616405	2.48E-13	1.97E-12	520	296
KMO	0.313602944	2.49E-13	1.97E-12	520	520
PTGER4	0.31357755	2.50E-13	1.98E-12	520	520

HEXB	0.313508255	2.53E-13	2.00E-12	520	520
ETV5	0.313442649	2.56E-13	2.02E-12	520	520
MEGF8	0.313428033	2.57E-13	2.03E-12	520	520
LPPR5	0.313300415	2.63E-13	2.07E-12	520	412
SLC38A7	0.313243643	2.66E-13	2.10E-12	520	520
C1QTNF2	0.313121809	2.72E-13	2.14E-12	520	520
NAALADL1	0.313096322	2.73E-13	2.15E-12	520	520
LIMCH1	0.313067559	2.75E-13	2.16E-12	520	520
LRRC33	0.312984399	2.79E-13	2.19E-12	520	519
ALKBH8	0.312952123	2.80E-13	2.20E-12	520	520
MYH4	0.312826383	2.87E-13	2.25E-12	520	270
AQP1	0.312796809	2.88E-13	2.26E-12	520	520
FAM48B2	0.312611112	2.98E-13	2.34E-12	520	190
ATF7	0.312570358	3.01E-13	2.35E-12	520	520
NRSN2	0.312428867	3.09E-13	2.41E-12	520	520
DOCK2	0.312395134	3.10E-13	2.43E-12	520	520
ELFN2	0.312070629	3.29E-13	2.57E-12	520	506
BMP8B	0.312047137	3.31E-13	2.58E-12	520	520
SIGLEC1	0.31191353	3.39E-13	2.64E-12	520	520
OLFM2	0.311890466	3.40E-13	2.65E-12	520	520
IRS2	0.311850421	3.43E-13	2.67E-12	520	520
WFS1	0.311805211	3.46E-13	2.69E-12	520	520
FAM55C	0.311804511	3.46E-13	2.69E-12	520	520
ZNF788	0.311691805	3.53E-13	2.75E-12	520	519
CPD	0.311601054	3.59E-13	2.79E-12	520	520
FGR	0.311492577	3.66E-13	2.85E-12	520	520
ITGB1BP3	0.311463096	3.68E-13	2.86E-12	520	288
ZNF221	0.311351161	3.75E-13	2.91E-12	520	517
HSPB6	0.311330159	3.77E-13	2.92E-12	520	520
LAMC2	0.311272445	3.81E-13	2.95E-12	520	520
APOBEC2	0.311254747	3.82E-13	2.96E-12	520	479
SLC6A17	0.311224497	3.84E-13	2.98E-12	520	514
KIAA1377	0.311206753	3.85E-13	2.98E-12	520	519
DISP2	0.311144148	3.90E-13	3.02E-12	520	520
DSG2	0.310930502	4.05E-13	3.14E-12	520	520
FAM69A	0.310751483	4.19E-13	3.24E-12	520	520
RIN3	0.310678569	4.24E-13	3.28E-12	520	520
SPATA8	0.310635821	4.27E-13	3.30E-12	520	163
PLEC	0.310461426	4.41E-13	3.40E-12	520	520
HCK	0.310318331	4.53E-13	3.49E-12	520	520
ATP11A	0.310181984	4.64E-13	3.57E-12	520	520
SH3PXD2A	0.310123317	4.69E-13	3.61E-12	520	520
BEAN	0.310007664	4.79E-13	3.69E-12	520	517
SLC35B2	0.309983408	4.81E-13	3.70E-12	520	520
TYROBP	0.309898222	4.88E-13	3.75E-12	520	520
ST3GAL1	0.309896688	4.89E-13	3.75E-12	520	520

GDNF	0.309688848	5.07E-13	3.90E-12	520	403
SIGLEC5	0.309565449	5.19E-13	3.98E-12	520	517
TMEM200B	0.309419928	5.33E-13	4.08E-12	520	519
SHC4	0.309416291	5.33E-13	4.08E-12	520	515
KCTD7	0.309390819	5.35E-13	4.10E-12	520	520
ZNF22	0.309373087	5.37E-13	4.11E-12	520	520
ID3	0.309318996	5.42E-13	4.15E-12	520	520
OSGIN2	0.309279915	5.46E-13	4.18E-12	520	520
C14orf132	0.309268861	5.47E-13	4.18E-12	520	520
MYOZ2	0.309206867	5.53E-13	4.23E-12	520	410
SH3BP5	0.309103105	5.64E-13	4.31E-12	520	520
GIMAP6	0.309071267	5.67E-13	4.33E-12	520	519
CST1	0.30904504	5.70E-13	4.35E-12	520	501
DACH1	0.308918084	5.83E-13	4.45E-12	520	516
C20orf123	0.308906393	5.84E-13	4.45E-12	520	247
MS4A6A	0.308612081	6.16E-13	4.68E-12	520	520
SETD7	0.308522738	6.26E-13	4.76E-12	520	520
UTRN	0.308507355	6.28E-13	4.77E-12	520	520
OSTM1	0.308426189	6.37E-13	4.84E-12	520	520
HHATL	0.308403681	6.39E-13	4.85E-12	520	325
ARHGEF7	0.308292973	6.52E-13	4.95E-12	520	520
SYNPO	0.308252063	6.57E-13	4.98E-12	520	520
CFH	0.308214167	6.62E-13	5.02E-12	520	520
CKM	0.308126649	6.72E-13	5.09E-12	520	513
C14orf149	0.308100826	6.75E-13	5.11E-12	520	520
SCN3A	0.308075005	6.78E-13	5.13E-12	520	508
RNF216	0.308062119	6.80E-13	5.14E-12	520	520
STT3A	0.308060465	6.80E-13	5.14E-12	520	520
STAC3	0.308050895	6.81E-13	5.15E-12	520	520
IL6ST	0.308006435	6.87E-13	5.19E-12	520	520
CRY2	0.307966151	6.92E-13	5.22E-12	520	520
MYOM1	0.307955389	6.93E-13	5.23E-12	520	520
NEK1	0.30775144	7.19E-13	5.42E-12	520	520
IL17RA	0.307704209	7.25E-13	5.46E-12	520	520
JAG1	0.307695193	7.26E-13	5.47E-12	520	520
NF1	0.307595059	7.39E-13	5.56E-12	520	520
POPDC2	0.307499425	7.52E-13	5.66E-12	520	520
SALL2	0.307396034	7.66E-13	5.75E-12	520	519
ADCY7	0.307283407	7.82E-13	5.87E-12	520	520
LILRB5	0.307117574	8.05E-13	6.04E-12	520	519
FNDC5	0.307075601	8.11E-13	6.09E-12	520	513
ADAMTS18	0.30702461	8.19E-13	6.14E-12	520	481
FTHL3	0.306972922	8.26E-13	6.19E-12	520	520
SEMA6D	0.306950856	8.30E-13	6.22E-12	520	520
CHST13	0.306793123	8.53E-13	6.38E-12	520	506
UNC5A	0.306649782	8.75E-13	6.55E-12	520	514

ARHGAP20	0.306472706	9.03E-13	6.75E-12	520	518
MLXIP	0.306358213	9.22E-13	6.87E-12	520	520
SELM	0.306353875	9.23E-13	6.88E-12	520	520
ROCK2	0.306310439	9.30E-13	6.93E-12	520	520
FAM65C	0.30620944	9.47E-13	7.05E-12	520	520
MBTPS2	0.306165399	9.54E-13	7.10E-12	520	520
SEC23IP	0.306142079	9.58E-13	7.12E-12	520	520
RTN2	0.305941335	9.93E-13	7.38E-12	520	520
FAM190B	0.305880035	1.00E-12	7.45E-12	520	520
ARL10	0.30583385	1.01E-12	7.51E-12	520	519
MMP3	0.305782291	1.02E-12	7.57E-12	520	520
TEAD2	0.305695666	1.04E-12	7.69E-12	520	520
PCDHGB4	0.30566408	1.04E-12	7.73E-12	520	502
TMEM8A	0.305569079	1.06E-12	7.85E-12	520	520
LOC134466	0.30550239	1.07E-12	7.94E-12	520	504
CD14	0.305174707	1.14E-12	8.41E-12	520	520
ZNF583	0.305028609	1.17E-12	8.62E-12	520	516
PROC	0.304934796	1.19E-12	8.75E-12	520	518
GIT2	0.304802488	1.22E-12	8.95E-12	520	520
DPF3	0.304642902	1.25E-12	9.20E-12	520	517
LILRB2	0.304527032	1.28E-12	9.38E-12	520	520
POFUT1	0.304506505	1.28E-12	9.41E-12	520	520
CYTSA	0.304492945	1.28E-12	9.43E-12	520	520
ZNF676	0.304470811	1.29E-12	9.46E-12	520	334
CSF3R	0.304458907	1.29E-12	9.47E-12	520	520
MMRN2	0.304387922	1.31E-12	9.59E-12	520	520
PDZD8	0.304320767	1.32E-12	9.70E-12	520	520
ADD1	0.304306638	1.33E-12	9.72E-12	520	520
HSD17B11	0.304179355	1.36E-12	9.94E-12	520	520
DOCK11	0.30417782	1.36E-12	9.94E-12	520	520
WTIP	0.304100625	1.38E-12	1.01E-11	520	520
PCDHB3	0.303836005	1.44E-12	1.05E-11	520	519
RAB42	0.30375184	1.46E-12	1.07E-11	520	518
SIK2	0.303664751	1.49E-12	1.08E-11	520	520
DPY19L1	0.303635539	1.49E-12	1.09E-11	520	520
ZC3H13	0.303617159	1.50E-12	1.09E-11	520	520
ZDHHC8	0.303565043	1.51E-12	1.10E-11	520	520
LGMN	0.303407785	1.56E-12	1.13E-11	520	520
RBMS1	0.303344929	1.57E-12	1.14E-11	520	520
CD63	0.303175566	1.62E-12	1.18E-11	520	520
FGF10	0.303142797	1.63E-12	1.18E-11	520	271
FFAR3	0.303043666	1.66E-12	1.20E-11	520	452
KIT	0.302979864	1.68E-12	1.22E-11	520	519
WDR35	0.302979534	1.68E-12	1.22E-11	520	520
ODZ2	0.302959264	1.68E-12	1.22E-11	520	520
CHN2	0.302936072	1.69E-12	1.23E-11	520	520

SDK1	0.302642833	1.78E-12	1.29E-11	520	520
C8orf34	0.30260436	1.79E-12	1.30E-11	520	454
NFIC	0.302571239	1.80E-12	1.30E-11	520	520
FAM195B	0.302566834	1.80E-12	1.31E-11	520	520
SHE	0.302486585	1.83E-12	1.32E-11	520	520
BARX1	0.302473568	1.83E-12	1.33E-11	520	514
LOC145783	0.302470729	1.83E-12	1.33E-11	520	519
LATS1	0.302307742	1.89E-12	1.36E-11	520	520
ATM	0.302209915	1.92E-12	1.39E-11	520	520
EFR3A	0.302097348	1.96E-12	1.41E-11	520	520
ATP7B	0.302082295	1.96E-12	1.41E-11	520	520
C12orf59	0.30199984	1.99E-12	1.43E-11	520	514
C14orf139	0.30188599	2.03E-12	1.46E-11	520	519
COG6	0.301873914	2.04E-12	1.46E-11	520	520
IFITM2	0.301853198	2.04E-12	1.47E-11	520	520
MAP4K4	0.301792556	2.07E-12	1.48E-11	520	520
UTP14C	0.301742712	2.08E-12	1.50E-11	520	520
MIB1	0.301636156	2.12E-12	1.52E-11	520	520
NFAM1	0.301500502	2.17E-12	1.56E-11	520	520
OSM	0.301461934	2.19E-12	1.57E-11	520	520
HEY1	0.301151582	2.31E-12	1.66E-11	520	520
FZD7	0.301069541	2.34E-12	1.68E-11	520	520
CCL11	0.30104371	2.36E-12	1.69E-11	520	517
AOX1	0.300955291	2.39E-12	1.71E-11	520	519
ADAM10	0.300950387	2.39E-12	1.71E-11	520	520
SLC27A1	0.300914715	2.41E-12	1.72E-11	520	520
WDR81	0.300904482	2.41E-12	1.72E-11	520	520
RBMS2	0.300895659	2.42E-12	1.73E-11	520	520
SHANK3	0.300831248	2.44E-12	1.75E-11	520	520
GPR180	0.300786745	2.46E-12	1.76E-11	520	520
FLJ36031	0.300768447	2.47E-12	1.76E-11	520	520
GRIP2	0.300738932	2.48E-12	1.77E-11	520	513
ADCY4	0.30039626	2.64E-12	1.88E-11	520	520
KLHL6	0.300338372	2.66E-12	1.89E-11	520	520
DMD	0.300224139	2.72E-12	1.93E-11	520	520
SOX4	0.300196746	2.73E-12	1.94E-11	520	520
CD99	0.300195024	2.73E-12	1.94E-11	520	520
DOCK10	0.300167214	2.74E-12	1.95E-11	520	520
AKAP11	0.300110986	2.77E-12	1.97E-11	520	520
C3orf55	0.300098006	2.78E-12	1.97E-11	520	461
CACNA2D1	0.300009241	2.82E-12	2.00E-11	520	508
FOXF1	0.299880654	2.88E-12	2.04E-11	520	519
RASSF2	0.299879573	2.89E-12	2.04E-11	520	520
ZNF542	0.299848393	2.90E-12	2.05E-11	520	520
HTR1F	0.299807347	2.92E-12	2.07E-11	520	466
PTPRU	0.299782345	2.93E-12	2.08E-11	520	520

SARM1	0.299763155	2.94E-12	2.08E-11	520	520
GP5M1	0.299760869	2.95E-12	2.08E-11	520	520
ABTB2	0.299729299	2.96E-12	2.09E-11	520	520
ADRBK2	0.299524692	3.07E-12	2.17E-11	520	520
LILRA1	0.299483307	3.09E-12	2.18E-11	520	478
ZNF382	0.299417617	3.13E-12	2.21E-11	520	513
ENAH	0.299366743	3.15E-12	2.22E-11	520	520
LOC285696	0.299232896	3.23E-12	2.27E-11	520	352
SLFN12	0.299196426	3.25E-12	2.29E-11	520	520
ESYT1	0.299183071	3.26E-12	2.29E-11	520	520
PCDHGA10	0.299097311	3.31E-12	2.32E-11	520	517
EMR2	0.298972033	3.38E-12	2.37E-11	520	520
ZNF85	0.298892807	3.42E-12	2.40E-11	520	520
PAMR1	0.298614844	3.59E-12	2.52E-11	520	520
LAMA3	0.298601498	3.60E-12	2.52E-11	520	520
GIMAP8	0.29851724	3.65E-12	2.56E-11	520	520
FPR2	0.29846286	3.69E-12	2.58E-11	520	516
AZIN1	0.298313474	3.79E-12	2.65E-11	520	520
HIVEP2	0.298263134	3.82E-12	2.67E-11	520	520
CST4	0.298257466	3.82E-12	2.67E-11	520	422
ZNF582	0.298083644	3.94E-12	2.75E-11	520	512
C20orf200	0.297826207	4.12E-12	2.88E-11	520	369
HRH1	0.297726256	4.19E-12	2.92E-11	520	520
EXT1	0.297436114	4.40E-12	3.07E-11	520	520
PIK3R5	0.297424239	4.41E-12	3.08E-11	520	520
CXorf64	0.297355911	4.47E-12	3.11E-11	520	267
MYH7	0.297293483	4.51E-12	3.14E-11	520	468
PHKG1	0.297286257	4.52E-12	3.14E-11	520	496
C6orf225	0.297224336	4.57E-12	3.18E-11	520	520
L1TD1	0.297162568	4.62E-12	3.21E-11	520	448
ZNF474	0.297143295	4.63E-12	3.22E-11	520	517
ILDR2	0.297132626	4.64E-12	3.22E-11	520	367
ITGAM	0.296886942	4.84E-12	3.35E-11	520	520
FMNL1	0.29687241	4.85E-12	3.36E-11	520	520
KIDINS220	0.296850222	4.87E-12	3.37E-11	520	520
KCTD10	0.296828259	4.89E-12	3.38E-11	520	520
ZFP1	0.296777265	4.93E-12	3.41E-11	520	520
PRRC1	0.296721271	4.98E-12	3.44E-11	520	520
CACNG6	0.296550006	5.13E-12	3.54E-11	520	373
DYSFIP1	0.29650646	5.17E-12	3.56E-11	520	477
TRIL	0.29644831	5.22E-12	3.60E-11	520	519
C6orf191	0.296423641	5.24E-12	3.61E-11	520	223
EFHA2	0.296126871	5.52E-12	3.80E-11	520	512
CHRD2	0.296059576	5.58E-12	3.84E-11	520	504
GNA13	0.296050159	5.59E-12	3.84E-11	520	520
2-Sep	0.295919536	5.71E-12	3.93E-11	520	520

BMP6	0.295908991	5.72E-12	3.93E-11	520	519
OSBPL8	0.295893451	5.74E-12	3.94E-11	520	520
GAL3ST4	0.295861312	5.77E-12	3.96E-11	520	520
TMEM150B	0.295762155	5.87E-12	4.02E-11	520	514
MYBPC1	0.295718191	5.91E-12	4.05E-11	520	458
CPE	0.295519467	6.12E-12	4.19E-11	520	520
FCGR2B	0.295483871	6.16E-12	4.21E-11	520	520
TMX4	0.295397043	6.25E-12	4.27E-11	520	520
KCTD16	0.295144557	6.52E-12	4.46E-11	520	433
ZNF727	0.295133412	6.54E-12	4.46E-11	520	304
GPR64	0.295122584	6.55E-12	4.47E-11	520	510
MYOM3	0.295122064	6.55E-12	4.47E-11	520	520
MGAT1	0.295007514	6.68E-12	4.56E-11	520	520
ANKRD34A	0.294952013	6.74E-12	4.60E-11	520	519
RAB30	0.29493829	6.76E-12	4.61E-11	520	520
NDP	0.294877058	6.83E-12	4.65E-11	520	471
DUSP4	0.294847864	6.86E-12	4.67E-11	520	520
MAN2B1	0.294804207	6.91E-12	4.71E-11	520	520
TOR1AIP1	0.294730677	7.00E-12	4.76E-11	520	520
FLJ42709	0.294682874	7.06E-12	4.80E-11	520	520
OSMR	0.294628172	7.12E-12	4.84E-11	520	520
C19orf12	0.294604294	7.15E-12	4.86E-11	520	520
ST8SIA4	0.294532335	7.24E-12	4.91E-11	520	520
IL17D	0.294493083	7.29E-12	4.94E-11	520	499
RNF152	0.294371799	7.44E-12	5.05E-11	520	520
LIMK1	0.294332914	7.49E-12	5.08E-11	520	520
HSP90B3P	0.294226181	7.63E-12	5.17E-11	520	519
ZDHC17	0.293999029	7.93E-12	5.37E-11	520	520
EYA4	0.293995181	7.94E-12	5.37E-11	520	503
ZFP82	0.293879182	8.09E-12	5.48E-11	520	520
PALM	0.293820041	8.17E-12	5.53E-11	520	520
CDK17	0.293760622	8.26E-12	5.58E-11	520	520
RNF217	0.293723967	8.31E-12	5.61E-11	520	520
CCDC149	0.293605865	8.48E-12	5.72E-11	520	520
HEXA	0.293602802	8.48E-12	5.72E-11	520	520
ZNF618	0.293537783	8.58E-12	5.78E-11	520	520
MAST2	0.293424938	8.74E-12	5.89E-11	520	520
KIAA1429	0.293379339	8.81E-12	5.93E-11	520	520
LHX1	0.293359525	8.84E-12	5.95E-11	520	424
LOC100302640	0.293341325	8.87E-12	5.96E-11	520	421
SMTNL2	0.293331627	8.88E-12	5.97E-11	520	509
MYOZ1	0.293215568	9.06E-12	6.09E-11	520	508
GBF1	0.293086608	9.26E-12	6.21E-11	520	520
FGF1	0.293027247	9.35E-12	6.27E-11	520	520
MYH2	0.29293687	9.50E-12	6.37E-11	520	397
DUSP26	0.292761544	9.78E-12	6.55E-11	520	493

FBXO17	0.29274971	9.80E-12	6.56E-11	520	519
LMAN1	0.292699498	9.88E-12	6.61E-11	520	520
CATSPER1	0.292596073	1.01E-11	6.73E-11	520	516
FCGR1A	0.292581919	1.01E-11	6.74E-11	520	519
PCDHB7	0.292455401	1.03E-11	6.88E-11	520	520
SYT7	0.292407431	1.04E-11	6.94E-11	520	520
CDR2L	0.292253604	1.07E-11	7.12E-11	520	520
LOC729020	0.292218539	1.07E-11	7.16E-11	520	520
AHR	0.292181498	1.08E-11	7.20E-11	520	520
LOH3CR2A	0.292148021	1.08E-11	7.24E-11	520	519
ACTBL2	0.292082523	1.10E-11	7.31E-11	520	451
DNAH10	0.292050834	1.10E-11	7.35E-11	520	516
ZNF643	0.292005851	1.11E-11	7.41E-11	520	520
CMTM7	0.291982966	1.12E-11	7.43E-11	520	520
CD300A	0.291958197	1.12E-11	7.46E-11	520	520
GRASP	0.291894598	1.13E-11	7.54E-11	520	520
PKN1	0.291880203	1.14E-11	7.55E-11	520	520
FAM13A	0.291756786	1.16E-11	7.70E-11	520	520
LXN	0.291707628	1.17E-11	7.77E-11	520	520
LRIG1	0.291567373	1.20E-11	7.95E-11	520	520
C14orf118	0.29143556	1.22E-11	8.12E-11	520	520
HTR7	0.291393526	1.23E-11	8.17E-11	520	520
SSR3	0.291344475	1.24E-11	8.24E-11	520	520
AAK1	0.291291178	1.25E-11	8.31E-11	520	520
FAM119B	0.291055747	1.30E-11	8.64E-11	520	520
CYSLTR1	0.290966827	1.32E-11	8.76E-11	520	516
TMEM8B	0.290958459	1.33E-11	8.77E-11	520	520
DLGAP4	0.290954221	1.33E-11	8.78E-11	520	520
RCBTB1	0.290914168	1.34E-11	8.83E-11	520	520
ACLY	0.290911095	1.34E-11	8.83E-11	520	520
SC65	0.290862883	1.35E-11	8.90E-11	520	520
ZNF192	0.290851788	1.35E-11	8.91E-11	520	519
TMCC2	0.290648447	1.40E-11	9.21E-11	520	520
KCNK3	0.29064195	1.40E-11	9.22E-11	520	502
SLC37A3	0.290550898	1.42E-11	9.36E-11	520	520
C3orf36	0.290378555	1.46E-11	9.61E-11	520	517
TNPO1	0.29034125	1.47E-11	9.67E-11	520	520
MEX3C	0.290248506	1.49E-11	9.82E-11	520	520
FRY	0.290174292	1.51E-11	9.94E-11	520	520
GSPT2	0.289839034	1.60E-11	1.05E-10	520	520
SRPR	0.289769418	1.62E-11	1.06E-10	520	520
PTK2	0.289723027	1.63E-11	1.07E-10	520	520
FURIN	0.289694375	1.64E-11	1.07E-10	520	520
LRRN4CL	0.289598513	1.66E-11	1.09E-10	520	520
PELI2	0.289592256	1.67E-11	1.09E-10	520	520
SNORD116-20	0.289511683	1.69E-11	1.10E-10	520	384

COPS8	0.289404451	1.72E-11	1.12E-10	520	520
HTR1D	0.28937791	1.73E-11	1.13E-10	520	510
RTN1	0.289333721	1.74E-11	1.14E-10	520	520
ALDH1A2	0.289281976	1.75E-11	1.15E-10	520	500
CBL	0.28926936	1.76E-11	1.15E-10	520	520
SCUBE3	0.289231854	1.77E-11	1.15E-10	520	507
DMWD	0.289203444	1.78E-11	1.16E-10	520	520
SEMA4F	0.289200511	1.78E-11	1.16E-10	520	520
OAZ2	0.289145323	1.80E-11	1.17E-10	520	520
HNRPLL	0.289075933	1.82E-11	1.18E-10	520	520
C20orf30	0.288707003	1.93E-11	1.25E-10	520	520
SLC30A1	0.288618663	1.96E-11	1.27E-10	520	520
SMPD1	0.28853065	1.99E-11	1.29E-10	520	520
KDEL1R1	0.288442268	2.02E-11	1.31E-10	520	520
BCAR3	0.288398349	2.03E-11	1.32E-10	520	520
LOXL4	0.288333139	2.06E-11	1.33E-10	520	520
SLC40A1	0.288244039	2.09E-11	1.35E-10	520	520
LILRB1	0.288195814	2.10E-11	1.36E-10	520	520
KLHL29	0.288079401	2.14E-11	1.39E-10	520	520
ADORA3	0.287703658	2.28E-11	1.47E-10	520	519
RSU1	0.287672101	2.29E-11	1.48E-10	520	520
ZNF385B	0.287471381	2.37E-11	1.53E-10	520	501
CDS2	0.287420964	2.39E-11	1.54E-10	520	520
NBEA	0.287390776	2.40E-11	1.55E-10	520	515
PAK3	0.287206706	2.48E-11	1.60E-10	520	413
PLCB4	0.287166735	2.49E-11	1.61E-10	520	518
CLTC	0.287072731	2.53E-11	1.63E-10	520	520
RNF215	0.287069641	2.53E-11	1.63E-10	520	520
SLC38A10	0.287050047	2.54E-11	1.63E-10	520	520
PRDM5	0.286971731	2.58E-11	1.65E-10	520	519
POLK	0.286899844	2.61E-11	1.67E-10	520	520
C6orf138	0.286899383	2.61E-11	1.67E-10	520	516
GPSM3	0.286860378	2.62E-11	1.68E-10	520	520
CCNI	0.286705437	2.69E-11	1.73E-10	520	520
CXXC5	0.286342465	2.86E-11	1.83E-10	520	520
TINAGL1	0.286304786	2.88E-11	1.84E-10	520	520
PGM5P2	0.28621805	2.92E-11	1.87E-10	520	433
ATP8B4	0.28609245	2.98E-11	1.90E-10	520	519
PCBP3	0.286075302	2.99E-11	1.91E-10	520	520
MYH13	0.286058659	2.99E-11	1.91E-10	520	389
SATB1	0.285938807	3.05E-11	1.95E-10	520	520
MYH6	0.285885038	3.08E-11	1.97E-10	520	379
GGN	0.285774105	3.14E-11	2.00E-10	520	519
COX6A2	0.285731107	3.16E-11	2.01E-10	520	349
MMP12	0.285706376	3.17E-11	2.02E-10	520	520
POMT2	0.285532044	3.27E-11	2.08E-10	520	520

RGS18	0.285459966	3.30E-11	2.10E-10	520	517
TLR7	0.285235747	3.43E-11	2.18E-10	520	517
GAS6	0.285214418	3.44E-11	2.19E-10	520	520
PAX7	0.285187189	3.46E-11	2.20E-10	520	344
CDK6	0.285039559	3.54E-11	2.25E-10	520	520
UBXN10	0.284991341	3.57E-11	2.26E-10	520	514
PCDHA6	0.284960973	3.59E-11	2.27E-10	520	301
PTEN	0.284955899	3.59E-11	2.28E-10	520	520
OPN3	0.284768457	3.70E-11	2.34E-10	520	520
ZNF689	0.284714933	3.73E-11	2.36E-10	520	519
CD300LF	0.284661415	3.77E-11	2.38E-10	520	520
FAM196A	0.284430415	3.91E-11	2.47E-10	520	497
LOC541471	0.284428931	3.91E-11	2.47E-10	520	520
ZNF462	0.28430652	3.99E-11	2.52E-10	520	520
ANKRD44	0.284234123	4.04E-11	2.55E-10	520	520
RTN4	0.284197215	4.06E-11	2.56E-10	520	520
MSX1	0.284196798	4.06E-11	2.56E-10	520	520
RXFP1	0.284147038	4.10E-11	2.58E-10	520	439
MGRN1	0.284113786	4.12E-11	2.59E-10	520	520
C6orf123	0.283992314	4.20E-11	2.64E-10	520	443
NCKAP1L	0.283988877	4.21E-11	2.64E-10	520	520
ABI2	0.283982233	4.21E-11	2.65E-10	520	520
ZNF804A	0.283942304	4.24E-11	2.66E-10	520	479
GABARAPL3	0.283751581	4.37E-11	2.75E-10	520	476
FIGN	0.283548971	4.52E-11	2.84E-10	520	509
TNNC1	0.283546868	4.52E-11	2.84E-10	520	496
PDZD7	0.283392482	4.64E-11	2.91E-10	520	518
SLC24A3	0.283361799	4.66E-11	2.92E-10	520	520
FCN1	0.283214584	4.77E-11	2.99E-10	520	519
C4A	0.283080024	4.88E-11	3.05E-10	520	520
FCGRT	0.28307266	4.88E-11	3.06E-10	520	520
C5orf58	0.283050587	4.90E-11	3.07E-10	520	443
BET1L	0.283040393	4.91E-11	3.07E-10	520	520
FOXP3	0.283020461	4.92E-11	3.08E-10	520	520
WWC3	0.283001342	4.94E-11	3.09E-10	520	520
KCNA7	0.282970245	4.97E-11	3.10E-10	520	496
ARHGAP21	0.282962213	4.97E-11	3.11E-10	520	520
PAR5	0.282917561	5.01E-11	3.13E-10	520	467
TCEAL5	0.282801322	5.10E-11	3.18E-10	520	515
FHL2	0.282760755	5.14E-11	3.20E-10	520	520
RCSD1	0.282497019	5.36E-11	3.34E-10	520	520
LNPEP	0.282461649	5.39E-11	3.36E-10	520	520
SLC20A1	0.282416544	5.43E-11	3.38E-10	520	520
ATL1	0.282395518	5.45E-11	3.39E-10	520	520
CGB1	0.282383711	5.46E-11	3.40E-10	520	224
FAM20A	0.282356566	5.49E-11	3.41E-10	520	520

SIGLEC10	0.282297182	5.54E-11	3.44E-10	520	520
MARCKS	0.282262039	5.57E-11	3.46E-10	520	520
GPR125	0.282229605	5.60E-11	3.48E-10	520	520
SHOX2	0.2821896	5.64E-11	3.50E-10	520	519
C6orf72	0.282175183	5.65E-11	3.51E-10	520	520
RNF122	0.282091694	5.73E-11	3.55E-10	520	520
CYP27A1	0.281846739	5.96E-11	3.69E-10	520	520
ELN	0.281802743	6.00E-11	3.72E-10	520	520
RBP4	0.281735944	6.07E-11	3.76E-10	520	449
LRP4	0.281708334	6.09E-11	3.77E-10	520	520
NBLA00301	0.281707753	6.09E-11	3.77E-10	520	381
SPSB1	0.281694116	6.11E-11	3.78E-10	520	520
C12orf68	0.281686657	6.12E-11	3.78E-10	520	520
CACNA2D4	0.281527261	6.27E-11	3.88E-10	520	519
FOXN3	0.281268202	6.54E-11	4.04E-10	520	520
MAP1LC3B	0.281204955	6.61E-11	4.08E-10	520	520
REM1	0.281177397	6.64E-11	4.09E-10	520	519
LPP	0.281132565	6.69E-11	4.12E-10	520	520
FIGNL2	0.280984677	6.85E-11	4.22E-10	520	516
NECAB1	0.28095786	6.88E-11	4.23E-10	520	517
PEX5L	0.280947987	6.89E-11	4.24E-10	520	381
SECISBP2L	0.280901387	6.94E-11	4.27E-10	520	520
PCDHGB2	0.28087315	6.97E-11	4.28E-10	520	513
RASSF3	0.280862126	6.99E-11	4.29E-10	520	520
SYNGAP1	0.280809663	7.05E-11	4.32E-10	520	520
C5orf41	0.28080848	7.05E-11	4.32E-10	520	520
FNIP1	0.280564695	7.33E-11	4.49E-10	520	520
HCFC2	0.280563643	7.33E-11	4.49E-10	520	520
ASB10	0.280560079	7.34E-11	4.49E-10	520	244
KLHDC5	0.280475106	7.44E-11	4.55E-10	520	520
DET1	0.280430632	7.49E-11	4.58E-10	520	520
GJA1	0.28041203	7.51E-11	4.59E-10	520	520
SYT6	0.280396892	7.53E-11	4.60E-10	520	463
PNMA1	0.280374237	7.56E-11	4.62E-10	520	520
CA3	0.280357114	7.58E-11	4.63E-10	520	497
BIN1	0.280343725	7.60E-11	4.64E-10	520	520
NCRNA00152	0.280306081	7.64E-11	4.66E-10	520	520
ALDH3B1	0.280163143	7.82E-11	4.77E-10	520	520
PPARGC1A	0.280158534	7.83E-11	4.77E-10	520	515
SHC2	0.280141796	7.85E-11	4.78E-10	520	520
SSH2	0.280054691	7.96E-11	4.84E-10	520	520
SLC2A13	0.280038252	7.98E-11	4.85E-10	520	519
NGF	0.280012803	8.01E-11	4.87E-10	520	509
ST3GAL4	0.279962127	8.08E-11	4.91E-10	520	520
DISC1	0.27989044	8.17E-11	4.96E-10	520	520
EMB	0.279887685	8.17E-11	4.96E-10	520	520

ZMIZ1	0.279867896	8.20E-11	4.98E-10	520	520
HTR2B	0.279862106	8.21E-11	4.98E-10	520	507
CD53	0.279834095	8.24E-11	5.00E-10	520	520
TTLL7	0.279770335	8.33E-11	5.05E-10	520	518
RGS19	0.279616871	8.54E-11	5.17E-10	520	520
KIAA1383	0.27959592	8.57E-11	5.18E-10	520	516
IL31RA	0.279571705	8.60E-11	5.20E-10	520	517
NR2F1	0.279526896	8.66E-11	5.23E-10	520	519
OXTR	0.279501365	8.70E-11	5.25E-10	520	520
C1RL	0.279458395	8.76E-11	5.29E-10	520	520
SUN2	0.279453652	8.76E-11	5.29E-10	520	520
TBC1D5	0.27943716	8.79E-11	5.30E-10	520	520
SNAP25	0.279407795	8.83E-11	5.33E-10	520	513
BAI2	0.279350723	8.91E-11	5.37E-10	520	520
GNPTAB	0.27934947	8.91E-11	5.37E-10	520	520
ERN1	0.279306206	8.97E-11	5.40E-10	520	520
GNA11	0.27928678	9.00E-11	5.42E-10	520	520
DNAJC6	0.279286445	9.00E-11	5.42E-10	520	520
MYLK2	0.279284755	9.00E-11	5.42E-10	520	518
TM9SF2	0.279185485	9.15E-11	5.50E-10	520	520
KLHL33	0.278946738	9.51E-11	5.71E-10	520	286
PIGK	0.278907385	9.57E-11	5.74E-10	520	520
ARFGAP3	0.278896604	9.58E-11	5.75E-10	520	520
NUMBL	0.278718124	9.86E-11	5.92E-10	520	520
PIK3R6	0.27868448	9.91E-11	5.95E-10	520	519
DPP4	0.278670368	9.94E-11	5.96E-10	520	520
SEC22B	0.278646379	9.97E-11	5.98E-10	520	520
SCHIP1	0.278599217	1.00E-10	6.02E-10	520	520
GPRASP1	0.278593508	1.01E-10	6.02E-10	520	519
SGPP1	0.278583272	1.01E-10	6.03E-10	520	520
FHOD1	0.278472377	1.03E-10	6.14E-10	520	520
SLC36A1	0.278415925	1.03E-10	6.19E-10	520	520
CHRD1	0.278399054	1.04E-10	6.20E-10	520	488
LRRC55	0.27836683	1.04E-10	6.23E-10	520	513
PCDHA7	0.278311451	1.05E-10	6.29E-10	520	415
YPEL4	0.278300704	1.05E-10	6.30E-10	520	518
WASF3	0.278249327	1.06E-10	6.35E-10	520	519
HIPK3	0.278247768	1.06E-10	6.35E-10	520	520
LOC284441	0.278210588	1.07E-10	6.38E-10	520	520
AGBL1	0.278102519	1.09E-10	6.48E-10	520	401
CCDC85A	0.27801277	1.10E-10	6.57E-10	520	511
NTRK1	0.278010776	1.10E-10	6.57E-10	520	517
GPR97	0.277921077	1.12E-10	6.66E-10	520	519
MAP7D3	0.277795511	1.14E-10	6.80E-10	520	520
POTEE	0.277763861	1.15E-10	6.83E-10	520	518
KCNAB2	0.277699468	1.16E-10	6.89E-10	520	520

LOC257358	0.277578861	1.18E-10	7.03E-10	520	430
PLCE1	0.277417691	1.21E-10	7.20E-10	520	520
C1orf198	0.277251012	1.25E-10	7.39E-10	520	520
IL6	0.277193771	1.26E-10	7.46E-10	520	520
RNF41	0.277074388	1.28E-10	7.59E-10	520	520
PEG10	0.277023045	1.29E-10	7.65E-10	520	518
KIAA0090	0.276892985	1.32E-10	7.81E-10	520	520
MAP1LC3B2	0.276855617	1.33E-10	7.85E-10	520	520
SBK2	0.276712641	1.36E-10	8.03E-10	520	181
F7	0.276667492	1.37E-10	8.08E-10	520	450
ZP1	0.276581282	1.39E-10	8.19E-10	520	387
MPO	0.276523536	1.40E-10	8.26E-10	520	491
EFCAB4B	0.276520509	1.40E-10	8.26E-10	520	520
MT1L	0.276456455	1.41E-10	8.35E-10	520	520
DLX1	0.276425832	1.42E-10	8.38E-10	520	518
PRRG1	0.276379996	1.43E-10	8.44E-10	520	520
RAB43	0.276223645	1.47E-10	8.64E-10	520	520
UBASH3B	0.276092557	1.50E-10	8.82E-10	520	520
CDH4	0.276077837	1.50E-10	8.84E-10	520	469
TCAP	0.275862396	1.55E-10	9.14E-10	520	518
YIPF7	0.27572918	1.59E-10	9.33E-10	520	266
TMED10	0.275576974	1.62E-10	9.54E-10	520	520
USHBP1	0.275453345	1.66E-10	9.72E-10	520	520
CNGA3	0.275372385	1.68E-10	9.85E-10	520	324
REST	0.27533298	1.69E-10	9.90E-10	520	520
PACSIN2	0.275323675	1.69E-10	9.92E-10	520	520
FADS3	0.275151284	1.74E-10	1.02E-09	520	520
UVRAG	0.275147939	1.74E-10	1.02E-09	520	520
PCDH19	0.275056398	1.76E-10	1.03E-09	520	507
ART5	0.274913884	1.80E-10	1.06E-09	520	449
ARMCX3	0.274904716	1.81E-10	1.06E-09	520	520
RADIL	0.274812324	1.83E-10	1.07E-09	520	520
SMYD3	0.274809376	1.83E-10	1.07E-09	520	520
FAM19A3	0.274698389	1.87E-10	1.09E-09	520	472
STMN2	0.274671997	1.87E-10	1.09E-09	520	385
XRN2	0.274669417	1.87E-10	1.09E-09	520	520
FRMD6	0.274645968	1.88E-10	1.10E-09	520	520
FRMD3	0.274499574	1.93E-10	1.12E-09	520	501
GCC2	0.274490379	1.93E-10	1.12E-09	520	520
TNFSF13B	0.274458883	1.94E-10	1.13E-09	520	520
ANKRD23	0.274314369	1.98E-10	1.15E-09	520	520
PKD1L1	0.27426733	2.00E-10	1.16E-09	520	517
FKRP	0.274233179	2.01E-10	1.17E-09	520	520
KIAA1274	0.274187265	2.02E-10	1.18E-09	520	520
WWTR1	0.274184516	2.02E-10	1.18E-09	520	520
GJD3	0.274096261	2.05E-10	1.19E-09	520	519

FES	0.274072108	2.06E-10	1.20E-09	520	520
CTSL1	0.274049829	2.07E-10	1.20E-09	520	520
FRMD4A	0.274027096	2.07E-10	1.20E-09	520	520
RAPSN	0.273882166	2.12E-10	1.23E-09	520	487
RIPK2	0.273851245	2.13E-10	1.24E-09	520	520
FAM73A	0.273845882	2.13E-10	1.24E-09	520	520
LRRC66	0.273837207	2.14E-10	1.24E-09	520	501
CLASP1	0.273827087	2.14E-10	1.24E-09	520	520
LOC148824	0.273818639	2.14E-10	1.24E-09	520	210
SLC30A4	0.273806674	2.15E-10	1.24E-09	520	520
PCDH10	0.273789706	2.15E-10	1.25E-09	520	454
VEZF1	0.273780668	2.16E-10	1.25E-09	520	520
SPIN2A	0.27370164	2.18E-10	1.26E-09	520	419
LIPC	0.273591309	2.22E-10	1.28E-09	520	512
ALOX5AP	0.27348314	2.26E-10	1.30E-09	520	520
LASS2	0.273469823	2.26E-10	1.31E-09	520	520
MAP1S	0.273416139	2.28E-10	1.32E-09	520	520
FCGR1C	0.27334191	2.31E-10	1.33E-09	520	517
ZFP106	0.273337107	2.31E-10	1.33E-09	520	520
PCDHB2	0.273329465	2.31E-10	1.33E-09	520	520
SPRY2	0.273283682	2.33E-10	1.34E-09	520	520
SRBD1	0.273218988	2.35E-10	1.36E-09	520	520
LIMA1	0.273218235	2.35E-10	1.36E-09	520	520
ZNF703	0.2731912	2.36E-10	1.36E-09	520	520
CD1D	0.273160582	2.37E-10	1.37E-09	520	520
NDNL2	0.273128304	2.39E-10	1.37E-09	520	520
LY86	0.273125127	2.39E-10	1.37E-09	520	520
CAV1	0.273022954	2.43E-10	1.40E-09	520	520
PI4KA	0.272875582	2.48E-10	1.43E-09	520	520
PTPN5	0.272828134	2.50E-10	1.44E-09	520	464
LOC400940	0.272795177	2.51E-10	1.44E-09	520	164
SNORD116-4	0.27276972	2.52E-10	1.45E-09	520	440
APLP1	0.272685524	2.56E-10	1.47E-09	520	520
ARPC1B	0.272684912	2.56E-10	1.47E-09	520	520
RRM2B	0.272536866	2.62E-10	1.50E-09	520	520
CNTN6	0.272463149	2.65E-10	1.51E-09	520	208
LOC145820	0.272296566	2.72E-10	1.55E-09	520	505
FAM105A	0.272274639	2.73E-10	1.56E-09	520	520
VKORC1	0.272218814	2.75E-10	1.57E-09	520	520
ENO3	0.272133055	2.79E-10	1.59E-09	520	520
HFE	0.272126004	2.79E-10	1.59E-09	520	520
PCDHGB3	0.272068822	2.82E-10	1.60E-09	520	494
DZIP1L	0.272000227	2.85E-10	1.62E-09	520	520
MYOF	0.271901475	2.89E-10	1.65E-09	520	520
SLC30A2	0.271725114	2.97E-10	1.69E-09	520	415
MICAL1	0.271632208	3.01E-10	1.71E-09	520	520

MT1F	0.271601524	3.03E-10	1.72E-09	520	520
RGS5	0.271576704	3.04E-10	1.73E-09	520	520
ZDHHHC9	0.271543993	3.06E-10	1.74E-09	520	520
EIF2C3	0.271396904	3.13E-10	1.78E-09	520	520
ESYT2	0.271361906	3.14E-10	1.78E-09	520	520
TMEM200C	0.271341954	3.15E-10	1.79E-09	520	458
VENTX	0.271283096	3.18E-10	1.81E-09	520	515
TCTN1	0.271279369	3.18E-10	1.81E-09	520	520
C11orf63	0.271223449	3.21E-10	1.82E-09	520	519
HDAC7	0.2711110857	3.27E-10	1.85E-09	520	520
PQLC3	0.271078015	3.28E-10	1.86E-09	520	520
USP13	0.271022835	3.31E-10	1.88E-09	520	520
DRD2	0.271022115	3.31E-10	1.88E-09	520	451
KLHL3	0.270860149	3.40E-10	1.92E-09	520	520
MS4A14	0.27073685	3.46E-10	1.96E-09	520	520
ACHE	0.270677791	3.49E-10	1.97E-09	520	520
VSTM1	0.270666501	3.50E-10	1.98E-09	520	314
TSGA14	0.270601448	3.54E-10	2.00E-09	520	520
ARNT	0.270569396	3.55E-10	2.00E-09	520	520
C21orf96	0.270482304	3.60E-10	2.03E-09	520	309
MYO7B	0.27038285	3.66E-10	2.06E-09	520	518
C6orf122	0.270301976	3.70E-10	2.09E-09	520	519
TMEM64	0.27001021	3.87E-10	2.18E-09	520	520
ANKIB1	0.269959634	3.91E-10	2.20E-09	520	520
G0S2	0.269900838	3.94E-10	2.22E-09	520	520
CCDC3	0.269701181	4.06E-10	2.28E-09	520	520
TEP1	0.269656786	4.09E-10	2.30E-09	520	520
PDE7A	0.269648323	4.10E-10	2.30E-09	520	520
FCGR1B	0.269637191	4.10E-10	2.30E-09	520	520
KIF5C	0.269606663	4.12E-10	2.31E-09	520	518
BCL9L	0.269600843	4.13E-10	2.31E-09	520	520
PLD3	0.269553335	4.16E-10	2.33E-09	520	520
WNT9B	0.269549687	4.16E-10	2.33E-09	520	401
CAT	0.269517593	4.18E-10	2.34E-09	520	520
ZYG11B	0.269271105	4.34E-10	2.43E-09	520	520
MYH16	0.269240035	4.36E-10	2.44E-09	520	490
RAPGEF4	0.269230083	4.37E-10	2.44E-09	520	519
SNX10	0.269200707	4.39E-10	2.45E-09	520	520
C7orf42	0.269138757	4.43E-10	2.48E-09	520	520
C17orf60	0.269123249	4.44E-10	2.48E-09	520	515
ZKSCAN5	0.269109987	4.45E-10	2.49E-09	520	520
MYT1L	0.268965207	4.55E-10	2.54E-09	520	256
DMGDH	0.26888732	4.61E-10	2.57E-09	520	484
BHLHE22	0.268845679	4.64E-10	2.59E-09	520	517
XPR1	0.268806598	4.66E-10	2.60E-09	520	520
ZNF333	0.268794409	4.67E-10	2.60E-09	520	520

KIF6	0.26876202	4.70E-10	2.62E-09	520	495
DKFZp566F0947	0.268751927	4.70E-10	2.62E-09	520	367
SAMD4B	0.268656892	4.77E-10	2.65E-09	520	520
ABHD2	0.268595334	4.82E-10	2.68E-09	520	520
SCN7A	0.268580624	4.83E-10	2.68E-09	520	375
SLC41A1	0.268435444	4.94E-10	2.74E-09	520	520
OBSL1	0.268406189	4.96E-10	2.75E-09	520	520
IQGAP1	0.26833656	5.01E-10	2.78E-09	520	520
TNFSF12- TNFSF13	0.268326858	5.02E-10	2.78E-09	520	498
TEX11	0.268283778	5.05E-10	2.80E-09	520	454
6-Sep	0.26818436	5.13E-10	2.84E-09	520	520
LPPR3	0.268004933	5.27E-10	2.92E-09	520	326
SLC25A32	0.267984663	5.29E-10	2.93E-09	520	520
C20orf3	0.267982072	5.29E-10	2.93E-09	520	520
ZCCHC14	0.267917277	5.35E-10	2.96E-09	520	520
C1QB	0.267874033	5.38E-10	2.98E-09	520	520
HSPB3	0.267785298	5.45E-10	3.01E-09	520	495
OSBPL1A	0.26776889	5.47E-10	3.02E-09	520	520
MTDH	0.267679221	5.54E-10	3.06E-09	520	520
C17orf72	0.267627382	5.59E-10	3.08E-09	520	519
NAIP	0.267507994	5.69E-10	3.14E-09	520	519
MGC2752	0.267451646	5.74E-10	3.16E-09	520	520
FBXW8	0.267389449	5.79E-10	3.19E-09	520	520
STAB2	0.267352368	5.83E-10	3.21E-09	520	419
DNAJC5B	0.267271072	5.90E-10	3.24E-09	520	466
MAP1LC3C	0.267248396	5.92E-10	3.25E-09	520	449
SEC24A	0.267243648	5.93E-10	3.25E-09	520	520
ZNF69	0.267112806	6.04E-10	3.31E-09	520	517
APBA1	0.266800403	6.34E-10	3.48E-09	520	519
TMEM181	0.266796651	6.34E-10	3.48E-09	520	520
TMEM231	0.266796053	6.34E-10	3.48E-09	520	520
HSN2	0.266721748	6.42E-10	3.51E-09	520	513
CXCR7	0.266719179	6.42E-10	3.52E-09	520	520
HIVEP3	0.266591019	6.55E-10	3.58E-09	520	520
CXorf21	0.266459239	6.68E-10	3.65E-09	520	517
PIP4K2A	0.266413803	6.72E-10	3.67E-09	520	520
DISP1	0.266238048	6.91E-10	3.77E-09	520	519
8-Mar	0.266204057	6.94E-10	3.79E-09	520	520
STAC2	0.266172638	6.98E-10	3.81E-09	520	500
RNASE6	0.266126513	7.02E-10	3.83E-09	520	520
COPG	0.266009094	7.15E-10	3.90E-09	520	520
C1orf95	0.265975706	7.19E-10	3.92E-09	520	477
C20orf160	0.265953094	7.21E-10	3.93E-09	520	520
KCNG2	0.26574822	7.44E-10	4.05E-09	520	431
ZBTB16	0.265476708	7.75E-10	4.21E-09	520	467

AP2A2	0.265454116	7.78E-10	4.23E-09	520	520
TTC28	0.265363588	7.89E-10	4.28E-09	520	520
SEC14L2	0.265292459	7.97E-10	4.33E-09	520	520
TCF7L2	0.265257193	8.01E-10	4.35E-09	520	520
NPTXR	0.265232561	8.04E-10	4.36E-09	520	519
HVCN1	0.265166443	8.12E-10	4.40E-09	520	520
ST8SIA1	0.265074738	8.24E-10	4.46E-09	520	520
CPVL	0.265059191	8.26E-10	4.47E-09	520	520
FAM10A4	0.265029499	8.30E-10	4.49E-09	520	520
GIMAP4	0.265026048	8.30E-10	4.49E-09	520	520
LY6H	0.264976478	8.36E-10	4.52E-09	520	482
C4orf39	0.264971485	8.37E-10	4.53E-09	520	444
COL27A1	0.264943728	8.40E-10	4.54E-09	520	520
TAOK1	0.264943608	8.40E-10	4.54E-09	520	520
SNX27	0.264929795	8.42E-10	4.55E-09	520	520
ZNF610	0.264904718	8.45E-10	4.57E-09	520	508
REL	0.264876878	8.49E-10	4.58E-09	520	520
PID1	0.264646647	8.79E-10	4.74E-09	520	520
PCDHGA7	0.264631917	8.81E-10	4.75E-09	520	502
LRRN1	0.264629199	8.81E-10	4.75E-09	520	507
GYG2	0.264452152	9.05E-10	4.88E-09	520	519
ZBTB41	0.264448565	9.06E-10	4.88E-09	520	520
RAB5C	0.264391636	9.13E-10	4.92E-09	520	520
C9orf21	0.264271269	9.30E-10	5.00E-09	520	520
UTS2R	0.264229255	9.36E-10	5.03E-09	520	313
LOC650623	0.264123917	9.51E-10	5.11E-09	520	515
LOC400804	0.264102685	9.54E-10	5.12E-09	520	189
PCDHB12	0.263957275	9.75E-10	5.23E-09	520	520
SPHK1	0.263913921	9.82E-10	5.26E-09	520	520
GP5	0.263763721	1.00E-09	5.37E-09	520	429
RAB39	0.263750863	1.01E-09	5.38E-09	520	480
RAD54L2	0.263733409	1.01E-09	5.39E-09	520	520
ZNF568	0.263729378	1.01E-09	5.39E-09	520	518
IKZF4	0.263726194	1.01E-09	5.39E-09	520	520
MICALCL	0.263717983	1.01E-09	5.40E-09	520	519
GRPR	0.263647495	1.02E-09	5.46E-09	520	445
IL3RA	0.263623259	1.03E-09	5.47E-09	520	520
PRDM6	0.263568655	1.03E-09	5.52E-09	520	516
ZNF319	0.263391589	1.06E-09	5.66E-09	520	520
HTR7P1	0.263338365	1.07E-09	5.70E-09	520	520
LOC92249	0.26330732	1.08E-09	5.72E-09	520	520
S100A1	0.263303031	1.08E-09	5.72E-09	520	520
NTN1	0.263249441	1.08E-09	5.77E-09	520	520
PARP11	0.263229996	1.09E-09	5.78E-09	520	520
ZDHHHC8P1	0.263220043	1.09E-09	5.79E-09	520	505
ZNF609	0.263214213	1.09E-09	5.79E-09	520	520

PHF3	0.263209078	1.09E-09	5.79E-09	520	520
PPP1R12A	0.263201926	1.09E-09	5.80E-09	520	520
SCUBE2	0.263142919	1.10E-09	5.85E-09	520	519
DYRK3	0.263135763	1.10E-09	5.85E-09	520	520
NLN	0.263134634	1.10E-09	5.85E-09	520	520
TGFBRAP1	0.26301324	1.12E-09	5.95E-09	520	520
PDPR	0.262964614	1.13E-09	5.99E-09	520	520
SP4	0.262877422	1.15E-09	6.07E-09	520	520
GALNT5	0.262761923	1.17E-09	6.17E-09	520	519
FSIP1	0.262736964	1.17E-09	6.19E-09	520	514
PCDHGB1	0.262724503	1.17E-09	6.20E-09	520	507
IRAK3	0.262585223	1.20E-09	6.33E-09	520	520
SHD	0.262576267	1.20E-09	6.34E-09	520	479
ZNF549	0.262540884	1.21E-09	6.37E-09	520	520
GTF2A1	0.262449013	1.22E-09	6.46E-09	520	520
TMED10P1	0.262386555	1.23E-09	6.52E-09	520	520
RHOB	0.262324758	1.25E-09	6.57E-09	520	520
MYO1B	0.26227005	1.26E-09	6.63E-09	520	520
SNX12	0.262253498	1.26E-09	6.64E-09	520	520
HELZ	0.262211136	1.27E-09	6.68E-09	520	520
BCL9	0.262014861	1.30E-09	6.87E-09	520	520
GRM2	0.261998068	1.31E-09	6.89E-09	520	516
LUZP1	0.261884287	1.33E-09	7.00E-09	520	520
CCR4	0.26188217	1.33E-09	7.00E-09	520	503
UBR5	0.261869776	1.33E-09	7.01E-09	520	520
CMTM6	0.261825196	1.34E-09	7.06E-09	520	520
EDEM1	0.261817499	1.34E-09	7.06E-09	520	520
FGF2	0.261758315	1.36E-09	7.12E-09	520	519
TREM1	0.261716508	1.36E-09	7.16E-09	520	520
TRPA1	0.261706355	1.37E-09	7.17E-09	520	511
NME7	0.261689824	1.37E-09	7.19E-09	520	520
IL18R1	0.261653919	1.38E-09	7.23E-09	520	520
PLEKHG4B	0.261645778	1.38E-09	7.23E-09	520	520
TMF1	0.261601156	1.39E-09	7.28E-09	520	520
TMEM195	0.26152614	1.40E-09	7.36E-09	520	411
CCDC110	0.261488629	1.41E-09	7.39E-09	520	505
SCRN1	0.261287672	1.45E-09	7.61E-09	520	520
DERL1	0.261250146	1.46E-09	7.65E-09	520	520
GLT1D1	0.261249424	1.46E-09	7.65E-09	520	517
ZNF880	0.261156114	1.48E-09	7.75E-09	520	519
GFPT1	0.261136965	1.49E-09	7.77E-09	520	520
ASAP2	0.261012197	1.52E-09	7.92E-09	520	520
NNAT	0.260998442	1.52E-09	7.93E-09	520	519
LRRTM2	0.260881105	1.55E-09	8.06E-09	520	510
CBX6	0.260849832	1.55E-09	8.10E-09	520	520
LOC100190939	0.260764495	1.57E-09	8.20E-09	520	520

RSF1	0.260712965	1.58E-09	8.26E-09	520	520
CXCL5	0.260676333	1.59E-09	8.30E-09	520	514
IGDCC3	0.260659362	1.60E-09	8.32E-09	520	355
LONP2	0.26065035	1.60E-09	8.32E-09	520	520
CCL7	0.260650335	1.60E-09	8.32E-09	520	490
NR3C1	0.260630544	1.60E-09	8.35E-09	520	520
LOC151534	0.260537236	1.63E-09	8.46E-09	520	520
RAB7L1	0.260519639	1.63E-09	8.48E-09	520	520
SELPLG	0.260488917	1.64E-09	8.51E-09	520	520
C2orf89	0.260459127	1.65E-09	8.55E-09	520	519
PSG5	0.260452372	1.65E-09	8.56E-09	520	397
LPGAT1	0.26044216	1.65E-09	8.57E-09	520	520
PPP1R9B	0.260384007	1.66E-09	8.64E-09	520	520
TECPR1	0.26028945	1.69E-09	8.76E-09	520	520
ANGEL1	0.260262604	1.69E-09	8.79E-09	520	520
NCRNA00052	0.260204681	1.71E-09	8.85E-09	520	258
HIPK4	0.260132271	1.73E-09	8.95E-09	520	495
EPOR	0.260027738	1.75E-09	9.08E-09	520	520
NFE2L1	0.259910098	1.78E-09	9.24E-09	520	520
SPEG	0.259819133	1.81E-09	9.36E-09	520	520
RAP2A	0.259798136	1.81E-09	9.39E-09	520	520
LRRN2	0.259763493	1.82E-09	9.43E-09	520	518
SHC1	0.259727578	1.83E-09	9.48E-09	520	520
C9orf30	0.25970718	1.84E-09	9.50E-09	520	520
FXYD1	0.259624456	1.86E-09	9.61E-09	520	520
SLC18A2	0.259563661	1.88E-09	9.70E-09	520	506
7-Sep	0.25953438	1.89E-09	9.73E-09	520	520
RGAG1	0.259513753	1.89E-09	9.76E-09	520	480
USP12	0.259512379	1.89E-09	9.76E-09	520	520
C14orf45	0.259490603	1.90E-09	9.79E-09	520	520
ZMAT3	0.259460023	1.91E-09	9.83E-09	520	520
KLHL34	0.259456582	1.91E-09	9.83E-09	520	367
ZBED1	0.259440178	1.91E-09	9.85E-09	520	520
FLII	0.259431556	1.92E-09	9.86E-09	520	520
STAT4	0.259375051	1.93E-09	9.94E-09	520	520
RNF216L	0.259361599	1.94E-09	9.96E-09	520	520
RGS11	0.259344917	1.94E-09	9.98E-09	520	519
MPRIP	0.259260459	1.96E-09	1.01E-08	520	520
GADD45B	0.259239274	1.97E-09	1.01E-08	520	520
KIAA1033	0.259207105	1.98E-09	1.02E-08	520	520
KRBA2	0.259200507	1.98E-09	1.02E-08	520	518
RET	0.259194703	1.98E-09	1.02E-08	520	520
RIN2	0.259192908	1.98E-09	1.02E-08	520	520
LRRRC39	0.259143166	2.00E-09	1.03E-08	520	501
PLDN	0.259029369	2.03E-09	1.04E-08	520	520
C2orf166	0.258909486	2.07E-09	1.06E-08	520	217

GLP2R	0.258884012	2.08E-09	1.06E-08	520	176
CC2D2A	0.258841272	2.09E-09	1.07E-08	520	520
DDN	0.258771243	2.11E-09	1.08E-08	520	520
IGFL3	0.258728068	2.12E-09	1.09E-08	520	435
PEX26	0.258716995	2.13E-09	1.09E-08	520	520
RGPD3	0.258683418	2.14E-09	1.09E-08	520	520
TMEM131	0.258405677	2.23E-09	1.14E-08	520	520
SORBS2	0.258382311	2.24E-09	1.14E-08	520	520
CCDC82	0.25826964	2.27E-09	1.16E-08	520	520
ARHGAP22	0.258202944	2.30E-09	1.17E-08	520	520
TRRAP	0.258168276	2.31E-09	1.17E-08	520	520
MUSTN1	0.258129602	2.32E-09	1.18E-08	520	520
SLC7A6	0.258121836	2.32E-09	1.18E-08	520	520
CBLN4	0.25802441	2.36E-09	1.20E-08	520	261
ABCC4	0.258010257	2.36E-09	1.20E-08	520	520
DFNA5	0.257999659	2.37E-09	1.20E-08	520	520
SEZ6L	0.25794688	2.38E-09	1.21E-08	520	382
FERMT3	0.257871069	2.41E-09	1.22E-08	520	520
SNURF	0.257869007	2.41E-09	1.22E-08	520	451
DMP1	0.257789115	2.44E-09	1.24E-08	520	424
IPW	0.257748899	2.45E-09	1.24E-08	520	519
C9orf44	0.257710212	2.47E-09	1.25E-08	520	320
MLL5	0.257636242	2.49E-09	1.26E-08	520	520
SMO	0.257546064	2.53E-09	1.28E-08	520	520
PCDHB16	0.257494537	2.55E-09	1.29E-08	520	520
SNX18	0.257481292	2.55E-09	1.29E-08	520	520
EIF5A2	0.257446411	2.57E-09	1.30E-08	520	520
TCEAL3	0.257318139	2.61E-09	1.32E-08	520	520
NBL1	0.257299831	2.62E-09	1.32E-08	520	520
FAM78A	0.257244807	2.64E-09	1.33E-08	520	520
ZCCHC11	0.257235863	2.65E-09	1.34E-08	520	520
TTC37	0.257207016	2.66E-09	1.34E-08	520	520
FAM7A3	0.257194393	2.66E-09	1.34E-08	520	456
BTN2A1	0.257104439	2.70E-09	1.36E-08	520	520
RGP1	0.257089103	2.70E-09	1.36E-08	520	520
CABIN1	0.257020846	2.73E-09	1.38E-08	520	520
TPCN1	0.256892	2.78E-09	1.40E-08	520	520
ADAMTS8	0.256877793	2.79E-09	1.40E-08	520	493
ADAM17	0.256821506	2.81E-09	1.42E-08	520	520
PHYH	0.256808756	2.82E-09	1.42E-08	520	520
REP15	0.256784999	2.83E-09	1.42E-08	520	520
LOC100130872	0.256758424	2.84E-09	1.43E-08	520	520
FRMPD4	0.256700048	2.86E-09	1.44E-08	520	352
TLR6	0.25661862	2.90E-09	1.45E-08	520	518
PDE4D	0.256612818	2.90E-09	1.46E-08	520	520
DIRAS3	0.256514728	2.94E-09	1.47E-08	520	519

TCEAL8	0.256486086	2.95E-09	1.48E-08	520	520
ZMYM4	0.256484239	2.95E-09	1.48E-08	520	520
MORF4	0.256461518	2.96E-09	1.48E-08	520	519
ASB15	0.256429332	2.98E-09	1.49E-08	520	234
MYO9A	0.256401473	2.99E-09	1.50E-08	520	520
LOC642852	0.256399305	2.99E-09	1.50E-08	520	520
PACS1	0.25639299	2.99E-09	1.50E-08	520	520
WDFY3	0.256383298	3.00E-09	1.50E-08	520	520
CCR3	0.256378836	3.00E-09	1.50E-08	520	461
EVI2B	0.256310712	3.03E-09	1.51E-08	520	520
LIFR	0.256304098	3.03E-09	1.51E-08	520	520
LOC653786	0.256269855	3.05E-09	1.52E-08	520	463
FAM38A	0.256224495	3.07E-09	1.53E-08	520	520
TNNC2	0.256145118	3.10E-09	1.55E-08	520	512
ZFAND3	0.256047839	3.15E-09	1.57E-08	520	520
OPN1SW	0.256027181	3.16E-09	1.57E-08	520	438
SFTA1P	0.255973326	3.18E-09	1.59E-08	520	486
PLEK	0.25582451	3.25E-09	1.62E-08	520	520
BBX	0.255821215	3.25E-09	1.62E-08	520	520
ZBTB4	0.255647513	3.34E-09	1.66E-08	520	520
PNMAL2	0.255645076	3.34E-09	1.66E-08	520	520
PRLR	0.255579757	3.37E-09	1.68E-08	520	512
ZNF627	0.255573269	3.37E-09	1.68E-08	520	520
PLAGL1	0.25554795	3.38E-09	1.68E-08	520	520
TNFAIP3	0.255492707	3.41E-09	1.69E-08	520	520
RAB20	0.255395523	3.46E-09	1.72E-08	520	520
LOC100192378	0.255201642	3.56E-09	1.77E-08	520	295
CAMK4	0.255166675	3.58E-09	1.77E-08	520	513
SCMH1	0.255105005	3.61E-09	1.79E-08	520	520
POTEF	0.255021265	3.65E-09	1.81E-08	520	520
ATP1B2	0.254767102	3.79E-09	1.88E-08	520	514
ZDHHC7	0.254756113	3.80E-09	1.88E-08	520	520
DHX33	0.254738869	3.81E-09	1.88E-08	520	520
BAALC	0.254597133	3.88E-09	1.92E-08	520	520
BOD1L	0.254583753	3.89E-09	1.92E-08	520	520
TSPYL3	0.254516641	3.93E-09	1.94E-08	520	497
LOC100130331	0.254514215	3.93E-09	1.94E-08	520	519
UNC5B	0.254482659	3.95E-09	1.95E-08	520	520
SPTB	0.254403644	3.99E-09	1.97E-08	520	520
SNX25	0.254366325	4.02E-09	1.98E-08	520	520
SORL1	0.254338819	4.03E-09	1.99E-08	520	520
ACO1	0.254314887	4.05E-09	1.99E-08	520	520
EGFR	0.254250481	4.08E-09	2.01E-08	520	520
PYGM	0.254206937	4.11E-09	2.02E-08	520	516
SLC4A3	0.254176831	4.13E-09	2.03E-08	520	520
RANBP3L	0.254059955	4.20E-09	2.06E-08	520	306

MDGA1	0.254017747	4.22E-09	2.08E-08	520	520
RPSAP52	0.253865536	4.32E-09	2.12E-08	520	510
STT3B	0.253838293	4.33E-09	2.13E-08	520	520
ARL2BP	0.253808273	4.35E-09	2.14E-08	520	520
ACTR2	0.253803807	4.36E-09	2.14E-08	520	520
CKMT2	0.253700018	4.42E-09	2.17E-08	520	452
GAB3	0.253662143	4.45E-09	2.18E-08	520	520
DYNC1LI2	0.25356167	4.51E-09	2.21E-08	520	520
ACTB	0.253547801	4.52E-09	2.21E-08	520	520
ZPLD1	0.253430037	4.60E-09	2.25E-08	520	445
KCNK13	0.253401317	4.62E-09	2.26E-08	520	520
GMPR	0.25315877	4.78E-09	2.34E-08	520	520
C22orf26	0.252999756	4.89E-09	2.39E-08	520	519
SERP2	0.252989035	4.90E-09	2.39E-08	520	510
MBNL2	0.252976774	4.91E-09	2.39E-08	520	520
HS1BP3	0.252947151	4.93E-09	2.40E-08	520	520
ZNF445	0.252909583	4.95E-09	2.42E-08	520	520
GALC	0.252827835	5.01E-09	2.44E-08	520	520
RGN	0.252608744	5.17E-09	2.52E-08	520	507
CRISPLD1	0.252580449	5.19E-09	2.53E-08	520	520
ACP2	0.25253694	5.23E-09	2.55E-08	520	520
SF3A1	0.25231532	5.40E-09	2.62E-08	520	520
GCNT1	0.252293256	5.41E-09	2.63E-08	520	520
MYO5A	0.252114355	5.55E-09	2.70E-08	520	520
PSD2	0.252082914	5.58E-09	2.71E-08	520	455
MC1R	0.252072841	5.59E-09	2.71E-08	520	520
SPSB4	0.252023807	5.63E-09	2.73E-08	520	511
PEBP4	0.251984982	5.66E-09	2.74E-08	520	379
ELK1	0.251979516	5.66E-09	2.75E-08	520	520
MGC42105	0.25192188	5.71E-09	2.77E-08	520	518
GDF5	0.251918975	5.71E-09	2.77E-08	520	460
MYO1F	0.251876316	5.75E-09	2.78E-08	520	520
GPR182	0.251867436	5.75E-09	2.79E-08	520	422
RGMB	0.251843716	5.77E-09	2.79E-08	520	520
MAN1A2	0.251706507	5.89E-09	2.85E-08	520	520
TRDMT1	0.251701805	5.89E-09	2.85E-08	520	520
PAPPA2	0.251690143	5.90E-09	2.85E-08	520	410
ANO1	0.251630569	5.95E-09	2.87E-08	520	520
NRIP1	0.251587813	5.99E-09	2.89E-08	520	520
LOC283267	0.251567099	6.01E-09	2.90E-08	520	520
CRTAC1	0.251511819	6.05E-09	2.92E-08	520	514
EPHA5	0.25145179	6.11E-09	2.94E-08	520	293
TBC1D9	0.251344678	6.20E-09	2.99E-08	520	520
THRA	0.251248725	6.28E-09	3.03E-08	520	520
LOC90586	0.251245594	6.29E-09	3.03E-08	520	308
TNRC18	0.251209038	6.32E-09	3.04E-08	520	520

SLC39A1	0.251066624	6.45E-09	3.10E-08	520	520
LRRN3	0.25081074	6.69E-09	3.21E-08	520	519
CRY1	0.250766313	6.73E-09	3.23E-08	520	520
ZSCAN20	0.250762272	6.74E-09	3.23E-08	520	520
C7orf41	0.250637177	6.86E-09	3.29E-08	520	520
HDGFRP3	0.250601068	6.89E-09	3.30E-08	520	520
RHBDD1	0.250522962	6.97E-09	3.34E-08	520	520
STAT5B	0.250399417	7.09E-09	3.39E-08	520	520
LZTR1	0.250308224	7.19E-09	3.43E-08	520	520
PABPC4L	0.250281454	7.21E-09	3.45E-08	520	514
PHF20	0.250255041	7.24E-09	3.46E-08	520	520
PRPF8	0.250188299	7.31E-09	3.49E-08	520	520
FTH1	0.250150736	7.35E-09	3.51E-08	520	520
HOXB2	0.250080373	7.42E-09	3.54E-08	520	520
SLC25A24	0.250056871	7.45E-09	3.55E-08	520	520
LRCH3	0.249954595	7.56E-09	3.60E-08	520	520
FAM174B	0.249939194	7.57E-09	3.61E-08	520	520
LONRF3	0.249829502	7.69E-09	3.66E-08	520	514
BATF3	0.249816405	7.70E-09	3.67E-08	520	520
TMEM184C	0.249777062	7.75E-09	3.69E-08	520	520
TBC1D24	0.249713762	7.82E-09	3.72E-08	520	520
SH2D3C	0.249683046	7.85E-09	3.73E-08	520	520
SCN9A	0.249677703	7.86E-09	3.74E-08	520	518
TRIM67	0.249666447	7.87E-09	3.74E-08	520	465
REEP3	0.249582387	7.96E-09	3.78E-08	520	520
YPEL2	0.24933948	8.24E-09	3.91E-08	520	520
FAT1	0.249313746	8.27E-09	3.92E-08	520	520
TMED7	0.249197293	8.41E-09	3.99E-08	520	520
USPL1	0.249174584	8.44E-09	4.00E-08	520	520
RASA4	0.249113685	8.51E-09	4.03E-08	520	520
PDXDC1	0.249113319	8.51E-09	4.03E-08	520	520
YTHDF3	0.249099759	8.53E-09	4.04E-08	520	520
CLEC1A	0.249074238	8.56E-09	4.05E-08	520	520
SLITRK6	0.249058808	8.58E-09	4.06E-08	520	515
HSP90AB2P	0.248960516	8.70E-09	4.11E-08	520	520
USP9X	0.248930576	8.73E-09	4.13E-08	520	520
ARHGAP24	0.248844871	8.84E-09	4.18E-08	520	519
SEMA6C	0.24876958	8.93E-09	4.22E-08	520	520
YWHAG	0.248741656	8.97E-09	4.24E-08	520	520
CD109	0.248741449	8.97E-09	4.24E-08	520	520
FOXJ2	0.248704439	9.02E-09	4.26E-08	520	520
CAMSAP1L1	0.248679333	9.05E-09	4.27E-08	520	520
GRINA	0.248397075	9.42E-09	4.44E-08	520	520
GRINL1A	0.248331951	9.50E-09	4.48E-08	520	520
DLEU7	0.248320877	9.52E-09	4.48E-08	520	498
PELO	0.248252041	9.61E-09	4.52E-08	520	520

PIK3CD	0.248169111	9.72E-09	4.57E-08	520	520
GALNTL1	0.248064947	9.87E-09	4.64E-08	520	515
PPM1K	0.248006786	9.95E-09	4.68E-08	520	520
PPAP2A	0.247974929	9.99E-09	4.70E-08	520	520
LRRC59	0.247951503	1.00E-08	4.71E-08	520	520
LRRC29	0.247927775	1.01E-08	4.72E-08	520	520
ST5	0.247893448	1.01E-08	4.74E-08	520	520
TNFRSF1B	0.24786342	1.02E-08	4.76E-08	520	520
PSD3	0.247833946	1.02E-08	4.78E-08	520	520
OLFML2A	0.247764423	1.03E-08	4.83E-08	520	520
TCF21	0.247701915	1.04E-08	4.87E-08	520	307
SYTL4	0.247700496	1.04E-08	4.87E-08	520	520
UBFD1	0.247656927	1.05E-08	4.89E-08	520	520
FZD8	0.247636264	1.05E-08	4.91E-08	520	519
ZNF781	0.247599163	1.05E-08	4.93E-08	520	500
ZNF284	0.247587134	1.06E-08	4.94E-08	520	517
CHRNB1	0.247535534	1.06E-08	4.97E-08	520	520
STXBP1	0.247525093	1.06E-08	4.98E-08	520	520
APOC1	0.247495856	1.07E-08	5.00E-08	520	520
FAM63B	0.247472761	1.07E-08	5.01E-08	520	520
TFPI2	0.247443814	1.08E-08	5.03E-08	520	515
C2orf27A	0.2473488	1.09E-08	5.10E-08	520	520
PGBD1	0.24726423	1.10E-08	5.16E-08	520	520
RGPD4	0.247037969	1.14E-08	5.31E-08	520	520
PAQR8	0.24701369	1.14E-08	5.33E-08	520	520
DBC1	0.246958504	1.15E-08	5.37E-08	520	475
MSMP	0.246879033	1.17E-08	5.42E-08	520	519
C9orf102	0.246840208	1.17E-08	5.45E-08	520	520
COG5	0.246737825	1.19E-08	5.53E-08	520	520
LOC654342	0.246708779	1.19E-08	5.55E-08	520	520
CCR2	0.246680572	1.20E-08	5.57E-08	520	518
PHOSPHO1	0.246677683	1.20E-08	5.57E-08	520	516
GPR68	0.24667039	1.20E-08	5.57E-08	520	520
NOTUM	0.246606783	1.21E-08	5.62E-08	520	519
C1orf162	0.246517698	1.23E-08	5.69E-08	520	520
C13orf31	0.24637221	1.25E-08	5.80E-08	520	520
C6orf186	0.246314861	1.26E-08	5.84E-08	520	387
JDP2	0.246241913	1.27E-08	5.90E-08	520	520
ZNF331	0.246223964	1.28E-08	5.92E-08	520	520
RICH2	0.246181866	1.28E-08	5.95E-08	520	520
CARD8	0.246128353	1.29E-08	5.99E-08	520	520
CTSS	0.246078968	1.30E-08	6.03E-08	520	520
ITPR2	0.246044442	1.31E-08	6.06E-08	520	520
MPZL1	0.245995959	1.32E-08	6.10E-08	520	520
SLC4A7	0.245905838	1.34E-08	6.17E-08	520	520
MAB21L2	0.245864944	1.34E-08	6.20E-08	520	369

ASGR1	0.245862277	1.34E-08	6.20E-08	520	520
TSHZ2	0.245855167	1.34E-08	6.20E-08	520	520
CXCR4	0.24583455	1.35E-08	6.22E-08	520	520
GPR65	0.245797281	1.36E-08	6.25E-08	520	520
GGCX	0.245793485	1.36E-08	6.25E-08	520	520
SLC39A7	0.24573639	1.37E-08	6.30E-08	520	520
TMED2	0.245702205	1.37E-08	6.32E-08	520	520
PKDCC	0.245595607	1.39E-08	6.41E-08	520	517
ZSCAN23	0.245439565	1.42E-08	6.55E-08	520	468
RRAS	0.245278406	1.46E-08	6.69E-08	520	520
NPBWR1	0.245169456	1.48E-08	6.78E-08	520	453
CRB1	0.244904652	1.53E-08	7.03E-08	520	351
SPOCK3	0.2448758	1.54E-08	7.06E-08	520	460
FKBP1AP1	0.244872283	1.54E-08	7.06E-08	520	519
UBL3	0.244799848	1.56E-08	7.13E-08	520	520
PAEP	0.244762329	1.57E-08	7.17E-08	520	476
GULP1	0.244758354	1.57E-08	7.17E-08	520	519
YY2	0.244645968	1.59E-08	7.28E-08	520	512
MAPK8	0.244632414	1.59E-08	7.29E-08	520	519
C10orf107	0.244560131	1.61E-08	7.36E-08	520	380
AMMECR1L	0.244513766	1.62E-08	7.40E-08	520	520
RAMP2	0.244457984	1.63E-08	7.46E-08	520	520
WNK1	0.244409094	1.64E-08	7.50E-08	520	520
ARMC2	0.244378368	1.65E-08	7.54E-08	520	520
CADPS2	0.244234007	1.68E-08	7.69E-08	520	520
TACC1	0.244189455	1.69E-08	7.73E-08	520	520
FAM106C	0.244160488	1.70E-08	7.76E-08	520	441
KCNG1	0.244108359	1.71E-08	7.81E-08	520	518
CTSF	0.244063517	1.72E-08	7.86E-08	520	520
ZNF362	0.243932762	1.76E-08	8.00E-08	520	520
GFRA2	0.243905261	1.76E-08	8.03E-08	520	519
ATF7IP	0.243841543	1.78E-08	8.09E-08	520	520
DNASE1L1	0.24382076	1.78E-08	8.12E-08	520	520
FAM91A1	0.243760471	1.80E-08	8.18E-08	520	520
NOVA1	0.243748676	1.80E-08	8.19E-08	520	510
NEK9	0.243704927	1.81E-08	8.24E-08	520	520
NOS3	0.24364254	1.83E-08	8.31E-08	520	520
TMEM65	0.243636043	1.83E-08	8.31E-08	520	520
GNAS	0.243569894	1.85E-08	8.38E-08	520	520
TCEAL6	0.243567462	1.85E-08	8.39E-08	520	519
TMEM90A	0.2435587	1.85E-08	8.39E-08	520	420
CCDC144C	0.24353324	1.86E-08	8.42E-08	520	398
RAMP1	0.243512534	1.86E-08	8.44E-08	520	520
PLEKHA9	0.243490036	1.87E-08	8.47E-08	520	520
LOC645431	0.243416466	1.89E-08	8.55E-08	520	516
DIRC3	0.243373587	1.90E-08	8.60E-08	520	515

TNFSF13	0.243354913	1.90E-08	8.62E-08	520	520
C8orf46	0.24332166	1.91E-08	8.66E-08	520	465
ITIH4	0.243253014	1.93E-08	8.74E-08	520	520
RGL1	0.243232023	1.93E-08	8.76E-08	520	520
SIGLEC14	0.243146451	1.96E-08	8.86E-08	520	502
KIAA0947	0.243115395	1.97E-08	8.90E-08	520	520
RIF1	0.243101804	1.97E-08	8.91E-08	520	520
HAPLN1	0.243070051	1.98E-08	8.95E-08	520	519
GAB2	0.243056778	1.98E-08	8.96E-08	520	520
C9orf170	0.242958317	2.01E-08	9.07E-08	520	424
R3HDML	0.242870254	2.03E-08	9.18E-08	520	81
VDR	0.242849884	2.04E-08	9.21E-08	520	520
TSKU	0.242659322	2.09E-08	9.44E-08	520	520
APBB1IP	0.242637782	2.10E-08	9.47E-08	520	520
CYP19A1	0.242612889	2.11E-08	9.50E-08	520	516
RAB3B	0.242451232	2.15E-08	9.70E-08	520	484
IPO5	0.242388823	2.17E-08	9.77E-08	520	520
KISS1	0.242383049	2.17E-08	9.78E-08	520	365
C6orf120	0.242379989	2.17E-08	9.78E-08	520	520
ZNF225	0.242286351	2.20E-08	9.90E-08	520	520
ANKRD53	0.242213452	2.23E-08	9.99E-08	520	513
NPTN	0.242171625	2.24E-08	1.00E-07	520	520
PLEKHA5	0.242087141	2.26E-08	1.02E-07	520	520
SRGAP1	0.242010061	2.29E-08	1.03E-07	520	520
ULK2	0.241973637	2.30E-08	1.03E-07	520	520
DPP8	0.241936619	2.31E-08	1.03E-07	520	520
ST8SIA5	0.241851264	2.34E-08	1.05E-07	520	470
RERG	0.241804174	2.35E-08	1.05E-07	520	515
PCDHB10	0.241684521	2.39E-08	1.07E-07	520	519
FEZ2	0.241666749	2.40E-08	1.07E-07	520	520
CD28	0.241601312	2.42E-08	1.08E-07	520	519
TMOD4	0.241592866	2.42E-08	1.08E-07	520	484
ZNF358	0.241591895	2.42E-08	1.08E-07	520	520
ZNF134	0.241552742	2.44E-08	1.09E-07	520	520
KIAA1715	0.241481934	2.46E-08	1.10E-07	520	520
GRM4	0.24147433	2.46E-08	1.10E-07	520	498
ENDOD1	0.241405815	2.49E-08	1.11E-07	520	520
FYB	0.241348033	2.50E-08	1.12E-07	520	520
TTC33	0.241311147	2.52E-08	1.12E-07	520	520
CCKAR	0.241282276	2.53E-08	1.12E-07	520	315
JPH4	0.241191097	2.56E-08	1.14E-07	520	513
VASN	0.241186259	2.56E-08	1.14E-07	520	520
NOTCH2	0.241151213	2.57E-08	1.14E-07	520	520
P2RX6	0.241118956	2.58E-08	1.15E-07	520	519
AFF4	0.240984964	2.63E-08	1.17E-07	520	520
CASQ1	0.240917492	2.66E-08	1.18E-07	520	498

ZCCHC12	0.24088679	2.67E-08	1.18E-07	520	486
MGAT4A	0.240733543	2.72E-08	1.21E-07	520	520
TNFRSF11B	0.24070123	2.74E-08	1.21E-07	520	515
NCSTN	0.240650683	2.75E-08	1.22E-07	520	520
SIPA1L1	0.240463193	2.83E-08	1.25E-07	520	520
KRTAP1-5	0.240403959	2.85E-08	1.26E-07	520	377
OSTCL	0.240389506	2.85E-08	1.26E-07	520	520
ADAMDEC1	0.240376079	2.86E-08	1.27E-07	520	516
SLC2A5	0.240265622	2.90E-08	1.28E-07	520	520
NRIP2	0.240215503	2.92E-08	1.29E-07	520	518
KIF21B	0.240213714	2.92E-08	1.29E-07	520	520
PXN	0.240161244	2.94E-08	1.30E-07	520	520
CNTNAP3	0.240157818	2.95E-08	1.30E-07	520	519
IGFL2	0.240036587	3.00E-08	1.32E-07	520	515
ASXL2	0.240031919	3.00E-08	1.32E-07	520	520
PLXNA1	0.239945203	3.03E-08	1.34E-07	520	520
ROBO1	0.239917078	3.04E-08	1.34E-07	520	520
MAPT	0.239870936	3.06E-08	1.35E-07	520	520
PIK3AP1	0.239847367	3.07E-08	1.35E-07	520	520
GPR135	0.239785463	3.10E-08	1.36E-07	520	517
TMEM170B	0.239765265	3.11E-08	1.37E-07	520	520
SEC63	0.239692757	3.14E-08	1.38E-07	520	520
MICAL3	0.239686552	3.14E-08	1.38E-07	520	520
GBE1	0.239619399	3.17E-08	1.39E-07	520	520
NDST1	0.239608869	3.17E-08	1.39E-07	520	520
LITAF	0.239515407	3.21E-08	1.41E-07	520	520
PTPN11	0.239514256	3.22E-08	1.41E-07	520	520
RSPH9	0.239427014	3.25E-08	1.43E-07	520	496
FMN2	0.239363206	3.28E-08	1.44E-07	520	407
PAPLN	0.23934832	3.29E-08	1.44E-07	520	520
TMEM127	0.239338803	3.29E-08	1.44E-07	520	520
MAPK4	0.239323757	3.30E-08	1.45E-07	520	467
LASS6	0.239232586	3.34E-08	1.46E-07	520	520
MLL	0.239094581	3.40E-08	1.49E-07	520	520
GDF10	0.239073871	3.41E-08	1.49E-07	520	478
DOCK5	0.239018102	3.44E-08	1.50E-07	520	520
PTPLAD2	0.238916519	3.49E-08	1.52E-07	520	520
C1QA	0.238881435	3.50E-08	1.53E-07	520	520
FAM149B1	0.238776334	3.55E-08	1.55E-07	520	520
MPEG1	0.238755414	3.56E-08	1.55E-07	520	520
MTUS2	0.238735262	3.57E-08	1.56E-07	520	505
MAGEE2	0.238728846	3.58E-08	1.56E-07	520	197
SPATA9	0.238641107	3.62E-08	1.58E-07	520	499
GABRD	0.238595959	3.64E-08	1.59E-07	520	517
ATRX	0.23859157	3.64E-08	1.59E-07	520	520
FAM167B	0.238583597	3.65E-08	1.59E-07	520	520

PCDHGC5	0.238572845	3.65E-08	1.59E-07	520	506
SYT16	0.238563995	3.66E-08	1.59E-07	520	382
SAMSN1	0.238436549	3.72E-08	1.62E-07	520	520
TECPR2	0.238375416	3.75E-08	1.63E-07	520	520
PDS5B	0.238361898	3.76E-08	1.63E-07	520	520
KLC2	0.238275872	3.80E-08	1.65E-07	520	520
ME2	0.238150757	3.87E-08	1.68E-07	520	520
ULBP3	0.238044287	3.92E-08	1.70E-07	520	520
SCCPDH	0.238032097	3.93E-08	1.71E-07	520	520
PBXIP1	0.237947003	3.97E-08	1.72E-07	520	520
SLC2A11	0.237904707	4.00E-08	1.73E-07	520	520
NINJ2	0.237837792	4.03E-08	1.75E-07	520	520
HMGCLL1	0.237792743	4.06E-08	1.76E-07	520	292
COL2A1	0.237732054	4.09E-08	1.77E-07	520	513
ABRA	0.237701183	4.11E-08	1.78E-07	520	372
PORCN	0.237597321	4.16E-08	1.80E-07	520	520
OTOA	0.237555007	4.19E-08	1.81E-07	520	508
MYADML2	0.237506245	4.22E-08	1.82E-07	520	431
EDEM3	0.237477785	4.23E-08	1.83E-07	520	520
ZNF175	0.237436062	4.26E-08	1.84E-07	520	519
ZNF623	0.237317367	4.32E-08	1.87E-07	520	520
LOC151162	0.237275711	4.35E-08	1.88E-07	520	520
UGT2B4	0.23726171	4.36E-08	1.88E-07	520	140
PCDH7	0.237230008	4.37E-08	1.89E-07	520	520
SLC16A3	0.237193322	4.40E-08	1.90E-07	520	520
ATP8B3	0.237150247	4.42E-08	1.91E-07	520	520
C10orf114	0.23714922	4.42E-08	1.91E-07	520	520
SAMD11	0.237136675	4.43E-08	1.91E-07	520	519
GOLGA5	0.237105086	4.45E-08	1.92E-07	520	520
MSI1	0.236959029	4.54E-08	1.95E-07	520	511
PKIA	0.236943251	4.55E-08	1.96E-07	520	520
DYNC111	0.236934281	4.55E-08	1.96E-07	520	517
C20orf26	0.2368821	4.58E-08	1.97E-07	520	503
B3GNT1	0.236874996	4.59E-08	1.97E-07	520	520
PLEKHA3	0.23680537	4.63E-08	1.99E-07	520	520
SP7	0.23680089	4.63E-08	1.99E-07	520	312
ARX	0.236638088	4.74E-08	2.03E-07	520	415
TRAF5	0.236568856	4.78E-08	2.05E-07	520	520
PTPN12	0.236458041	4.85E-08	2.08E-07	520	520
CD44	0.236385897	4.90E-08	2.10E-07	520	520
LOC389333	0.236232676	5.00E-08	2.14E-07	520	520
KCNIP1	0.23614864	5.06E-08	2.17E-07	520	379
LRP6	0.236107666	5.08E-08	2.18E-07	520	520
DUSP6	0.235907292	5.22E-08	2.23E-07	520	520
RAB32	0.235765851	5.32E-08	2.27E-07	520	520
ZNF702P	0.23573931	5.34E-08	2.28E-07	520	512

CCNT1	0.235727507	5.35E-08	2.28E-07	520	519
CACNA1E	0.235636443	5.41E-08	2.31E-07	520	490
SNAPC2	0.235553532	5.47E-08	2.33E-07	520	520
DNAJB5	0.235529727	5.49E-08	2.34E-07	520	520
PRKAR2A	0.235507202	5.51E-08	2.34E-07	520	520
KCNJ15	0.235465661	5.54E-08	2.36E-07	520	520
FAM120B	0.235448705	5.55E-08	2.36E-07	520	520
DCTN1	0.235416725	5.57E-08	2.37E-07	520	520
LOC100128164	0.235367725	5.61E-08	2.38E-07	520	448
C16orf58	0.23527914	5.68E-08	2.41E-07	520	520
CCRN4L	0.235236697	5.71E-08	2.42E-07	520	520
PFKFB3	0.235218493	5.72E-08	2.43E-07	520	520
FADS1	0.235141896	5.78E-08	2.45E-07	520	520
HECTD2	0.234993147	5.90E-08	2.50E-07	520	519
ZDHHC20	0.234963467	5.92E-08	2.51E-07	520	520
COG1	0.23495338	5.93E-08	2.51E-07	520	520
ERC1	0.23490431	5.97E-08	2.53E-07	520	520
C9orf129	0.23465694	6.17E-08	2.61E-07	520	518
GPR45	0.234634886	6.18E-08	2.62E-07	520	274
CECR1	0.234498841	6.30E-08	2.66E-07	520	520
RAB9B	0.234468536	6.32E-08	2.67E-07	520	444
ATXN2	0.234201127	6.55E-08	2.77E-07	520	520
SNRPN	0.234189573	6.56E-08	2.77E-07	520	520
FBXO40	0.234139271	6.60E-08	2.79E-07	520	352
SAV1	0.234119111	6.62E-08	2.79E-07	520	520
KLHDC10	0.234113987	6.63E-08	2.80E-07	520	520
GFRA1	0.234092223	6.65E-08	2.80E-07	520	517
ZNF34	0.23402963	6.70E-08	2.83E-07	520	520
RNF182	0.234022317	6.71E-08	2.83E-07	520	517
OSTC	0.233933713	6.79E-08	2.86E-07	520	520
EP300	0.23390826	6.81E-08	2.87E-07	520	520
TOR1AIP2	0.233792487	6.91E-08	2.91E-07	520	520
CEP290	0.233704977	6.99E-08	2.94E-07	520	519
TMEM110	0.233660073	7.04E-08	2.96E-07	520	520
SLC22A15	0.233540923	7.15E-08	3.01E-07	520	520
PRKDC	0.233539341	7.15E-08	3.01E-07	520	520
ANXA13	0.233510356	7.18E-08	3.02E-07	520	465
DNAH5	0.233462124	7.22E-08	3.03E-07	520	520
CHRNA9	0.233440037	7.24E-08	3.04E-07	520	463
IL4I1	0.233324037	7.36E-08	3.09E-07	520	520
BEND5	0.233273159	7.40E-08	3.11E-07	520	513
KCNK17	0.233270474	7.41E-08	3.11E-07	520	504
KLHL7	0.233168772	7.51E-08	3.15E-07	520	520
SEC24B	0.233143445	7.53E-08	3.16E-07	520	520
HEATR6	0.233098683	7.58E-08	3.17E-07	520	520
IMPG2	0.233030667	7.65E-08	3.20E-07	520	483

MACF1	0.232939663	7.74E-08	3.24E-07	520	520
NCF2	0.232923055	7.75E-08	3.24E-07	520	520
ATG2B	0.232896178	7.78E-08	3.25E-07	520	520
ZFR	0.232813096	7.87E-08	3.29E-07	520	520
KIFC3	0.232788026	7.89E-08	3.30E-07	520	520
ABCA8	0.232748506	7.93E-08	3.31E-07	520	504
CD97	0.232709945	7.97E-08	3.33E-07	520	520
FAM171A1	0.232661954	8.03E-08	3.35E-07	520	520
CSNK2A1P	0.232565185	8.13E-08	3.39E-07	520	520
LRRC3	0.232436468	8.27E-08	3.44E-07	520	520
TRIM36	0.232373225	8.34E-08	3.47E-07	520	520
C11orf70	0.232371283	8.34E-08	3.47E-07	520	518
STMN3	0.232189961	8.54E-08	3.55E-07	520	520
TPST2	0.232181122	8.55E-08	3.55E-07	520	520
CBARA1	0.232137358	8.60E-08	3.57E-07	520	520
MFAP3	0.232136041	8.60E-08	3.57E-07	520	520
CMTM8	0.232135738	8.60E-08	3.57E-07	520	519
SFRP5	0.232129193	8.61E-08	3.57E-07	520	384
FGL2	0.23211852	8.62E-08	3.58E-07	520	520
ART1	0.232110601	8.63E-08	3.58E-07	520	198
IL16	0.232081691	8.66E-08	3.59E-07	520	520
MED13L	0.232066662	8.68E-08	3.60E-07	520	520
TRANK1	0.231961946	8.80E-08	3.65E-07	520	520
SLITRK3	0.231862286	8.91E-08	3.69E-07	520	267
CCND1	0.231824742	8.96E-08	3.71E-07	520	520
ABCG2	0.231782873	9.01E-08	3.73E-07	520	519
MEPE	0.231755111	9.04E-08	3.74E-07	520	286
KDM5A	0.231701456	9.10E-08	3.77E-07	520	520
ACTN3	0.231656166	9.16E-08	3.79E-07	520	488
MEF2A	0.231551373	9.28E-08	3.84E-07	520	520
ASXL1	0.231486916	9.36E-08	3.87E-07	520	520
CAPN6	0.231210413	9.71E-08	4.00E-07	520	493
MAP3K4	0.231204822	9.71E-08	4.01E-07	520	520
DYNC112	0.231149574	9.78E-08	4.03E-07	520	520
SLC23A2	0.231110405	9.83E-08	4.05E-07	520	520
GGTA1	0.230970836	1.00E-07	4.12E-07	520	520
DRD4	0.230962259	1.00E-07	4.13E-07	520	513
KCNQ4	0.230907871	1.01E-07	4.16E-07	520	484
TMEM35	0.230898227	1.01E-07	4.16E-07	520	486
SLC26A2	0.230833678	1.02E-07	4.19E-07	520	520
PJA2	0.230824509	1.02E-07	4.20E-07	520	520
PARP8	0.230774846	1.03E-07	4.22E-07	520	520
SYT14	0.230768391	1.03E-07	4.23E-07	520	440
PTP4A3	0.230703535	1.04E-07	4.26E-07	520	520
BMPR1A	0.230655759	1.04E-07	4.28E-07	520	520
FAM70A	0.230605829	1.05E-07	4.31E-07	520	517

FAM126A	0.230466722	1.07E-07	4.38E-07	520	520
ZNF391	0.230447117	1.07E-07	4.39E-07	520	514
TYRP1	0.230429999	1.07E-07	4.40E-07	520	466
TNFSF14	0.230270847	1.10E-07	4.49E-07	520	498
KCNE3	0.23022845	1.10E-07	4.51E-07	520	520
CPEB1	0.230131416	1.12E-07	4.57E-07	520	484
TFE3	0.230115118	1.12E-07	4.58E-07	520	520
VPS37D	0.230107075	1.12E-07	4.58E-07	520	519
N4BP2	0.23006152	1.13E-07	4.61E-07	520	520
GOLT1B	0.229947497	1.14E-07	4.67E-07	520	520
ADPRHL1	0.229895551	1.15E-07	4.70E-07	520	520
QPRT	0.229890892	1.15E-07	4.70E-07	520	520
KCNIP3	0.229876515	1.15E-07	4.71E-07	520	520
ZC3HAV1L	0.229869959	1.16E-07	4.71E-07	520	520
CD151	0.229840777	1.16E-07	4.73E-07	520	520
BCHE	0.229792499	1.17E-07	4.75E-07	520	500
CAMK1	0.229791523	1.17E-07	4.75E-07	520	520
PTPRC	0.229709328	1.18E-07	4.80E-07	520	520
FREM2	0.229687866	1.18E-07	4.82E-07	520	474
LAT2	0.229630618	1.19E-07	4.85E-07	520	520
EVC2	0.229593848	1.20E-07	4.87E-07	520	519
FBXL2	0.229563591	1.20E-07	4.89E-07	520	520
SLC45A2	0.229554815	1.20E-07	4.89E-07	520	327
CANX	0.229450706	1.22E-07	4.96E-07	520	520
SYDE2	0.229418943	1.23E-07	4.98E-07	520	517
TPP2	0.229405553	1.23E-07	4.98E-07	520	520
TNNT3	0.229301019	1.24E-07	5.05E-07	520	516
EGR3	0.229231602	1.26E-07	5.09E-07	520	520
CLSTN3	0.229185668	1.26E-07	5.12E-07	520	520
CSF2	0.22911068	1.28E-07	5.17E-07	520	516
NOX5	0.229110534	1.28E-07	5.17E-07	520	507
CHST1	0.229041149	1.29E-07	5.21E-07	520	520
C15orf51	0.229023852	1.29E-07	5.22E-07	520	423
CHST12	0.229017261	1.29E-07	5.22E-07	520	520
LOC144571	0.228913592	1.31E-07	5.29E-07	520	520
ZNF792	0.228912366	1.31E-07	5.29E-07	520	519
FBXO10	0.228879901	1.31E-07	5.31E-07	520	520
ANG	0.228801686	1.33E-07	5.36E-07	520	520
KIAA1109	0.228709693	1.34E-07	5.43E-07	520	520
SOCS2	0.228673617	1.35E-07	5.45E-07	520	520
ZDHHHC15	0.228654851	1.35E-07	5.46E-07	520	497
RP2	0.228565169	1.37E-07	5.52E-07	520	520
SGPL1	0.228555986	1.37E-07	5.53E-07	520	520
TMEM39A	0.228531483	1.37E-07	5.54E-07	520	520
ZNF484	0.228483882	1.38E-07	5.58E-07	520	520
ZNF286A	0.228430101	1.39E-07	5.61E-07	520	520

KRT81	0.228424863	1.39E-07	5.62E-07	520	520
SIX4	0.228392526	1.40E-07	5.64E-07	520	520
KIAA1211	0.228282273	1.42E-07	5.72E-07	520	519
TTPAL	0.228273122	1.42E-07	5.72E-07	520	520
FTL	0.228184012	1.44E-07	5.79E-07	520	520
TCF7	0.228016844	1.47E-07	5.91E-07	520	520
NUDT4	0.22792997	1.48E-07	5.97E-07	520	520
MAGEE1	0.227903311	1.49E-07	5.99E-07	520	519
HIGD1B	0.227858526	1.50E-07	6.02E-07	520	520
CAPRIN1	0.227847904	1.50E-07	6.03E-07	520	520
KL	0.227822834	1.51E-07	6.05E-07	520	515
FAM161B	0.227801428	1.51E-07	6.06E-07	520	518
SIM1	0.227719533	1.53E-07	6.12E-07	520	259
SNTB2	0.227620447	1.55E-07	6.20E-07	520	520
SNAP23	0.227581307	1.55E-07	6.23E-07	520	520
BSN	0.227322009	1.61E-07	6.43E-07	520	515
INPP4A	0.227291354	1.61E-07	6.45E-07	520	520
WDFY4	0.227287501	1.61E-07	6.46E-07	520	520
TMEM92	0.227270881	1.62E-07	6.47E-07	520	520
KRTAP2-1	0.227259304	1.62E-07	6.48E-07	520	148
NBPF1	0.227249961	1.62E-07	6.48E-07	520	520
ZNF503	0.227221503	1.63E-07	6.50E-07	520	520
CD59	0.227198979	1.63E-07	6.52E-07	520	520
STEAP3	0.227021624	1.67E-07	6.67E-07	520	520
RPL13P5	0.227019893	1.67E-07	6.67E-07	520	519
ATP11C	0.227002352	1.67E-07	6.68E-07	520	520
VCPIP1	0.226973419	1.68E-07	6.71E-07	520	520
CKAP5	0.226962929	1.68E-07	6.71E-07	520	520
FSD1	0.226953397	1.68E-07	6.72E-07	520	520
ERCC2	0.226935693	1.69E-07	6.74E-07	520	520
ZCCHC18	0.22685848	1.70E-07	6.80E-07	520	504
EIF2C2	0.226760108	1.73E-07	6.88E-07	520	520
EID2B	0.2265601	1.77E-07	7.05E-07	520	520
AP2A1	0.226549441	1.77E-07	7.06E-07	520	520
MGAT4C	0.226528338	1.78E-07	7.08E-07	520	339
SUPT3H	0.226517168	1.78E-07	7.09E-07	520	520
APAF1	0.226496821	1.78E-07	7.10E-07	520	520
IPO7	0.226445938	1.80E-07	7.14E-07	520	520
HRCT1	0.226376214	1.81E-07	7.20E-07	520	512
SGMS2	0.226373774	1.81E-07	7.20E-07	520	520
CORO1C	0.226336012	1.82E-07	7.24E-07	520	520
ALKBH5	0.226334029	1.82E-07	7.24E-07	520	520
WDFY1	0.226247767	1.84E-07	7.31E-07	520	520
CD81	0.226247588	1.84E-07	7.31E-07	520	520
LDLRAD2	0.22624751	1.84E-07	7.31E-07	520	520
ADAM22	0.226146414	1.87E-07	7.40E-07	520	492

C1orf85	0.22600078	1.90E-07	7.53E-07	520	520
ABCC10	0.225931175	1.92E-07	7.59E-07	520	520
PIK3C2A	0.225776018	1.96E-07	7.73E-07	520	520
ZNF354C	0.225737413	1.97E-07	7.77E-07	520	505
POLR3A	0.225733623	1.97E-07	7.77E-07	520	520
PRR11	0.22564151	1.99E-07	7.86E-07	520	518
MMS19	0.225526472	2.02E-07	7.97E-07	520	520
CHST10	0.225475638	2.03E-07	8.02E-07	520	520
CYTH4	0.225438536	2.04E-07	8.05E-07	520	520
TAB2	0.22536217	2.06E-07	8.13E-07	520	520
CADM2	0.225337444	2.07E-07	8.15E-07	520	363
YWHAH	0.225296574	2.08E-07	8.19E-07	520	520
SPCS3	0.225093855	2.13E-07	8.40E-07	520	520
BIRC2	0.225088016	2.14E-07	8.40E-07	520	520
GOLGA3	0.225029707	2.15E-07	8.46E-07	520	520
LOC100302401	0.225022058	2.15E-07	8.47E-07	520	520
HOOK3	0.224916968	2.18E-07	8.58E-07	520	520
TICAM2	0.224874209	2.19E-07	8.62E-07	520	514
NPR1	0.224862202	2.20E-07	8.63E-07	520	520
SLC7A6OS	0.22481442	2.21E-07	8.67E-07	520	520
NUDT11	0.224786093	2.22E-07	8.70E-07	520	520
ZNF501	0.22471954	2.24E-07	8.77E-07	520	520
GDF3	0.2246696	2.25E-07	8.83E-07	520	425
PRTFDC1	0.224662389	2.25E-07	8.83E-07	520	520
TMEM182	0.224597646	2.27E-07	8.90E-07	520	520
DDO	0.224424548	2.32E-07	9.10E-07	520	509
KCNA10	0.224344855	2.35E-07	9.18E-07	520	145
PCDHGA1	0.224334467	2.35E-07	9.19E-07	520	513
CERKL	0.224288501	2.36E-07	9.24E-07	520	519
ADCY1	0.224244492	2.38E-07	9.29E-07	520	520
DNASE2B	0.224213688	2.39E-07	9.33E-07	520	308
ZNF737	0.224177785	2.40E-07	9.36E-07	520	518
SIAH1	0.224123101	2.41E-07	9.42E-07	520	520
PTPN1	0.224085252	2.42E-07	9.46E-07	520	520
CCDC40	0.224059657	2.43E-07	9.49E-07	520	518
SPIN1	0.224031318	2.44E-07	9.52E-07	520	520
PLP1	0.223953781	2.47E-07	9.60E-07	520	465
IL10RA	0.22390572	2.48E-07	9.65E-07	520	520
ACPT	0.223739269	2.53E-07	9.85E-07	520	256
TRIM23	0.223720894	2.54E-07	9.87E-07	520	520
ZNF239	0.223720574	2.54E-07	9.87E-07	520	518
TCN2	0.223636626	2.57E-07	9.97E-07	520	520
PTPLB	0.223625481	2.57E-07	9.98E-07	520	518
DAGLA	0.223549311	2.59E-07	1.01E-06	520	519
SEC62	0.223522861	2.60E-07	1.01E-06	520	520
DNAJB14	0.223315827	2.67E-07	1.04E-06	520	520

RABAC1	0.223192229	2.71E-07	1.05E-06	520	520
ZNF418	0.223122052	2.74E-07	1.06E-06	520	512
GABRB2	0.222952491	2.80E-07	1.08E-06	520	418
GRIK2	0.222949796	2.80E-07	1.08E-06	520	428
ATN1	0.222899397	2.82E-07	1.09E-06	520	520
TTL	0.222825117	2.84E-07	1.10E-06	520	520
SGK196	0.222814012	2.85E-07	1.10E-06	520	520
NPHP1	0.222750635	2.87E-07	1.11E-06	520	520
LOC647121	0.22261453	2.92E-07	1.13E-06	520	520
CHST6	0.222558164	2.94E-07	1.13E-06	520	520
AKT1	0.222557515	2.94E-07	1.13E-06	520	520
LRP3	0.222555319	2.94E-07	1.13E-06	520	520
ITM2A	0.222323789	3.03E-07	1.17E-06	520	520
WDR1	0.222282592	3.04E-07	1.17E-06	520	520
PRKAR2B	0.222268025	3.05E-07	1.17E-06	520	520
SV2B	0.222256566	3.05E-07	1.18E-06	520	511
C17orf87	0.222193752	3.08E-07	1.18E-06	520	508
CHD4	0.222181257	3.08E-07	1.19E-06	520	520
NFATC1	0.222134825	3.10E-07	1.19E-06	520	520
SLC35F2	0.222095172	3.11E-07	1.20E-06	520	520
CAPSL	0.222039037	3.14E-07	1.21E-06	520	316
KLK4	0.221964855	3.17E-07	1.22E-06	520	468
GAS2L3	0.221960294	3.17E-07	1.22E-06	520	510
CDC42EP5	0.221939624	3.18E-07	1.22E-06	520	520
C7orf60	0.221910706	3.19E-07	1.22E-06	520	520
AOAH	0.221876797	3.20E-07	1.23E-06	520	520
PPT1	0.221855746	3.21E-07	1.23E-06	520	520
ZNF665	0.221802309	3.23E-07	1.24E-06	520	491
BIRC6	0.221791247	3.23E-07	1.24E-06	520	520
ITGA2	0.22175503	3.25E-07	1.25E-06	520	520
GADL1	0.221586662	3.32E-07	1.27E-06	520	243
TNNI2	0.221585393	3.32E-07	1.27E-06	520	520
PCDHB8	0.221534839	3.34E-07	1.28E-06	520	518
AKAP10	0.221482413	3.36E-07	1.29E-06	520	520
KIAA1826	0.221452648	3.37E-07	1.29E-06	520	520
ERGIC1	0.221450837	3.38E-07	1.29E-06	520	520
ZFPM1	0.221439401	3.38E-07	1.29E-06	520	520
TMEM104	0.221359287	3.41E-07	1.31E-06	520	520
ZNF641	0.221328993	3.43E-07	1.31E-06	520	520
APCDD1	0.221294977	3.44E-07	1.32E-06	520	520
UEVLD	0.221235183	3.47E-07	1.33E-06	520	520
PCDHA10	0.221207552	3.48E-07	1.33E-06	520	292
CANT1	0.221158191	3.50E-07	1.34E-06	520	520
BCAR1	0.221127903	3.51E-07	1.34E-06	520	520
C2orf81	0.221119167	3.52E-07	1.34E-06	520	520
FLJ42875	0.221107516	3.52E-07	1.35E-06	520	467

CUEDC1	0.221079642	3.54E-07	1.35E-06	520	520
SLC36A4	0.221028144	3.56E-07	1.36E-06	520	520
CD164	0.220989646	3.58E-07	1.36E-06	520	520
PRDM11	0.220924391	3.60E-07	1.37E-06	520	519
LOC100132707	0.220862002	3.63E-07	1.38E-06	520	520
EHBP1	0.220859737	3.63E-07	1.38E-06	520	520
DPY19L4	0.220778284	3.67E-07	1.40E-06	520	520
PDIA6	0.220665948	3.72E-07	1.42E-06	520	520
CDH20	0.220653886	3.73E-07	1.42E-06	520	467
GALM	0.220651534	3.73E-07	1.42E-06	520	520
PRX	0.220632405	3.74E-07	1.42E-06	520	520
NBR1	0.220604873	3.75E-07	1.43E-06	520	520
NLGN4X	0.2204927	3.80E-07	1.45E-06	520	517
NME4	0.220445266	3.83E-07	1.45E-06	520	520
LBP	0.220407218	3.84E-07	1.46E-06	520	476
SLC30A6	0.220358144	3.87E-07	1.47E-06	520	520
C10orf108	0.220340315	3.88E-07	1.47E-06	520	337
SLC46A1	0.220336558	3.88E-07	1.47E-06	520	520
TMED4	0.220330684	3.88E-07	1.47E-06	520	520
ZNF417	0.220292079	3.90E-07	1.48E-06	520	520
JOSD1	0.220181714	3.95E-07	1.50E-06	520	520
SLC35C1	0.220090376	4.00E-07	1.51E-06	520	520
GSTT2	0.219989497	4.05E-07	1.53E-06	520	520
PIKFYVE	0.219926066	4.08E-07	1.54E-06	520	520
LOC644936	0.219733225	4.18E-07	1.58E-06	520	520
OSBPL10	0.219721354	4.19E-07	1.58E-06	520	520
TEX261	0.219693671	4.20E-07	1.59E-06	520	520
HELB	0.21968519	4.20E-07	1.59E-06	520	520
INTS4L1	0.219619255	4.24E-07	1.60E-06	520	515
SMURF1	0.219614237	4.24E-07	1.60E-06	520	520
ACOX2	0.219528806	4.29E-07	1.62E-06	520	518
CD83	0.219477275	4.31E-07	1.63E-06	520	520
C5orf42	0.219389134	4.36E-07	1.64E-06	520	520
LEPR	0.219355862	4.38E-07	1.65E-06	520	520
ALMS1	0.219153124	4.49E-07	1.69E-06	520	520
CARNS1	0.219121502	4.51E-07	1.70E-06	520	520
KDM6B	0.219102092	4.52E-07	1.70E-06	520	520
KCNE1L	0.218951639	4.60E-07	1.73E-06	520	510
LOC100130776	0.218930601	4.62E-07	1.73E-06	520	520
GZF1	0.218912814	4.63E-07	1.74E-06	520	520
LAMP2	0.218833192	4.67E-07	1.75E-06	520	520
ADAM9	0.218686554	4.76E-07	1.78E-06	520	520
TMEM87B	0.218640692	4.78E-07	1.79E-06	520	520
MET	0.218622614	4.79E-07	1.80E-06	520	520
POMGNT1	0.218490393	4.87E-07	1.82E-06	520	520
SLC38A6	0.218339132	4.96E-07	1.86E-06	520	520

CAD	0.218313419	4.98E-07	1.86E-06	520	520
AGPAT4	0.218296147	4.99E-07	1.87E-06	520	520
TUBB2B	0.218272721	5.00E-07	1.87E-06	520	519
PJA1	0.218259926	5.01E-07	1.87E-06	520	520
ECE1	0.218255907	5.02E-07	1.87E-06	520	520
SCUBE1	0.218151379	5.08E-07	1.90E-06	520	511
LAMP1	0.21810513	5.11E-07	1.91E-06	520	520
ICAM2	0.218097162	5.11E-07	1.91E-06	520	520
INTS4L2	0.21806887	5.13E-07	1.91E-06	520	511
NTRK3	0.218055182	5.14E-07	1.92E-06	520	468
NBEAL1	0.217865395	5.26E-07	1.96E-06	520	520
SPATA6	0.217746403	5.34E-07	1.99E-06	520	513
RIC8A	0.217683926	5.38E-07	2.00E-06	520	520
C8orf83	0.217604702	5.43E-07	2.02E-06	520	520
ZNF585B	0.217403575	5.57E-07	2.07E-06	520	519
GRIP1	0.217343965	5.61E-07	2.08E-06	520	520
LILRA5	0.217342734	5.61E-07	2.08E-06	520	519
NPPB	0.217277115	5.65E-07	2.10E-06	520	84
TCF7L1	0.217232153	5.69E-07	2.11E-06	520	520
CAMTA2	0.217120506	5.76E-07	2.14E-06	520	520
FAM163A	0.217080652	5.79E-07	2.15E-06	520	420
STK38L	0.217043523	5.82E-07	2.16E-06	520	520
PPP1R1A	0.217034718	5.83E-07	2.16E-06	520	438
WNT11	0.217032062	5.83E-07	2.16E-06	520	520
TTC21B	0.216976783	5.87E-07	2.17E-06	520	520
MMRN1	0.216842334	5.96E-07	2.20E-06	520	513
ENAM	0.216768224	6.02E-07	2.22E-06	520	279
ZFP57	0.216719913	6.05E-07	2.23E-06	520	475
ZNF843	0.216689049	6.08E-07	2.24E-06	520	516
HERC1	0.216639755	6.11E-07	2.25E-06	520	520
SUGT1P1	0.216556933	6.18E-07	2.28E-06	520	492
CAP1	0.216444967	6.26E-07	2.31E-06	520	520
ABLIM3	0.216404022	6.29E-07	2.32E-06	520	520
IL17B	0.216253761	6.41E-07	2.36E-06	520	450
RAP1A	0.216112057	6.52E-07	2.40E-06	520	520
DCAF12L2	0.216090921	6.54E-07	2.40E-06	520	320
PPP1R14A	0.216021652	6.59E-07	2.42E-06	520	520
STK4	0.215992248	6.61E-07	2.43E-06	520	520
ST3GAL6	0.215950977	6.65E-07	2.44E-06	520	520
SYT13	0.215882525	6.70E-07	2.46E-06	520	456
CCDC136	0.215789115	6.78E-07	2.49E-06	520	520
PVALB	0.215751699	6.81E-07	2.50E-06	520	447
HLA-DQA1	0.215716023	6.84E-07	2.51E-06	520	520
APOC2	0.215689514	6.86E-07	2.52E-06	520	520
CRELD1	0.215689398	6.86E-07	2.52E-06	520	520
KIAA1279	0.215685532	6.87E-07	2.52E-06	520	520

SYNJ2	0.215624391	6.92E-07	2.54E-06	520	520
RPS6KC1	0.215522133	7.00E-07	2.57E-06	520	520
PPP4R2	0.215436387	7.08E-07	2.59E-06	520	520
GPR56	0.215389921	7.12E-07	2.61E-06	520	520
BIRC7	0.215376491	7.13E-07	2.61E-06	520	446
CIC	0.2152685	7.22E-07	2.64E-06	520	520
ITGB6	0.21520778	7.28E-07	2.66E-06	520	520
C9orf25	0.215192783	7.29E-07	2.67E-06	520	520
TET1	0.215180186	7.30E-07	2.67E-06	520	520
FAM7A2	0.215113644	7.36E-07	2.69E-06	520	370
FAM167A	0.21507211	7.40E-07	2.70E-06	520	520
SYNC	0.215071299	7.40E-07	2.70E-06	520	520
C21orf82	0.215042429	7.42E-07	2.71E-06	520	514
CKAP4	0.21503464	7.43E-07	2.71E-06	520	520
SPATA20	0.214883697	7.57E-07	2.76E-06	520	520
SLC38A3	0.214848983	7.60E-07	2.77E-06	520	486
KIAA0408	0.214733226	7.71E-07	2.81E-06	520	183
PLEKHM3	0.214703733	7.73E-07	2.82E-06	520	520
SLC9A7	0.214699234	7.74E-07	2.82E-06	520	520
ZMYM3	0.214651104	7.78E-07	2.83E-06	520	520
F2RL1	0.214594327	7.84E-07	2.85E-06	520	520
FBXO30	0.214547817	7.88E-07	2.87E-06	520	520
LAMB3	0.214423361	8.00E-07	2.91E-06	520	520
ALX4	0.214414944	8.01E-07	2.91E-06	520	349
C4orf49	0.214414709	8.01E-07	2.91E-06	520	502
KIF5A	0.214371018	8.05E-07	2.93E-06	520	465
SMARCA5	0.214264914	8.15E-07	2.96E-06	520	520
P2RY14	0.214239778	8.18E-07	2.97E-06	520	515
AIDA	0.214224459	8.19E-07	2.98E-06	520	520
ZC3H12D	0.214201974	8.22E-07	2.98E-06	520	516
CECR6	0.214073844	8.35E-07	3.03E-06	520	520
C1QL4	0.214064909	8.35E-07	3.03E-06	520	477
RTTN	0.214012523	8.41E-07	3.05E-06	520	520
MARCKSL1	0.214011486	8.41E-07	3.05E-06	520	520
NHLRC3	0.213943255	8.48E-07	3.07E-06	520	520
KBTBD4	0.213917328	8.50E-07	3.08E-06	520	520
LRRC10B	0.213890883	8.53E-07	3.09E-06	520	514
GOSR2	0.213749092	8.68E-07	3.14E-06	520	520
DSTYK	0.213692167	8.74E-07	3.16E-06	520	520
TAL1	0.213613142	8.82E-07	3.19E-06	520	520
C4orf42	0.2136057	8.83E-07	3.19E-06	520	520
YLPM1	0.213516112	8.92E-07	3.22E-06	520	520
SLA	0.213450851	8.99E-07	3.25E-06	520	520
G3BP2	0.213405185	9.04E-07	3.27E-06	520	520
TBX18	0.2132253	9.24E-07	3.33E-06	520	518
M6PR	0.213202882	9.27E-07	3.34E-06	520	520

KBTBD7	0.213139612	9.34E-07	3.37E-06	520	520
PPM1H	0.212985486	9.51E-07	3.43E-06	520	520
PIWIL4	0.212941711	9.56E-07	3.44E-06	520	519
EPHB1	0.212886067	9.63E-07	3.47E-06	520	520
AMPD1	0.212845047	9.67E-07	3.48E-06	520	459
ZBTB2	0.212671305	9.88E-07	3.55E-06	520	520
ACOT2	0.21254019	1.00E-06	3.61E-06	520	520
AFAP1L1	0.212466479	1.01E-06	3.64E-06	520	520
ENTHD1	0.212455623	1.01E-06	3.64E-06	520	434
YAP1	0.21234254	1.03E-06	3.69E-06	520	520
CH25H	0.212341312	1.03E-06	3.69E-06	520	520
INSIG2	0.21223624	1.04E-06	3.73E-06	520	520
STRA6	0.212185596	1.05E-06	3.75E-06	520	520
CORO6	0.212146697	1.05E-06	3.77E-06	520	520
TMED5	0.212109191	1.06E-06	3.79E-06	520	520
BTN2A3	0.212080709	1.06E-06	3.80E-06	520	519
REV3L	0.212056125	1.06E-06	3.81E-06	520	520
ITGB1BP2	0.212005359	1.07E-06	3.83E-06	520	518
KLHL11	0.211973845	1.07E-06	3.84E-06	520	517
ODZ1	0.211926397	1.08E-06	3.86E-06	520	494
MYO1D	0.211910874	1.08E-06	3.87E-06	520	520
SRL	0.211883668	1.09E-06	3.88E-06	520	518
H2BFXP	0.211843516	1.09E-06	3.90E-06	520	450
TMEM132D	0.211794923	1.10E-06	3.92E-06	520	181
PPM1M	0.211790689	1.10E-06	3.92E-06	520	520
KIF13A	0.211777932	1.10E-06	3.93E-06	520	520
PHACTR2	0.211719217	1.11E-06	3.95E-06	520	520
AHNAK	0.21169658	1.11E-06	3.96E-06	520	520
STBD1	0.211660263	1.11E-06	3.98E-06	520	520
SLC24A4	0.211644488	1.12E-06	3.99E-06	520	504
ANK1	0.211618078	1.12E-06	4.00E-06	520	520
CCL23	0.211449026	1.14E-06	4.07E-06	520	469
FEZ1	0.211368662	1.15E-06	4.11E-06	520	520
SORCS1	0.211331495	1.16E-06	4.13E-06	520	435
MCC	0.2113078	1.16E-06	4.14E-06	520	520
KCTD20	0.211269799	1.17E-06	4.15E-06	520	520
PLSCR3	0.211221384	1.17E-06	4.18E-06	520	520
KCNAB1	0.211023231	1.20E-06	4.27E-06	520	519
C4orf38	0.2109868	1.21E-06	4.29E-06	520	515
KIAA1324L	0.210932395	1.22E-06	4.32E-06	520	520
MB	0.210907273	1.22E-06	4.33E-06	520	515
MSX2P1	0.210813525	1.23E-06	4.38E-06	520	409
USP22	0.210748311	1.24E-06	4.41E-06	520	520
ZNF234	0.210725767	1.25E-06	4.42E-06	520	520
ANKRD10	0.210539579	1.27E-06	4.52E-06	520	520
RNF121	0.210369888	1.30E-06	4.61E-06	520	520

TAC4	0.210349026	1.30E-06	4.62E-06	520	294
CLEC1B	0.210229776	1.32E-06	4.68E-06	520	151
SLC38A5	0.210151879	1.33E-06	4.72E-06	520	520
CCDC147	0.210084958	1.34E-06	4.76E-06	520	516
ZNF43	0.210064667	1.35E-06	4.77E-06	520	519
SLC35F5	0.210027546	1.35E-06	4.79E-06	520	520
NFAT5	0.209985466	1.36E-06	4.81E-06	520	520
RP1	0.209980457	1.36E-06	4.81E-06	520	482
CREG2	0.20997553	1.36E-06	4.81E-06	520	488
NCRNA00189	0.209910884	1.37E-06	4.85E-06	520	384
IGSF9B	0.209640668	1.42E-06	5.00E-06	520	499
FAM109B	0.209516919	1.44E-06	5.07E-06	520	520
HOXC5	0.209428763	1.45E-06	5.12E-06	520	510
TMSB15B	0.209423906	1.45E-06	5.12E-06	520	518
CCDC63	0.20942159	1.45E-06	5.12E-06	520	167
KCNS2	0.20940684	1.46E-06	5.13E-06	520	400
TTC26	0.20931737	1.47E-06	5.18E-06	520	520
MYLK3	0.209298423	1.47E-06	5.19E-06	520	511
HGSNAT	0.209274693	1.48E-06	5.20E-06	520	520
SLC12A8	0.209268574	1.48E-06	5.20E-06	520	520
RABEP1	0.209249138	1.48E-06	5.21E-06	520	520
TRAF6	0.209151438	1.50E-06	5.27E-06	520	520
SPPL2A	0.209118997	1.51E-06	5.29E-06	520	520
SNX14	0.209109037	1.51E-06	5.29E-06	520	520
LPCAT1	0.209080324	1.51E-06	5.31E-06	520	520
KPNA3	0.209007257	1.53E-06	5.35E-06	520	520
KBTBD2	0.208992661	1.53E-06	5.36E-06	520	520
LPPR2	0.208955256	1.54E-06	5.38E-06	520	520
IPMK	0.208916999	1.54E-06	5.41E-06	520	515
TAF1L	0.208885847	1.55E-06	5.43E-06	520	518
LYPD1	0.208838846	1.56E-06	5.45E-06	520	520
ERF	0.208825801	1.56E-06	5.46E-06	520	520
ASB11	0.208726177	1.58E-06	5.52E-06	520	163
TAF2	0.208693962	1.58E-06	5.54E-06	520	520
MAN1C1	0.20865543	1.59E-06	5.57E-06	520	520
PTCHD2	0.208646377	1.59E-06	5.57E-06	520	498
SPAG9	0.208595285	1.60E-06	5.60E-06	520	520
RBPJ	0.208564818	1.61E-06	5.62E-06	520	520
PPP1R3B	0.208547424	1.61E-06	5.63E-06	520	520
CD180	0.208478409	1.62E-06	5.67E-06	520	520
NIN	0.208414973	1.64E-06	5.71E-06	520	520
BTK	0.208414363	1.64E-06	5.71E-06	520	520
C2orf40	0.208407736	1.64E-06	5.72E-06	520	428
OSBP	0.208385546	1.64E-06	5.73E-06	520	520
GOLGA9P	0.208323894	1.65E-06	5.77E-06	520	270
QSOX1	0.20832144	1.65E-06	5.77E-06	520	520

SCYL1	0.208321263	1.65E-06	5.77E-06	520	520
IGFBP1	0.208319069	1.65E-06	5.77E-06	520	401
ATP6V1C1	0.208317923	1.65E-06	5.77E-06	520	520
MANEA	0.208284715	1.66E-06	5.79E-06	520	520
LOC441208	0.20819481	1.68E-06	5.85E-06	520	520
LFNG	0.208163946	1.68E-06	5.87E-06	520	520
SLCO1C1	0.208093583	1.70E-06	5.92E-06	520	464
CCDC50	0.208088334	1.70E-06	5.92E-06	520	520
CAPN11	0.20807049	1.70E-06	5.93E-06	520	510
GLI1	0.208067743	1.70E-06	5.93E-06	520	519
CDH19	0.20790873	1.74E-06	6.04E-06	520	386
TTC25	0.207877938	1.74E-06	6.06E-06	520	509
TREM2	0.207847663	1.75E-06	6.08E-06	520	520
GRM5	0.207831163	1.75E-06	6.09E-06	520	459
TM9SF1	0.207800401	1.76E-06	6.11E-06	520	520
SPANXN3	0.207789216	1.76E-06	6.12E-06	520	90
GRIN2A	0.207754899	1.77E-06	6.14E-06	520	490
BET3L	0.207707943	1.78E-06	6.17E-06	520	356
C10orf11	0.207573493	1.81E-06	6.27E-06	520	520
RFX3	0.207536132	1.81E-06	6.29E-06	520	518
TSPAN7	0.207529478	1.81E-06	6.30E-06	520	520
SERPINA6	0.207510923	1.82E-06	6.31E-06	520	369
HIVEP1	0.207509205	1.82E-06	6.31E-06	520	520
ATXN1L	0.207487804	1.82E-06	6.32E-06	520	520
AGRN	0.207362762	1.85E-06	6.42E-06	520	520
MPP2	0.207270451	1.87E-06	6.48E-06	520	519
BMPR1B	0.207173083	1.89E-06	6.55E-06	520	518
HCLS1	0.207119561	1.90E-06	6.59E-06	520	520
NOMO1	0.207075248	1.91E-06	6.62E-06	520	520
EIF4G3	0.207039053	1.92E-06	6.65E-06	520	520
C19orf35	0.206974387	1.94E-06	6.69E-06	520	509
UHMK1	0.206927995	1.95E-06	6.73E-06	520	520
EIF4G2	0.206923201	1.95E-06	6.73E-06	520	520
USP34	0.206849384	1.96E-06	6.79E-06	520	520
IGSF1	0.206778598	1.98E-06	6.84E-06	520	487
NCOA2	0.206605504	2.02E-06	6.97E-06	520	520
FGD6	0.206502624	2.04E-06	7.05E-06	520	520
CTSA	0.206502553	2.04E-06	7.05E-06	520	520
DPEP2	0.206483752	2.05E-06	7.06E-06	520	520
ERRF1	0.206468758	2.05E-06	7.07E-06	520	520
SCN4B	0.206332181	2.09E-06	7.18E-06	520	520
TMEM132A	0.206284219	2.10E-06	7.21E-06	520	520
SEMA4C	0.20627618	2.10E-06	7.22E-06	520	520
MAS1	0.206210248	2.12E-06	7.27E-06	520	100
SNX20	0.206189742	2.12E-06	7.29E-06	520	519
UFM1	0.206056887	2.15E-06	7.40E-06	520	520

GNAZ	0.205921265	2.19E-06	7.50E-06	520	519
CCDC62	0.205913997	2.19E-06	7.51E-06	520	491
CYP26B1	0.205881115	2.20E-06	7.53E-06	520	520
BMP2	0.205880667	2.20E-06	7.53E-06	520	520
PCYT1B	0.205867353	2.20E-06	7.54E-06	520	497
NEO1	0.205844536	2.21E-06	7.56E-06	520	520
CAMK2B	0.205829574	2.21E-06	7.57E-06	520	515
NR2C2	0.205747249	2.23E-06	7.64E-06	520	520
WFDC1	0.20566273	2.25E-06	7.71E-06	520	520
SCRG1	0.205582823	2.28E-06	7.78E-06	520	289
NHLRC4	0.205574358	2.28E-06	7.79E-06	520	518
ARSK	0.205547766	2.28E-06	7.81E-06	520	520
PAX3	0.205522608	2.29E-06	7.83E-06	520	425
PLEKHG1	0.2055203	2.29E-06	7.83E-06	520	520
ZFX	0.205392308	2.33E-06	7.94E-06	520	520
EGF	0.205366368	2.33E-06	7.96E-06	520	509
NBPF10	0.205332858	2.34E-06	7.99E-06	520	520
MAPK8IP1	0.205323341	2.34E-06	8.00E-06	520	520
LOC285593	0.205258687	2.36E-06	8.05E-06	520	413
RBM7	0.205243229	2.37E-06	8.06E-06	520	520
SEMA3G	0.205212721	2.37E-06	8.09E-06	520	520
LILRA3	0.205116908	2.40E-06	8.17E-06	520	512
NXN	0.205075038	2.41E-06	8.21E-06	520	520
ANKRD52	0.205001468	2.43E-06	8.28E-06	520	520
PHF20L1	0.204926433	2.45E-06	8.35E-06	520	520
ZNF805	0.204920635	2.46E-06	8.35E-06	520	520
SH3BGR	0.204775445	2.50E-06	8.48E-06	520	520
PRKCB	0.204775135	2.50E-06	8.48E-06	520	520
PON2	0.204758899	2.50E-06	8.49E-06	520	520
EN1	0.204731676	2.51E-06	8.52E-06	520	512
SCN3B	0.204646993	2.53E-06	8.60E-06	520	519
RNF175	0.204638092	2.54E-06	8.60E-06	520	517
MAP3K7	0.204637577	2.54E-06	8.60E-06	520	520
ZNF671	0.204391532	2.61E-06	8.84E-06	520	519
CLEC4D	0.204367391	2.62E-06	8.86E-06	520	492
BEX4	0.204311944	2.63E-06	8.92E-06	520	520
CHD9	0.204268656	2.65E-06	8.96E-06	520	520
KIF26A	0.204263784	2.65E-06	8.97E-06	520	520
IRF8	0.204258275	2.65E-06	8.97E-06	520	520
FAM135B	0.204238333	2.66E-06	8.99E-06	520	304
RIMS4	0.204094295	2.70E-06	9.13E-06	520	460
ZNF347	0.20402724	2.72E-06	9.20E-06	520	515
CNN2	0.20399665	2.73E-06	9.23E-06	520	520
ZNF844	0.203991493	2.73E-06	9.23E-06	520	518
LOC388692	0.20391543	2.76E-06	9.31E-06	520	520
CMA1	0.203842763	2.78E-06	9.38E-06	520	400

S100A4	0.203793674	2.80E-06	9.43E-06	520	520
RRN3P2	0.203771123	2.80E-06	9.46E-06	520	519
EBF4	0.203745538	2.81E-06	9.48E-06	520	520
SMTN	0.20370902	2.82E-06	9.52E-06	520	520
BEND7	0.203687252	2.83E-06	9.54E-06	520	520
CDK8	0.203686017	2.83E-06	9.54E-06	520	520
RC3H2	0.203660047	2.84E-06	9.57E-06	520	520
TNR	0.203656557	2.84E-06	9.57E-06	520	270
PGM1	0.203636833	2.85E-06	9.59E-06	520	520
CLPB	0.203588105	2.86E-06	9.63E-06	520	520
WNT7A	0.203465987	2.90E-06	9.77E-06	520	511
TREML2	0.203422927	2.92E-06	9.81E-06	520	511
INMT	0.20311451	3.02E-06	1.02E-05	520	520
KIAA1586	0.203094517	3.03E-06	1.02E-05	520	520
TBC1D20	0.203089609	3.03E-06	1.02E-05	520	520
LOC641367	0.203049683	3.04E-06	1.02E-05	520	518
SYNPO2L	0.203031984	3.05E-06	1.02E-05	520	515
PDZD2	0.203027383	3.05E-06	1.02E-05	520	520
CREM	0.202932009	3.09E-06	1.04E-05	520	520
HSPA5	0.202863699	3.11E-06	1.04E-05	520	520
CHM	0.202827746	3.12E-06	1.05E-05	520	520
MIA3	0.202822217	3.12E-06	1.05E-05	520	520
PROCR	0.202776562	3.14E-06	1.05E-05	520	520
ZXDA	0.20274283	3.15E-06	1.06E-05	520	519
SNCA	0.202700855	3.17E-06	1.06E-05	520	520
HAAO	0.202660378	3.18E-06	1.07E-05	520	519
CX3CR1	0.202582791	3.21E-06	1.07E-05	520	516
PHF21A	0.202543941	3.23E-06	1.08E-05	520	520
ANKRD7	0.202534172	3.23E-06	1.08E-05	520	285
PLA2G2A	0.202523646	3.23E-06	1.08E-05	520	505
BCL2A1	0.202467366	3.25E-06	1.09E-05	520	520
PRPS1L1	0.202341221	3.30E-06	1.10E-05	520	453
GNAO1	0.20233665	3.30E-06	1.10E-05	520	520
DDB1	0.20229574	3.32E-06	1.11E-05	520	520
C5orf15	0.202282533	3.32E-06	1.11E-05	520	520
KLF13	0.202265735	3.33E-06	1.11E-05	520	520
CDK5R2	0.20224136	3.34E-06	1.11E-05	520	389
IRGM	0.202186154	3.36E-06	1.12E-05	520	393
MFSD7	0.202124275	3.38E-06	1.13E-05	520	520
PRRX2	0.20210508	3.39E-06	1.13E-05	520	520
TSC22D1	0.202063225	3.41E-06	1.14E-05	520	520
BTN3A1	0.202013151	3.43E-06	1.14E-05	520	520
GLUD2	0.202006908	3.43E-06	1.14E-05	520	520
YIPF3	0.201947209	3.45E-06	1.15E-05	520	520
COL6A6	0.20193407	3.46E-06	1.15E-05	520	509
RNF130	0.201864884	3.48E-06	1.16E-05	520	520

ACCN1	0.201856843	3.49E-06	1.16E-05	520	411
COL23A1	0.201851024	3.49E-06	1.16E-05	520	520
HCRTR2	0.201846249	3.49E-06	1.16E-05	520	262
PAC SIN1	0.201815227	3.50E-06	1.17E-05	520	513
ADNP	0.201752887	3.53E-06	1.17E-05	520	520
FAM65B	0.2017326	3.54E-06	1.18E-05	520	520
CCDC144B	0.201656491	3.57E-06	1.19E-05	520	503
TSPAN12	0.201586289	3.60E-06	1.20E-05	520	519
B3GALT1	0.201556204	3.61E-06	1.20E-05	520	300
GABRR2	0.201420404	3.66E-06	1.22E-05	520	396
PRKAA1	0.201372803	3.68E-06	1.22E-05	520	520
LRRC49	0.201349836	3.69E-06	1.23E-05	520	520
SPANXC	0.201336292	3.70E-06	1.23E-05	520	232
CHRNA6	0.201316304	3.71E-06	1.23E-05	520	463
DCAF5	0.201229361	3.74E-06	1.24E-05	520	520
RAB3GAP2	0.201226833	3.75E-06	1.24E-05	520	520
KIF3B	0.201221462	3.75E-06	1.24E-05	520	520
NAT8L	0.201082165	3.81E-06	1.26E-05	520	507
MPHOSPH9	0.201050656	3.82E-06	1.27E-05	520	520
GPIHBP1	0.201015502	3.84E-06	1.27E-05	520	504
RNF169	0.201001918	3.84E-06	1.27E-05	520	520
SLC38A11	0.201001244	3.84E-06	1.27E-05	520	465
TIRAP	0.200888422	3.89E-06	1.29E-05	520	520
C17orf103	0.200880317	3.90E-06	1.29E-05	520	520
CPNE2	0.200847611	3.91E-06	1.29E-05	520	520
KRBA1	0.20079516	3.93E-06	1.30E-05	520	520
HOXC11	0.200733546	3.96E-06	1.31E-05	520	494
RYBP	0.20071238	3.97E-06	1.31E-05	520	520
MED1	0.200688038	3.98E-06	1.31E-05	520	520
RNF214	0.200662437	3.99E-06	1.32E-05	520	520
P2RY8	0.200651009	4.00E-06	1.32E-05	520	520
PCTP	0.200619774	4.01E-06	1.32E-05	520	520
MFI2	0.200569011	4.03E-06	1.33E-05	520	520
SIGLEC12	0.200564751	4.04E-06	1.33E-05	520	512
GHR	0.200521234	4.06E-06	1.34E-05	520	519
NRGN	0.200458579	4.09E-06	1.34E-05	520	520
LYSMD3	0.20044965	4.09E-06	1.35E-05	520	520
MCART6	0.200378735	4.12E-06	1.36E-05	520	516
C22orf9	0.200362897	4.13E-06	1.36E-05	520	520
ZBTB8A	0.200334034	4.14E-06	1.36E-05	520	520
CACHD1	0.200313796	4.15E-06	1.37E-05	520	520
FNBP1L	0.200245593	4.18E-06	1.38E-05	520	520
ZNF625	0.20021473	4.20E-06	1.38E-05	520	499
CACNG8	0.200123426	4.24E-06	1.39E-05	520	117
CFI	0.200117345	4.25E-06	1.39E-05	520	520
UBXN7	0.199984077	4.31E-06	1.41E-05	520	520

ELAVL4	0.199956724	4.32E-06	1.42E-05	520	433
PCDHB19P	0.199947748	4.33E-06	1.42E-05	520	503
TRIM72	0.199930326	4.34E-06	1.42E-05	520	425
SIK3	0.19981132	4.39E-06	1.44E-05	520	520
PIPOX	0.199768509	4.42E-06	1.45E-05	520	520
MGC16703	0.199756669	4.42E-06	1.45E-05	520	508
MORN4	0.199714147	4.44E-06	1.45E-05	520	520
PSG2	0.199675812	4.46E-06	1.46E-05	520	131
INSC	0.19958224	4.51E-06	1.47E-05	520	432
CACNB2	0.199569817	4.51E-06	1.48E-05	520	517
IGFBP3	0.199437351	4.58E-06	1.50E-05	520	520
MLEC	0.19939546	4.60E-06	1.50E-05	520	520
FBXO31	0.199383087	4.61E-06	1.51E-05	520	520
RDH5	0.199267399	4.67E-06	1.52E-05	520	520
FITM2	0.19925328	4.68E-06	1.53E-05	520	520
PHLDB2	0.199253136	4.68E-06	1.53E-05	520	520
RNF157	0.199203632	4.70E-06	1.53E-05	520	519
PRKACA	0.19918374	4.71E-06	1.54E-05	520	520
CD37	0.199178324	4.72E-06	1.54E-05	520	520
OSBPL9	0.199028999	4.80E-06	1.56E-05	520	520
FHAD1	0.198987457	4.82E-06	1.57E-05	520	520
SPIRE1	0.198973279	4.83E-06	1.57E-05	520	520
POLR1A	0.198930593	4.85E-06	1.58E-05	520	520
GYPE	0.198930423	4.85E-06	1.58E-05	520	490
FAM66E	0.19892169	4.86E-06	1.58E-05	520	220
MERTK	0.198896845	4.87E-06	1.58E-05	520	519
CSRNP3	0.198892463	4.87E-06	1.58E-05	520	462
HMOX1	0.198869799	4.88E-06	1.59E-05	520	520
SRPK2	0.19886684	4.88E-06	1.59E-05	520	520
SETX	0.198855841	4.89E-06	1.59E-05	520	520
ANKRD36BP1	0.198839929	4.90E-06	1.59E-05	520	517
FAM118B	0.198795817	4.92E-06	1.60E-05	520	520
CDH10	0.19876432	4.94E-06	1.60E-05	520	180
FAM133A	0.198592068	5.04E-06	1.63E-05	520	302
IFT52	0.19857156	5.05E-06	1.64E-05	520	520
MOSPD2	0.198527549	5.07E-06	1.64E-05	520	520
ZNF285	0.198396943	5.15E-06	1.67E-05	520	513
TRIB2	0.198390663	5.15E-06	1.67E-05	520	520
PDIA3P	0.19829186	5.21E-06	1.69E-05	520	520
PI16	0.198249609	5.23E-06	1.69E-05	520	501
CGB7	0.198167697	5.28E-06	1.71E-05	520	520
AIF1	0.198101399	5.32E-06	1.72E-05	520	520
TLR1	0.19809688	5.32E-06	1.72E-05	520	520
FBXO36	0.198065889	5.34E-06	1.73E-05	520	520
ICAM5	0.198061008	5.34E-06	1.73E-05	520	520
GLT25D2	0.198038122	5.36E-06	1.73E-05	520	520

ZFP28	0.198034264	5.36E-06	1.73E-05	520	518
FAM107B	0.198015732	5.37E-06	1.73E-05	520	520
PLTP	0.197954926	5.41E-06	1.75E-05	520	520
CTBS	0.19778134	5.51E-06	1.78E-05	520	520
IL21R	0.197753713	5.53E-06	1.78E-05	520	520
HMGA2	0.197748754	5.53E-06	1.78E-05	520	517
LBX1	0.197697936	5.57E-06	1.79E-05	520	242
CSRP1	0.197664019	5.59E-06	1.80E-05	520	520
CLIC5	0.19765854	5.59E-06	1.80E-05	520	518
SLC35F3	0.197609994	5.62E-06	1.81E-05	520	515
NPHP4	0.197593215	5.63E-06	1.81E-05	520	520
GLP1R	0.197563333	5.65E-06	1.82E-05	520	418
DGKH	0.197562107	5.65E-06	1.82E-05	520	520
MS4A6E	0.197531625	5.67E-06	1.82E-05	520	156
ATF6	0.197437492	5.73E-06	1.84E-05	520	520
LRRC70	0.197397201	5.75E-06	1.85E-05	520	520
TRIP12	0.197395718	5.76E-06	1.85E-05	520	520
SEMA3B	0.197387525	5.76E-06	1.85E-05	520	520
TNRC6B	0.197289096	5.82E-06	1.87E-05	520	520
HDGFL1	0.197098339	5.95E-06	1.91E-05	520	173
STX1A	0.197082628	5.96E-06	1.91E-05	520	520
CLCN6	0.197001439	6.01E-06	1.93E-05	520	520
ADD2	0.196864984	6.10E-06	1.95E-05	520	513
ARHGAP17	0.196837376	6.12E-06	1.96E-05	520	520
SH3GLB1	0.196714687	6.21E-06	1.98E-05	520	520
CYBASC3	0.196681909	6.23E-06	1.99E-05	520	520
DHRX	0.196642489	6.26E-06	2.00E-05	520	520
P2RY12	0.196600612	6.29E-06	2.01E-05	520	465
TRIM56	0.19657132	6.31E-06	2.01E-05	520	520
COLQ	0.196483563	6.37E-06	2.03E-05	520	518
HERPUD1	0.196265191	6.52E-06	2.08E-05	520	520
TMEM150A	0.196230203	6.55E-06	2.09E-05	520	520
TWF2	0.196207313	6.56E-06	2.09E-05	520	520
C6orf89	0.196192361	6.58E-06	2.10E-05	520	520
RGPD5	0.196102044	6.64E-06	2.12E-05	520	511
MAPK12	0.196051393	6.68E-06	2.13E-05	520	520
MED12	0.196050895	6.68E-06	2.13E-05	520	520
TRPM8	0.196003518	6.71E-06	2.14E-05	520	435
CALCR	0.1959769	6.73E-06	2.14E-05	520	449
DPP9	0.195899937	6.79E-06	2.16E-05	520	520
IBTK	0.195741128	6.91E-06	2.20E-05	520	520
ODF3L1	0.195733449	6.92E-06	2.20E-05	520	518
MOBKL1B	0.195714535	6.93E-06	2.20E-05	520	520
MOV10L1	0.195601189	7.02E-06	2.23E-05	520	512
PCNXL2	0.195573766	7.04E-06	2.24E-05	520	520
FOXA2	0.195545627	7.06E-06	2.24E-05	520	424

PTPRA	0.195482018	7.11E-06	2.26E-05	520	520
DUPD1	0.195474162	7.12E-06	2.26E-05	520	194
COL4A3	0.19537786	7.19E-06	2.28E-05	520	494
ZNF304	0.19537599	7.19E-06	2.28E-05	520	520
SESN3	0.195297896	7.26E-06	2.30E-05	520	520
CTNNAL1	0.195295928	7.26E-06	2.30E-05	520	520
RB1CC1	0.195253948	7.29E-06	2.31E-05	520	520
DDI2	0.195230087	7.31E-06	2.31E-05	520	516
C16orf54	0.19517103	7.36E-06	2.33E-05	520	520
PVR	0.195160444	7.37E-06	2.33E-05	520	520
RDX	0.195157389	7.37E-06	2.33E-05	520	520
SIPA1	0.195128601	7.39E-06	2.34E-05	520	520
TRIM54	0.195033745	7.47E-06	2.36E-05	520	438
NCOR1	0.195025593	7.48E-06	2.36E-05	520	520
WLS	0.195020418	7.48E-06	2.36E-05	520	520
USP47	0.194989789	7.51E-06	2.37E-05	520	520
LDOC1	0.194954019	7.54E-06	2.38E-05	520	520
FZD3	0.194936491	7.55E-06	2.38E-05	520	520
ZNF334	0.194801962	7.66E-06	2.42E-05	520	513
PRKAA2	0.194733586	7.72E-06	2.43E-05	520	513
HCN1	0.194699262	7.75E-06	2.44E-05	520	160
TBCK	0.194670717	7.77E-06	2.45E-05	520	520
MAPK1	0.194630424	7.81E-06	2.46E-05	520	520
CUX1	0.194615427	7.82E-06	2.46E-05	520	520
PDK3	0.194591192	7.84E-06	2.47E-05	520	520
REEP2	0.194435212	7.98E-06	2.51E-05	520	520
ALS2	0.194434378	7.98E-06	2.51E-05	520	520
SAMHD1	0.194423577	7.99E-06	2.51E-05	520	520
FKBP11	0.194374177	8.03E-06	2.52E-05	520	520
RNASE3	0.194364174	8.04E-06	2.53E-05	520	334
SLC25A30	0.194321795	8.08E-06	2.54E-05	520	520
MTSS1L	0.194307015	8.09E-06	2.54E-05	520	520
LMX1A	0.194122399	8.25E-06	2.59E-05	520	267
C8orf22	0.194117761	8.26E-06	2.59E-05	520	183
GATC	0.194114498	8.26E-06	2.59E-05	520	520
SLC9A5	0.194078357	8.29E-06	2.60E-05	520	520
RAPGEF6	0.194056301	8.31E-06	2.61E-05	520	520
ETV3	0.194034515	8.33E-06	2.61E-05	520	520
ZNF701	0.19393095	8.43E-06	2.64E-05	520	519
ACBD3	0.193902403	8.45E-06	2.65E-05	520	520
ZFP90	0.193850872	8.50E-06	2.66E-05	520	520
LOC401463	0.193781195	8.57E-06	2.68E-05	520	356
LOC338758	0.193755104	8.59E-06	2.69E-05	520	520
RHOJ	0.193751885	8.59E-06	2.69E-05	520	520
STEAP1	0.193722414	8.62E-06	2.70E-05	520	520
SLC29A4	0.193711508	8.63E-06	2.70E-05	520	520

C13orf16	0.193673595	8.67E-06	2.71E-05	520	493
ALK	0.193636246	8.70E-06	2.72E-05	520	444
RAB33A	0.193490498	8.84E-06	2.76E-05	520	519
RERE	0.193438312	8.89E-06	2.78E-05	520	520
ZNF713	0.19343795	8.89E-06	2.78E-05	520	519
CRK	0.193430451	8.90E-06	2.78E-05	520	520
C10orf12	0.193411652	8.92E-06	2.79E-05	520	520
HMX1	0.193374607	8.95E-06	2.80E-05	520	433
SIRPD	0.193223146	9.10E-06	2.84E-05	520	227
ZNF45	0.193214064	9.11E-06	2.84E-05	520	520
MYOM2	0.193208938	9.12E-06	2.84E-05	520	517
ZNF678	0.193202992	9.12E-06	2.84E-05	520	518
RIC8B	0.193180464	9.15E-06	2.85E-05	520	520
CSNK2A2	0.193137002	9.19E-06	2.86E-05	520	520
SOX9	0.193071137	9.25E-06	2.88E-05	520	520
MDFIC	0.193065605	9.26E-06	2.88E-05	520	520
AFF3	0.193047626	9.28E-06	2.89E-05	520	510
KIRREL3	0.193028493	9.30E-06	2.89E-05	520	482
ELF4	0.192917696	9.41E-06	2.92E-05	520	520
GPAT2	0.19286949	9.46E-06	2.94E-05	520	519
PAPOLG	0.192688768	9.65E-06	2.99E-05	520	520
DDHD1	0.192563258	9.78E-06	3.03E-05	520	520
ATP2A1	0.192562014	9.78E-06	3.03E-05	520	520
SLC7A8	0.192548621	9.79E-06	3.04E-05	520	520
KLHL20	0.19250176	9.84E-06	3.05E-05	520	520
GPR155	0.192455214	9.89E-06	3.07E-05	520	520
TMEM167B	0.192453124	9.90E-06	3.07E-05	520	520
C10orf55	0.192444881	9.91E-06	3.07E-05	520	519
ZNF439	0.192427999	9.92E-06	3.07E-05	520	519
FXYD5	0.192417343	9.93E-06	3.08E-05	520	520
GALNTL6	0.192407923	9.94E-06	3.08E-05	520	284
NAV2	0.192406352	9.95E-06	3.08E-05	520	520
SEZ6L2	0.192348416	1.00E-05	3.10E-05	520	520
FCHSD2	0.192304173	1.01E-05	3.11E-05	520	520
FAM48A	0.192211392	1.02E-05	3.14E-05	520	520
FUBP1	0.192190262	1.02E-05	3.15E-05	520	520
C20orf94	0.192181261	1.02E-05	3.15E-05	520	516
RGPD6	0.192167347	1.02E-05	3.15E-05	520	520
RPN2	0.192048894	1.03E-05	3.19E-05	520	520
NT5C1A	0.192035855	1.04E-05	3.19E-05	520	209
SNORD116-28	0.19189561	1.05E-05	3.24E-05	520	450
HIPK2	0.191869569	1.05E-05	3.25E-05	520	520
FJX1	0.191855469	1.06E-05	3.25E-05	520	520
KIAA0240	0.191807387	1.06E-05	3.27E-05	520	520
KCNK9	0.191722692	1.07E-05	3.30E-05	520	495
BTBD8	0.191685718	1.08E-05	3.31E-05	520	482

FOSL2	0.191660341	1.08E-05	3.32E-05	520	520
C19orf55	0.191610358	1.08E-05	3.33E-05	520	520
AJAP1	0.191503696	1.10E-05	3.37E-05	520	518
NCRNA00182	0.191385427	1.11E-05	3.41E-05	520	519
ZNF222	0.191379107	1.11E-05	3.41E-05	520	520
CPS1	0.191333617	1.12E-05	3.42E-05	520	518
GAA	0.191320024	1.12E-05	3.43E-05	520	520
EMR1	0.191165683	1.14E-05	3.48E-05	520	518
SMARCD1	0.191160155	1.14E-05	3.49E-05	520	520
KPNA5	0.191128565	1.14E-05	3.50E-05	520	520
KIAA1161	0.190947874	1.16E-05	3.56E-05	520	520
MLPH	0.190917911	1.17E-05	3.57E-05	520	520
DOK3	0.19090532	1.17E-05	3.58E-05	520	520
C5orf53	0.19087268	1.17E-05	3.59E-05	520	520
GIMAP1	0.190859968	1.18E-05	3.59E-05	520	520
ZKSCAN1	0.190841251	1.18E-05	3.60E-05	520	520
LRRK1	0.190759515	1.19E-05	3.63E-05	520	520
STAU1	0.190739576	1.19E-05	3.64E-05	520	520
ABR	0.190705764	1.19E-05	3.65E-05	520	520
C8orf37	0.190634547	1.20E-05	3.68E-05	520	519
FBXL4	0.190587761	1.21E-05	3.69E-05	520	520
FAM164A	0.190436289	1.23E-05	3.75E-05	520	520
PTDSS1	0.190403099	1.23E-05	3.76E-05	520	520
CREB3	0.190357888	1.24E-05	3.78E-05	520	520
HEATR1	0.190355993	1.24E-05	3.78E-05	520	520
SEC61A1	0.190264319	1.25E-05	3.81E-05	520	520
RALGAPB	0.190078561	1.28E-05	3.89E-05	520	520
DTX3	0.190069339	1.28E-05	3.89E-05	520	520
C9orf5	0.189949948	1.30E-05	3.94E-05	520	520
MARCO	0.189830709	1.31E-05	3.98E-05	520	520
6-Mar	0.189721048	1.33E-05	4.03E-05	520	520
APOB	0.189697742	1.33E-05	4.04E-05	520	413
MED13	0.189576936	1.35E-05	4.09E-05	520	520
OPHN1	0.18952245	1.36E-05	4.11E-05	520	520
CAPZA2	0.189503381	1.36E-05	4.12E-05	520	520
FRS2	0.189460039	1.37E-05	4.13E-05	520	520
NCEH1	0.18944767	1.37E-05	4.14E-05	520	520
PFKM	0.189374267	1.38E-05	4.17E-05	520	520
FOXD1	0.189317697	1.39E-05	4.20E-05	520	520
PPIL4	0.189299937	1.39E-05	4.20E-05	520	520
TNFRSF1A	0.189210502	1.40E-05	4.24E-05	520	520
TTLL2	0.189142565	1.41E-05	4.27E-05	520	252
C20orf117	0.189133781	1.41E-05	4.27E-05	520	520
TSTD2	0.189125287	1.41E-05	4.28E-05	520	520
RPL3L	0.18911694	1.42E-05	4.28E-05	520	508
C3orf72	0.189059054	1.42E-05	4.30E-05	520	478

PIP5K1P1	0.189058014	1.42E-05	4.30E-05	520	509
ZNF776	0.189052175	1.43E-05	4.31E-05	520	520
GPR82	0.189034438	1.43E-05	4.31E-05	520	508
CSRN1P1	0.189028486	1.43E-05	4.31E-05	520	520
JRKL	0.189025273	1.43E-05	4.32E-05	520	520
LGR4	0.189000111	1.43E-05	4.33E-05	520	520
NUCB1	0.188962986	1.44E-05	4.34E-05	520	520
HOXB5	0.188893877	1.45E-05	4.37E-05	520	509
TRAF1	0.188888403	1.45E-05	4.38E-05	520	520
ANKRD17	0.188878398	1.45E-05	4.38E-05	520	520
ATP6AP2	0.188830536	1.46E-05	4.40E-05	520	520
CD226	0.18879757	1.46E-05	4.41E-05	520	511
GPR123	0.188735316	1.47E-05	4.44E-05	520	349
TMPPE	0.188714207	1.48E-05	4.45E-05	520	520
OGFOD1	0.188687582	1.48E-05	4.46E-05	520	520
SYS1-DBNDD2	0.188624109	1.49E-05	4.49E-05	520	485
ZSCAN18	0.1885945	1.50E-05	4.50E-05	520	520
LMBR1	0.188566822	1.50E-05	4.51E-05	520	520
NFYA	0.188516034	1.51E-05	4.54E-05	520	520
PIK3CA	0.188511529	1.51E-05	4.54E-05	520	520
TRPS1	0.188466583	1.52E-05	4.56E-05	520	520
FMNL2	0.188387588	1.53E-05	4.60E-05	520	520
LOC645752	0.1883786	1.53E-05	4.60E-05	520	152
DDX21	0.188328305	1.54E-05	4.62E-05	520	520
ZNF616	0.188314356	1.54E-05	4.63E-05	520	520
SUFU	0.188288353	1.55E-05	4.64E-05	520	520
TMEM163	0.188171414	1.57E-05	4.69E-05	520	517
PFAS	0.188139876	1.57E-05	4.71E-05	520	520
SMAD4	0.188044864	1.59E-05	4.75E-05	520	520
UTP20	0.188039824	1.59E-05	4.75E-05	520	520
BPGM	0.188004393	1.59E-05	4.77E-05	520	520
TTC17	0.187996407	1.59E-05	4.77E-05	520	520
GPRASP2	0.187984307	1.60E-05	4.78E-05	520	520
ZBTB37	0.187965774	1.60E-05	4.79E-05	520	519
RASL11B	0.187892595	1.61E-05	4.82E-05	520	519
CDON	0.187866794	1.62E-05	4.84E-05	520	520
VPS41	0.187854251	1.62E-05	4.84E-05	520	520
SUMF2	0.187663776	1.65E-05	4.93E-05	520	520
ACOT1	0.187662821	1.65E-05	4.93E-05	520	520
NUDCD1	0.187607163	1.66E-05	4.96E-05	520	520
ABHD15	0.18748354	1.68E-05	5.02E-05	520	520
DENND4A	0.187413173	1.70E-05	5.06E-05	520	520
SPTA1	0.187406431	1.70E-05	5.06E-05	520	397
P2RX7	0.187379512	1.70E-05	5.07E-05	520	517
C1orf127	0.187352034	1.71E-05	5.09E-05	520	471
MDN1	0.18734778	1.71E-05	5.09E-05	520	520

SERPINA3	0.187334188	1.71E-05	5.09E-05	520	520
RASA1	0.187328242	1.71E-05	5.10E-05	520	520
TCTN2	0.18726288	1.72E-05	5.13E-05	520	520
ATOH8	0.187249752	1.73E-05	5.14E-05	520	520
NME5	0.187240128	1.73E-05	5.14E-05	520	415
C11orf45	0.187211617	1.73E-05	5.15E-05	520	520
LOC150786	0.187206615	1.73E-05	5.16E-05	520	520
ARRB1	0.187189525	1.74E-05	5.16E-05	520	520
BBS2	0.187185445	1.74E-05	5.17E-05	520	520
LOH12CR2	0.187123386	1.75E-05	5.20E-05	520	519
GRM1	0.187095087	1.75E-05	5.21E-05	520	388
CHIC1	0.187062102	1.76E-05	5.23E-05	520	520
MGC4473	0.187055876	1.76E-05	5.23E-05	520	361
MDC1	0.187025105	1.77E-05	5.25E-05	520	520
AATK	0.187006643	1.77E-05	5.26E-05	520	520
C14orf43	0.18695039	1.78E-05	5.29E-05	520	520
CDC14A	0.186893322	1.79E-05	5.32E-05	520	519
PLXNA3	0.186864875	1.80E-05	5.33E-05	520	520
ACOT9	0.186778311	1.81E-05	5.38E-05	520	520
TRHDE	0.186728576	1.82E-05	5.40E-05	520	423
PKD1	0.186679242	1.83E-05	5.43E-05	520	520
RGS1	0.186607604	1.85E-05	5.47E-05	520	520
ZHX2	0.186596035	1.85E-05	5.47E-05	520	520
DENND3	0.186565949	1.85E-05	5.49E-05	520	520
TOB2	0.186547254	1.86E-05	5.50E-05	520	520
ZNF280D	0.186509805	1.87E-05	5.52E-05	520	520
ST3GAL3	0.186495832	1.87E-05	5.53E-05	520	520
HYDIN	0.186483228	1.87E-05	5.53E-05	520	501
NLGN1	0.186475815	1.87E-05	5.54E-05	520	450
CSF2RB	0.186445814	1.88E-05	5.55E-05	520	520
FAM19A1	0.186293488	1.91E-05	5.64E-05	520	283
BTBD3	0.186255482	1.92E-05	5.66E-05	520	520
KCNT1	0.186253787	1.92E-05	5.66E-05	520	414
RASD1	0.186156395	1.94E-05	5.72E-05	520	520
FTSJ1	0.186152167	1.94E-05	5.72E-05	520	520
PLCB2	0.186123155	1.94E-05	5.73E-05	520	520
STK3	0.186051755	1.96E-05	5.78E-05	520	520
HOXC4	0.185948848	1.98E-05	5.83E-05	520	518
PAPSS1	0.185875282	1.99E-05	5.88E-05	520	520
LOC646982	0.185801363	2.01E-05	5.92E-05	520	395
SBNO1	0.18576511	2.02E-05	5.94E-05	520	520
ZBTB25	0.185764373	2.02E-05	5.94E-05	520	520
LYZ	0.185762625	2.02E-05	5.94E-05	520	520
LOC220930	0.185753545	2.02E-05	5.95E-05	520	520
PLA1A	0.185740369	2.02E-05	5.96E-05	520	515
GLI2	0.185739173	2.02E-05	5.96E-05	520	520

NFIL3	0.185650398	2.04E-05	6.01E-05	520	520
TM9SF3	0.185597488	2.05E-05	6.04E-05	520	520
WDR17	0.185500084	2.07E-05	6.10E-05	520	428
CD70	0.185498536	2.07E-05	6.10E-05	520	520
CTSH	0.185450793	2.08E-05	6.13E-05	520	520
DLL1	0.185377771	2.10E-05	6.17E-05	520	520
NUP160	0.185371948	2.10E-05	6.17E-05	520	520
RICTOR	0.185345328	2.11E-05	6.19E-05	520	520
TMEM67	0.185304303	2.12E-05	6.22E-05	520	520
ZNFX1	0.185287909	2.12E-05	6.22E-05	520	520
HPSE2	0.185249499	2.13E-05	6.25E-05	520	270
KIAA1107	0.18505953	2.17E-05	6.37E-05	520	519
WDR7	0.184967482	2.19E-05	6.43E-05	520	520
RHOA	0.184957346	2.19E-05	6.43E-05	520	520
LOC729799	0.184762802	2.24E-05	6.56E-05	520	518
TMEM150C	0.184707054	2.25E-05	6.59E-05	520	516
HTR6	0.184609741	2.27E-05	6.66E-05	520	352
CHID1	0.184600858	2.28E-05	6.66E-05	520	520
LOC100271836	0.184565168	2.29E-05	6.69E-05	520	520
COX4I2	0.184479825	2.31E-05	6.74E-05	520	520
PCDHGA8	0.18446024	2.31E-05	6.76E-05	520	506
SDF4	0.184398221	2.33E-05	6.80E-05	520	520
GPER	0.184388782	2.33E-05	6.80E-05	520	520
NAP1L5	0.184328724	2.34E-05	6.84E-05	520	520
HAPLN3	0.184321616	2.34E-05	6.85E-05	520	520
CLDN5	0.184223349	2.37E-05	6.91E-05	520	520
ZNF98	0.18421087	2.37E-05	6.92E-05	520	357
RPL23AP7	0.184199612	2.37E-05	6.93E-05	520	520
ARHGEF9	0.184162484	2.38E-05	6.95E-05	520	520
PPP1R12B	0.184148823	2.39E-05	6.96E-05	520	520
DAPK3	0.184019815	2.42E-05	7.05E-05	520	520
PTHLH	0.184017478	2.42E-05	7.05E-05	520	520
CREB1	0.183939397	2.44E-05	7.11E-05	520	520
PLCXD3	0.183841695	2.46E-05	7.18E-05	520	373
LOC100272216	0.183806113	2.47E-05	7.20E-05	520	493
EHD1	0.18371607	2.50E-05	7.26E-05	520	520
C15orf52	0.183678767	2.51E-05	7.29E-05	520	520
ELANE	0.183614027	2.52E-05	7.34E-05	520	266
COG8	0.183516026	2.55E-05	7.41E-05	520	520
MGC23270	0.183456456	2.56E-05	7.45E-05	520	519
LOC100133991	0.183366708	2.59E-05	7.52E-05	520	517
TMEM106B	0.183319875	2.60E-05	7.56E-05	520	520
FSD2	0.183302952	2.60E-05	7.57E-05	520	295
PPP4R4	0.183264409	2.61E-05	7.60E-05	520	517
RNF139	0.183095602	2.66E-05	7.73E-05	520	520
PAR-SN	0.183034914	2.68E-05	7.77E-05	520	512

CGNL1	0.182999048	2.69E-05	7.80E-05	520	519
HMG20A	0.182990709	2.69E-05	7.80E-05	520	520
PDE6G	0.182870711	2.72E-05	7.89E-05	520	519
MAGI2	0.182783825	2.75E-05	7.96E-05	520	520
TXNDC2	0.182766342	2.75E-05	7.98E-05	520	488
CCDC113	0.182668946	2.78E-05	8.05E-05	520	520
C2CD3	0.182638979	2.79E-05	8.08E-05	520	520
SLC24A1	0.182634627	2.79E-05	8.08E-05	520	520
MYH15	0.182605413	2.80E-05	8.10E-05	520	500
EFCAB2	0.182565326	2.81E-05	8.13E-05	520	520
AQP11	0.182538342	2.82E-05	8.15E-05	520	513
EPAS1	0.182512399	2.83E-05	8.17E-05	520	520
GALNT1	0.18247607	2.84E-05	8.20E-05	520	520
ZNF136	0.182468808	2.84E-05	8.21E-05	520	520
SIGLEC8	0.182425803	2.85E-05	8.24E-05	520	505
ZBED3	0.182414067	2.85E-05	8.25E-05	520	509
B4GALT6	0.182401393	2.86E-05	8.26E-05	520	520
SWAP70	0.182351931	2.87E-05	8.30E-05	520	520
ZNF791	0.1823423	2.87E-05	8.31E-05	520	520
TUBB3	0.182326703	2.88E-05	8.32E-05	520	520
DPH3B	0.182269197	2.90E-05	8.36E-05	520	518
PDE11A	0.182267775	2.90E-05	8.36E-05	520	427
PACS2	0.182169648	2.93E-05	8.44E-05	520	520
ZMYND11	0.182091869	2.95E-05	8.50E-05	520	520
KIF16B	0.182035899	2.97E-05	8.55E-05	520	520
RBM27	0.182005505	2.98E-05	8.57E-05	520	520
XKR8	0.181993654	2.98E-05	8.58E-05	520	520
ZNF430	0.181986562	2.98E-05	8.58E-05	520	519
ITCH	0.181935757	3.00E-05	8.63E-05	520	520
NXPH2	0.18193495	3.00E-05	8.63E-05	520	329
PARVG	0.181931045	3.00E-05	8.63E-05	520	520
C11orf87	0.18192064	3.00E-05	8.64E-05	520	407
IFI30	0.181774419	3.05E-05	8.76E-05	520	520
CHRFAM7A	0.181762023	3.05E-05	8.77E-05	520	517
HUWE1	0.181685833	3.07E-05	8.83E-05	520	520
MMP17	0.181673069	3.08E-05	8.84E-05	520	520
PRAM1	0.18162619	3.09E-05	8.88E-05	520	519
SH2D7	0.181602686	3.10E-05	8.90E-05	520	385
PLA2G4C	0.181562903	3.11E-05	8.93E-05	520	520
FBLIM1	0.181526439	3.13E-05	8.96E-05	520	520
HOXB6	0.181489314	3.14E-05	8.99E-05	520	518
ID4	0.181407707	3.16E-05	9.06E-05	520	520
C22orf24	0.181360688	3.18E-05	9.11E-05	520	415
HCN2	0.181351199	3.18E-05	9.11E-05	520	520
LOC285548	0.181270978	3.21E-05	9.18E-05	520	475
C16orf57	0.181256127	3.21E-05	9.20E-05	520	520

CLC	0.18124146	3.22E-05	9.21E-05	520	286
LOC389033	0.181182663	3.24E-05	9.26E-05	520	107
FAM19A2	0.181174153	3.24E-05	9.27E-05	520	500
ASB3	0.180949179	3.32E-05	9.47E-05	520	520
CTNND2	0.180905984	3.33E-05	9.51E-05	520	405
AFP	0.180903801	3.33E-05	9.51E-05	520	335
WBP11P1	0.180895941	3.33E-05	9.52E-05	520	517
MYL7	0.180881924	3.34E-05	9.53E-05	520	260
ARHGEF12	0.180875465	3.34E-05	9.54E-05	520	520
CYP4V2	0.18085274	3.35E-05	9.56E-05	520	520
SMG6	0.180768363	3.38E-05	9.64E-05	520	520
EXOC6B	0.180763334	3.38E-05	9.64E-05	520	520
DDAH2	0.180696683	3.40E-05	9.70E-05	520	520
CSF2RA	0.18066771	3.41E-05	9.73E-05	520	520
RGS22	0.180620654	3.43E-05	9.77E-05	520	392
P2RY13	0.180606537	3.43E-05	9.78E-05	520	517
PRRG3	0.180581743	3.44E-05	9.80E-05	520	331
ARID5B	0.180561541	3.45E-05	9.82E-05	520	520
SHPRH	0.180553506	3.45E-05	9.83E-05	520	520
COL4A6	0.180532012	3.46E-05	9.85E-05	520	519
HCG18	0.180517085	3.46E-05	9.86E-05	520	520
GPR107	0.180512359	3.47E-05	9.86E-05	520	520
ASPA	0.180506986	3.47E-05	9.87E-05	520	430
GPR20	0.180496608	3.47E-05	9.88E-05	520	426
DUSP13	0.180491052	3.47E-05	9.88E-05	520	503
CCDC144A	0.180487761	3.47E-05	9.88E-05	520	482
KLHL24	0.180449131	3.49E-05	9.92E-05	520	520
S100PBP	0.180420424	3.50E-05	9.94E-05	520	520
C17orf76	0.18040377	3.50E-05	9.96E-05	520	518
IL11RA	0.180403457	3.50E-05	9.96E-05	520	520
PBX3	0.180344117	3.53E-05	0.0001001	520	520
AADAT	0.180343922	3.53E-05	0.0001001	520	516
FAM66C	0.180252339	3.56E-05	0.00010101	520	507
LRRC41	0.180236533	3.56E-05	0.00010116	520	520
FAM179B	0.180181425	3.58E-05	0.00010171	520	520
PLA2R1	0.180169766	3.59E-05	0.00010182	520	520
COL4A4	0.180130908	3.60E-05	0.00010219	520	517
NIPSNAP3B	0.180088535	3.62E-05	0.00010262	520	516
SRPK3	0.180068256	3.63E-05	0.00010281	520	519
CALB2	0.17998605	3.66E-05	0.00010366	520	519
FANCF	0.179875067	3.70E-05	0.00010475	520	520
CHD6	0.17984343	3.71E-05	0.00010507	520	520
CBX1	0.17982794	3.72E-05	0.00010522	520	520
CCNJL	0.179753973	3.74E-05	0.00010598	520	520
EPB41L3	0.179741933	3.75E-05	0.00010608	520	520
C21orf84	0.179654926	3.78E-05	0.00010697	520	346

ANKRD2	0.179637857	3.79E-05	0.00010714	520	519
1-Dec	0.179616504	3.80E-05	0.00010736	520	370
KLHL31	0.179576374	3.81E-05	0.00010776	520	519
ZFP91	0.179540918	3.82E-05	0.00010809	520	520
C16orf46	0.179354817	3.90E-05	0.00011002	520	520
FRYL	0.179334417	3.91E-05	0.00011023	520	520
TMX3	0.179235006	3.94E-05	0.00011133	520	520
MYBL1	0.179170172	3.97E-05	0.00011204	520	520
ZNF667	0.179068235	4.01E-05	0.00011317	520	511
FLJ90757	0.178994821	4.04E-05	0.00011395	520	520
EXTL3	0.178985624	4.05E-05	0.00011404	520	520
C10orf18	0.178914741	4.07E-05	0.00011484	520	520
UBR3	0.178900461	4.08E-05	0.00011499	520	520
LRRC4B	0.17887188	4.09E-05	0.00011529	520	520
TNXB	0.178835272	4.11E-05	0.00011568	520	520
SYS1	0.178825735	4.11E-05	0.00011578	520	520
POLR3D	0.178814564	4.12E-05	0.00011589	520	520
B3GNT7	0.178788153	4.13E-05	0.00011617	520	520
ZNF746	0.17876201	4.14E-05	0.00011646	520	520
C5orf24	0.178605557	4.20E-05	0.00011816	520	520
NCALD	0.178588386	4.21E-05	0.00011835	520	520
GIMAP2	0.178579437	4.21E-05	0.00011844	520	520
BBS10	0.178553171	4.23E-05	0.00011872	520	520
LOC285419	0.178533749	4.23E-05	0.00011893	520	448
AMBRA1	0.178507175	4.25E-05	0.00011923	520	520
TRIP11	0.178497968	4.25E-05	0.00011933	520	520
NAP1L2	0.178495134	4.25E-05	0.00011935	520	510
ZNF471	0.178470284	4.26E-05	0.00011961	520	509
RGS17	0.178459861	4.27E-05	0.00011969	520	508
CCDC127	0.178397614	4.29E-05	0.00012042	520	520
GALR1	0.178355118	4.31E-05	0.0001209	520	193
FICD	0.178260475	4.35E-05	0.00012202	520	520
CLEC4E	0.178210055	4.37E-05	0.00012261	520	519
DAZL	0.178130473	4.41E-05	0.00012357	520	300
TNPO3	0.17811304	4.42E-05	0.00012376	520	520
NECAP1	0.178031483	4.45E-05	0.00012474	520	520
KIAA0100	0.178022558	4.46E-05	0.00012483	520	520
P2RX4	0.177970243	4.48E-05	0.00012546	520	520
PHF12	0.177963296	4.48E-05	0.00012553	520	520
ATP10D	0.177908026	4.51E-05	0.00012619	520	520
NOD1	0.177889421	4.52E-05	0.00012641	520	520
MPZ	0.177761327	4.58E-05	0.00012799	520	518
ZZEF1	0.177693692	4.61E-05	0.00012884	520	520
MT1M	0.177680227	4.61E-05	0.00012899	520	520
GRAP	0.177624612	4.64E-05	0.00012968	520	520
FAS	0.177622772	4.64E-05	0.00012968	520	520

ATP7A	0.177621269	4.64E-05	0.00012969	520	520
GPR17	0.177532964	4.68E-05	0.0001308	520	451
ROBO3	0.177478968	4.71E-05	0.00013147	520	520
TMEM215	0.177398712	4.74E-05	0.00013249	520	280
CPA3	0.177369517	4.76E-05	0.00013281	520	520
BAI1	0.177351282	4.77E-05	0.00013301	520	518
SCAMP1	0.177338882	4.77E-05	0.00013316	520	520
ZNF615	0.177333585	4.78E-05	0.00013319	520	519
GRM8	0.177278487	4.80E-05	0.00013387	520	502
CASP12	0.177264246	4.81E-05	0.00013405	520	353
PSEN2	0.177258163	4.81E-05	0.00013409	520	520
PIBF1	0.177203294	4.84E-05	0.00013479	520	520
TNFRSF4	0.177170691	4.85E-05	0.00013519	520	520
MTMR9	0.177141526	4.87E-05	0.00013557	520	520
CCL24	0.177133088	4.87E-05	0.00013566	520	475
SON	0.17706068	4.91E-05	0.00013663	520	520
ENO2	0.177046264	4.91E-05	0.00013681	520	520
LRRC43	0.177007763	4.93E-05	0.00013731	520	481
OTUD7B	0.176987586	4.94E-05	0.00013757	520	520
ZNF829	0.176966008	4.95E-05	0.00013785	520	481
C6orf208	0.176951331	4.96E-05	0.00013803	520	395
PRPS1	0.176898891	4.99E-05	0.00013866	520	520
BBS1	0.176753803	5.06E-05	0.00014064	520	520
ZSCAN21	0.176669688	5.10E-05	0.0001418	520	520
EMID2	0.176605605	5.13E-05	0.00014263	520	514
PADI4	0.176593114	5.14E-05	0.00014279	520	490
PYGB	0.176588064	5.14E-05	0.00014284	520	520
SPTY2D1	0.176454208	5.21E-05	0.00014468	520	520
WHAMML1	0.176429909	5.23E-05	0.00014501	520	519
LOC646214	0.176415345	5.23E-05	0.00014519	520	520
LRRC37B2	0.176404244	5.24E-05	0.00014532	520	520
VAV2	0.176393733	5.24E-05	0.00014545	520	520
C11orf30	0.176364256	5.26E-05	0.00014586	520	520
TAF6	0.176351618	5.27E-05	0.00014602	520	520
THSD1	0.176337917	5.27E-05	0.0001462	520	520
ART3	0.176282387	5.30E-05	0.00014697	520	476
NKX1-2	0.176268965	5.31E-05	0.00014714	520	384
LOC283856	0.176244374	5.32E-05	0.00014748	520	242
KIAA0564	0.176221096	5.33E-05	0.00014778	520	520
ZNF587	0.176078767	5.41E-05	0.00014977	520	520
SORBS3	0.176078294	5.41E-05	0.00014977	520	520
HIF1A	0.176071647	5.41E-05	0.00014983	520	520
CHD3	0.176071253	5.41E-05	0.00014983	520	520
ARID1B	0.176060093	5.42E-05	0.00014996	520	520
GORASP2	0.17605433	5.42E-05	0.00015002	520	520
ERCC4	0.176019277	5.44E-05	0.00015051	520	520

GPR3	0.175992861	5.46E-05	0.00015086	520	520
ZFYVE1	0.175880251	5.52E-05	0.00015249	520	520
GPATCH8	0.175860253	5.53E-05	0.00015275	520	520
MYBBP1A	0.175850709	5.53E-05	0.00015285	520	520
FAM92A1	0.175844415	5.54E-05	0.00015293	520	520
IDUA	0.175820911	5.55E-05	0.00015326	520	520
FZD6	0.175817086	5.55E-05	0.0001533	520	520
NHLRC2	0.175726817	5.60E-05	0.00015466	520	519
ANAPC1	0.175705388	5.61E-05	0.00015497	520	520
TMEM189- UBE2V1	0.175697245	5.62E-05	0.00015507	520	396
HLA-DOA	0.175690203	5.62E-05	0.00015516	520	520
POLI	0.175679375	5.63E-05	0.00015528	520	520
ZNF81	0.175646528	5.65E-05	0.00015572	520	520
HERPUD2	0.1756319	5.66E-05	0.00015593	520	520
LAPTM4A	0.175622542	5.66E-05	0.00015605	520	520
OAT	0.175458755	5.75E-05	0.00015849	520	520
NOMO2	0.175399452	5.79E-05	0.0001594	520	520
ZSWIM4	0.175349274	5.82E-05	0.00016013	520	520
USO1	0.175295426	5.85E-05	0.00016092	520	520
ATP8A1	0.175290623	5.85E-05	0.00016097	520	520
C11orf84	0.175253649	5.87E-05	0.00016152	520	520
LRRC36	0.175227154	5.89E-05	0.00016192	520	451
SPATS1	0.175181636	5.91E-05	0.0001626	520	368
LOC645166	0.175174521	5.92E-05	0.0001627	520	520
SIGLEC6	0.175094168	5.96E-05	0.00016397	520	462
CLEC4G	0.175090051	5.97E-05	0.00016401	520	493
FBP1	0.175036345	6.00E-05	0.00016482	520	520
KIF3A	0.174971372	6.04E-05	0.00016586	520	520
ZNF506	0.174920377	6.07E-05	0.00016667	520	520
SHISA3	0.174911616	6.07E-05	0.00016679	520	329
YIPF6	0.174712927	6.19E-05	0.00017002	520	520
CLEC18C	0.174702966	6.20E-05	0.00017016	520	377
CGA	0.174643783	6.24E-05	0.00017109	520	221
GRIA1	0.174614939	6.25E-05	0.00017155	520	365
ZNF223	0.174597395	6.26E-05	0.00017182	520	517
TTBK1	0.174553669	6.29E-05	0.00017254	520	514
DHX57	0.174502398	6.32E-05	0.00017337	520	520
SPTAN1	0.174454778	6.35E-05	0.00017416	520	520
LMX1B	0.174430092	6.37E-05	0.00017456	520	508
LOC116437	0.17436818	6.41E-05	0.00017553	520	226
INHBE	0.174313211	6.44E-05	0.00017641	520	514
RAB3GAP1	0.174282809	6.46E-05	0.00017691	520	520
ZNF124	0.174214011	6.50E-05	0.00017804	520	518
RFPL2	0.174209782	6.51E-05	0.00017809	520	382
RPGR	0.174111004	6.57E-05	0.00017968	520	520

FAM46A	0.174091601	6.58E-05	0.00018	520	520
SPN	0.174085432	6.59E-05	0.00018008	520	520
F8	0.173965029	6.67E-05	0.0001821	520	520
PCOLCE2	0.173944942	6.68E-05	0.00018243	520	513
MAFA	0.173928238	6.69E-05	0.00018271	520	428
SNRNP200	0.173926346	6.69E-05	0.00018272	520	520
HIBADH	0.17391311	6.70E-05	0.00018293	520	520
PIP5K1A	0.173856593	6.74E-05	0.0001839	520	520
ITFG2	0.173796929	6.78E-05	0.0001849	520	520
UBE2H	0.173743497	6.81E-05	0.00018584	520	520
PUM1	0.173738581	6.82E-05	0.00018591	520	520
ZNF146	0.173691184	6.85E-05	0.0001867	520	520
TMCC1	0.173539025	6.95E-05	0.0001893	520	520
GYLTL1B	0.173502122	6.97E-05	0.00018996	520	520
PCDHB13	0.173474771	6.99E-05	0.00019044	520	520
RQCD1	0.173441317	7.02E-05	0.00019099	520	520
PDE8B	0.173402154	7.04E-05	0.00019167	520	519
CD1B	0.173355444	7.08E-05	0.00019252	520	495
VKORC1L1	0.173336569	7.09E-05	0.00019283	520	520
GIMAP5	0.173299303	7.11E-05	0.0001935	520	520
ZNRF3	0.173288181	7.12E-05	0.00019368	520	520
AMOT	0.173210181	7.18E-05	0.00019509	520	520
CCL3	0.172998453	7.33E-05	0.00019907	520	520
CACNG7	0.172997716	7.33E-05	0.00019907	520	193
SCFD2	0.172966354	7.35E-05	0.00019962	520	520
HS3ST3A1	0.172942938	7.37E-05	0.00020005	520	520
SPANXB2	0.17290969	7.39E-05	0.00020068	520	212
TTC8	0.172903532	7.39E-05	0.00020077	520	520
GRAPL	0.172872778	7.42E-05	0.00020132	520	444
MCF2	0.172849715	7.43E-05	0.00020169	520	428
TMEM114	0.172796481	7.47E-05	0.00020269	520	201
TNFRSF21	0.172767083	7.49E-05	0.00020316	520	520
NBN	0.172719731	7.53E-05	0.00020402	520	520
ZNF772	0.172582366	7.63E-05	0.00020662	520	520
TMEM188	0.172515678	7.68E-05	0.00020791	520	520
ITPRIPL1	0.172411198	7.76E-05	0.00020987	520	518
SLC4A2	0.172387603	7.78E-05	0.00021032	520	520
PPTC7	0.172347857	7.81E-05	0.00021111	520	520
ADCY9	0.172337593	7.81E-05	0.00021129	520	520
C3orf32	0.172249806	7.88E-05	0.00021302	520	507
TPK1	0.172165903	7.95E-05	0.00021462	520	520
BRWD3	0.17213978	7.97E-05	0.0002151	520	520
KCNA5	0.172124431	7.98E-05	0.0002154	520	453
ZNF217	0.172097556	8.00E-05	0.00021587	520	520
EDN1	0.172024462	8.06E-05	0.00021732	520	520
IGF2BP2	0.171904412	8.15E-05	0.00021978	520	520

LRRC30	0.171897458	8.16E-05	0.0002199	520	134
ZDHHC4	0.171790758	8.24E-05	0.00022204	520	520
ZNF254	0.171757373	8.27E-05	0.0002227	520	520
VPS11	0.171674598	8.33E-05	0.00022437	520	520
PPFIA1	0.171607228	8.39E-05	0.00022578	520	520
ARFGAP1	0.171532304	8.45E-05	0.00022724	520	520
MPV17	0.171460539	8.51E-05	0.00022876	520	520
KIF1B	0.171328248	8.62E-05	0.00023149	520	520
C6orf176	0.17130748	8.63E-05	0.00023193	520	405
C14orf4	0.171296021	8.64E-05	0.00023215	520	520
C11orf68	0.171294052	8.65E-05	0.00023216	520	520
KCNA3	0.171274809	8.66E-05	0.00023253	520	503
GPC5	0.171265367	8.67E-05	0.00023272	520	316
ZNF570	0.171234136	8.70E-05	0.00023339	520	517
TMEM132C	0.171198076	8.73E-05	0.00023417	520	394
SHOC2	0.171168479	8.75E-05	0.00023475	520	520
SELE	0.171112783	8.80E-05	0.00023589	520	520
ACRBP	0.171109329	8.80E-05	0.00023594	520	519
GLB1L	0.171081575	8.83E-05	0.00023651	520	520
ADAR	0.170993074	8.90E-05	0.00023847	520	520
C17orf63	0.170991537	8.90E-05	0.00023848	520	520
IGF2BP1	0.17098602	8.91E-05	0.00023857	520	506
NAGLU	0.170980609	8.91E-05	0.00023866	520	520
GON4L	0.170933019	8.95E-05	0.0002397	520	520
C5orf36	0.170871793	9.01E-05	0.00024103	520	519
RTL1	0.170871535	9.01E-05	0.00024103	520	232
KIAA1430	0.170704544	9.15E-05	0.00024471	520	520
FAM125B	0.170667906	9.18E-05	0.00024548	520	520
IQCE	0.170617189	9.23E-05	0.00024662	520	520
KIAA1919	0.170573253	9.27E-05	0.0002476	520	520
ZNF649	0.170541269	9.30E-05	0.00024823	520	520
NPAS2	0.170541059	9.30E-05	0.00024823	520	520
HOXC13	0.170521873	9.31E-05	0.00024862	520	509
TBL2	0.170483586	9.35E-05	0.00024948	520	520
KBTBD12	0.170440366	9.39E-05	0.00025045	520	423
RGL3	0.170249673	9.56E-05	0.00025489	520	512
CGB2	0.170176496	9.63E-05	0.00025654	520	446
FLRT3	0.170175253	9.63E-05	0.00025654	520	519
NR1H3	0.170138806	9.66E-05	0.00025737	520	520
ANO7	0.170065945	9.73E-05	0.00025911	520	520
CAV2	0.170053295	9.74E-05	0.00025939	520	520
TREML4	0.170047172	9.75E-05	0.00025951	520	290
COL4A5	0.170002328	9.79E-05	0.00026056	520	520
GLDN	0.169996193	9.80E-05	0.00026064	520	519
B3GALTL	0.169879626	9.91E-05	0.00026337	520	520
C6orf170	0.169873809	9.91E-05	0.00026348	520	520

IGSF10	0.169857773	9.93E-05	0.00026385	520	517
C1orf105	0.169854119	9.93E-05	0.00026391	520	256
ZNF528	0.169790804	9.99E-05	0.00026541	520	520
SOCS3	0.169726732	0.000100532	0.00026697	520	520
SNX7	0.169678014	0.000101002	0.00026812	520	520
MTMR3	0.169674418	0.000101037	0.00026817	520	520
RPL23AP82	0.169640982	0.000101361	0.00026893	520	520
CA8	0.169624874	0.000101518	0.00026931	520	478
RHOC	0.169593953	0.000101819	0.00027007	520	520
PREP	0.169507527	0.000102664	0.00027217	520	520
GBAS	0.169407697	0.000103649	0.00027456	520	520
MEIS2	0.169379131	0.000103933	0.00027528	520	520
OPN4	0.169351295	0.00010421	0.00027598	520	405
COL11A2	0.169276313	0.000104959	0.00027785	520	520
AMFR	0.169116791	0.000106571	0.00028193	520	520
C6orf155	0.168991375	0.000107854	0.00028522	520	448
GATA3	0.168930715	0.00010848	0.00028683	520	520
CLOCK	0.168926157	0.000108528	0.00028692	520	520
ENPP4	0.168825492	0.000109574	0.0002895	520	519
PNPLA6	0.168798349	0.000109858	0.00029017	520	520
BMX	0.168783726	0.000110011	0.00029054	520	515
MEST	0.168708589	0.000110802	0.00029247	520	520
PDZK1	0.168694427	0.000110951	0.00029283	520	515
LOC283050	0.168655569	0.000111363	0.00029372	520	520
MUC12	0.168614633	0.000111798	0.00029483	520	515
ARMC1	0.168575312	0.000112217	0.0002959	520	520
CBLN3	0.168528416	0.000112719	0.00029707	520	519
C1orf133	0.168512026	0.000112895	0.00029749	520	519
RABGAP1L	0.168476913	0.000113273	0.00029845	520	520
FAM5B	0.168460685	0.000113448	0.0002988	520	296
FLCN	0.168433146	0.000113745	0.00029954	520	520
MED17	0.168366334	0.00011447	0.00030133	520	520
RNF128	0.168338166	0.000114777	0.00030206	520	519
EXD2	0.168317798	0.000114999	0.0003026	520	520
TAC1	0.168316124	0.000115018	0.00030261	520	145
KIAA1467	0.168312989	0.000115052	0.00030266	520	520
AGAP1	0.168252214	0.000115718	0.00030434	520	520
WDR82	0.168226108	0.000116006	0.00030497	520	520
GPR120	0.168174054	0.000116581	0.00030632	520	445
HOMER1	0.16814662	0.000116885	0.00030708	520	520
ASPHD1	0.168132531	0.000117041	0.00030745	520	519
AZI2	0.168112944	0.000117259	0.00030795	520	520
MICB	0.168079489	0.000117632	0.00030881	520	520
RFX2	0.168038146	0.000118095	0.00030994	520	520
DSCAM	0.167924155	0.000119379	0.00031311	520	454
C1orf94	0.167924089	0.00011938	0.00031311	520	234

TSSK1B	0.167774498	0.000121084	0.00031746	520	491
SLFN5	0.167712196	0.000121801	0.00031918	520	520
FYCO1	0.167711736	0.000121807	0.00031918	520	520
ARNT2	0.167681275	0.000122159	0.00032002	520	520
IL32	0.167557073	0.000123603	0.00032355	520	520
NCOA3	0.167522465	0.000124009	0.00032457	520	520
ZNF556	0.167318328	0.000126426	0.00033069	520	483
RIMBP2	0.16728419	0.000126835	0.00033167	520	518
HTRA4	0.167277485	0.000126915	0.00033184	520	484
ASCC3	0.16723649	0.000127407	0.00033299	520	520
PUS7L	0.167210517	0.00012772	0.00033377	520	520
ROPN1	0.167199651	0.000127852	0.00033407	520	403
LST1	0.16713715	0.000128608	0.000336	520	520
FST	0.167119423	0.000128824	0.00033652	520	520
MTOR	0.167105312	0.000128996	0.00033693	520	520
P2RY10	0.167088945	0.000129195	0.0003374	520	516
TEKT3	0.167053877	0.000129623	0.00033848	520	431
GATAD2B	0.167052366	0.000129642	0.00033848	520	520
HSF2BP	0.166907381	0.000131427	0.00034297	520	520
SIRT1	0.166875642	0.000131821	0.0003439	520	520
C1orf150	0.166853246	0.000132099	0.00034454	520	432
ARID4B	0.166827215	0.000132424	0.00034534	520	520
CRMP1	0.16680971	0.000132643	0.00034587	520	520
EML4	0.16673235	0.000133613	0.00034822	520	520
NUPL1	0.166697967	0.000134046	0.0003493	520	520
IL2RB	0.16660464	0.000135229	0.00035216	520	520
INPP5A	0.166599607	0.000135293	0.00035228	520	520
TRIM6	0.16658975	0.000135419	0.00035256	520	519
GRIK1	0.166524413	0.000136254	0.00035446	520	414
RXRG	0.166454219	0.000137157	0.00035663	520	469
KILLIN	0.166342728	0.000138602	0.00036017	520	519
TNFSF15	0.166326716	0.000138811	0.0003606	520	507
RAB15	0.166304736	0.000139098	0.0003613	520	520
GPR132	0.166226687	0.000140121	0.00036382	520	520
NBPF3	0.166204182	0.000140418	0.00036445	520	519
SPATA7	0.165991561	0.000143248	0.00037141	520	520
KLF2	0.165984459	0.000143344	0.00037161	520	520
ITGA6	0.165936588	0.000143989	0.00037319	520	520
ADO	0.165898413	0.000144505	0.00037448	520	520
CACNB3	0.165861422	0.000145007	0.00037573	520	520
MAML3	0.165835858	0.000145355	0.00037658	520	520
LOC100216001	0.165783823	0.000146065	0.00037837	520	511
ZNF187	0.16573207	0.000146775	0.00038011	520	520
DNAJB9	0.165730483	0.000146797	0.00038012	520	520
CCDC81	0.165632033	0.000148156	0.0003834	520	519
MEG8	0.165614994	0.000148393	0.00038396	520	95

TBX5	0.165599674	0.000148606	0.00038446	520	347
RNF123	0.165595355	0.000148666	0.00038457	520	520
CHRNE	0.165539346	0.000149447	0.00038649	520	518
DPAGT1	0.165376699	0.000151737	0.00039216	520	520
XPC	0.165284547	0.00015305	0.00039545	520	520
PI4KAP2	0.165175595	0.000154615	0.00039919	520	518
EPS15	0.165120351	0.000155414	0.0004011	520	520
TUBB	0.1650949	0.000155784	0.00040195	520	520
SLC5A9	0.165065157	0.000156217	0.00040301	520	467
PRNP	0.16500481	0.000157099	0.00040518	520	520
RASA2	0.164990359	0.00015731	0.00040563	520	519
LOC647979	0.164937891	0.000158082	0.00040756	520	520
ST18	0.164922935	0.000158303	0.00040808	520	463
MAP4K3	0.16487519	0.000159009	0.0004098	520	520
SERTAD4	0.164873345	0.000159036	0.00040981	520	518
OR51E2	0.164864147	0.000159172	0.00041011	520	464
AQP10	0.164844288	0.000159467	0.00041082	520	479
GABPB1	0.164777286	0.000160466	0.00041324	520	520
NCRNA00181	0.164732523	0.000161136	0.0004148	520	520
LPIN2	0.164667047	0.000162121	0.00041729	520	520
USP25	0.164656501	0.000162281	0.00041754	520	520
FOXO3B	0.164644588	0.000162461	0.00041795	520	520
RAC2	0.164629798	0.000162685	0.00041842	520	520
PSG3	0.164629555	0.000162688	0.00041842	520	182
THADA	0.164623239	0.000162784	0.00041851	520	520
BTN2A2	0.164602654	0.000163096	0.00041924	520	520
LGI1	0.164596377	0.000163191	0.0004194	520	248
C7	0.164553096	0.00016385	0.00042098	520	481
STAM2	0.164473141	0.000165073	0.00042391	520	520
C19orf26	0.164466403	0.000165176	0.00042412	520	519
C5orf4	0.164436933	0.000165629	0.00042512	520	520
SPG20	0.164395352	0.000166271	0.0004266	520	520
CNTF	0.164326347	0.00016734	0.00042924	520	513
SLC22A16	0.164284662	0.00016799	0.00043085	520	457
CREBBP	0.164278115	0.000168092	0.00043105	520	520
DKFZp686O24166	0.164123939	0.000170515	0.00043694	520	519
TEX2	0.164069522	0.000171378	0.00043898	520	520
SPATC1	0.164065646	0.00017144	0.00043908	520	492
GJA3	0.164060095	0.000171528	0.0004392	520	519
ELP2	0.164042454	0.000171809	0.00043986	520	520
CRKL	0.164029466	0.000172016	0.00044023	520	520
THRB	0.163973984	0.000172903	0.00044238	520	520
LOC340508	0.163911536	0.000173907	0.00044471	520	326
SRC	0.163895044	0.000174173	0.00044529	520	520
STAMBPL1	0.163887575	0.000174294	0.00044549	520	520
RAB2B	0.163831179	0.000175207	0.00044765	520	520

JKAMP	0.163804047	0.000175648	0.00044864	520	520
EYS	0.163803405	0.000175658	0.00044864	520	514
ZNF708	0.163771636	0.000176176	0.00044979	520	520
HPS5	0.16373234	0.000176818	0.00045137	520	520
GATA2	0.163706492	0.000177242	0.00045234	520	520
CD72	0.163622174	0.000178631	0.00045576	520	519
IQCA1	0.163618979	0.000178683	0.00045584	520	518
GEMIN5	0.163584578	0.000179253	0.00045718	520	520
MESDC1	0.163574365	0.000179422	0.00045755	520	520
PYROXD2	0.163540275	0.000179989	0.00045894	520	520
psiTPTE22	0.163537349	0.000180038	0.00045901	520	517
RNF146	0.163486739	0.000180882	0.00046098	520	520
HEATR5A	0.163473814	0.000181099	0.00046148	520	520
EEF1A2	0.163440671	0.000181654	0.00046278	520	520
ZNF91	0.163391577	0.00018248	0.00046482	520	520
NF2	0.163244243	0.000184981	0.00047072	520	520
SMCR8	0.16314219	0.000186731	0.00047493	520	520
MOBKL2B	0.163085387	0.000187712	0.00047713	520	520
C2orf39	0.163058396	0.00018818	0.00047819	520	437
ST6GAL1	0.16305396	0.000188257	0.00047833	520	520
ATP2B1	0.162989217	0.000189385	0.00048113	520	520
ZNF621	0.162872278	0.000191437	0.00048616	520	520
PBLD	0.162697519	0.000194542	0.0004938	520	520
EIF2AK3	0.162664715	0.00019513	0.00049523	520	520
TULP4	0.162650936	0.000195378	0.00049566	520	520
LOC727896	0.162649731	0.0001954	0.00049566	520	519
ABI3	0.162631641	0.000195725	0.00049643	520	520
BTD	0.162582515	0.000196612	0.00049843	520	520
TLR2	0.162572758	0.000196788	0.00049881	520	520
NCDN	0.162560839	0.000197004	0.00049929	520	520
GTSF1	0.162558858	0.00019704	0.00049932	520	507
FRZB	0.162545673	0.000197279	0.00049987	520	520
ITGA3	0.162539523	0.00019739	0.00050009	520	520
CLEC6A	0.162482536	0.000198427	0.00050265	520	399
DOCK8	0.162415765	0.000199649	0.00050562	520	520
MCTP1	0.162357952	0.000200712	0.00050812	520	520
SLC25A46	0.16223249	0.000203037	0.00051381	520	520
VANGL1	0.162226913	0.000203141	0.00051401	520	520
UBR2	0.162201154	0.000203622	0.0005151	520	520
FAM178A	0.16219634	0.000203712	0.00051526	520	520
C22orf25	0.162162531	0.000204345	0.00051665	520	520
AMACR	0.16216039	0.000204385	0.00051665	520	520
CPB1	0.162096645	0.000205584	0.00051941	520	183
C1orf58	0.162011722	0.000207191	0.00052327	520	520
RRAGC	0.162007879	0.000207264	0.00052339	520	520
LOC441666	0.161994894	0.000207511	0.00052395	520	485

ARHGDIB	0.161988783	0.000207627	0.00052418	520	520
BMP2K	0.161986621	0.000207668	0.00052421	520	520
CYTIP	0.161869281	0.000209913	0.00052928	520	520
PRCP	0.161850958	0.000210266	0.00053011	520	520
PCDHAC1	0.161845961	0.000210362	0.00053028	520	309
ZNF487	0.161806953	0.000211115	0.00053191	520	519
PSG1	0.161789476	0.000211453	0.00053263	520	262
SPRYD3	0.161784509	0.000211549	0.00053281	520	520
TMTC1	0.161772516	0.000211781	0.00053333	520	520
C15orf38	0.161754127	0.000212138	0.00053409	520	520
RAG1	0.161691674	0.000213354	0.00053669	520	520
GPR50	0.161660607	0.000213961	0.00053808	520	366
PCDHB11	0.161614169	0.000214872	0.00054023	520	517
ESRRG	0.161553316	0.000216071	0.00054311	520	450
REPS2	0.161545562	0.000216224	0.00054343	520	520
NUP98	0.161514534	0.000216838	0.00054477	520	520
LCOR	0.16142203	0.000218679	0.00054908	520	519
RIMBP3	0.161421508	0.000218689	0.00054908	520	520
HMGN4	0.161357966	0.000219962	0.00055214	520	520
EHD4	0.161339881	0.000220326	0.00055291	520	520
ZFP37	0.161167512	0.000223819	0.00056119	520	519
FOLR3	0.161154319	0.000224089	0.0005618	520	494
C11orf90	0.161009166	0.000227074	0.00056886	520	374
SDSL	0.161007174	0.000227115	0.00056889	520	520
DNAJC22	0.160902444	0.000229293	0.00057399	520	503
KCNQ1	0.160857723	0.000230229	0.00057619	520	520
ARHGAP25	0.160833274	0.000230742	0.0005774	520	520
CACNG4	0.160771523	0.000232042	0.00058029	520	506
ACER3	0.160694691	0.00023367	0.00058422	520	520
GTF2A1L	0.160665814	0.000234285	0.00058561	520	426
ARFGEF1	0.160646211	0.000234703	0.00058651	520	520
GCG	0.16059993	0.000235693	0.00058884	520	30
DLX2	0.160593007	0.000235841	0.00058913	520	509
CXorf38	0.160571485	0.000236303	0.00059022	520	520
LRRK2	0.160553865	0.000236682	0.00059109	520	519
C4orf46	0.160501106	0.000237819	0.00059378	520	520
YIPF2	0.160447583	0.000238978	0.00059646	520	520
LSM11	0.160444942	0.000239036	0.00059652	520	520
B3GALT2	0.160410545	0.000239784	0.00059817	520	488
LYL1	0.160386433	0.000240309	0.00059941	520	520
CD274	0.160360889	0.000240867	0.00060072	520	520
SIN3A	0.160312558	0.000241926	0.00060314	520	520
CPM	0.160255349	0.000243186	0.00060613	520	520
CLEC12A	0.160246649	0.000243378	0.00060653	520	519
PPPDE1	0.160232822	0.000243683	0.00060722	520	520
EFR3B	0.160151066	0.000245497	0.00061159	520	520

ZNF543	0.160124161	0.000246097	0.00061301	520	520
DAG1	0.160122063	0.000246143	0.00061305	520	520
PCDHB6	0.16009894	0.00024666	0.00061418	520	511
HSP90B1	0.160090092	0.000246858	0.0006146	520	520
CASK	0.160062051	0.000247486	0.00061609	520	520
ADORA2A	0.159966725	0.000249633	0.00062111	520	520
INVS	0.15992409	0.000250599	0.00062337	520	520
CAPN5	0.159897199	0.00025121	0.00062474	520	520
NNT	0.159860797	0.000252039	0.00062657	520	520
MGC23284	0.159803099	0.000253358	0.00062977	520	520
SELL	0.159735141	0.000254921	0.0006335	520	520
VPS35	0.159729146	0.000255059	0.00063377	520	520
VASP	0.159679375	0.00025621	0.00063647	520	520
SEL1L2	0.159642732	0.00025706	0.00063835	520	81
CYP7B1	0.159602307	0.000258001	0.0006406	520	519
UPRT	0.159534605	0.000259585	0.00064438	520	520
CDK20	0.159523809	0.000259838	0.00064493	520	520
STX7	0.159466101	0.000261196	0.00064798	520	520
NCKAP1	0.15944522	0.000261689	0.00064912	520	520
PBRM1	0.159385866	0.000263095	0.00065237	520	520
RANBP2	0.159372	0.000263425	0.00065294	520	520
BTG4	0.159309173	0.000264923	0.00065649	520	357
GPNMB	0.159285855	0.000265481	0.00065772	520	520
DPYD	0.159194745	0.000267671	0.0006629	520	520
TTC38	0.15919272	0.00026772	0.00066294	520	520
FSCN1	0.15916489	0.000268393	0.00066452	520	520
ALCAM	0.159150947	0.00026873	0.00066511	520	520
TULP3	0.159118431	0.000269519	0.00066698	520	520
SPANXA2	0.159085615	0.000270317	0.00066879	520	170
ZDHHC2	0.158996804	0.000272489	0.00067384	520	520
PYCR1	0.158821432	0.000276825	0.00068431	520	520
PAWR	0.158760115	0.000278356	0.00068801	520	520
DOK2	0.158756298	0.000278451	0.00068816	520	520
CLSTN1	0.158732552	0.000279046	0.00068938	520	520
SPEF2	0.158697889	0.000279918	0.00069136	520	516
ZC3H7A	0.158688532	0.000280153	0.00069186	520	520
NTAN1	0.158644973	0.000281252	0.00069449	520	520
LACTB	0.158626173	0.000281728	0.00069557	520	520
SCARA3	0.158603157	0.000282311	0.00069684	520	520
DDX19A	0.158543643	0.000283825	0.00070024	520	520
PARN	0.158513884	0.000284584	0.00070194	520	520
AFF2	0.158489122	0.000285218	0.00070333	520	514
TMEM144	0.158459175	0.000285986	0.00070505	520	520
LOC150622	0.15845566	0.000286076	0.00070519	520	232
CMBL	0.158441988	0.000286427	0.00070588	520	520
MYEF2	0.158378023	0.000288077	0.00070986	520	520

RNF160	0.158299616	0.00029011	0.0007147	520	520
HHEX	0.158285416	0.00029048	0.00071552	520	520
IKZF1	0.158275459	0.000290739	0.00071607	520	520
C16orf87	0.15818735	0.000293045	0.00072149	520	520
ITK	0.158142402	0.000294228	0.00072413	520	519
RYR2	0.157979529	0.000298552	0.0007345	520	513
CLDN9	0.157943495	0.000299516	0.00073679	520	491
PKHD1	0.157909405	0.000300432	0.00073877	520	438
ZNF624	0.157784232	0.000303815	0.00074663	520	520
CLEC18B	0.157740655	0.000305001	0.00074936	520	490
C1orf152	0.157708153	0.000305888	0.00075136	520	512
PAPOLB	0.157686739	0.000306474	0.00075271	520	239
KIAA1199	0.157676325	0.000306759	0.00075332	520	520
ELK4	0.157663768	0.000307104	0.00075407	520	520
EDN3	0.157653314	0.000307391	0.00075469	520	323
SLC6A20	0.157638594	0.000307795	0.00075559	520	493
SEC14L4	0.157586741	0.000309224	0.00075891	520	433
LRRC40	0.157535923	0.000310631	0.00076199	520	520
DIP2B	0.157440783	0.00031328	0.00076821	520	520
RARRES1	0.157431367	0.000313544	0.00076876	520	518
EDEM2	0.157384403	0.00031486	0.00077148	520	520
TTC5	0.157369065	0.000315291	0.0007723	520	520
E2F3	0.15734189	0.000316056	0.00077398	520	520
C16orf62	0.157334606	0.000316262	0.0007743	520	520
LY96	0.157319189	0.000316697	0.00077527	520	520
RPS6KA3	0.157313197	0.000316866	0.00077559	520	520
SH2B2	0.157284732	0.000317671	0.00077718	520	520
BMI1	0.157254588	0.000318526	0.00077908	520	520
ZNF883	0.157220765	0.000319488	0.00078134	520	511
DPYSL5	0.157153953	0.000321396	0.00078572	520	406
ANKRD42	0.157118583	0.00032241	0.0007879	520	520
KCNC1	0.157089084	0.000323258	0.0007897	520	420
CEND1	0.157039101	0.0003247	0.00079284	520	514
SORCS3	0.156958229	0.000327046	0.00079837	520	205
ZDHHC16	0.156949752	0.000327292	0.00079888	520	520
ZNF449	0.156908964	0.000328482	0.00080159	520	520
MYSM1	0.156862709	0.000329837	0.00080454	520	519
CSNK1E	0.156826165	0.00033091	0.00080702	520	520
ANGPTL5	0.156796638	0.00033178	0.00080895	520	208
COG3	0.156768831	0.000332601	0.00081066	520	520
DCUN1D4	0.156752779	0.000333076	0.00081172	520	520
C1QL1	0.156747318	0.000333238	0.00081201	520	520
SYN3	0.156727641	0.000333821	0.00081324	520	430
EMR4P	0.156694156	0.000334816	0.00081556	520	489
POU4F3	0.156666195	0.000335648	0.00081739	520	393
WIPF3	0.156640893	0.000336403	0.00081884	520	517

PLS3	0.156609372	0.000337346	0.00082103	520	520
RNF2	0.156590523	0.000337912	0.00082201	520	520
LHB	0.156564461	0.000338694	0.00082382	520	492
THSD4	0.156552472	0.000339055	0.00082459	520	520
EYA3	0.156510123	0.000340332	0.0008273	520	520
PSG6	0.15645992	0.000341851	0.00083069	520	200
MLL2	0.156454539	0.000342015	0.00083099	520	520
RNF111	0.156432348	0.000342688	0.00083253	520	520
CCDC158	0.156427932	0.000342823	0.00083275	520	331
C10orf93	0.156364011	0.000344772	0.00083718	520	356
DST	0.156348091	0.000345259	0.00083806	520	520
RAB33B	0.1562927	0.000346958	0.00084178	520	520
GRRP1	0.156188809	0.000350167	0.00084926	520	519
VEGFB	0.156166528	0.000350858	0.00085084	520	520
ZNF322A	0.156133905	0.000351874	0.0008532	520	520
IFT88	0.156091749	0.000353189	0.00085608	520	520
KCNN4	0.155965447	0.000357159	0.00086539	520	520
POM121L8P	0.155945988	0.000357774	0.00086677	520	337
ZNF555	0.155940378	0.000357952	0.0008671	520	520
PCMTD1	0.15593833	0.000358017	0.00086715	520	520
CNNM2	0.155905705	0.000359051	0.00086935	520	520
ZNF12	0.155901717	0.000359178	0.00086955	520	520
GTF3C4	0.155878547	0.000359914	0.00087123	520	520
SERPINB9	0.155798389	0.000362474	0.000877	520	520
ZNF142	0.155774067	0.000363253	0.00087847	520	520
IL17RD	0.155772352	0.000363309	0.00087849	520	520
RCAN1	0.155722656	0.000364907	0.00088183	520	520
CHIT1	0.155711201	0.000365276	0.00088262	520	518
RELA	0.155648198	0.000367314	0.00088722	520	520
C9orf64	0.155641058	0.000367546	0.00088768	520	520
CMIP	0.155621104	0.000368194	0.00088913	520	520
CD69	0.155595099	0.00036904	0.00089107	520	519
APOB48R	0.15541301	0.000375016	0.00090454	520	520
HEATR3	0.155412776	0.000375024	0.00090454	520	520
B4GALT5	0.155396818	0.000375552	0.0009056	520	520
BACH1	0.155379925	0.000376111	0.00090673	520	520
ATL3	0.155360727	0.000376748	0.00090805	520	520
KBTBD6	0.155229712	0.000381123	0.00091815	520	520
AFAP1L2	0.155215821	0.000381589	0.00091906	520	520
CDH8	0.155205284	0.000381943	0.0009198	520	489
ZNF71	0.155034391	0.000387731	0.00093296	520	520
C20orf4	0.15500925	0.00038859	0.0009348	520	520
PSG10	0.154987668	0.000389328	0.00093624	520	63
RAB2A	0.154939471	0.000390982	0.00094011	520	520
PARP4	0.154867243	0.000393472	0.00094576	520	520
BAZ1B	0.154774527	0.00039669	0.00095281	520	520

YEATS2	0.154746236	0.000397677	0.00095495	520	520
WDR26	0.154735816	0.000398041	0.0009556	520	520
R3HDM2	0.154720297	0.000398583	0.00095668	520	520
LRRC18	0.154718071	0.000398661	0.00095675	520	243
CAMKK2	0.154698101	0.000399361	0.0009582	520	520
KLHDC1	0.154679278	0.000400021	0.00095956	520	519
ZNF292	0.154632632	0.000401662	0.00096326	520	520
MAP4K2	0.15454994	0.000404587	0.0009697	520	520
DNAJC24	0.154508592	0.000406057	0.00097283	520	520
IGFBPL1	0.154453032	0.00040804	0.00097716	520	368
IL13RA2	0.154416089	0.000409363	0.00097998	520	508
FAM102B	0.154399531	0.000409958	0.00098129	520	520
MTMR11	0.154397101	0.000410045	0.00098138	520	520
BCOR	0.154374977	0.000410841	0.00098317	520	520
BRPF3	0.154362222	0.0004113	0.00098404	520	520
APOOL	0.154360614	0.000411358	0.00098406	520	520
C20orf108	0.154333739	0.000412328	0.00098614	520	520
IFNAR1	0.154331358	0.000412414	0.00098623	520	520
VAV1	0.15425806	0.000415069	0.00099247	520	520
PDP2	0.154207917	0.000416896	0.00099648	520	520
LYST	0.154173381	0.000418158	0.0009989	520	520
SHOX	0.154059588	0.000422341	0.0010083	520	209
ZNF257	0.154058242	0.000422391	0.0010083	520	487
USP40	0.154032484	0.000423343	0.00101045	520	520
CYP39A1	0.154023427	0.000423679	0.00101113	520	519
TMEM198	0.153994957	0.000424735	0.00101353	520	520
SLC39A6	0.153907545	0.000427992	0.00102094	520	520
TMEM87A	0.153847094	0.000430258	0.00102574	520	520
KIAA0406	0.153841943	0.000430452	0.00102608	520	520
LHX5	0.153836626	0.000430651	0.00102632	520	463
LUZP2	0.153814492	0.000431485	0.00102818	520	453
FCN3	0.153807999	0.000431729	0.00102855	520	520
PAK2	0.153807637	0.000431743	0.00102855	520	520
TMEM132B	0.153731526	0.000434621	0.00103511	520	516
TRIM37	0.153723688	0.000434919	0.00103563	520	520
CYFIP1	0.153705911	0.000435594	0.00103699	520	520
LOC646762	0.153624691	0.000438692	0.00104424	520	520
NAP1L6	0.153553866	0.00044141	0.00105022	520	260
LRFN3	0.153521856	0.000442643	0.0010529	520	520
HAO1	0.153468376	0.000444711	0.00105732	520	95
KCNAB3	0.153440199	0.000445804	0.0010598	520	518
USP31	0.153435987	0.000445968	0.00106006	520	520
WIT1	0.153392375	0.000447665	0.00106359	520	236
CNGB1	0.153368481	0.000448598	0.00106556	520	517
DDX6	0.15334227	0.000449623	0.00106774	520	520
TNFAIP8L2	0.153302832	0.00045117	0.00107116	520	520

RBBP5	0.153266407	0.000452602	0.00107431	520	520
ARL13B	0.153212064	0.000454748	0.00107902	520	520
CHD8	0.15316877	0.000456464	0.00108271	520	520
ETV6	0.153088774	0.00045965	0.0010895	520	520
CYFIP2	0.153040174	0.000461596	0.00109386	520	520
SLC7A2	0.153032675	0.000461897	0.00109431	520	519
LGI4	0.153022565	0.000462303	0.00109515	520	520
GNL3L	0.152966289	0.00046457	0.00110026	520	520
KLHL15	0.152959711	0.000464835	0.00110076	520	520
XAGE2	0.152922172	0.000466353	0.00110396	520	69
TDRD9	0.152889977	0.000467659	0.00110692	520	509
GIMAP7	0.152838369	0.000469759	0.00111176	520	519
MAS1L	0.152832066	0.000470016	0.00111224	520	85
PLAG1	0.152825525	0.000470283	0.00111274	520	519
G6PC3	0.152809296	0.000470946	0.00111405	520	520
KLHL9	0.152780104	0.000472141	0.00111675	520	520
TECRL	0.152770405	0.000472539	0.00111755	520	163
HLA-DMB	0.152752305	0.000473281	0.00111905	520	520
ARHGEF11	0.152685903	0.000476015	0.00112499	520	520
GPR158	0.152649398	0.000477525	0.00112829	520	508
MYST4	0.152593128	0.00047986	0.00113341	520	520
PREPL	0.152583024	0.00048028	0.00113427	520	520
ACACB	0.152509774	0.000483339	0.00114127	520	520
HRH4	0.152509287	0.000483359	0.00114127	520	417
ARRB2	0.152463502	0.00048528	0.00114554	520	520
TRIM68	0.152445225	0.000486049	0.00114722	520	520
CXCL3	0.15240948	0.000487556	0.00115064	520	519
BTBD7	0.152400249	0.000487945	0.00115143	520	520
SLC6A13	0.152330611	0.000490896	0.00115785	520	441
USP10	0.152299616	0.000492214	0.00116068	520	520
LASS1	0.152261798	0.000493827	0.0011643	520	494
SIGLECP3	0.152241005	0.000494716	0.00116617	520	502
ASB4	0.152227013	0.000495315	0.00116745	520	258
ZNF551	0.152161272	0.000498139	0.00117369	520	520
IL6R	0.152126032	0.000499659	0.00117714	520	520
CYP27B1	0.152028171	0.000503902	0.00118658	520	520
ZDBF2	0.152005733	0.00050488	0.00118874	520	520
AMTN	0.151984462	0.000505808	0.00119065	520	498
TNNT1	0.151977797	0.000506099	0.0011912	520	520
UBE2J1	0.151963754	0.000506713	0.00119236	520	520
FRAS1	0.151912905	0.000508943	0.00119719	520	520
IP6K1	0.151907153	0.000509195	0.00119751	520	520
TREML3	0.151882608	0.000510275	0.00119963	520	449
FAM161A	0.15183446	0.0005124	0.00120421	520	519
FER1L6	0.15183436	0.000512404	0.00120421	520	487
BAT2	0.151802037	0.000513835	0.00120729	520	520

GABRA3	0.151793455	0.000514216	0.00120804	520	499
ABCA4	0.151776137	0.000514985	0.00120971	520	514
VEZT	0.15175336	0.000515997	0.00121195	520	520
ATP9A	0.15169785	0.000518473	0.00121748	520	520
TCEA2	0.151694709	0.000518613	0.00121767	520	520
NLGN3	0.151675233	0.000519485	0.00121957	520	518
CCL21	0.151654032	0.000520435	0.00122166	520	520
SP3	0.15163557	0.000521264	0.00122346	520	520
MGC16121	0.151608942	0.000522461	0.00122599	520	516
NUDCD3	0.151580614	0.000523738	0.00122858	520	520
SLC25A43	0.151580345	0.00052375	0.00122858	520	520
MGC12916	0.151571782	0.000524136	0.00122935	520	519
PSG11	0.151548176	0.000525203	0.00123156	520	71
COPZ2	0.151493277	0.000527692	0.00123682	520	520
NPAT	0.151491441	0.000527776	0.00123687	520	520
ATE1	0.151473	0.000528614	0.0012387	520	520
TMCO7	0.15144364	0.000529952	0.00124169	520	520
TAT	0.151413882	0.000531311	0.00124458	520	295
PRKCSH	0.151399747	0.000531958	0.00124587	520	520
TOR1A	0.151399158	0.000531985	0.00124587	520	520
AKR1B1	0.151378024	0.000532953	0.00124792	520	520
PHF21B	0.151377372	0.000532983	0.00124792	520	455
KIF1A	0.151351187	0.000534185	0.00125045	520	451
HERC3	0.151351153	0.000534187	0.00125045	520	520
HLA-DPA1	0.151269847	0.000537935	0.00125878	520	520
RNF219	0.151156908	0.000543183	0.00127062	520	520
BBS5	0.151110945	0.000545332	0.00127535	520	520
PABPC4	0.151103404	0.000545686	0.00127603	520	520
TRPM7	0.151009171	0.000550119	0.0012858	520	520
C2orf51	0.150876757	0.000556406	0.00130019	520	133
NKD2	0.150826382	0.000558815	0.00130522	520	520
C1orf190	0.150777085	0.000561182	0.00131059	520	517
RGPD1	0.150751418	0.000562418	0.00131303	520	520
EIF2AK2	0.15071017	0.00056441	0.00131737	520	520
BIN2	0.150669418	0.000566384	0.00132167	520	520
AWAT2	0.150644607	0.000567589	0.00132418	520	151
EPC2	0.150611207	0.000569215	0.0013278	520	520
AMOTL2	0.150610025	0.000569273	0.0013278	520	520
HLA-DPB1	0.150559383	0.000571747	0.00133341	520	520
ANGPT4	0.150557022	0.000571862	0.00133353	520	292
NAALADL2	0.150485554	0.000575371	0.00134094	520	513
ETV3L	0.150482127	0.00057554	0.00134118	520	510
EEF2	0.150379413	0.000580619	0.00135254	520	520
WAS	0.150363669	0.000581402	0.00135421	520	520
MYO3B	0.150268382	0.000586157	0.00136486	520	510
IGSF11	0.150267969	0.000586178	0.00136486	520	497

FAM78B	0.150243247	0.000587417	0.00136759	520	520
ZNF287	0.150220901	0.00058854	0.00137004	520	519
DNAH14	0.150149968	0.000592117	0.00137789	520	514
TMOD1	0.150053772	0.000597	0.00138797	520	520
BACE2	0.150045123	0.00059744	0.00138884	520	520
POLM	0.15003655	0.000597878	0.0013897	520	520
ZIM2	0.149954242	0.000602091	0.00139884	520	138
TSPYL2	0.14994245	0.000602697	0.00140009	520	520
RBM16	0.149920829	0.000603809	0.00140235	520	520
CCDC54	0.149890997	0.000605347	0.0014056	520	201
NUP155	0.14988713	0.000605547	0.0014059	520	520
SLC35E1	0.149817514	0.000609151	0.00141378	520	520
SLC17A7	0.149812213	0.000609426	0.00141426	520	519
ZNF773	0.14962186	0.000619387	0.00143655	520	520
8-Sep	0.149611054	0.000619957	0.0014377	520	520
CSTF2T	0.149563433	0.000622475	0.00144288	520	520
ZNF573	0.149495352	0.000626091	0.00145092	520	510
HMBOX1	0.149466228	0.000627643	0.00145419	520	520
SLC12A7	0.149455749	0.000628203	0.00145532	520	520
CCDC163P	0.149452344	0.000628385	0.00145557	520	510
FZD10	0.14943553	0.000629284	0.00145715	520	520
ZNF569	0.149431817	0.000629483	0.00145744	520	519
C21orf62	0.149407303	0.000630796	0.00146014	520	352
C17orf85	0.14940418	0.000630963	0.0014602	520	520
ARFGEF2	0.149319962	0.000635496	0.00147035	520	520
AKAP9	0.149241919	0.000639723	0.00147996	520	520
IL13RA1	0.149182878	0.000642938	0.00148706	520	520
ULK4	0.149142304	0.000645156	0.00149202	520	520
SEMA6A	0.149132057	0.000645717	0.00149315	520	520
TNFRSF6B	0.149089461	0.000648055	0.00149821	520	520
CYP27C1	0.149042044	0.000650667	0.0015039	520	518
ZNF619	0.148986014	0.000653766	0.00151089	520	519
ABCC12	0.148932489	0.000656739	0.00151724	520	141
PTAR1	0.148915458	0.000657688	0.00151909	520	520
TCEAL1	0.148851261	0.000661276	0.0015265	520	520
EIF3A	0.148837218	0.000662063	0.00152779	520	520
GALNT7	0.14879751	0.000664293	0.00153263	520	520
CWF19L2	0.148797213	0.00066431	0.00153263	520	520
LOC388242	0.148782414	0.000665143	0.00153437	520	520
ANKRD34C	0.148777192	0.000665437	0.0015347	520	237
SNRK	0.148659732	0.000672087	0.0015495	520	520
EBI3	0.148622802	0.00067419	0.00155417	520	520
TLE6	0.148572376	0.000677072	0.00156046	520	511
FRS3	0.148567803	0.000677334	0.00156089	520	520
SPANXE	0.14852719	0.000679664	0.00156608	520	174
AMOTL1	0.148511668	0.000680556	0.00156795	520	520

GATSL1	0.148472766	0.000682798	0.00157258	520	517
SCYL2	0.148417169	0.000686014	0.00157945	520	520
CMTM4	0.148398674	0.000687086	0.00158166	520	520
SLC6A7	0.148396555	0.000687209	0.00158166	520	469
FCGR3B	0.148385073	0.000687876	0.00158301	520	517
ZNF652	0.148379282	0.000688213	0.0015836	520	520
TDRD6	0.148329336	0.000691122	0.00159012	520	503
ASH1L	0.148304117	0.000692596	0.00159333	520	520
NRXN3	0.148282412	0.000693866	0.00159607	520	510
PPYR1	0.148274896	0.000694306	0.0015969	520	505
EID3	0.148266939	0.000694773	0.00159779	520	520
ABCD1	0.148184995	0.000699594	0.00160869	520	520
HOXD8	0.148112825	0.000703866	0.00161796	520	520
ZFYVE16	0.148052541	0.000707453	0.00162602	520	520
POU3F2	0.148044969	0.000707905	0.00162687	520	368
CRYAB	0.147989139	0.000711244	0.00163417	520	520
ZRANB3	0.147961463	0.000712904	0.00163743	520	520
ZIK1	0.147846892	0.000719817	0.00165274	520	520
WDR54	0.147790814	0.000723223	0.00166	520	520
EXOC3L	0.147787444	0.000723428	0.00166028	520	520
BBS4	0.147706591	0.000728366	0.00167091	520	520
CCDC112	0.147695457	0.000729049	0.00167204	520	520
ZMYM2	0.14768611	0.000729622	0.00167316	520	520
UTP23	0.147649742	0.000731857	0.0016781	520	520
ZNF253	0.147627271	0.000733241	0.00168108	520	517
P2RX5	0.147619569	0.000733716	0.00168198	520	520
KLHL8	0.147601601	0.000734826	0.00168414	520	520
ERAP1	0.147508803	0.000740579	0.00169694	520	520
TAGAP	0.147497345	0.000741292	0.00169838	520	520
UXS1	0.147441672	0.000744767	0.00170614	520	520
TAOK3	0.147435547	0.00074515	0.00170683	520	520
FAM35A	0.147424807	0.000745822	0.00170817	520	520
KIAA0652	0.147238066	0.000757603	0.00173437	520	520
ZFP36L2	0.147231343	0.000758031	0.00173515	520	520
NAT14	0.147219855	0.000758761	0.00173662	520	520
ZKSCAN2	0.147216279	0.000758989	0.00173695	520	520
CNTLN	0.147100085	0.000766419	0.00175335	520	520
ICOS	0.147036585	0.000770507	0.00176191	520	520
COL7A1	0.14701055	0.000772189	0.00176515	520	520
ZNF710	0.146985235	0.000773828	0.0017687	520	520
ANKFY1	0.146981838	0.000774048	0.00176886	520	520
ZNF611	0.146963592	0.000775232	0.00177131	520	519
KTN1	0.146959206	0.000775517	0.00177176	520	520
ZSCAN12	0.146943171	0.000776559	0.00177394	520	519
FUCA2	0.1469417	0.000776654	0.00177395	520	520
PDLIM5	0.146910999	0.000778653	0.00177812	520	520

CACNA2D2	0.146907231	0.000778899	0.00177847	520	519
LMBRD2	0.146834764	0.000783637	0.00178909	520	520
EEPD1	0.14679045	0.000786547	0.00179553	520	520
GTF2I	0.146771907	0.000787768	0.00179771	520	520
USP49	0.146676337	0.000794088	0.00181172	520	513
SLC35D1	0.146645991	0.000796104	0.00181612	520	520
KIAA1529	0.146570004	0.000801174	0.00182686	520	517
SMARCC1	0.146527556	0.00080402	0.00183314	520	520
CYLD	0.146451205	0.000809161	0.00184402	520	520
MATN2	0.146411801	0.000811826	0.00184968	520	520
ZNF460	0.146339298	0.000816752	0.00186069	520	520
CES1	0.146328437	0.000817492	0.00186217	520	518
ST7	0.146322485	0.000817898	0.00186288	520	520
RNF125	0.146289929	0.000820122	0.00186731	520	520
MTRR	0.146272859	0.00082129	0.00186976	520	520
CECR2	0.146268159	0.000821611	0.00187028	520	515
OR1L8	0.146100856	0.000833146	0.00189483	520	178
HIPK1	0.146077828	0.000834745	0.00189782	520	520
GAL3ST1	0.145935535	0.00084469	0.00191979	520	415
MED14	0.145923117	0.000845564	0.00192155	520	520
ZNF813	0.145908436	0.000846597	0.00192368	520	514
SETD5	0.145891404	0.000847797	0.00192598	520	520
ZNF559	0.145889628	0.000847922	0.00192605	520	520
ZC3H6	0.145766028	0.000856681	0.00194506	520	520
PSKH1	0.145726297	0.000859514	0.00195128	520	520
SH3D19	0.145684165	0.000862528	0.00195746	520	520
PPP1R3C	0.14567119	0.000863458	0.00195935	520	520
ARNTL	0.145568683	0.000870839	0.00197498	520	520
UBE2W	0.145545327	0.000872528	0.00197859	520	520
FAM162B	0.14552807	0.000873779	0.00198098	520	513
BAG4	0.145394111	0.000883543	0.00200244	520	520
ZNF329	0.145388542	0.000883951	0.00200314	520	520
AFF1	0.145329942	0.000888255	0.00201267	520	520
SLC26A3	0.145309191	0.000889784	0.00201523	520	75
ST6GALNAC6	0.145290561	0.000891159	0.00201812	520	520
GNPDA2	0.145288082	0.000891342	0.00201831	520	520
IQSEC2	0.145261385	0.000893316	0.00202209	520	520
NAALAD2	0.145223372	0.000896133	0.00202785	520	517
MON1B	0.145223005	0.00089616	0.00202785	520	520
PRR12	0.145169452	0.000900144	0.00203641	520	520
P2RX1	0.145168091	0.000900245	0.00203641	520	518
RRN3	0.145132004	0.000902939	0.00204204	520	520
MAGT1	0.14506564	0.000907912	0.00205283	520	520
HIST2H2BA	0.145020158	0.000911335	0.00205964	520	512
PALM3	0.145016251	0.000911629	0.00206008	520	501
LOC154449	0.14500639	0.000912373	0.00206153	520	73

SYVN1	0.144978281	0.000914497	0.00206586	520	520
ZSCAN4	0.144871404	0.000922613	0.00208257	520	363
SULT1C2	0.144832139	0.000925611	0.0020891	520	423
UGDH	0.144815908	0.000926853	0.0020912	520	520
CEACAM4	0.144807557	0.000927493	0.00209194	520	512
HMP19	0.144790729	0.000928783	0.00209438	520	353
PCDHA2	0.144773055	0.00093014	0.00209721	520	248
SF3B2	0.1447259	0.000933769	0.00210492	520	520
PCDHA4	0.14472334	0.000933966	0.00210513	520	413
PPM1F	0.144685584	0.000936882	0.00211147	520	520
RAB6B	0.144671797	0.000937949	0.00211363	520	520
CGRRF1	0.144664467	0.000938517	0.00211444	520	520
ENTPD5	0.144628521	0.000941305	0.00212049	520	520
SKAP2	0.14461368	0.000942458	0.00212285	520	520
SOX18	0.144509975	0.000950555	0.00214085	520	520
DUSP18	0.144502584	0.000951134	0.00214191	520	520
BAGE2	0.144438423	0.000956178	0.00215212	520	459
MRGPRE	0.144438144	0.0009562	0.00215212	520	146
ZMPSTE24	0.144411345	0.000958314	0.00215664	520	520
WRN	0.144390714	0.000959945	0.00215982	520	520
PAIP1	0.144279171	0.000968805	0.00217806	520	520
CLEC3B	0.144226203	0.000973039	0.00218733	520	520
SOCS4	0.144175521	0.000977106	0.00219598	520	520
UST	0.144127329	0.000980987	0.00220348	520	520
CD36	0.14403818	0.000988206	0.0022192	520	520
EMR3	0.1440212	0.000989586	0.00222205	520	494
ISPD	0.143942013	0.000996047	0.00223606	520	520
SERINC5	0.143939194	0.000996278	0.00223633	520	520
HLA-DQB1	0.143919776	0.000997868	0.0022394	520	520
C17orf70	0.143878272	0.001001276	0.0022468	520	520
ADIPOQ	0.143842519	0.00100422	0.0022529	520	199
PI4K2A	0.143836534	0.001004714	0.00225351	520	520
KLK2	0.14382055	0.001006033	0.00225622	520	342
KIAA0748	0.143789797	0.001008576	0.00226142	520	517
LOC728875	0.143782121	0.001009212	0.00226259	520	520
WAPAL	0.143712354	0.001015006	0.00227482	520	520
ATP13A3	0.143705634	0.001015566	0.00227582	520	520
ZNF828	0.143701937	0.001015874	0.00227626	520	520
KIAA1632	0.143669362	0.001018592	0.0022821	520	520
TGM4	0.143661147	0.001019279	0.00228338	520	507
SNX13	0.143595029	0.00102482	0.00229478	520	520
VIPAR	0.143516446	0.001031442	0.00230909	520	520
TIGD4	0.143503488	0.001032538	0.00231103	520	488
GVIN1	0.143462867	0.001035979	0.00231822	520	516
ZFP36L1	0.143387278	0.001042412	0.00233132	520	520
ZBTB1	0.143378859	0.001043131	0.00233241	520	520

STRN	0.143347282	0.001045831	0.00233819	520	520
ROPN1L	0.143315454	0.001048559	0.00234403	520	493
CRIP2	0.143307608	0.001049232	0.00234527	520	520
SCD5	0.14327556	0.001051987	0.00235091	520	520
ZNF548	0.143251876	0.001054028	0.00235521	520	520
NCRNA00094	0.143219415	0.00105683	0.00236043	520	520
FOXK1	0.143181352	0.001060125	0.00236752	520	520
UGT3A2	0.143139865	0.001063727	0.00237451	520	423
NCS1	0.143091009	0.001067983	0.00238322	520	520
ZNF267	0.143081976	0.001068771	0.00238472	520	520
PF4	0.143032548	0.001073096	0.00239384	520	227
MEP1A	0.143014692	0.001074663	0.0023968	520	471
BIVM	0.143012851	0.001074824	0.0023969	520	520
LOC100128239	0.142994807	0.001076409	0.0023999	520	492
ZNF318	0.14287266	0.001087197	0.00242342	520	520
TIMD4	0.142865203	0.001087859	0.00242463	520	395
DPF2	0.142826498	0.0010913	0.00243203	520	520
DIAPH2	0.142810102	0.001092761	0.00243474	520	520
HSP90AB1	0.142802462	0.001093442	0.00243599	520	520
MOGS	0.142799793	0.00109368	0.00243625	520	520
LARGE	0.142727595	0.001100138	0.00244983	520	520
RSPO4	0.142675733	0.001104799	0.00245894	520	471
R3HDM1	0.14266814	0.001105483	0.00245983	520	520
NKX2-5	0.142645464	0.001107528	0.00246383	520	448
LRTM1	0.142546108	0.001116529	0.00248331	520	198
NPC1	0.142532954	0.001117725	0.0024857	520	520
ACVR2B	0.142479685	0.001122583	0.0024954	520	520
SIK1	0.142468086	0.001123644	0.00249721	520	520
CTSG	0.142370143	0.001132635	0.00251663	520	513
C7orf63	0.142365449	0.001133067	0.00251732	520	520
ANKLE2	0.142278915	0.001141069	0.00253426	520	520
ARL3	0.142243263	0.001144381	0.00254133	520	520
SPEN	0.142236603	0.001145001	0.00254243	520	520
GOLPH3	0.142198254	0.001148575	0.00255008	520	520
RBM12	0.142190352	0.001149312	0.00255144	520	520
USP42	0.142186088	0.001149711	0.00255199	520	520
ARMC4	0.142146573	0.001153407	0.00255969	520	390
GDF1	0.142140975	0.001153932	0.00256057	520	407
FAM159A	0.142134416	0.001154547	0.00256165	520	509
PRKCQ	0.142089522	0.001158764	0.00257013	520	520
GNG10	0.142072916	0.001160328	0.00257228	520	520
NPAS4	0.142058579	0.001161679	0.00257436	520	360
EXOC5	0.14201036	0.001166235	0.00258417	520	520
PIAS3	0.14195004	0.001171957	0.00259628	520	520
CHRNA3	0.141890784	0.001177604	0.00260793	520	513
BRD4	0.141826979	0.001183712	0.00262059	520	520

PPIC	0.14181765	0.001184608	0.00262229	520	520
SLC5A4	0.14178829	0.00118743	0.00262825	520	424
HOTAIR	0.14176167	0.001189994	0.00263306	520	472
SNTA1	0.141697667	0.001196181	0.00264558	520	520
ZNF470	0.141672692	0.001198603	0.00265065	520	519
HPS3	0.141578067	0.001207821	0.00266945	520	520
RNF112	0.141538857	0.001211659	0.00267718	520	516
TAS2R31	0.141523527	0.001213163	0.00267991	520	365
ZNF614	0.141520382	0.001213472	0.0026803	520	520
EVL	0.141489692	0.001216489	0.00268667	520	520
CXXC4	0.141475448	0.001217891	0.00268947	520	323
ACP5	0.141419426	0.001223421	0.00270109	520	520
HIAT1	0.141400361	0.001225308	0.00270496	520	520
CFL1	0.14133185	0.001232112	0.00271876	520	520
PTPN23	0.141276202	0.001237665	0.00272925	520	520
LEFTY2	0.141272987	0.001237986	0.00272966	520	287
MS4A2	0.141246954	0.001240592	0.00273505	520	510
EIF3C	0.141245876	0.0012407	0.00273505	520	515
LOC641298	0.141208636	0.001244437	0.00274239	520	513
ABCG1	0.141192761	0.001246033	0.0027456	520	520
CNTN1	0.141081735	0.001257249	0.00276911	520	517
RLF	0.141068661	0.001258576	0.00277173	520	520
CHRNA7	0.141028243	0.001262686	0.00277956	520	471
RERGL	0.141024446	0.001263072	0.00278011	520	376
C15orf57	0.141020341	0.001263491	0.00278073	520	520
ERBB4	0.140992725	0.001266307	0.00278662	520	403
MYT1	0.140983743	0.001267225	0.00278834	520	451
RAB34	0.140931558	0.001272567	0.00279948	520	520
TAGLN3	0.14091041	0.001274738	0.00280395	520	481
SLC36A2	0.140907895	0.001274997	0.00280421	520	298
C2orf70	0.140873689	0.001278516	0.00281103	520	335
TRIML2	0.140872016	0.001278688	0.00281111	520	436
DYM	0.140835084	0.001282498	0.00281887	520	520
NUMB	0.140803194	0.001285797	0.00282581	520	520
ARHGAP15	0.140786927	0.001287482	0.00282921	520	520
SFRP1	0.140719178	0.001294524	0.00284282	520	520
GPR1	0.140546077	0.001312678	0.0028808	520	518
C5orf32	0.140432776	0.001324686	0.00290513	520	520
MEGF6	0.140412992	0.001326793	0.00290925	520	520
ELF1	0.140377757	0.001330554	0.00291718	520	520
ZDHHC1	0.140281711	0.001340855	0.00293912	520	520
TMC7	0.140222761	0.001347213	0.00295178	520	520
BOP1	0.140182158	0.001351609	0.00296012	520	520
ARHGEF18	0.14016634	0.001353325	0.00296356	520	520
IL1RAP	0.140126968	0.001357605	0.00297228	520	520
MKLN1	0.140122351	0.001358107	0.00297306	520	520

ADCY6	0.140104456	0.001360057	0.00297701	520	520
FAM106A	0.140099106	0.001360641	0.00297796	520	354
CDK2AP1	0.140018925	0.001369414	0.00299586	520	520
GOLGA4	0.13999211	0.001372359	0.00300133	520	520
OR2B11	0.139982936	0.001373368	0.00300321	520	139
ZNF229	0.13996172	0.001375704	0.00300734	520	514
ZFP2	0.139951342	0.001376848	0.00300951	520	512
NTF3	0.139913343	0.001381045	0.00301771	520	505
HLA-DRA	0.139884281	0.001384262	0.00302408	520	520
KIAA1908	0.13986724	0.001386152	0.00302788	520	520
ACTN4	0.139865	0.001386401	0.0030281	520	520
CALR	0.139841496	0.001389011	0.00303347	520	520
LARS2	0.139827663	0.00139055	0.0030365	520	520
ZNF227	0.139802603	0.001393342	0.00304131	520	520
IFT140	0.139801142	0.001393505	0.00304131	520	520
FGF9	0.139774615	0.001396465	0.00304678	520	466
APOC4	0.139718664	0.001402729	0.00306011	520	256
ACSL3	0.13970777	0.001403952	0.00306245	520	520
FAM21A	0.139554066	0.001421307	0.00309796	520	514
ACER2	0.139508161	0.001426529	0.00310833	520	517
SYT9	0.139402534	0.00143861	0.0031333	520	306
PPP1R16B	0.139384984	0.001440627	0.00313702	520	520
LRIG2	0.139304396	0.001449919	0.00315691	520	520
MAP4K5	0.139266136	0.00145435	0.00316588	520	520
PRL	0.139225903	0.001459023	0.00317536	520	174
RBM12B	0.139207946	0.001461113	0.00317923	520	520
LOC728989	0.139195897	0.001462517	0.00318159	520	442
SLC31A2	0.139192576	0.001462904	0.00318209	520	520
LOC221122	0.139186553	0.001463607	0.00318328	520	51
PATL1	0.139110541	0.001472499	0.00320158	520	520
MAF	0.139089532	0.001474965	0.00320637	520	520
TBC1D12	0.139053748	0.001479175	0.00321471	520	520
CCL22	0.139050651	0.001479539	0.00321516	520	520
RNFT1	0.139031874	0.001481753	0.00321962	520	520
OCRL	0.139026344	0.001482406	0.00322069	520	520
CLEC18A	0.138966922	0.001489435	0.0032347	520	519
MT2A	0.138961714	0.001490052	0.00323556	520	520
NIPBL	0.138898798	0.001497531	0.00325075	520	520
OBSCN	0.13886144	0.001501987	0.00326007	520	520
TMEM155	0.138782398	0.001511457	0.00327992	520	494
FOXC1	0.138768391	0.001513141	0.00328287	520	520
TXLNG	0.138761924	0.001513919	0.0032842	520	520
RRAGA	0.138733162	0.001517384	0.00329136	520	520
ZNF41	0.138705839	0.001520682	0.00329816	520	520
C15orf33	0.13868621	0.001523055	0.0033026	520	518
VIPR2	0.138679395	0.00152388	0.00330403	520	468

FIBCD1	0.138673255	0.001524623	0.00330529	520	511
SIX3	0.138665435	0.001525571	0.00330663	520	332
NDST2	0.138644704	0.001528085	0.00331137	520	520
PM20D1	0.138603664	0.001533073	0.00332111	520	365
NPFFR1	0.13858378	0.001535495	0.003326	520	299
SOST	0.138532352	0.001541777	0.00333817	520	493
MIER1	0.138468859	0.001549564	0.00335431	520	520
ZMYND12	0.138439187	0.001553216	0.00336185	520	508
C6	0.138431169	0.001554204	0.00336292	520	241
BTBD1	0.138419412	0.001555654	0.00336515	520	520
ASB18	0.138418712	0.00155574	0.00336515	520	83
EPM2A	0.138379869	0.001560539	0.00337481	520	520
KCNQ1OT1	0.138296919	0.001570834	0.00339598	520	519
GPC3	0.138287033	0.001572065	0.00339828	520	519
TROVE2	0.138244895	0.001577322	0.00340845	520	520
PLEKHA4	0.138227715	0.00157947	0.00341209	520	520
SLC5A3	0.138197479	0.001583257	0.00341954	520	520
LNP1	0.13813501	0.001591108	0.00343539	520	520
CSDE1	0.138093475	0.001596347	0.00344523	520	520
DEGS1	0.138086637	0.001597211	0.00344672	520	520
SMARCAL1	0.13802865	0.001604556	0.0034622	520	520
DNAJC14	0.138018952	0.001605787	0.00346404	520	520
CRAT	0.13801787	0.001605925	0.00346404	520	520
GMFG	0.13797188	0.001611777	0.00347605	520	520
MMP21	0.137833049	0.001629561	0.0035124	520	208
CCK	0.137830745	0.001629858	0.00351266	520	372
PCDHB17	0.137810858	0.00163242	0.00351781	520	472
STXBP4	0.137806177	0.001633024	0.00351873	520	520
ARID3A	0.137804111	0.001633291	0.00351893	520	520
TNKS2	0.137801313	0.001633652	0.00351933	520	520
AP3B1	0.137786501	0.001635564	0.00352308	520	520
NRAS	0.137769303	0.001637787	0.00352749	520	520
CELSR1	0.137731413	0.001642695	0.00353768	520	520
GRB14	0.137722082	0.001643905	0.00353991	520	503
ANLN	0.137695342	0.001647379	0.00354663	520	520
TSHR	0.137604132	0.001659279	0.00357187	520	435
LOC442308	0.13745176	0.001679335	0.00361311	520	420
ITPRIP	0.13744972	0.001679605	0.00361331	520	520
TMCC3	0.137385228	0.001688161	0.00363017	520	520
BAT2L1	0.137372973	0.001689792	0.00363329	520	520
DPH3	0.137329023	0.001695651	0.0036455	520	520
SLC35E3	0.137261469	0.001704693	0.00366298	520	520
TESK1	0.137257993	0.00170516	0.0036636	520	520
ARMCX6	0.13725493	0.001705571	0.00366409	520	519
ZSWIM6	0.13722767	0.001709234	0.00367157	520	520
PCBP4	0.137181535	0.00171545	0.00368453	520	520

C1orf88	0.137162429	0.00171803	0.00368968	520	515
DOK7	0.13714918	0.001719822	0.00369313	520	517
ZNF74	0.137142594	0.001720713	0.00369465	520	520
PMP2	0.137098725	0.001726659	0.00370544	520	399
ASB14	0.137077943	0.001729483	0.00371111	520	519
ATP6AP1	0.137030942	0.001735884	0.00372366	520	520
CCNA1	0.137021146	0.001737221	0.00372613	520	512
SGCZ	0.1369817	0.001742614	0.0037369	520	135
DPEP1	0.136956277	0.001746099	0.00374397	520	481
KCND3	0.136925464	0.00175033	0.00375211	520	513
10-Sep	0.136897908	0.001754122	0.00375878	520	520
DCAF7	0.136805032	0.001766958	0.00378508	520	520
PLD4	0.136797486	0.001768004	0.00378651	520	519
SSX5	0.136632446	0.001791039	0.00383158	520	82
DNAJC13	0.136595195	0.001796276	0.00384217	520	520
C10orf118	0.136506537	0.001808797	0.00386731	520	520
DDX24	0.136491754	0.001810892	0.00387138	520	520
CLASP2	0.136405431	0.001823173	0.00389433	520	520
WDR44	0.136402066	0.001823653	0.00389494	520	520
PCYOX1	0.136381946	0.001826527	0.00390067	520	520
SSR2	0.136352585	0.001830729	0.00390922	520	520
PCDH20	0.136335677	0.001833152	0.00391399	520	429
MECOM	0.13631782	0.001835715	0.00391904	520	520
KPNA6	0.136225574	0.001849006	0.00394596	520	520
TRPC2	0.136219032	0.001849952	0.00394732	520	346
OTOF	0.136217765	0.001850135	0.00394732	520	513
GPBAR1	0.136208057	0.001851539	0.0039499	520	520
CLCF1	0.136132378	0.001862523	0.00397165	520	520
SIN3B	0.136084386	0.001869519	0.00398539	520	520
CCNJ	0.136084089	0.001869562	0.00398539	520	520
C1GALT1	0.136040493	0.001875938	0.00399856	520	520
HUNK	0.136029066	0.001877613	0.00400138	520	520
TMSL3	0.136014555	0.001879742	0.00400498	520	520
ALAS2	0.135976224	0.001885374	0.00401613	520	343
MED15	0.135871935	0.001900779	0.00404681	520	520
RD3	0.135708402	0.001925167	0.00409657	520	332
EPC1	0.135694671	0.001927227	0.00410052	520	520
SEMA3E	0.135672209	0.001930603	0.00410683	520	377
KIAA1704	0.135650846	0.001933818	0.00411324	520	520
LOC285830	0.135606422	0.001940519	0.00412706	520	520
PROK2	0.135559509	0.00194762	0.00414128	520	469
SUN1	0.135483496	0.001959175	0.00416498	520	520
NFIX	0.135474655	0.001960523	0.00416696	520	520
SOS1	0.135467115	0.001961673	0.00416853	520	520
DGCR2	0.135448423	0.001964527	0.00417415	520	520
OLIG2	0.135443332	0.001965305	0.00417537	520	283

SLC37A2	0.135431044	0.001967185	0.00417892	520	520
TANK	0.135383415	0.001974484	0.00419266	520	520
FAM134A	0.135348762	0.00197981	0.00420308	520	520
CAPZB	0.135274778	0.001991226	0.00422598	520	520
ATG4C	0.135184866	0.00200518	0.00425426	520	520
HLA-DPB2	0.135181925	0.002005638	0.00425461	520	486
MATK	0.135176777	0.00200644	0.00425559	520	520
TNKS	0.135135498	0.002012881	0.00426835	520	520
CEP97	0.135092571	0.002019598	0.00428169	520	520
VPS26B	0.135089071	0.002020147	0.0042824	520	520
CEP135	0.135053687	0.0020257	0.00429328	520	520
TMEM185B	0.13503888	0.002028028	0.00429731	520	520
DPPA2	0.135027916	0.002029754	0.00430051	520	168
IFIT2	0.135017265	0.002031432	0.00430361	520	520
KIAA0494	0.135014648	0.002031844	0.00430403	520	520
PPP2R5B	0.134994955	0.00203495	0.00430971	520	520
SRRD	0.134968401	0.002039144	0.00431814	520	520
PHF2	0.134954038	0.002041416	0.00432204	520	520
SLC9A1	0.134949248	0.002042174	0.00432319	520	520
HPGDS	0.134942647	0.00204322	0.0043245	520	517
YIF1A	0.134934138	0.002044568	0.0043269	520	520
SLC39A9	0.134863806	0.002055743	0.00434886	520	520
EIF2C4	0.134831617	0.002060876	0.00435912	520	520
C22orf34	0.134813734	0.002063733	0.00436425	520	405
CACNA1A	0.134725942	0.00207781	0.00439264	520	518
ATCAY	0.134638525	0.002091915	0.00442106	520	288
PFN2	0.134629304	0.002093408	0.00442376	520	520
RBL2	0.134572037	0.002102701	0.00444246	520	520
GNB3	0.134465694	0.002120059	0.00447679	520	513
C14orf50	0.134463333	0.002120446	0.00447714	520	515
PDE8A	0.134446903	0.00212314	0.00448142	520	520
CHST7	0.134442386	0.002123881	0.00448251	520	520
SUMO4	0.134425575	0.002126641	0.00448787	520	444
KLF6	0.134324154	0.002143365	0.00452127	520	520
CFHR3	0.134284664	0.002149909	0.0045346	520	483
MUL1	0.134272202	0.002151978	0.00453849	520	520
APOBEC3C	0.134267406	0.002152775	0.00453969	520	520
ZNF236	0.134227661	0.002159387	0.00455316	520	520
PPM1E	0.134143257	0.002173492	0.00458146	520	515
HOXA11	0.134140387	0.002173973	0.004582	520	507
KLHDC8A	0.13407775	0.002184497	0.00460322	520	511
AGFG1	0.134071142	0.00218561	0.0046046	520	520
NR4A1	0.134055611	0.002188228	0.00460963	520	520
C2orf88	0.134034474	0.002191795	0.00461667	520	519
CASKIN2	0.134025437	0.002193322	0.0046194	520	520
ZNF143	0.133998812	0.002197826	0.0046284	520	520

C17orf47	0.133960653	0.002204296	0.00464009	520	409
TMEM135	0.133933004	0.002208995	0.00464901	520	520
C6orf105	0.133918565	0.002211452	0.00465273	520	519
DRD5	0.133888504	0.002216576	0.00466253	520	447
GADD45G	0.133847467	0.002223589	0.00467631	520	520
EPST11	0.133781743	0.002234863	0.00469757	520	520
TUG1	0.133769396	0.002236987	0.00470154	520	520
BCL8	0.133764131	0.002237893	0.00470296	520	444
RYR3	0.133759197	0.002238742	0.00470425	520	519
ADRA2C	0.133738797	0.002242258	0.00471115	520	520
F3	0.133737019	0.002242564	0.00471113	520	520
UBR4	0.133715603	0.002246261	0.0047171	520	520
ZNF526	0.133623854	0.00226216	0.004749	520	520
DNER	0.133600731	0.002266183	0.00475695	520	516
MTSS1	0.133559961	0.002273292	0.00477039	520	520
SLC6A11	0.133555334	0.0022741	0.00477109	520	499
CRTC1	0.133398327	0.002301678	0.00482493	520	520
CAMK2D	0.133350738	0.002310098	0.00484158	520	520
SLC35E2	0.133341843	0.002311674	0.00484387	520	520
DDX19B	0.133333156	0.002313215	0.0048466	520	520
MED23	0.13328523	0.002321733	0.00486343	520	520
TDRD1	0.133283464	0.002322047	0.00486359	520	437
PABPC3	0.133217573	0.002333806	0.00488669	520	520
DYNC1LI1	0.13315683	0.002344694	0.00490847	520	520
IL27	0.13314264	0.002347244	0.00491279	520	403
GALNT9	0.133093431	0.002356108	0.00493032	520	370
LOC100129550	0.133047658	0.00236438	0.00494609	520	520
CALN1	0.133026114	0.002368282	0.00495374	520	400
PTAFR	0.133009478	0.0023713	0.00495954	520	520
KIAA0562	0.132982134	0.002376267	0.00496889	520	520
EIF2C1	0.132968032	0.002378832	0.00497374	520	520
PRKRIR	0.132913377	0.0023888	0.00499355	520	520
TMEM123	0.132890527	0.002392978	0.00500174	520	520
CORO7	0.132889233	0.002393215	0.00500174	520	520
CAND1	0.132861386	0.002398316	0.0050118	520	520
SAR1A	0.132853197	0.002399818	0.00501398	520	520
UBE2Q2	0.132811177	0.002407539	0.00502959	520	520
GATSL2	0.132799258	0.002409734	0.00503365	520	389
ITPKB	0.132772865	0.002414599	0.0050423	520	520
KALRN	0.132772327	0.002414698	0.0050423	520	520
GJC2	0.132771377	0.002414874	0.0050423	520	520
WDR63	0.132746045	0.002419552	0.00505102	520	501
SIPA1L3	0.132712144	0.002425826	0.00506307	520	520
HCG11	0.132709179	0.002426376	0.00506369	520	520
RALGAPA2	0.132676575	0.002432425	0.00507422	520	520
CISH	0.132673471	0.002433002	0.0050749	520	520

KCNH3	0.13261555	0.002443785	0.00509634	520	518
PTP4A1	0.132589789	0.002448595	0.00510584	520	520
KCTD8	0.132552854	0.002455506	0.00511972	520	239
VPS39	0.13255021	0.002456002	0.00512023	520	520
IPO9	0.132467166	0.002471609	0.0051517	520	520
CSDAP1	0.13240684	0.002483004	0.00517491	520	520
DKK1	0.132398991	0.00248449	0.00517748	520	516
PLXNB2	0.132361254	0.002491646	0.00519131	520	520
PPP4R1L	0.132247706	0.002513291	0.00523533	520	520
WIZ	0.132193525	0.00252368	0.00525643	520	520
FAM45B	0.132061766	0.002549107	0.00530774	520	520
KIAA0586	0.132056616	0.002550105	0.00530927	520	520
PRKG2	0.132047662	0.002551843	0.00531148	520	512
ZC3H10	0.132017018	0.002557796	0.00532309	520	520
ZNF407	0.131994039	0.002562268	0.00533129	520	520
CGGBP1	0.131971457	0.00256667	0.00533853	520	520
ZNF451	0.131970773	0.002566803	0.00533853	520	520
AQPEP	0.131933727	0.00257404	0.00535192	520	507
WNT6	0.131888255	0.002582948	0.00536712	520	517
OTUD4	0.131882371	0.002584103	0.00536897	520	520
HLA-DRB1	0.131856272	0.002589231	0.00537907	520	520
ERBB2IP	0.131804496	0.00259943	0.00539801	520	520
LIX1	0.131774321	0.002605392	0.0054093	520	355
CMAH	0.131648731	0.002630337	0.0054594	520	520
CLEC4C	0.131641932	0.002631694	0.00546166	520	327
GXYLT1	0.131637514	0.002632576	0.00546293	520	520
MXD4	0.131616772	0.00263672	0.0054704	520	520
TCF3	0.13149857	0.002660449	0.00551736	520	520
SHISA6	0.131468234	0.00266657	0.00552835	520	356
DIAPH3	0.131450282	0.002670199	0.0055353	520	520
ZNF599	0.131343408	0.002691893	0.00557682	520	520
SYT1	0.131288993	0.002703001	0.00559812	520	513
PTP4A2	0.131246485	0.002711706	0.005615	520	520
UCN2	0.131221572	0.002716821	0.00562501	520	520
MYST2	0.131191759	0.002722952	0.00563713	520	520
KCNJ12	0.131173312	0.002726753	0.00564326	520	520
FGF13	0.131128602	0.002735983	0.0056612	520	517
TTLL1	0.131051743	0.002751919	0.00569183	520	520
GRIK4	0.131043584	0.002753615	0.00569476	520	463
KCNE1	0.131032685	0.002755883	0.0056979	520	503
LRRFIP1	0.131032213	0.002755981	0.0056979	520	520
ZNF675	0.130938182	0.002775617	0.00573673	520	520
LRIG3	0.130827448	0.002798905	0.00578309	520	520
OVCH2	0.130790746	0.002806663	0.00579674	520	263
DIDO1	0.130775762	0.002809836	0.0058021	520	520
CTTNBP2	0.130720487	0.002821569	0.00582394	520	510

WWP1	0.130683703	0.002829401	0.00583951	520	520
PHACTR3	0.130603203	0.002846611	0.00587383	520	508
PATZ1	0.1305679	0.002854188	0.00588826	520	520
SPATS2	0.130486811	0.002871663	0.0059237	520	520
ADCY3	0.130435086	0.00288286	0.00594619	520	520
GHDC	0.130426617	0.002884697	0.00594937	520	520
ZDHC22	0.130367475	0.002897557	0.00597345	520	296
SCARB1	0.130360168	0.002899149	0.00597612	520	520
SLC43A3	0.130327921	0.002906186	0.00599002	520	520
DHX40	0.130282679	0.002916085	0.00600919	520	520
SLC4A8	0.130273006	0.002918205	0.00601295	520	519
OS9	0.130263557	0.002920278	0.0060166	520	520
TCTA	0.130257903	0.002921519	0.00601854	520	520
AHCYL1	0.130210651	0.002931908	0.00603871	520	520
C19orf10	0.13010093	0.002956161	0.00608501	520	520
MPP6	0.130100773	0.002956196	0.00608501	520	520
DCAF17	0.13004789	0.002967951	0.00610733	520	520
KIF19	0.13004622	0.002968322	0.0061074	520	513
TRMT12	0.130045033	0.002968587	0.0061074	520	520
GATA1	0.130013203	0.002975684	0.00612075	520	419
MGC16384	0.129944725	0.002991004	0.00615038	520	472
SLFN12L	0.129942314	0.002991545	0.00615086	520	518
STAG1	0.129812529	0.003020784	0.00620908	520	520
WNT9A	0.129780521	0.003028035	0.00622335	520	520
KIAA1147	0.129768059	0.003030862	0.00622853	520	520
MAMLD1	0.129740034	0.003037229	0.00624034	520	520
FREM1	0.129731303	0.003039215	0.00624378	520	508
PLK1S1	0.129661037	0.003055241	0.00627607	520	520
CA5B	0.12956344	0.003077629	0.00632013	520	520
SMARCB1	0.129524034	0.003086711	0.00633748	520	520
HERC2	0.129507879	0.003090441	0.00634438	520	520
PCDHA11	0.129506762	0.003090699	0.00634438	520	228
KIAA1432	0.129361392	0.003124452	0.00641106	520	520
OVCH1	0.12932051	0.003134004	0.00642935	520	199
CCL8	0.129289587	0.003141247	0.00644326	520	518
FAM98A	0.12922812	0.003155689	0.00647186	520	520
CGREF1	0.129207893	0.003160455	0.00648032	520	520
KCNB2	0.129043319	0.003199475	0.00655432	520	355
TLE2	0.12901418	0.003206429	0.00656724	520	520
RFPL4B	0.12898536	0.003213321	0.00658001	520	230
KIAA1267	0.128961914	0.003218937	0.00659085	520	520
TCTEX1D4	0.12894216	0.003223676	0.00659988	520	480
SETD3	0.128901189	0.003233525	0.0066187	520	520
CDK13	0.128873357	0.003240231	0.00663175	520	520
XKR5	0.12887093	0.003240817	0.00663228	520	428
CPA4	0.12879121	0.003260098	0.00666835	520	520

BPTF	0.128762037	0.00326718	0.00668216	520	520
LRTM2	0.128748582	0.003270452	0.00668817	520	251
SVIL	0.12872354	0.003276548	0.00669996	520	520
B4GALT3	0.128702381	0.003281706	0.00670983	520	520
CHD1L	0.128694817	0.003283552	0.00671292	520	520
ANKRD58	0.128673016	0.003288878	0.00672313	520	519
ZBTB26	0.128661314	0.00329174	0.00672693	520	520
RUNX3	0.128630882	0.003299193	0.00674148	520	520
EP400	0.128552662	0.00331842	0.00677733	520	520
PAQR3	0.128543112	0.003320774	0.00678146	520	520
VPRBP	0.128521714	0.003326055	0.00679031	520	520
SAMD8	0.128521446	0.003326122	0.00679031	520	520
STAT2	0.128469955	0.003338861	0.00681563	520	520
SP2	0.128377328	0.003361889	0.00685916	520	520
CCR5	0.12831243	0.003378109	0.00689017	520	520
SPRY3	0.128288104	0.003384207	0.00690191	520	520
UNC13A	0.128259624	0.003391359	0.00691579	520	512
FAM69C	0.128224208	0.003400273	0.00693257	520	397
SLC4A4	0.128196219	0.003407332	0.00694556	520	505
LLGL1	0.128162163	0.003415939	0.00696169	520	520
B3GNT2	0.128084464	0.00343565	0.00699904	520	520
SAP130	0.128068373	0.003439745	0.00700667	520	520
SLC35A2	0.128000365	0.003457101	0.00703847	520	520
C1orf129	0.127995593	0.003458322	0.00704024	520	220
EMID1	0.127949238	0.003470202	0.007063	520	520
CRLS1	0.127923348	0.003476853	0.00707441	520	520
TNFRSF8	0.1278816	0.003487602	0.00709484	520	520
C16orf52	0.127760136	0.003519048	0.00715375	520	520
ANKRD28	0.127741326	0.00352394	0.00716298	520	520
TMEM86A	0.12773888	0.003524577	0.00716355	520	520
ZBED4	0.127724606	0.003528295	0.00717038	520	520
PPP2R5E	0.127582581	0.003565478	0.00724376	520	520
C5orf49	0.12755004	0.003574048	0.00726044	520	405
ACCN2	0.127496343	0.003588229	0.00728631	520	520
ZC3H18	0.127385466	0.003617674	0.00734093	520	520
LOC441177	0.127370904	0.003621557	0.00734807	520	125
RHOH	0.127328152	0.00363298	0.00736902	520	520
KIAA0430	0.127319473	0.003635303	0.00737299	520	520
SMARCAD1	0.127298397	0.003640949	0.0073837	520	520
UNC80	0.12726099	0.003650991	0.00740183	520	434
PKD1L3	0.12711941	0.003689224	0.00747608	520	306
LOC121952	0.127107025	0.003692585	0.00748164	520	361
SNCAIP	0.127100911	0.003694246	0.00748425	520	519
GBX2	0.12709544	0.003695732	0.00748651	520	488
ZNF560	0.126982387	0.003726571	0.00754595	520	231
NCK2	0.126894984	0.003750573	0.00759074	520	520

KIF2A	0.126882434	0.003754031	0.00759621	520	520
C7orf69	0.126663873	0.003814714	0.00771204	520	201
FAM180B	0.126660653	0.003815615	0.00771309	520	298
RAB40A	0.126646212	0.003819657	0.00771978	520	491
MAML1	0.12664609	0.003819691	0.00771978	520	520
FLNB	0.126619138	0.003827244	0.00773272	520	520
HLA-DQA2	0.12661502	0.003828399	0.00773351	520	520
RSC1A1	0.126543114	0.003848623	0.00777358	520	520
FAIM2	0.126494886	0.003862242	0.00779952	520	513
RNLS	0.126425934	0.003881788	0.00783664	520	520
MARK4	0.126410496	0.003886176	0.00784393	520	520
AGPS	0.126394919	0.003890609	0.00785209	520	520
VAC14	0.126390225	0.003891946	0.007854	520	520
TMEM38A	0.126316388	0.003913026	0.00789338	520	520
ADSL	0.126222832	0.003939884	0.00794518	520	520
FAM3C	0.126184001	0.003951081	0.00796537	520	520
SLC26A7	0.126134267	0.003965463	0.00799196	520	423
CRLF2	0.126127591	0.003967397	0.00799415	520	384
DDOST	0.126118141	0.003970137	0.00799819	520	520
INTS2	0.126057754	0.003987682	0.00803193	520	520
ZNF516	0.12603643	0.003993895	0.00804127	520	520
DMPK	0.126035858	0.003994062	0.00804127	520	520
PCDHA12	0.126034995	0.003994313	0.00804127	520	192
HAR1B	0.125981836	0.00400984	0.0080693	520	447
CXorf57	0.125975701	0.004011636	0.00807211	520	518
KIAA0802	0.125966133	0.004014437	0.00807533	520	520
ITIH5	0.125924559	0.004026631	0.00809824	520	520
TTC9C	0.12589395	0.00403563	0.00811553	520	520
PTPN22	0.125751776	0.004077669	0.00819517	520	520
GCNT4	0.125739032	0.004081456	0.00820196	520	519
MAGEC3	0.125654588	0.004106634	0.00824845	520	99
CASP14	0.12562252	0.004116231	0.0082669	520	465
THOC5	0.125584455	0.004127651	0.00828901	520	520
DPP6	0.125576544	0.004130027	0.00829296	520	388
SOCS7	0.125538237	0.004141554	0.00831527	520	520
FAM35B2	0.125530481	0.004143892	0.00831914	520	520
POT1	0.125510007	0.004150067	0.00832988	520	520
NKAIN2	0.125474349	0.004160843	0.00834901	520	505
MMGT1	0.125468618	0.004162577	0.00835166	520	520
CEP68	0.125429881	0.004174317	0.00837355	520	520
DHX37	0.125398298	0.00418391	0.00839034	520	520
PLEKHM2	0.125365267	0.004193965	0.00840643	520	520
ESF1	0.125254557	0.004227824	0.00847161	520	520
CAND2	0.125243926	0.004231089	0.00847731	520	520
AVL9	0.125187072	0.004248585	0.00850899	520	520
VSTM2L	0.125090583	0.004278428	0.00856705	520	517

CTNS	0.125035751	0.004295472	0.00859947	520	520
LPHN3	0.125012567	0.004302697	0.00861223	520	515
SCAMP4	0.125004709	0.004305148	0.00861628	520	520
MAGEA4	0.124936443	0.004326496	0.00865729	520	419
MMP23A	0.12492786	0.004329187	0.00866095	520	69
COL19A1	0.124912012	0.00433416	0.00867004	520	394
KC6	0.124883511	0.004343115	0.00868623	520	367
CDC73	0.124866207	0.004348561	0.00869626	520	520
TNF	0.124821128	0.004362776	0.00872209	520	520
CXCL2	0.124807753	0.004367001	0.00872967	520	520
LRRC6	0.124751579	0.004384789	0.00876436	520	517
NCRNA00085	0.12470539	0.004399464	0.00879282	520	520
GORASP1	0.124700931	0.004400883	0.00879479	520	520
IFIT5	0.12466246	0.004413144	0.00881842	520	520
SERPINA9	0.124656081	0.004415179	0.00882161	520	436
GNA14	0.124575122	0.004441092	0.0088725	520	517
FBXL13	0.124556162	0.00444718	0.00888379	520	515
NCRNA00119	0.124544152	0.004451041	0.00889062	520	399
IGF2BP3	0.124432305	0.004487139	0.00895828	520	520
GPR146	0.124341666	0.004516586	0.0090144	520	520
CSMD3	0.124311817	0.004526321	0.00903188	520	363
TMEM45A	0.124310693	0.004526688	0.00903188	520	520
NSMAF	0.124254154	0.004545182	0.00906609	520	520
NPFFR2	0.124244817	0.004548243	0.00907129	520	229
DCP1B	0.124229996	0.004553105	0.00908009	520	520
CDC42EP2	0.124176348	0.004570744	0.00911347	520	520
ZNF441	0.124153813	0.004578172	0.00912647	520	519
MPPED2	0.124134087	0.004584683	0.00913855	520	498
FAM89B	0.124078426	0.0046031	0.00917344	520	520
ZNF28	0.123968943	0.00463952	0.00924237	520	520
LDB1	0.123964959	0.00464085	0.00924411	520	520
LUZP6	0.123933213	0.004651462	0.0092625	520	520
IGFN1	0.123927209	0.004653471	0.00926559	520	489
FBXL12	0.123783279	0.004701877	0.00935458	520	520
LAPTM4B	0.123749491	0.004713306	0.00937547	520	520
ITPR3	0.123676134	0.004738206	0.00942221	520	520
PTCH2	0.123624347	0.004755856	0.00945358	520	515
DKFZP434L187	0.123616912	0.004758395	0.00945769	520	179
RNF19A	0.123576627	0.004772172	0.00947947	520	520
RIMBP3C	0.123574052	0.004773055	0.00947948	520	502
SFRS2IP	0.123565769	0.004775892	0.00948405	520	520
GABRA5	0.123554452	0.004779772	0.00948896	520	208
ZNF717	0.123547578	0.00478213	0.0094927	520	497
KLHL28	0.123532514	0.0047873	0.00950109	520	520
TSPAN15	0.123530608	0.004787955	0.00950146	520	520
RAP1B	0.123528362	0.004788726	0.00950205	520	520

EAF1	0.123512891	0.004794043	0.00951073	520	520
GBA	0.123478657	0.004805828	0.00953317	520	520
SETD2	0.123476375	0.004806615	0.0095338	520	520
TASP1	0.123442429	0.004818328	0.00955609	520	520
ZNF709	0.123440933	0.004818845	0.00955617	520	517
SLC25A20	0.123432358	0.004821808	0.00956111	520	520
SMCR7L	0.123325096	0.004859013	0.00963299	520	520
LOC84989	0.123317863	0.004861531	0.00963662	520	518
YKT6	0.123281133	0.004874336	0.00965862	520	520
LOC100286844	0.123272799	0.004877246	0.00966344	520	518
CITED2	0.123252553	0.004884322	0.0096765	520	520
SMAD6	0.123227001	0.004893264	0.00969041	520	520
NEK4	0.123156897	0.004917876	0.00973533	520	520
ATF1	0.123138372	0.004924398	0.00974728	520	520
TANC1	0.123113791	0.004933064	0.00976348	520	520
TMED9	0.12306241	0.004951223	0.00979749	520	520
FAM175A	0.122996806	0.004974497	0.00984258	520	520
SASH3	0.122993277	0.004975752	0.0098441	520	520
LOC283922	0.122991773	0.004976287	0.00984419	520	520
SERPINA11	0.122983923	0.004979079	0.00984875	520	388
ZNF264	0.122977718	0.004981288	0.00985215	520	520
C22orf13	0.122954669	0.004989498	0.00986742	520	520
RABL5	0.122937214	0.004995724	0.00987683	520	520
RUNDC3B	0.122914792	0.005003732	0.00989072	520	519
TXNDC3	0.122862603	0.005022415	0.00992668	520	444
PPFIA4	0.122854188	0.005025434	0.00993167	520	519
GPR75	0.122793956	0.005047087	0.00997349	520	513
FLJ34503	0.122745127	0.005064702	0.01000392	520	176
KITLG	0.122738427	0.005067123	0.0100072	520	520
MEX3D	0.122718091	0.005074479	0.01001904	520	520
SUN3	0.122717732	0.005074609	0.01001904	520	421
GPR172A	0.122708043	0.005078117	0.01002498	520	520
SLC2A7	0.122614325	0.005112163	0.01008725	520	206
SNX6	0.122588852	0.005121452	0.01010459	520	520
FAM22D	0.122587231	0.005122044	0.01010477	520	520
LOC728855	0.122550356	0.005135519	0.01012938	520	520
C1orf55	0.122443619	0.005174705	0.01020467	520	520
PRRT2	0.122417434	0.005184359	0.01022271	520	518
FITM1	0.122367175	0.005202935	0.01025733	520	519
SLC6A2	0.122343783	0.005211601	0.0102714	520	509
ERVFRDE1	0.122334661	0.005214984	0.01027707	520	354
MLL3	0.122319762	0.005220514	0.01028595	520	520
HPS4	0.122314836	0.005222343	0.01028855	520	520
MORF4L1	0.122288637	0.005232083	0.01030673	520	520
CTDSPL2	0.122267832	0.005239829	0.01031796	520	520
NETO2	0.122246798	0.005247671	0.01033138	520	520

ITFG3	0.122241931	0.005249486	0.01033395	520	520
PPP1R2P3	0.122231081	0.005253537	0.01034091	520	520
GALNTL4	0.122181735	0.005271994	0.01037623	520	520
MATN1	0.122098267	0.005303346	0.01043285	520	462
IRX1	0.12209826	0.005303349	0.01043285	520	462
PTPDC1	0.122085308	0.005308229	0.01044041	520	520
GNG12	0.122042534	0.005324374	0.01047013	520	520
CCL4L2	0.122027961	0.005329885	0.01047994	520	520
CNST	0.121995296	0.005342255	0.01049915	520	520
ARAP1	0.121964213	0.005354051	0.01051823	520	520
ZNF286B	0.12194259	0.005362271	0.01053307	520	520
LGR6	0.121941591	0.005362651	0.01053307	520	519
KLRG1	0.121937407	0.005364243	0.01053517	520	517
FAM113B	0.121922878	0.005369773	0.01054501	520	520
FAM57B	0.121869412	0.005390172	0.01058197	520	467
C11orf75	0.121794603	0.00541883	0.01063409	520	520
NYNRIN	0.121759519	0.005432318	0.01065929	520	520
ZP4	0.12173897	0.005440231	0.01067194	520	276
SPESP1	0.121664162	0.005469129	0.01072445	520	511
RNF168	0.12164533	0.005476425	0.01073771	520	520
MAP2	0.121641508	0.005477907	0.01073853	520	520
KY	0.121630737	0.005482085	0.01074463	520	496
KCNA4	0.121627604	0.005483301	0.01074597	520	174
C14orf174	0.121620206	0.005486173	0.01075055	520	518
BTN3A3	0.121609221	0.00549044	0.01075787	520	520
FBXO7	0.12160608	0.00549166	0.01075921	520	520
PHC3	0.121573826	0.005504209	0.01078275	520	520
USP32	0.121570306	0.005505579	0.01078439	520	520
MYO16	0.121519411	0.005525437	0.01082118	520	495
CPNE4	0.121506825	0.005530357	0.01082872	520	344
DEPDC7	0.121477866	0.005541694	0.0108467	520	520
LMTK2	0.121447487	0.005553609	0.01086791	520	520
ATP2B4	0.121406611	0.005569677	0.0108983	520	520
GIGYF2	0.121371923	0.005583346	0.01091975	520	520
GNGT2	0.121350483	0.005591809	0.01093524	520	520
UBL4B	0.121339771	0.005596042	0.01094245	520	432
GMCL1	0.121281017	0.00561931	0.01098317	520	520
FAM5C	0.121280314	0.005619589	0.01098317	520	224
UCHL1	0.121264189	0.00562599	0.01099462	520	520
CCL14	0.121245352	0.005633476	0.01100818	520	516
NPY1R	0.121186983	0.00565673	0.01105255	520	440
STS	0.121173212	0.005662229	0.01106222	520	520
CCDC74B	0.121171668	0.005662846	0.01106236	520	519
TSC22D2	0.121166095	0.005665073	0.01106563	520	520
MGLL	0.121161993	0.005666713	0.01106669	520	520
NPHP3	0.121156751	0.005668809	0.01106971	520	520

C15orf32	0.121097707	0.005692465	0.01111483	520	110
ABCB5	0.121093166	0.005694288	0.01111731	520	361
LOC283392	0.121077168	0.005700715	0.01112771	520	293
GPAM	0.12107431	0.005701864	0.01112887	520	520
FLJ45983	0.121071308	0.005703071	0.01113015	520	388
KHDRBS3	0.12099003	0.005735835	0.01119193	520	520
NEK10	0.120930824	0.005759808	0.01123762	520	488
POLR2C	0.12091339	0.005766885	0.01125033	520	520
GMFB	0.120889572	0.005776565	0.01126813	520	520
POLG	0.120843417	0.005795365	0.01130262	520	520
FCF1	0.120709537	0.00585021	0.01140627	520	520
LRP5	0.120708148	0.005850781	0.01140628	520	520
FAM193A	0.120701218	0.005853633	0.01141074	520	520
DIO3OS	0.120667437	0.005867553	0.01143345	520	349
KIAA0317	0.120602565	0.005894366	0.01148237	520	520
LOC402377	0.120578884	0.005904182	0.01149927	520	505
C2orf58	0.120545292	0.005918131	0.01152198	520	383
BTN3A2	0.120538992	0.00592075	0.01152486	520	520
PLK3	0.120501549	0.005936339	0.01155297	520	520
DPH1	0.120494957	0.005939088	0.01155721	520	520
RAD51L3	0.120405399	0.005976539	0.01162448	520	520
FADS2	0.120369574	0.00599158	0.01165148	520	520
ZNF510	0.120340049	0.006004002	0.01167001	520	520
MIMT1	0.120321765	0.006011706	0.01168273	520	80
CCDC123	0.120308644	0.006017239	0.01169123	520	520
CCDC122	0.120277384	0.006030442	0.01171463	520	520
C3orf63	0.120275829	0.006031099	0.01171478	520	520
MT1E	0.120265629	0.006035413	0.01172028	520	520
SH3TC2	0.120265008	0.006035676	0.01172028	520	520
FBXL14	0.12024233	0.006045278	0.01173681	520	520
C1orf180	0.120139705	0.0060889	0.01181339	520	233
CSNK1A1P	0.120069178	0.006119043	0.01186617	520	447
TAF1	0.12005284	0.006126045	0.0118786	520	520
DKFZp434J0226	0.120043792	0.006129925	0.01188498	520	502
ECEL1	0.120035174	0.006133624	0.01189101	520	507
EFCAB1	0.120033062	0.00613453	0.01189162	520	514
MMP20	0.119899964	0.006191911	0.01199434	520	261
ASGR2	0.119845848	0.006215378	0.01203446	520	516
MYO1E	0.119837441	0.006219031	0.01204038	520	520
NRG2	0.119784226	0.006242198	0.01208175	520	480
MCM9	0.119772002	0.00624753	0.01209091	520	520
NXNL2	0.119753315	0.00625569	0.01210554	520	350
CDC42BPB	0.119676081	0.006289517	0.01216633	520	520
NFIB	0.119659828	0.006296656	0.0121778	520	520
TMEM115	0.119635375	0.006307411	0.01219626	520	520
RSBN1	0.119633473	0.006308248	0.01219671	520	520

LIN52	0.119614779	0.006316482	0.01221103	520	519
FAM109A	0.119613908	0.006316866	0.01221103	520	520
NCKAP5	0.119593582	0.00632583	0.01222719	520	520
ARPP19	0.11953192	0.006353095	0.01227754	520	520
MAVS	0.119519572	0.006358568	0.01228693	520	520
KBTBD13	0.119508995	0.006363258	0.01229482	520	95
LUZP4	0.119457979	0.006385928	0.01233744	520	132
UBE4A	0.119379795	0.00642081	0.0123977	520	520
KCNJ2	0.119338948	0.006439103	0.01243064	520	520
LMBRD1	0.119309644	0.006452255	0.01245484	520	520
SRFBP1	0.11929547	0.006458625	0.01246594	520	520
CCL17	0.119238628	0.006484227	0.01251416	520	515
ZNF92	0.119232015	0.006487212	0.01251872	520	520
SCAMP5	0.119229483	0.006488354	0.0125197	520	520
DGKG	0.119228141	0.006488961	0.0125197	520	519
MPHOSPH8	0.119179763	0.006510836	0.0125595	520	520
NDFIP1	0.119136999	0.006530229	0.0125933	520	520
KIAA1797	0.119108689	0.006543095	0.0126157	520	520
GLRX	0.119105074	0.00654474	0.01261766	520	520
ARL6IP6	0.119099655	0.006547206	0.01262121	520	520
ZNF492	0.119038418	0.006575131	0.01267383	520	387
ANO10	0.11899939	0.006592984	0.01270581	520	520
SRI	0.118984809	0.006599664	0.01271747	520	520
CCDC126	0.118968782	0.006607015	0.01272939	520	520
ZXDB	0.118954201	0.006613709	0.01274088	520	520
PRB2	0.118947966	0.006616573	0.01274518	520	288
WNT3	0.118902078	0.006637687	0.01278341	520	519
ZNF669	0.118884363	0.006645854	0.0127967	520	520
LZTFL1	0.118866394	0.006654147	0.01281022	520	520
GNG7	0.118850754	0.006661374	0.01282168	520	520
AKAP5	0.118843314	0.006664814	0.01282708	520	519
PCDHGC4	0.118818765	0.006676175	0.01284527	520	474
PGPEP1	0.118794921	0.006687227	0.01286408	520	520
LHX6	0.118783983	0.006692302	0.01287261	520	518
CRHR2	0.118777171	0.006695465	0.01287747	520	294
NRG1	0.118746447	0.006709746	0.0129037	520	520
SYT5	0.118700481	0.006731162	0.01294242	520	494
FCRLB	0.118668829	0.006745946	0.01296961	520	520
GNB5	0.118592899	0.006781527	0.01303553	520	520
OR5E1P	0.1185743	0.006790269	0.01305109	520	61
SNX8	0.118552306	0.006800619	0.01306974	520	520
JSRP1	0.118541649	0.006805639	0.01307814	520	512
DGCR5	0.118397717	0.006873765	0.01319899	520	516
C7orf65	0.118371797	0.006886098	0.01322141	520	228
OR56B4	0.118363979	0.006889822	0.0132273	520	257
RPE	0.118324079	0.006908855	0.01326006	520	520

LOC100128076	0.118317709	0.006911898	0.01326463	520	154
ATAD1	0.11831231	0.006914478	0.01326832	520	520
FAM9C	0.11829148	0.00692444	0.01328617	520	122
WHAMML2	0.11823819	0.006949985	0.0133285	520	514
FLJ30679	0.118230454	0.006953701	0.01333217	520	455
ZNF575	0.1181949	0.006970799	0.01336241	520	520
RAD21	0.118181174	0.00697741	0.01337381	520	520
GPR63	0.118164203	0.006985592	0.01338822	520	487
FGL1	0.118138362	0.006998066	0.01341085	520	349
RLIM	0.118104098	0.007014638	0.01344133	520	520
OTOS	0.118073617	0.007029409	0.01346836	520	118
SMG1	0.11798972	0.00707021	0.01354267	520	520
ATXN7L3B	0.117850107	0.007138578	0.01366525	520	520
EPHB4	0.117848914	0.007139165	0.01366525	520	520
PPIP5K2	0.117847982	0.007139623	0.01366525	520	520
CCDC140	0.117846135	0.007140531	0.01366569	520	246
C2orf67	0.117840941	0.007143087	0.01366928	520	520
CD1C	0.117835701	0.007145666	0.01367032	520	518
SYT12	0.117804264	0.007161156	0.01369736	520	520
ZNF597	0.117786638	0.007169854	0.01371269	520	517
CD101	0.117782454	0.007171919	0.01371534	520	520
CETN4P	0.117754579	0.007185698	0.01374025	520	408
ST13	0.11775335	0.007186306	0.01374025	520	520
TMEM192	0.117713196	0.007206196	0.01377436	520	520
TJAP1	0.117701024	0.007212236	0.01378199	520	520
C12orf39	0.117647629	0.007238781	0.01383009	520	187
WDR91	0.117631053	0.00724704	0.01384435	520	520
LIG3	0.117629893	0.007247619	0.01384435	520	520
SYNM	0.117509392	0.007307914	0.01395424	520	520
CUL4B	0.117462607	0.007331445	0.01399255	520	520
RNF4	0.117375617	0.007375377	0.01407506	520	520
MPP4	0.117358473	0.007384063	0.0140903	520	492
TNRC6C	0.117352815	0.007386931	0.01409444	520	520
IL12RB1	0.117299916	0.0074138	0.01414303	520	520
CPNE9	0.11728761	0.007420062	0.01415364	520	400
MICA	0.117249185	0.007439648	0.01418832	520	520
SMAD5	0.117199988	0.007464793	0.01423089	520	520
THSD7B	0.117150097	0.007490369	0.01427425	520	467
RWDD2A	0.117075296	0.007528863	0.01434489	520	520
CAMK1D	0.117029699	0.007552414	0.0143884	520	520
C1orf192	0.117001523	0.007567	0.01441347	520	508
TFAMP1	0.116951489	0.007592964	0.01446019	520	235
CCRL1	0.116927869	0.007605248	0.01448222	520	519
ANKRD30B	0.116839245	0.007651499	0.01456342	520	142
GSN	0.116789219	0.007677718	0.0146078	520	520
TOR1B	0.116785377	0.007679735	0.01460925	520	520

GMCL1L	0.116785014	0.007679925	0.01460925	520	514
NEDD1	0.11677168	0.007686929	0.01462119	520	520
ADCY8	0.11676976	0.007687938	0.01462173	520	161
ACR	0.116760599	0.007692753	0.01462951	520	470
ZNF749	0.116751428	0.007697577	0.0146373	520	520
TBC1D9B	0.116664543	0.00774341	0.0147189	520	520
ATP2A2	0.116584728	0.007785727	0.01479516	520	520
CDK12	0.11654566	0.007806516	0.01483047	520	520
ASTN1	0.116540785	0.007809114	0.01483401	520	392
ZP2	0.116518214	0.00782115	0.01485407	520	177
BCAS3	0.116481256	0.007840895	0.01488736	520	520
LGALS14	0.116464697	0.007849756	0.01490279	520	53
CLN5	0.116452941	0.007856053	0.01491193	520	520
CLRN3	0.116430762	0.007867944	0.01493232	520	228
PAPD5	0.116430148	0.007868273	0.01493232	520	520
DSCR3	0.116412257	0.007877877	0.01494914	520	520
UBE2Q2P1	0.116367808	0.007901783	0.01499027	520	517
NOTCH3	0.116358098	0.007907014	0.01499878	520	520
C6orf59	0.116304436	0.007935979	0.01505231	520	506
CD40	0.116271659	0.007953717	0.0150817	520	520
SEC13	0.116246618	0.007967293	0.01510318	520	520
OR7A5	0.116209149	0.007987644	0.01513891	520	329
WBP5	0.116200248	0.007992486	0.01514666	520	520
RNMT	0.116097172	0.008048743	0.01524182	520	520
C19orf28	0.116092374	0.008051371	0.01524536	520	520
MS4A15	0.116080057	0.008058118	0.0152567	520	362
C20orf96	0.11602384	0.008088982	0.01531226	520	520
TFF2	0.115972444	0.008117291	0.01536441	520	151
RBL1	0.115950402	0.008129458	0.01538552	520	520
LOC401431	0.115949472	0.008129972	0.01538552	520	517
MCART1	0.11593233	0.008139447	0.01540201	520	519
MCOLN3	0.115890732	0.008162479	0.01544414	520	516
TLK1	0.115873979	0.008171772	0.01546027	520	520
LOC728819	0.115842601	0.008189202	0.01549034	520	483
IL1RAPL2	0.11581203	0.008206216	0.01551816	520	250
CALM3	0.115685953	0.008276715	0.01564707	520	520
NCOA6	0.115636595	0.008304462	0.01569658	520	520
ZNF429	0.115628331	0.008309115	0.01570391	520	519
C7orf31	0.115625748	0.00831057	0.01570519	520	520
SNX21	0.115571906	0.008340952	0.01576113	520	520
NFKBIE	0.115551584	0.008352445	0.01578136	520	520
NLRP10	0.11552922	0.008365109	0.01580233	520	435
FSCN3	0.115480488	0.008392764	0.01585271	520	478
TPSG1	0.115444818	0.008413058	0.01588696	520	357
AUTS2	0.115441648	0.008414865	0.01588888	520	520
PLCXD2	0.115418563	0.008428024	0.01591224	520	519

MLLT3	0.115397596	0.008439993	0.01593334	520	520
ZFP42	0.115370423	0.008455526	0.01595968	520	374
ATP1A4	0.11536451	0.00845891	0.01596457	520	334
PFN1	0.115287565	0.008503049	0.01604187	520	520
DNAH17	0.115274946	0.008510308	0.01605406	520	520
LOC643763	0.115264277	0.008516449	0.01606414	520	314
AARS	0.115243005	0.008528705	0.01608575	520	520
C8orf85	0.115239605	0.008530665	0.01608795	520	407
APPBP2	0.114986148	0.008677942	0.01635346	520	520
MAGEB18	0.114984661	0.008678813	0.01635357	520	48
ULBP1	0.114981124	0.008680884	0.01635595	520	518
VIT	0.114941213	0.008704287	0.01639698	520	513
CKAP2L	0.114927857	0.008712132	0.01640869	520	520
HHAT	0.114900857	0.008728009	0.01643552	520	520
ARRDC3	0.114894867	0.008731535	0.01644063	520	520
LRP1B	0.114834242	0.008767292	0.01649871	520	438
TMEM167A	0.11477537	0.00880214	0.01655965	520	520
FAM149A	0.114694872	0.008849989	0.01664501	520	517
ADAM23	0.114673849	0.008862523	0.01666703	520	517
HCN4	0.114658274	0.008871819	0.0166814	520	370
IL24	0.114623416	0.008892656	0.01671902	520	520
ZNF438	0.114592418	0.008911223	0.01674768	520	520
TTC36	0.114580587	0.008918318	0.01675946	520	262
LOC375190	0.11454172	0.008941664	0.01679863	520	520
TMEM38B	0.114481324	0.008978048	0.01686384	520	520
GPR89B	0.114474314	0.008982279	0.01687022	520	513
RPH3A	0.114429939	0.009009107	0.01691588	520	387
KLC1	0.114406992	0.009023008	0.0169341	520	520
HMGXB4	0.114395966	0.009029694	0.01694507	520	520
CELF1	0.11436954	0.009045737	0.01697359	520	520
IGSF22	0.114276127	0.00910265	0.01707403	520	492
UBE3C	0.114226412	0.00913307	0.0171279	520	520
COMMDD10	0.11422013	0.00913692	0.01713194	520	520
ANO4	0.114202315	0.009147847	0.01714924	520	494
PPRC1	0.114196028	0.009151706	0.01715488	520	520
CRP	0.114188158	0.009156539	0.01716234	520	284
DAD1L	0.114083259	0.009221168	0.01728026	520	92
SIX1	0.114077497	0.00922473	0.01728373	520	520
RUFY2	0.114051917	0.009240557	0.01731016	520	520
FAM123B	0.113923566	0.009320337	0.01744827	520	520
CALCOCO1	0.113874391	0.009351065	0.01750092	520	520
ATP6V1G3	0.113764318	0.009420173	0.01762371	520	35
KCNN1	0.113717065	0.009449979	0.01767783	520	514
C4orf12	0.11368612	0.009469544	0.01771279	520	519
PRDM2	0.113658891	0.009486789	0.01774176	520	520
POLN	0.113656105	0.009488555	0.01774341	520	515

IFITM3	0.113566579	0.009545462	0.01784321	520	520
HES7	0.113518689	0.009576028	0.01789703	520	461
WDR78	0.113511501	0.009580623	0.01790396	520	518
SLC12A2	0.11350185	0.009586796	0.01791383	520	520
FUBP3	0.113494529	0.009591481	0.01792092	520	520
PCSK1N	0.113488521	0.009595327	0.01792645	520	503
HBB	0.113478529	0.009601727	0.01793508	520	519
C9orf41	0.113419625	0.009639531	0.0180029	520	520
MKX	0.113322451	0.009702187	0.01811602	520	508
GSG1L	0.113312629	0.00970854	0.0181262	520	327
NINJ1	0.11328	0.009729672	0.01816398	520	520
ZNF23	0.113277401	0.009731356	0.01816544	520	520
NHLH2	0.113273204	0.009734078	0.01816884	520	467
DLK1	0.113120169	0.009833775	0.01834134	520	255
FOXJ3	0.11304297	0.009884412	0.01843238	520	520
MIAT	0.113034054	0.009890275	0.0184416	520	520
FBXL3	0.113003091	0.00991066	0.0184762	520	520
AHNAK2	0.112979013	0.009926537	0.01850409	520	520
POGZ	0.112871726	0.009997561	0.01862271	520	520
TMPRSS7	0.112833318	0.010023097	0.01866855	520	370
KLHL25	0.112807371	0.01004038	0.01869729	520	520
MTFR1	0.112728427	0.010093129	0.01878858	520	520
PROS1	0.11271823	0.01009996	0.01879956	520	520
MYCN	0.112702497	0.010110508	0.01881745	520	515
NT5DC2	0.112675621	0.01012855	0.01884581	520	520
ZNF235	0.112583558	0.010190566	0.01895421	520	520
TMPRSS15	0.112537081	0.010222003	0.01901093	520	236
ANKS1B	0.112510229	0.010240205	0.01903951	520	467
PRDM4	0.112468521	0.010268533	0.01908514	520	520
ABHD13	0.112414603	0.010305258	0.01914987	520	520
CT45A1	0.112307091	0.010378837	0.01928304	520	200
IGFL4	0.112139003	0.010494804	0.01948414	520	305
UBAP2L	0.112098291	0.010523065	0.01953481	520	520
TPSAB1	0.112044905	0.010560226	0.01960018	520	520
C5orf51	0.112015448	0.01058078	0.01963472	520	520
FAM35B	0.111978371	0.010606702	0.0196792	520	520
KLHL22	0.111892417	0.010667011	0.01978017	520	520
ZNF211	0.111846047	0.010699672	0.01983709	520	520
TRIM58	0.111835382	0.010707197	0.01984922	520	497
CUX2	0.111765772	0.010756424	0.01993314	520	442
ZFP41	0.111745729	0.010770636	0.01995765	520	520
CCDC75	0.111684286	0.010814305	0.02003165	520	520
ARHGAP10	0.111652362	0.010837057	0.02006966	520	520
CLIC6	0.111493423	0.010950962	0.02027315	520	520
HFM1	0.111465223	0.010971283	0.02030704	520	306
DPY19L2	0.111402674	0.011016473	0.02038133	520	517

ZNF224	0.11139782	0.011019986	0.02038596	520	520
IDE	0.111351695	0.011053426	0.02044407	520	520
HOXC8	0.111196242	0.011166788	0.02064049	520	517
CHPT1	0.111186763	0.011173734	0.02065144	520	520
IMPA1	0.111142689	0.011206079	0.02070932	520	520
EDDM3A	0.111117111	0.011224889	0.02074028	520	108
ROBO2	0.111035053	0.01128542	0.02083875	520	491
USP36	0.111027308	0.011291148	0.02084742	520	520
C1orf107	0.110987664	0.011320508	0.02089473	520	520
LOC148189	0.110979753	0.011326375	0.0209024	520	519
KRTAP2-2	0.11092297	0.011368566	0.020975	520	44
CDC14C	0.1109055	0.011381575	0.02099708	520	511
WDR19	0.110835961	0.011433486	0.02108765	520	520
TRIM5	0.110835534	0.011433805	0.02108765	520	520
TDRKH	0.110807531	0.01145477	0.02112438	520	520
STK32A	0.110725862	0.011516103	0.02123361	520	332
KIAA0232	0.110658359	0.011567018	0.02132163	520	520
SEPP1	0.110645188	0.011576976	0.02133804	520	520
SNX32	0.11064068	0.011580386	0.02134237	520	445
ZSCAN1	0.11058113	0.011625513	0.02141771	520	239
LPAR3	0.110574966	0.011630193	0.02142438	520	520
PSG9	0.110553365	0.011646607	0.02145265	520	330
LPHN2	0.110541186	0.01165587	0.02146383	520	520
PHLDA1	0.110525334	0.011667937	0.02147913	520	520
PANK3	0.110510224	0.011679449	0.02149744	520	520
SPTLC3	0.110433888	0.011737763	0.02159602	520	519
PPP2R3A	0.110413454	0.011753416	0.02161779	520	520
SLC19A3	0.110373743	0.01178389	0.02166989	520	517
KANK3	0.110358825	0.011795355	0.02168702	520	520
TGIF2LX	0.110347375	0.011804162	0.02170123	520	58
C1orf96	0.110332594	0.01181554	0.02172017	520	520
USP24	0.110308444	0.01183415	0.02174843	520	520
RNF166	0.11029309	0.011845996	0.02176393	520	520
FAM114A2	0.110265865	0.011867025	0.02179892	520	520
ING1	0.110263662	0.011868728	0.02180006	520	520
CCR6	0.110199067	0.011918762	0.02187602	520	520
CBFB	0.110056352	0.012029968	0.0220741	520	520
ABCB1	0.110039332	0.012043291	0.02209654	520	520
MAGEA10	0.110026413	0.012053413	0.02211309	520	212
PPIB	0.109948674	0.012114479	0.02221098	520	520
TCP11L2	0.10990691	0.012147398	0.02226324	520	520
ZNF493	0.109868944	0.012177392	0.02231415	520	520
RNF38	0.109840653	0.012199785	0.02235112	520	520
DHRS12	0.109808909	0.012224954	0.02239317	520	520
NUMA1	0.109787166	0.012242221	0.02242072	520	520
BEGAIN	0.109772733	0.012253694	0.02243766	520	519

GPR179	0.109731376	0.012286623	0.02248978	520	428
TRIM34	0.109701052	0.012310817	0.02252793	520	520
CXCR1	0.109685553	0.012323199	0.02254855	520	517
ANO3	0.109662578	0.012341573	0.02258012	520	409
RASGEF1B	0.109656745	0.012346242	0.02258661	520	520
KRT83	0.109637407	0.012361732	0.0226129	520	324
MMP28	0.109509143	0.012464908	0.02279164	520	520
CTSC	0.109508907	0.012465098	0.02279164	520	520
LOC100133893	0.109478953	0.012489303	0.02283383	520	230
DSCR8	0.109475145	0.012492383	0.02283739	520	136
FAIM3	0.109472976	0.012494138	0.02283853	520	520
ASAH2B	0.109450534	0.012512306	0.02286759	520	509
SPOP	0.109442756	0.012518608	0.02287704	520	520
HCG4	0.109434404	0.012525378	0.02288733	520	519
FAM138E	0.109425755	0.012532393	0.02289808	520	31
STX1B	0.109396818	0.012555886	0.02293269	520	520
INTS4	0.109342248	0.012600296	0.02301172	520	520
SLC1A4	0.109331596	0.012608981	0.02302341	520	520
ZNF630	0.109259576	0.012667841	0.02312665	520	516
IPO8	0.109259139	0.012668199	0.02312665	520	520
GTF2H3	0.109256438	0.012670411	0.0231272	520	520
CNNM4	0.109234066	0.012688748	0.02315857	520	520
ZNF343	0.109232571	0.012689974	0.02315872	520	520
RAPGEF5	0.109220341	0.012700009	0.02317493	520	520
TTC7A	0.109210103	0.012708414	0.02318608	520	520
LRRC27	0.109104956	0.012795028	0.02333143	520	520
KCNJ1	0.109100235	0.012798928	0.02333535	520	455
RBM26	0.109099555	0.01279949	0.02333535	520	520
BAZ2B	0.109078951	0.012816528	0.0233643	520	520
SCN11A	0.109022312	0.012863469	0.02344563	520	433
PSME4	0.108985107	0.012894385	0.02349985	520	520
SSTR3	0.108949991	0.012923626	0.02355102	520	388
PER1	0.108923148	0.012946017	0.02358756	520	520
PDE9A	0.108880841	0.012981378	0.02364771	520	520
TM9SF4	0.108798081	0.013050796	0.02376343	520	520
GPR174	0.108783974	0.013062661	0.02378289	520	475
SMC1A	0.108751189	0.013090273	0.02382886	520	520
MUCL1	0.108746094	0.013094568	0.02383452	520	483
PIGS	0.108702164	0.013131658	0.02389988	520	520
MID1	0.108697698	0.013135434	0.02390459	520	520
FOXO3	0.108564746	0.013248278	0.02410544	520	520
ZMYM5	0.108563448	0.013249384	0.02410544	520	520
ACSF2	0.108543213	0.013266634	0.02413247	520	520
NAF1	0.108466386	0.013332311	0.02423508	520	520
SPATA17	0.108454592	0.013342418	0.02425063	520	519
RNF138P1	0.108424354	0.013368363	0.02429341	520	520

NRIP3	0.108411862	0.013379095	0.02431072	520	520
USP27X	0.108359342	0.013424296	0.02438846	520	520
FAM69B	0.108348131	0.013433962	0.02439942	520	520
PARM1	0.108326666	0.013452486	0.02443006	520	520
ANKMY2	0.108266094	0.013504882	0.0245194	520	520
ARL11	0.108261574	0.013508798	0.0245243	520	520
PDPK1	0.108256466	0.013513226	0.02453013	520	520
POM121C	0.108197617	0.013564331	0.02461625	520	520
SLC1A6	0.10818332	0.013576772	0.0246344	520	332
BRD7P3	0.108170327	0.013588087	0.02464827	520	363
GAPT	0.108149484	0.013606255	0.02467679	520	515
LSM14A	0.108064457	0.013680596	0.024796	520	520
GPR44	0.107959797	0.013772592	0.02495153	520	499
MYO18A	0.107946	0.01378476	0.02496909	520	520
CTH	0.107939458	0.013790533	0.02497581	520	520
HEATR2	0.107937417	0.013792335	0.02497608	520	520
ZNF765	0.107932091	0.013797037	0.02498235	520	520
ARID1A	0.107922573	0.013805443	0.02499308	520	520
ADD3	0.107893325	0.013831303	0.02503765	520	520
DOCK6	0.107859554	0.013861216	0.02508534	520	520
PRDX3	0.107802932	0.013911497	0.02517378	520	520
OR7C1	0.107799389	0.013914648	0.02517722	520	260
TGIF2	0.107745639	0.013962536	0.0252616	520	520
NR0B1	0.107726119	0.013979964	0.02529087	520	208
KCNC3	0.107627616	0.014068198	0.02544136	520	520
CXCL9	0.107615011	0.014079524	0.02545956	520	520
PDXP	0.107475929	0.01420503	0.02567053	520	520
CDKL1	0.107475847	0.014205104	0.02567053	520	519
IFT172	0.107429243	0.014247379	0.0257377	520	520
PLIN1	0.10740373	0.014270568	0.02577497	520	477
TRIM4	0.107328951	0.01433873	0.02589344	520	520
CD5	0.10732612	0.014341316	0.02589579	520	520
DOCK9	0.107318929	0.014347886	0.02590533	520	520
ZNF320	0.107298951	0.014366156	0.02593368	520	520
JUN	0.107192221	0.0144641	0.02609413	520	520
CABYR	0.107184124	0.014471554	0.02610291	520	520
STAG2	0.107152842	0.014500385	0.02615257	520	520
FRMPD2	0.107140679	0.014511609	0.02617048	520	259
LOC646851	0.107088707	0.014559654	0.02625242	520	518
CCDC91	0.10703981	0.014604984	0.02632239	520	520
P2RY6	0.107006011	0.014636389	0.02636721	520	520
TBC1D25	0.106990196	0.014651104	0.02639136	520	520
COPS7A	0.106986429	0.014654611	0.02639532	520	520
PURA	0.10696121	0.014678109	0.02643528	520	520
SMTNL1	0.106953519	0.014685281	0.02644583	520	504
MKL2	0.106942567	0.0146955	0.02646187	520	520

RXFP2	0.10691529	0.014720979	0.02649829	520	29
CNTNAP2	0.106911688	0.014724347	0.02650198	520	518
C1orf9	0.106849568	0.014782528	0.02660433	520	520
WFDC3	0.106844307	0.014787464	0.02661084	520	506
RTP1	0.106841198	0.014790382	0.02661371	520	302
CCL4	0.106835467	0.014795762	0.02662102	520	520
SAMD3	0.106823825	0.014806698	0.02663832	520	512
DZIP3	0.106797373	0.01483157	0.02668068	520	520
MAPRE1	0.106735356	0.014890026	0.02678345	520	520
SPG11	0.106641259	0.014979106	0.02693407	520	520
MORF4L2	0.106616074	0.015003028	0.02697468	520	520
ZNF432	0.106610421	0.015008402	0.02698194	520	520
KSR2	0.106547566	0.015068269	0.02707991	520	498
A1BG	0.106526352	0.015088522	0.02711389	520	520
RNF26	0.106489826	0.01512345	0.02717181	520	520
CTTNBP2NL	0.106479648	0.015133194	0.02718576	520	520
OR52L1	0.106472972	0.01513959	0.02719354	520	80
USP28	0.106451579	0.015160098	0.02722795	520	520
KIAA0495	0.106429015	0.015181756	0.02725957	520	520
SCPEP1	0.106387137	0.015222024	0.027327	520	520
SLC30A5	0.106385648	0.015223457	0.02732714	520	520
SCN1A	0.106372947	0.01523569	0.02734423	520	238
HTR2C	0.106215863	0.015387691	0.02759984	520	345
GTPBP1	0.106183721	0.015418957	0.027651	520	520
APOBEC3F	0.106177704	0.015424816	0.02765659	520	520
FER	0.106152964	0.015448928	0.02769243	520	520
FAM82A1	0.106114485	0.015486495	0.02775237	520	520
ZC3H12C	0.106097227	0.01550337	0.02777521	520	520
IL13	0.105889566	0.015707691	0.02812127	520	294
C10orf90	0.105813289	0.015783332	0.02825418	520	365
DPP3	0.105797704	0.015798826	0.02827941	520	520
ELMOD2	0.105699778	0.015896488	0.0284416	520	520
CDK18	0.105671899	0.015924388	0.02848646	520	520
SSFA2	0.105657671	0.015938644	0.02850943	520	520
ZNF213	0.105518098	0.016079081	0.02874278	520	520
RIMKLB	0.105462325	0.016135502	0.02883342	520	520
FADD	0.105423669	0.016174708	0.02889835	520	520
ZNF260	0.105415868	0.016182631	0.02890995	520	520
PCDHB14	0.105373061	0.016226164	0.02898258	520	520
GPX3	0.105364079	0.016235311	0.02899635	520	520
NSD1	0.105269668	0.016331734	0.02915823	520	520
GJD4	0.105198744	0.016404498	0.02927777	520	256
HGC6.3	0.105178421	0.016425401	0.02930989	520	223
ZNF197	0.105126717	0.016478685	0.02939197	520	520
SLC33A1	0.105103398	0.016502766	0.02942971	520	520
STON2	0.105020665	0.016588452	0.02956944	520	520

ELOVL3	0.105012819	0.016596599	0.02958109	520	512
COL28A1	0.104984571	0.016625956	0.02962582	520	480
PLEKHF1	0.104976583	0.016634266	0.02963801	520	520
THRAP3	0.104953143	0.016658673	0.02967497	520	520
HOXB8	0.10495242	0.016659426	0.02967497	520	421
NEK3	0.104950561	0.016661362	0.0296758	520	520
RABL2B	0.104855086	0.016761112	0.02984292	520	520
S100Z	0.104826401	0.016791183	0.02989118	520	358
NOL9	0.104730733	0.016891815	0.0300491	520	520
CCDC70	0.104705028	0.016918943	0.0300947	520	63
STARD4	0.104684844	0.016940271	0.03012733	520	520
NLGN4Y	0.104682777	0.016942457	0.03012856	520	441
VAMP7	0.104629974	0.016998372	0.03021999	520	520
FGD1	0.104614878	0.017014387	0.0302458	520	520
VWA5A	0.104579155	0.017052338	0.03031059	520	520
TNKS1BP1	0.10455408	0.017079021	0.03034999	520	520
GMIP	0.104535307	0.017099022	0.03037483	520	520
ZNF350	0.104466131	0.0171729	0.03049297	520	520
ZFAT	0.104465415	0.017173666	0.03049297	520	520
MT1DP	0.10446454	0.017174602	0.03049297	520	401
ACSL6	0.1044253	0.017216636	0.03055953	520	489
ZNF100	0.104324729	0.017324781	0.03074066	520	519
STXBP5	0.10432287	0.017326786	0.03074151	520	520
CT45A4	0.104297198	0.017354488	0.03078	520	107
NTSR1	0.104247186	0.017408568	0.03086607	520	489
CTF1	0.104247157	0.0174086	0.03086607	520	520
KIAA1409	0.104246494	0.017409318	0.03086607	520	504
CD1E	0.104235126	0.017421632	0.03088262	520	513
KIAA0195	0.104217647	0.017440579	0.03091349	520	520
BDP1	0.104150877	0.017513126	0.03103117	520	520
SLC2A9	0.10413594	0.017529391	0.03105726	520	520
XPO4	0.104014091	0.017662571	0.03127536	520	520
GIP	0.103994137	0.017684465	0.03130686	520	106
SCAND3	0.103920544	0.017765416	0.03142848	520	467
ERC2	0.103895737	0.017792776	0.03147412	520	512
SHROOM3	0.103889651	0.017799494	0.03148281	520	520
ZNF177	0.1038627	0.017829271	0.03153038	520	519
RHBDF2	0.103852295	0.017840778	0.0315457	520	520
SLC22A2	0.103845728	0.017848044	0.03155528	520	301
SRD5A2	0.103818952	0.017877698	0.03160494	520	406
P4HB	0.103805334	0.017892796	0.03162885	520	520
TPCN2	0.103785448	0.017914863	0.03165676	520	520
AP4E1	0.103767228	0.017935102	0.03168975	520	520
C10orf46	0.10374111	0.017964149	0.03172717	520	520
ESX1	0.103711124	0.01799755	0.03178059	520	66
PCDHA13	0.103681095	0.018031052	0.03183696	520	139

G2E3	0.103645425	0.018070918	0.03189618	520	520
ERLIN2	0.103615369	0.01810457	0.03194999	520	520
CD300LD	0.103613872	0.018106247	0.03195015	520	53
KLRD1	0.103580204	0.018144011	0.03201399	520	515
ZNF121	0.103565288	0.018160764	0.03204074	520	520
TAS2R40	0.103543817	0.018184902	0.03207772	520	106
FUT10	0.10349551	0.018239312	0.03216807	520	520
PPP2R3C	0.103449355	0.018291432	0.03225435	520	520
LOC285733	0.103378973	0.01837116	0.03239133	520	102
MS4A3	0.103376987	0.018373414	0.03239133	520	203
IFNA1	0.10337591	0.018374636	0.03239133	520	235
ADAMTSL3	0.103375114	0.01837554	0.03239133	520	511
DCP1A	0.103326825	0.018430427	0.03247956	520	520
HOMER3	0.103247376	0.018521044	0.03263355	520	520
HCFC1R1	0.103186527	0.018590709	0.03274674	520	520
CCNG2	0.103185591	0.018591783	0.03274674	520	520
OR2W1	0.103154975	0.018626922	0.03280577	520	3
C16orf71	0.10309942	0.018690834	0.03291258	520	518
RNASEN	0.103079416	0.018713894	0.03294743	520	520
GCN1L1	0.103042686	0.018756299	0.03301081	520	520
PKM2	0.103042564	0.018756441	0.03301081	520	520
PPP1R9A	0.103036781	0.018763125	0.03301969	520	486
CD74	0.103014571	0.018788816	0.03305337	520	520
MAPKAPK2	0.102911062	0.018908952	0.03324151	520	520
C1orf26	0.102878214	0.018947216	0.03330297	520	520
KPNB1	0.102874689	0.018951326	0.03330729	520	520
PPARA	0.102812567	0.01902389	0.03342349	520	520
ZNF536	0.102812411	0.019024073	0.03342349	520	321
THAP1	0.102790824	0.019049345	0.03346498	520	520
RAB27A	0.102751722	0.019095197	0.0335426	520	520
TPBG	0.102745657	0.019102317	0.03354927	520	520
FLJ13224	0.102735345	0.01911443	0.03356762	520	481
SIRT4	0.102727517	0.019123628	0.03358084	520	519
ATP2B2	0.102677173	0.019182881	0.03367903	520	474
KDM5B	0.102634032	0.019233783	0.03376251	520	520
RFPL4A	0.102627661	0.019241311	0.03377279	520	231
TM4SF19	0.102625265	0.019244142	0.03377482	520	518
HSF1	0.102523206	0.019365088	0.03396639	520	520
RAB28	0.102512328	0.019378018	0.03398611	520	520
ZNF148	0.102492125	0.019402052	0.03402531	520	520
DDX18	0.102484306	0.019411361	0.03403867	520	520
ADRB3	0.102450186	0.019452027	0.03410405	520	385
C6orf27	0.102417047	0.019491596	0.03416441	520	518
UBXN4	0.102415675	0.019493235	0.03416441	520	520
MFHAS1	0.102405468	0.019505437	0.03417689	520	520
RELL1	0.102388707	0.019525488	0.03420608	520	520

COL17A1	0.102359331	0.019560676	0.03426474	520	520
KCNQ5	0.102337873	0.019586413	0.03430387	520	520
APOC1P1	0.102302499	0.019628906	0.0343753	520	178
GRIA2	0.102287745	0.019646653	0.0344034	520	297
CNOT6L	0.102255439	0.019685562	0.03446255	520	520
MID2	0.102229117	0.019717312	0.03451214	520	520
FLJ41941	0.102222089	0.019725797	0.03452201	520	406
PTN	0.102221613	0.019726372	0.03452201	520	520
CLPTM1L	0.102200715	0.019751622	0.0345632	520	520
FAM169A	0.102185682	0.019769803	0.03459201	520	520
TTLL11	0.102102601	0.019870546	0.03475831	520	520
PTPRN2	0.102101616	0.019871742	0.03475831	520	520
ESD	0.102069084	0.019911314	0.03482149	520	520
LOC652276	0.102042323	0.019943917	0.03487548	520	520
FAF2	0.102021044	0.019969875	0.03491481	520	520
HYI	0.101712394	0.020349704	0.03553576	520	520
CNTN5	0.101707379	0.020355926	0.03554355	520	374
FGFR1OP2	0.101677934	0.020392497	0.03560432	520	520
LASS5	0.101676337	0.020394483	0.03560471	520	520
POM121L1P	0.101601583	0.020487593	0.03575797	520	409
RORA	0.101547084	0.020555709	0.03586754	520	520
PDLIM4	0.101531472	0.020575258	0.03589855	520	520
STK33	0.101495582	0.020620259	0.03597395	520	483
QSER1	0.101478606	0.020641574	0.0360049	520	520
HTR3E	0.101360412	0.020790512	0.03624588	520	313
DPYS	0.101289286	0.020880589	0.03639977	520	346
CT45A3	0.101172953	0.021028648	0.03664837	520	121
ORAI3	0.101166394	0.021037024	0.0366598	520	520
PTCRA	0.101156264	0.021049964	0.03667918	520	453
IMPG1	0.101127727	0.021086454	0.03673959	520	433
LOC644172	0.101110352	0.0211087	0.03677199	520	520
SRP72	0.101099176	0.021123018	0.03679058	520	520
GPR39	0.101046492	0.021190632	0.03690516	520	519
DUSP15	0.101036322	0.021203706	0.03692155	520	515
BARD1	0.101032111	0.021209121	0.03692779	520	519
GADD45A	0.101020238	0.021224396	0.03695119	520	520
PCIF1	0.100967233	0.021292707	0.03706372	520	520
C15orf59	0.100944005	0.021322701	0.03710952	520	517
C12orf24	0.100923174	0.021349632	0.03715319	520	520
KDM4A	0.100879449	0.021406257	0.0372453	520	520
LIMD2	0.100802172	0.021506653	0.03740707	520	520
PTPRT	0.100788241	0.021524794	0.03743539	520	421
TTC30A	0.100756325	0.021566408	0.03750453	520	520
DDX10	0.100668865	0.0216808	0.03768721	520	520
MSI2	0.100645064	0.021712022	0.03773823	520	520
PTCH1	0.100595388	0.021777311	0.03783866	520	520

SERINC2	0.100546452	0.021841793	0.03794416	520	520
CCDC93	0.100489933	0.021916474	0.03806406	520	520
ZNF518B	0.100469494	0.021943535	0.0381045	520	520
NRG3	0.100404304	0.022030041	0.03824154	520	286
SOX12	0.100401339	0.022033983	0.03824509	520	520
MOBP	0.100322816	0.022138589	0.03841343	520	365
HLA-L	0.100299599	0.022169601	0.03846393	520	520
SMAD2	0.100276113	0.022201011	0.0385118	520	520
LGALS3BP	0.100272079	0.02220641	0.03851785	520	520
OR7E5P	0.100266467	0.022213922	0.03852757	520	106
ZNF280C	0.100240169	0.022249156	0.03858536	520	519
KLF15	0.10019439	0.022310605	0.03868527	520	512
PPP3CC	0.100106894	0.022428461	0.03888294	520	520
PIK3C3	0.100073614	0.02247343	0.0389542	520	520
ZNF8	0.100029408	0.022533283	0.03904919	520	520
SLC12A5	0.100028849	0.022534041	0.03904919	520	487
LIMK2	0.099954385	0.022635179	0.03920424	520	520
EEA1	0.099936467	0.022659574	0.03924312	520	520
LOC651250	0.099931965	0.022665707	0.03925037	520	520
MAPRE3	0.09990222	0.022706264	0.03931723	520	520
LECT2	0.099888648	0.022724791	0.03934255	520	82
ALB	0.099835149	0.022797946	0.03946581	520	384
FAM170B	0.099832042	0.022802201	0.03946979	520	130
HEATR4	0.099778407	0.022875758	0.03958352	520	488
LRFN4	0.099772283	0.02288417	0.03959128	520	520
HSPH1	0.099722189	0.022953079	0.03969347	520	520
DDX60L	0.099680831	0.023010106	0.03978527	520	520
RBM15B	0.09964816	0.023055242	0.03985989	520	520
MCOLN2	0.099536174	0.023210534	0.04010466	520	520
ABP1	0.099535637	0.023211281	0.04010466	520	520
DNASE2	0.099528896	0.023220659	0.04011492	520	520
TCEAL2	0.099463221	0.023312186	0.04026959	520	478
RPL7	0.09943499	0.023351627	0.04032735	520	520
RGS13	0.099431433	0.023356599	0.04033015	520	479
THUMPD1	0.099427749	0.023361752	0.04033448	520	520
ZNF483	0.099415638	0.023378695	0.04036027	520	512
C9orf153	0.099372549	0.023439065	0.04046103	520	322
HEBP1	0.099334223	0.023492873	0.0405435	520	520
LEFTY1	0.099332528	0.023495256	0.04054415	520	488
KDM1B	0.099322085	0.023509938	0.04056254	520	520
C21orf130	0.099291219	0.023553378	0.04063053	520	379
GALNT8	0.099271405	0.023581301	0.04067522	520	257
FRRS1	0.099168671	0.023726537	0.04090125	520	520
AHI1	0.099164982	0.023731766	0.04090327	520	520
ALG9	0.099122015	0.02379275	0.04100137	520	520
OSBPL3	0.099035347	0.023916171	0.04120701	520	520

ADAM32	0.099006526	0.023957338	0.04126736	520	511
GPR112	0.098994836	0.023974053	0.04129263	520	131
CCNYL1	0.09898649	0.023985992	0.04130966	520	520
ZCWPW2	0.098983475	0.023990307	0.04131357	520	519
RPTOR	0.098981073	0.023993744	0.04131596	520	520
SDPR	0.09897024	0.024009253	0.04133913	520	520
CXorf23	0.098966642	0.024014406	0.04134447	520	520
NXF2	0.098800941	0.024252761	0.04174058	520	147
TUBA8	0.098699884	0.02439913	0.041971	520	520
HHIPL2	0.09868351	0.024422917	0.04200833	520	476
GSK3B	0.098615446	0.024522012	0.04217159	520	520
CLSPN	0.098613648	0.024524635	0.0421725	520	520
PAX5	0.098576452	0.02457894	0.04225868	520	498
INF2	0.098508584	0.024678296	0.04241142	520	520
APOBEC3G	0.098435804	0.024785226	0.04257704	520	520
FOXL2	0.098381982	0.02486456	0.04270241	520	510
AGRP	0.098373425	0.024877194	0.04271683	520	183
LOC284232	0.098328809	0.024943153	0.0428228	520	518
CCND2	0.098309819	0.024971272	0.04286377	520	520
FBXL20	0.098296667	0.024990764	0.04289358	520	520
LIG4	0.098244254	0.025068571	0.04301614	520	520
FBXL5	0.09818201	0.025161244	0.04316781	520	520
PAGE2	0.098154751	0.025201922	0.04322657	520	120
MRE11A	0.098143129	0.025219283	0.04325267	520	520
APOL5	0.098116682	0.025258826	0.0433113	520	196
IMPACT	0.098115957	0.025259911	0.0433113	520	520
GTF3C3	0.098104334	0.025277307	0.04333744	520	520
SHBG	0.098100429	0.025283154	0.04334378	520	487
LOC100130386	0.098091653	0.025296299	0.04335894	520	170
MAG	0.098079302	0.025314809	0.04338698	520	305
UBE2D4	0.098032382	0.02538523	0.04349289	520	520
RNF14	0.098015104	0.025411205	0.04352999	520	520
C2orf18	0.097999915	0.025434058	0.04356544	520	520
PSORS1C1	0.097990458	0.025448295	0.04358242	520	501
FRMD4B	0.09795821	0.025496899	0.04365454	520	520
UAP1L1	0.097933871	0.025533633	0.04371001	520	520
DHRS2	0.097902165	0.025581557	0.04378461	520	518
HAMP	0.097766542	0.025787425	0.04410955	520	498
NBPF14	0.097765571	0.025788904	0.04410955	520	520
CXCL13	0.097720484	0.025857662	0.0442234	520	520
LANCL1	0.09770578	0.025880121	0.04425055	520	520
NOSTRIN	0.097698078	0.025891892	0.04426692	520	520
GPR152	0.097695403	0.02589598	0.04427016	520	208
ARL13A	0.097675634	0.025926217	0.04431809	520	359
SEMA4G	0.097671801	0.025932083	0.04432436	520	519
ZNHIT6	0.09762906	0.025997572	0.04442741	520	520

ERCC6	0.097609109	0.02602819	0.04447355	520	520
HOXC10	0.097576464	0.026078356	0.04454795	520	499
NRBP1	0.097546217	0.026124912	0.04461614	520	520
SCN2A	0.097544596	0.02612741	0.04461662	520	479
ARSA	0.097525049	0.026157536	0.0446605	520	520
GSG1	0.097477171	0.026231455	0.04478292	520	279
C2orf86	0.097456999	0.026262653	0.04482859	520	520
SYNJ2BP	0.097437593	0.026292695	0.04487227	520	520
CDC5L	0.097418774	0.026321857	0.04491824	520	520
C17orf54	0.097404242	0.026344396	0.0449529	520	110
CENPI	0.097391779	0.026363738	0.04497829	520	519
SERPINA4	0.097389817	0.026366785	0.04497968	520	194
CNTNAP4	0.097326351	0.026465484	0.04514191	520	303
CEP350	0.097325788	0.026466361	0.04514191	520	520
RAP2C	0.09732133	0.026473306	0.04514994	520	520
GPR142	0.097307604	0.0264947	0.04517496	520	243
WDR6	0.097215189	0.026639125	0.0454097	520	520
ZNF295	0.097172874	0.026705481	0.04550886	520	520
SOX10	0.097172335	0.026706326	0.04550886	520	458
TOP1	0.09715483	0.026733819	0.04555186	520	520
MADD	0.097145905	0.026747846	0.04557191	520	520
CT45A2	0.09713989	0.026757303	0.04557647	520	159
C6orf142	0.097093383	0.026830519	0.04569212	520	510
UBE2D1	0.097092443	0.026831999	0.04569212	520	520
ATP6V0A2	0.097075487	0.026858738	0.04572993	520	520
ANKRD11	0.09705379	0.026892985	0.04578377	520	520
ZNF230	0.097034533	0.026923412	0.04582844	520	520
TG	0.096994207	0.026987226	0.04592931	520	518
TAS2R19	0.09699072	0.02699275	0.04593483	520	324
OGG1	0.096895102	0.027144607	0.04617377	520	520
PKD1L2	0.096883449	0.027163166	0.04620144	520	444
NT5DC3	0.096881257	0.027166657	0.04620348	520	520
CACNG5	0.096842525	0.027228422	0.04630462	520	138
PLA2G16	0.096736903	0.027397469	0.04656854	520	520
SAMD9L	0.096723852	0.02741842	0.04660022	520	520
JPH1	0.096669561	0.027505721	0.04673284	520	519
MAN2A2	0.096663373	0.027563469	0.04682307	520	520
OXT	0.096527643	0.027735057	0.04707885	520	300
TRPM2	0.096525678	0.027738244	0.0470803	520	520
FAM86C	0.096503483	0.027774263	0.0471335	520	520
TP53BP2	0.09649556	0.02778713	0.04715137	520	520
TPSB2	0.09647841	0.027815	0.04719469	520	520
LOC92973	0.096449002	0.027862846	0.04726394	520	477
PITX2	0.096342288	0.02803706	0.04753547	520	509
IMPDH1	0.096309826	0.028090242	0.04762163	520	520
LOC158696	0.096270488	0.028154804	0.04772306	520	312

OXER1	0.09624883	0.028190403	0.04777938	520	518
SUPT6H	0.096245078	0.028196575	0.04778582	520	520
LOC100128542	0.096241769	0.028202018	0.04779103	520	201
PIWIL2	0.096131631	0.028383717	0.04808278	520	482
HOXC6	0.096129691	0.028386926	0.04808417	520	517
OR6C3	0.096079968	0.028469294	0.04821154	520	29
SLC7A5P2	0.096054076	0.028512266	0.0482762	520	485
SCG3	0.096048293	0.028521871	0.04828841	520	407
SDCCAG8	0.096016791	0.028574243	0.04837302	520	520
C1orf229	0.095994895	0.028610695	0.04843066	520	435
ZNF160	0.095970782	0.028650883	0.04849055	520	520
KIAA2018	0.095938052	0.028705509	0.04857077	520	520
C9orf144B	0.09589768	0.028773015	0.04867274	520	386
USP38	0.095883433	0.02879687	0.04870901	520	520
CIDEC	0.095835497	0.028877257	0.0488286	520	384
ICA1L	0.09577663	0.028976238	0.04898364	520	520
COL9A2	0.095683823	0.029132878	0.0492278	520	520
HLCS	0.09565725	0.029177862	0.04929555	520	520
DCTD	0.095652805	0.029185393	0.04930414	520	520
OMG	0.095612892	0.029253085	0.04940608	520	453
RYK	0.095563927	0.029336314	0.04953835	520	520
ADAM21P1	0.095536354	0.029383272	0.04960934	520	339
MYO15A	0.095508602	0.029430599	0.04967676	520	514
LOC728024	0.095498524	0.029447802	0.0496975	520	520
XPNPEP3	0.095498516	0.029447815	0.0496975	520	520
FERMT1	0.095385757	0.029640879	0.0500024	520	520
UAP1	0.09538297	0.029645666	0.05000629	520	520
FCRL3	0.095365211	0.029676175	0.05005357	520	499
ACSL1	0.095342978	0.029714409	0.05011059	520	520
SMOX	0.095342661	0.029714955	0.05011059	520	520
BCL2	0.095304783	0.029780192	0.05020381	520	520
SP100	0.095287323	0.029810303	0.05025037	520	520
TAX1BP1	0.095245735	0.029882134	0.05036724	520	520
ZNF876P	0.09521083	0.029942535	0.05045318	520	510
APLF	0.095210488	0.029943128	0.05045318	520	520
CCDC152	0.095188442	0.029981332	0.05050489	520	519
KCNH2	0.095151204	0.030045958	0.0506053	520	516
ENTPD4	0.095069122	0.03018883	0.05082471	520	520
RAD50	0.095066477	0.030193444	0.05082824	520	520
SNAP47	0.095044976	0.030230971	0.05087867	520	520
C14orf145	0.095041558	0.03023694	0.05088446	520	520
ZFYVE9	0.095038469	0.030242335	0.0508854	520	520
NEFL	0.094964007	0.030372647	0.05108726	520	518
LRFN1	0.094938258	0.030417819	0.0511547	520	519
SLC9A3R2	0.09490625	0.030474053	0.05122791	520	520
MDS2	0.094853876	0.03056626	0.05137863	520	376

BCAM	0.094839848	0.030590997	0.05141164	520	520
TMEM66	0.094809257	0.030645002	0.05148953	520	520
FAM26F	0.094757576	0.030736424	0.05162501	520	520
C6orf165	0.094720488	0.030802175	0.05172775	520	509
DHRS7C	0.094714399	0.030812981	0.05174159	520	195
KCNH7	0.094643925	0.030938289	0.05193903	520	215
LILRA4	0.094636495	0.030951527	0.05195693	520	503
RAB6C	0.094505866	0.031185035	0.05231406	520	520
C11orf49	0.094387963	0.031397087	0.05266541	520	520
ZNF585A	0.094381879	0.031408063	0.05267944	520	520
PAGE5	0.094380049	0.031411366	0.05268059	520	175
HOXA1	0.094356756	0.031453421	0.0527292	520	520
MTHFD1L	0.094347469	0.031470202	0.05275294	520	520
EDA	0.094270311	0.031609917	0.05296513	520	520
NOMO3	0.09426618	0.031617412	0.05297329	520	520
CCDC74A	0.094228685	0.031685512	0.05307856	520	520
PRDX4	0.09409786	0.031924105	0.05344717	520	520
GRLF1	0.094093784	0.031931564	0.05345521	520	520
CPNE3	0.094079826	0.031957115	0.05349355	520	520
SPOCK2	0.094074039	0.031967715	0.05350504	520	520
HLA-DRB5	0.094072436	0.031970651	0.05350504	520	520
ZC3H14	0.09403846	0.032032942	0.05359378	520	520
BAT2L2	0.093968812	0.03216096	0.05379904	520	520
RPS6KA6	0.093919521	0.032251825	0.05393761	520	356
CAPZA3	0.093771337	0.032526313	0.05436059	520	170
TPM3	0.093718978	0.032623776	0.05451445	520	520
GNAT2	0.093705106	0.03264964	0.05454862	520	442
HAND1	0.093668374	0.032718208	0.0546496	520	195
IFT81	0.093619496	0.032809642	0.05477963	520	520
GOLGA2	0.093554952	0.032930716	0.05497268	520	520
PSIMCT-1	0.093543457	0.032952319	0.05499508	520	514
MAGEC2	0.093527454	0.032982414	0.05504075	520	209
C19orf71	0.093516835	0.033002397	0.05506821	520	515
POM121	0.093515806	0.033004332	0.05506821	520	520
CPSF1	0.093482263	0.033067523	0.05516908	520	520
MORC2	0.09344222	0.033143095	0.05528144	520	520
LOC100190986	0.093376716	0.033267038	0.05548277	520	520
ADAM29	0.093308064	0.03339736	0.05568712	520	178
ZKSCAN3	0.093298718	0.033415135	0.05571215	520	520
TRIM59	0.093256205	0.033496093	0.0558379	520	520
LOC554202	0.093238141	0.033530543	0.05588609	520	516
BAZ2A	0.09323221	0.033541861	0.05589571	520	520
TSHZ1	0.093116701	0.033762927	0.05625481	520	520
SH2D4B	0.093106447	0.033782612	0.0562783	520	500
LOC442459	0.093074003	0.033844959	0.05635889	520	519
C4orf41	0.093030147	0.03392939	0.05648812	520	520

ACTR1A	0.093029325	0.033930974	0.05648812	520	520
TCF25	0.093026311	0.033936784	0.05648847	520	520
NUP153	0.092992068	0.034002847	0.05657975	520	520
QRICH1	0.092974605	0.03403658	0.05662186	520	520
SPG21	0.092967683	0.034049957	0.05663944	520	520
ZNF99	0.092954718	0.034075029	0.0566718	520	111
IVD	0.092937559	0.034108233	0.05672234	520	520
ZNF681	0.092922786	0.034136844	0.05676056	520	517
ZNF404	0.09284478	0.03428825	0.05700291	520	520
WDR60	0.092828815	0.034319309	0.05704984	520	520
MIA	0.092825276	0.034326198	0.05705659	520	472
ZBTB34	0.092816511	0.034343262	0.05708024	520	520
PNKD	0.092766484	0.034440796	0.05722817	520	520
C9orf4	0.092765039	0.034443617	0.05722817	520	146
SLC38A2	0.092746032	0.034480738	0.05727569	520	520
JAK3	0.092727707	0.034516559	0.05732575	520	520
KIAA0776	0.092702115	0.03456664	0.0574042	520	520
CLDN23	0.092682628	0.034604814	0.05745813	520	520
SUMO1P1	0.09267603	0.034617748	0.05747487	520	280
PRSS42	0.092626758	0.034714463	0.05762121	520	41
SYNJ1	0.092560271	0.034845333	0.05782415	520	520
ZNF550	0.092490129	0.034983853	0.05804447	520	520
FLJ32063	0.092415506	0.035131735	0.05827065	520	165
MAGEA9B	0.092412078	0.035138541	0.05827715	520	364
ANO2	0.092395379	0.035171714	0.05832257	520	518
ZHX1	0.092375173	0.035211887	0.05838438	520	520
C12orf75	0.09237072	0.035220745	0.05838947	520	520
TAF4B	0.09236653	0.035229083	0.05839849	520	520
DIRAS2	0.092344443	0.035273058	0.05846015	520	435
CD300LG	0.092343481	0.035274975	0.05846015	520	396
LRP2BP	0.092314375	0.035333001	0.0585515	520	519
SHQ1	0.092312243	0.035337253	0.05855178	520	520
PHYHIPL	0.092311378	0.035338979	0.05855178	520	492
LOC390858	0.092306718	0.035348278	0.05855756	520	29
ZNF738	0.092304086	0.035353531	0.05855899	520	520
POLR2A	0.092303378	0.035354945	0.05855899	520	520
IPO4	0.092236233	0.035489185	0.05876689	520	520
GALK2	0.092218053	0.035525605	0.05882233	520	520
ITGAL	0.092204255	0.035553269	0.05885847	520	520
RGS8	0.09212505	0.03571242	0.05911709	520	88
TPO	0.092096518	0.0357699	0.05919525	520	468
ZNF629	0.092095782	0.035771384	0.05919525	520	520
C14orf102	0.092087446	0.035788192	0.05921821	520	520
SLC7A5	0.092079123	0.035804981	0.05923141	520	520
ATRNL1	0.091860681	0.036248027	0.05992009	520	482
ATG9A	0.091844981	0.036280048	0.05996319	520	520

TNRC6A	0.091787685	0.036397113	0.06014188	520	520
CCND3	0.091776943	0.036419095	0.06016834	520	520
MAN1B1	0.091701669	0.036573458	0.06041347	520	520
CPAMD8	0.091687008	0.036603588	0.06045829	520	520
SLC41A3	0.091671829	0.036634805	0.06050489	520	520
SLC1A2	0.091627893	0.036725288	0.06064439	520	512
ANKDD1A	0.09160578	0.0367709	0.0607048	520	520
ZNF831	0.091582314	0.036819356	0.06077982	520	514
CASC5	0.091504817	0.036979769	0.06101964	520	520
SNORD115-26	0.091468426	0.037055298	0.06113427	520	39
GAGE2E	0.091445931	0.037102054	0.06119639	520	31
C13orf38	0.091382185	0.037234818	0.06140532	520	445
HCST	0.091379341	0.03724075	0.06141008	520	520
TOP3A	0.091339458	0.037324032	0.06153735	520	520
PNRC1	0.091331968	0.037339689	0.06155813	520	520
FCRL6	0.091309006	0.037387726	0.06163229	520	495
ANKRD33	0.091247763	0.037516103	0.06182875	520	210
AASDHPPT	0.091233627	0.037545787	0.06187261	520	520
SNX17	0.091174436	0.037670301	0.06207273	520	520
MTX3	0.091151573	0.03771849	0.06214705	520	520
CHRM5	0.091129442	0.037765184	0.0622189	520	466
NFKB1	0.091106683	0.037813256	0.06229301	520	520
FAM86D	0.091084913	0.037859288	0.06236375	520	520
PAFAH1B1	0.091019927	0.037996977	0.06258034	520	520
KDM4D	0.09101744	0.038002255	0.06258392	520	519
RGS10	0.090976564	0.03808909	0.06271155	520	520
AGAP2	0.090931755	0.038184474	0.0628532	520	520
PCDHA8	0.090911942	0.038226713	0.06290804	520	186
TPTE	0.090853108	0.038352375	0.06310382	520	371
JAKMIP3	0.090801187	0.038463562	0.06327499	520	498
FGF6	0.090800134	0.038465822	0.06327499	520	97
FLJ10213	0.090772078	0.038526019	0.06335851	520	503
UNC5D	0.090713364	0.038652257	0.06355056	520	230
10-Mar	0.090651384	0.038785896	0.06375127	520	420
C11orf53	0.090584819	0.038929856	0.06396525	520	477
CHKB	0.090556228	0.038991829	0.06406186	520	520
PAX8	0.090517023	0.039076945	0.06418079	520	520
LZTS2	0.090378528	0.039378883	0.06463984	520	520
TBX1	0.090357471	0.039424962	0.06470494	520	520
CTLA4	0.090327584	0.039490443	0.06479659	520	519
GALNT6	0.090311426	0.039525882	0.06484419	520	520
RB1	0.09029375	0.039564683	0.06490256	520	520
FTSJD2	0.090276949	0.039601592	0.06495782	520	520
APOL6	0.090265769	0.03962617	0.06498877	520	520
HCFC1	0.090265433	0.039626908	0.06498877	520	520
ZFYVE26	0.090113065	0.039963152	0.06548696	520	520

EEF1DP3	0.090042739	0.040119158	0.06572404	520	498
FBXO38	0.090024433	0.040159852	0.06577994	520	520
RBM44	0.090006752	0.040199188	0.06583095	520	512
MTCH1	0.089989574	0.040237438	0.06588288	520	520
WSB2	0.089972604	0.040275253	0.06592339	520	520
SNHG3-RCC1	0.089937336	0.040353941	0.06604682	520	518
TERF2IP	0.089930131	0.040370032	0.06606609	520	520
C16orf86	0.089820625	0.040615267	0.0664167	520	520
OR1J4	0.089820226	0.040616163	0.0664167	520	278
RNF213	0.089805406	0.040649448	0.06646574	520	520
SLCO1B3	0.089793005	0.040677319	0.06650592	520	473
ACTR3	0.089779278	0.040708189	0.06655099	520	520
OPRD1	0.089758536	0.040754871	0.06662191	520	92
NCRNA00113	0.089746548	0.040781873	0.06666064	520	20
USP35	0.089736608	0.040804273	0.06668644	520	520
GJD2	0.089698958	0.040889211	0.06681443	520	74
ZNF193	0.089654333	0.040990078	0.06697382	520	520
ZNF546	0.089541265	0.041246593	0.06737111	520	519
HOXA11AS	0.089524433	0.041284894	0.0674282	520	464
SLC25A40	0.089518492	0.041298421	0.06744483	520	520
C1orf84	0.089496627	0.041348235	0.06752072	520	520
PASD1	0.089470475	0.04140788	0.06759075	520	133
SLC39A12	0.089444921	0.041466234	0.06768052	520	217
SAMD5	0.089438022	0.041482	0.06770077	520	520
CTTN	0.089430094	0.041500123	0.06771391	520	520
IER3	0.089417839	0.04152815	0.06774868	520	520
GDI1	0.089390593	0.041590524	0.06783945	520	520
FBXO39	0.08933094	0.041727357	0.06804063	520	517
PUS7	0.089313598	0.041767207	0.0681001	520	520
DHX38	0.08930748	0.041781274	0.06811753	520	520
LMF1	0.08925495	0.041902215	0.06830366	520	520
NUFIP2	0.089224224	0.041973093	0.06840813	520	520
KIF17	0.08917948	0.042076489	0.06857111	520	520
PHEX	0.089170353	0.042097607	0.06859998	520	516
BRD3	0.0891314	0.042187832	0.0687359	520	520
ZC3H3	0.089127854	0.042196055	0.06874016	520	520
ELF2	0.089108855	0.042240129	0.06879887	520	520
ZNF841	0.089051909	0.042372464	0.06899769	520	520
C11orf57	0.089043885	0.042391139	0.06902252	520	520
DAAM1	0.088970737	0.042561701	0.06927786	520	520
C14orf180	0.088916295	0.042689022	0.06947389	520	70
C17orf101	0.088896095	0.042736346	0.06953407	520	520
PTGDS	0.088889745	0.04275123	0.06955267	520	520
XKR3	0.088863218	0.04281346	0.06962162	520	157
C15orf26	0.088846274	0.042853248	0.06967929	520	472
ZFP112	0.088818721	0.042918017	0.06976773	520	520

TAS2R38	0.088769289	0.043034422	0.06992891	520	284
SCN8A	0.088699585	0.043199018	0.07017361	520	514
LOC100233209	0.088643295	0.043332326	0.07036748	520	519
C1orf91	0.088622097	0.043382617	0.0704378	520	520
PSMD2	0.088608731	0.043414352	0.07048366	520	520
BRI3	0.088590151	0.043458501	0.07054965	520	520
PLAT	0.088557836	0.043535375	0.07066307	520	520
NGFR	0.088528334	0.043605657	0.07076006	520	520
NPC2	0.088518692	0.043628647	0.07078764	520	520
C1orf144	0.088508081	0.043653959	0.07080994	520	520
C3orf65	0.088462454	0.043762945	0.07098102	520	345
OSBPL7	0.088460261	0.043768189	0.07098382	520	520
C1orf109	0.088422605	0.043858317	0.07110155	520	520
RRN3P1	0.088422564	0.043858415	0.07110155	520	518
CRYBG3	0.088417868	0.043869665	0.07111407	520	520
TOMM34	0.088403993	0.043902921	0.07116226	520	520
SETDB2	0.088376583	0.043968681	0.07125739	520	520
LOC728723	0.088368469	0.043988161	0.07127751	520	483
TMEM109	0.088352091	0.044027509	0.07133553	520	520
KLHL36	0.088340111	0.044056307	0.07137072	520	520
NAAA	0.088281164	0.044198245	0.07158341	520	520
LMLN	0.088247061	0.044280537	0.0716879	520	520
NRSN1	0.088197342	0.044400741	0.07187096	520	176
IRF2	0.088195147	0.044406054	0.07187379	520	520
ZNF426	0.088186244	0.044427609	0.07190291	520	519
LOC284440	0.08817027	0.044466306	0.07195976	520	520
SAGE1	0.088137388	0.044546053	0.07207724	520	188
ZNF436	0.088109985	0.044612605	0.07217334	520	520
STX3	0.088096157	0.044646219	0.07222193	520	520
ABCA2	0.087957917	0.044983441	0.0727266	520	520
SPP2	0.08789394	0.04514023	0.07296253	520	31
IL27RA	0.087883694	0.045165382	0.07299149	520	520
SENP6	0.087863481	0.045215036	0.07306588	520	520
CES7	0.087853385	0.045239857	0.07308841	520	332
ZNF268	0.087844116	0.045262652	0.07311938	520	520
ADCY5	0.087834269	0.045286881	0.07315266	520	506
ZNF468	0.087832773	0.045290561	0.07315275	520	519
TSPAN31	0.087815392	0.045333356	0.073216	520	520
PHKB	0.087794011	0.045386046	0.07327299	520	520
RAI1	0.087793701	0.04538681	0.07327299	520	520
ZNF251	0.087786479	0.045404618	0.07329	520	520
INHA	0.087761752	0.045465638	0.07337088	520	500
ASCC1	0.087755385	0.045481362	0.07339038	520	520
INTS6	0.0876289	0.045794667	0.07385457	520	520
CLCN7	0.087619799	0.04581728	0.07388513	520	520
MLN	0.08754036	0.046015058	0.07416848	520	5

ALG11	0.087528517	0.046044603	0.07421016	520	520
BEND3	0.087512696	0.0460841	0.07426195	520	520
PKP2	0.087456165	0.046225457	0.07446594	520	520
NONO	0.087431886	0.046286281	0.07454605	520	520
PCA3	0.087421904	0.046311306	0.07457444	520	106
C21orf122	0.087383176	0.04640851	0.07471903	520	520
RELT	0.087342744	0.046510171	0.07487076	520	520
PSG8	0.087341141	0.046514204	0.07487127	520	180
SYNRG	0.087331222	0.046539175	0.07489951	520	520
HLA-C	0.087269424	0.046695003	0.07512057	520	520
SLC7A3	0.087269361	0.046695161	0.07512057	520	205
CDH22	0.087264706	0.046706918	0.07513349	520	444
SOX8	0.087258501	0.046722591	0.07514072	520	517
CARD11	0.087255342	0.046730573	0.07514756	520	520
GPR156	0.087215078	0.0468324	0.0752933	520	502
BCKDK	0.087195695	0.046881487	0.07536621	520	520
ZNF420	0.087184206	0.046910602	0.075407	520	518
FDXACB1	0.087129993	0.047048195	0.07559901	520	520
PLEKHB1	0.087102495	0.047118114	0.07569832	520	520
N4BP2L1	0.087099767	0.047125053	0.07570344	520	519
CXCL16	0.087073083	0.047192994	0.07579447	520	520
ZNF529	0.087032427	0.047296669	0.07594888	520	520
MAGEB2	0.08701317	0.047345841	0.07601573	520	279
FAM20B	0.086962358	0.047475792	0.07620617	520	520
FLJ39739	0.086932395	0.047552565	0.07631725	520	482
ZNF461	0.086894977	0.047648581	0.07645917	520	519
DLGAP3	0.086867221	0.047719911	0.07656754	520	518
HAR1A	0.086796238	0.047902737	0.07683999	520	513
ARRDC2	0.086793605	0.047909528	0.07683999	520	520
GP9	0.086792736	0.047911771	0.07683999	520	109
GPM6A	0.086792424	0.047912577	0.07683999	520	443
SPDYE3	0.086722144	0.0480942	0.07711287	520	520
CAPRIN2	0.086717608	0.048105942	0.07712206	520	520
KIAA1609	0.086567189	0.048496686	0.07772112	520	520
MR1	0.08653453	0.048581874	0.07785146	520	520
CSNK2A1	0.086506123	0.048656073	0.07794915	520	520
TRHR	0.08649462	0.048686147	0.07798756	520	65
SIX2	0.086450948	0.048800463	0.07814347	520	520
TMTC3	0.086450036	0.048802854	0.07814347	520	520
HTT	0.086433046	0.048847389	0.07820857	520	520
PPARG	0.086422019	0.048876311	0.07824866	520	519
NFE2L3	0.086340986	0.049089295	0.0785834	520	520
3-Sep	0.086302268	0.049191334	0.078728	520	520
C8orf4	0.086239203	0.049357917	0.07898207	520	520
ADCY10	0.086173585	0.049531746	0.07923508	520	405
PDIA3	0.0861628	0.049560364	0.07927457	520	520

WDR3	0.086123464	0.049664865	0.07942282	520	520
E2F5	0.086104202	0.049716103	0.07949215	520	520
GLRA2	0.086073948	0.049796671	0.07960835	520	81
HSD17B6	0.085973029	0.050066214	0.08002022	520	520
HS3ST5	0.085934573	0.050169245	0.08017854	520	326
CYP2B6	0.08592655	0.050190762	0.08020022	520	162
DSG4	0.085916498	0.050217733	0.08023661	520	450
TTY16	0.085875535	0.050327764	0.08039365	520	22
GPD1	0.085847881	0.05040216	0.08050611	520	517
ZFP91-CNTF	0.085795845	0.050542398	0.08071093	520	309
ZBTB22	0.085684535	0.050843477	0.08116601	520	520
ABCD2	0.085663182	0.050901407	0.08125206	520	498
COPB2	0.085657175	0.050917711	0.08127165	520	520
CCDC90B	0.085653125	0.050928708	0.08127633	520	520
CABLES1	0.085636215	0.050974641	0.0813432	520	520
ACADL	0.08561417	0.051034577	0.08142595	520	426
5-Sep	0.085605678	0.05105768	0.0814556	520	520
NEUROG3	0.085601872	0.051068038	0.0814556	520	75
ARID4A	0.085601402	0.051069316	0.0814556	520	520
CARD10	0.085571853	0.051149791	0.0815517	520	520
CASP8AP2	0.085566479	0.051164439	0.08156861	520	520
APC	0.085541512	0.051232532	0.08166448	520	520
PEPD	0.085530837	0.051261671	0.08170424	520	520
IKZF3	0.0855215	0.051287167	0.08173842	520	502
INSM2	0.085504644	0.051333223	0.08179889	520	313
ARF1	0.085495691	0.051357701	0.08182496	520	520
KCNC4	0.085492827	0.051365534	0.08183097	520	520
C19orf38	0.085445956	0.05149385	0.08202243	520	520
CEBPB	0.085390806	0.051645175	0.08225048	520	520
ZMAT4	0.085375441	0.051687401	0.08231123	520	214
ENPP6	0.08531737	0.051847247	0.08254622	520	483
SMAD1	0.085265757	0.051989665	0.08275452	520	520
PTPLA	0.08522352	0.052106456	0.08293272	520	520
FOXR2	0.085215685	0.052128144	0.08296069	520	39
ZKSCAN4	0.085200122	0.052171248	0.08301618	520	520
RHO	0.085149177	0.052312551	0.08320819	520	172
LOC338588	0.085099013	0.052452003	0.08341027	520	84
TRPM3	0.085087548	0.052483917	0.08345444	520	318
PECI	0.085067274	0.052540393	0.08352448	520	520
IL18BP	0.085026944	0.052652888	0.08369672	520	520
FAM21C	0.084960623	0.052838319	0.08395177	520	520
TPD52L2	0.084948001	0.05287367	0.08400131	520	520
TNFRSF10C	0.084882887	0.053056357	0.08425172	520	520
NPR3	0.084869726	0.053093345	0.08429718	520	516
ZNF777	0.084840656	0.053175123	0.08441373	520	520
ARMS2	0.084837853	0.053183014	0.08441961	520	214

NCAPD2	0.084724121	0.053504002	0.08488903	520	520
MOGAT2	0.084720605	0.053513952	0.08489228	520	296
TGIF2LY	0.084720422	0.053514468	0.08489228	520	40
LRP10	0.084702477	0.05356527	0.08495282	520	520
CAB39	0.084693916	0.053589522	0.08498311	520	520
NMBR	0.084690805	0.053598334	0.08498311	520	175
KIAA0141	0.084690791	0.053598376	0.08498311	520	520
LOC221710	0.084685548	0.053613234	0.08499546	520	520
RBM1J	0.084672627	0.053649865	0.08502813	520	15
PCDH11X	0.084670464	0.053656	0.08502813	520	274
BNIP2	0.084669355	0.053659143	0.08502813	520	520
ANKRD13B	0.084630121	0.053770516	0.08517784	520	520
NR1D2	0.084627406	0.053778232	0.08518337	520	520
MCF2L2	0.084600387	0.053855051	0.08527825	520	520
MGST3	0.08446342	0.054245875	0.08582971	520	520
HBP1	0.084436921	0.054321761	0.08593981	520	520
C5orf52	0.084436144	0.054323985	0.08593981	520	27
NPY5R	0.084428096	0.054347052	0.08596956	520	167
SEL1L3	0.084374102	0.054502007	0.08618763	520	520
PGAM4	0.08431631	0.054668269	0.08643699	520	520
PAPOLA	0.084298314	0.054720126	0.08650542	520	520
C15orf28	0.084256353	0.054841205	0.08667644	520	411
ZNF317	0.084235321	0.054901975	0.08675209	520	520
DDX50	0.08420966	0.054976199	0.08684896	520	520
GBP3	0.084200023	0.055004093	0.08688622	520	520
TNFSF10	0.084197855	0.055010371	0.08688933	520	520
TARS	0.084140739	0.055175956	0.08712357	520	520
RIMS2	0.084116775	0.055245555	0.08722664	520	514
NEFM	0.084073791	0.055370578	0.08741719	520	497
CPNE1	0.084065917	0.055393502	0.08744653	520	520
ITGB4	0.084046855	0.055449041	0.08752051	520	520
IFNA16	0.084042065	0.055463003	0.08753569	520	3
MYCBP2	0.084013264	0.055547019	0.08765367	520	520
WDR11	0.08401197	0.055550798	0.08765367	520	520
ACPL2	0.084006063	0.055568042	0.08767402	520	520
SLC22A3	0.083971854	0.055668004	0.08780763	520	520
C8orf58	0.083971123	0.055670142	0.08780763	520	520
CFHR1	0.083968465	0.055677917	0.08781302	520	272
STXBP6	0.083933929	0.055778997	0.08795868	520	510
SYT4	0.083907361	0.055856864	0.08807459	520	209
C9orf91	0.083881022	0.055934148	0.08817576	520	520
LRBA	0.083866303	0.055977375	0.08822321	520	520
MIXL1	0.083858959	0.055998953	0.08825032	520	337
ARHGDI1A	0.083853688	0.056014443	0.08826784	520	520
NRXN1	0.083838373	0.056059476	0.0883319	520	427
ARL1	0.083818709	0.056117338	0.08839544	520	520

ADCYAP1	0.083795758	0.056184937	0.08848809	520	496
THNSL2	0.083741764	0.056344233	0.08872512	520	518
ANKRD6	0.083691878	0.056491741	0.08895045	520	519
C10orf131	0.083687384	0.056505047	0.08896446	520	346
UCP3	0.083613402	0.056724439	0.0893029	520	519
FUNDC2P2	0.083603817	0.056752915	0.08934076	520	520
CCR9	0.083553633	0.0569022	0.08956877	520	290
PEG3AS	0.083513666	0.057021325	0.08974451	520	154
DARS	0.083513189	0.057022747	0.08974451	520	520
KCTD21	0.083470294	0.057150832	0.08993206	520	520
TAF1A	0.083464579	0.057167915	0.08995192	520	520
CPSF2	0.083380549	0.057419579	0.09032676	520	520
C13orf39	0.083352874	0.057502666	0.09045041	520	59
DUSP16	0.083344266	0.057528529	0.09047697	520	520
NCOA1	0.083318328	0.057606522	0.09059257	520	520
GNE	0.08328985	0.057692252	0.09072031	520	520
PINK1	0.083281537	0.057717296	0.09075262	520	520
ZBTB39	0.083244358	0.057829417	0.09091473	520	520
SPAG8	0.083194103	0.05798126	0.09113213	520	509
NEU1	0.083152039	0.058108609	0.09129671	520	520
PXT1	0.083131156	0.058171916	0.09138905	520	361
FIBP	0.083118094	0.058211546	0.09144419	520	520
TOP1P1	0.083093009	0.058287711	0.0915567	520	520
C9	0.083046065	0.058430469	0.0917595	520	359
TUBGCP4	0.083042427	0.058441545	0.09176975	520	520
C19orf44	0.083026155	0.058491106	0.09183327	520	520
PCNXL3	0.082999153	0.058573421	0.09195535	520	520
TBRG1	0.082973276	0.058652396	0.09206499	520	520
ABCC6P2	0.082911707	0.058840661	0.09234613	520	434
NR1D1	0.082898798	0.058880196	0.0923938	520	520
ZNF252	0.082889174	0.058909685	0.09242568	520	520
TUSC3	0.082842971	0.059051428	0.09262645	520	520
PLEKHB2	0.082749452	0.059339193	0.09302717	520	520
CACNA1D	0.082735066	0.059383563	0.0930895	520	504
C6orf217	0.082644668	0.059663	0.0934912	520	336
HNRNPUL1	0.08264036	0.059676343	0.09350484	520	520
KIF4B	0.082363957	0.060537665	0.09478077	520	520
OR5P3	0.082304964	0.060722823	0.09504114	520	69
RCAN3	0.082299022	0.060741498	0.09505248	520	520
SLCO3A1	0.082280608	0.060799403	0.09513146	520	520
TXNRD1	0.082223272	0.060979995	0.09537703	520	520
RRAD	0.082126362	0.061286243	0.09584115	520	520
SERPIND1	0.082119529	0.061307885	0.09586756	520	433
IPP	0.082090358	0.061400344	0.09599326	520	520
CCDC42	0.082070921	0.061462014	0.09607132	520	361
RAP1GDS1	0.082057702	0.061503983	0.09612947	520	520

ZCCHC2	0.08204236	0.061552727	0.0961982	520	520
TCEAL4	0.082014153	0.061642422	0.09632345	520	520
MOSC2	0.081989368	0.061721327	0.09642433	520	519
PPM1A	0.081928681	0.061914875	0.09670422	520	520
GPC1	0.081832968	0.062221154	0.09716755	520	520
OR8G5	0.081799763	0.062327699	0.09732639	520	13
SPATA4	0.081752394	0.062479955	0.09752638	520	221
C18orf54	0.08173981	0.062520453	0.09757449	520	520
CRHBP	0.081710289	0.062615545	0.09770777	520	427
CRAMP1L	0.081670804	0.062742923	0.09788238	520	520
ZNF132	0.081650659	0.062807991	0.09796259	520	519
GKN2	0.08161253	0.0629313	0.09813973	520	114
CHD1	0.081602022	0.062965316	0.09817759	520	520
DNMT3A	0.081553735	0.063121834	0.09840642	520	520
GPR111	0.081550594	0.063132027	0.0984147	520	490
TRIM27	0.081510497	0.063262258	0.09859485	520	520
DENND4B	0.081450003	0.063459154	0.09889407	520	520
C4orf37	0.081418638	0.06356144	0.09904582	520	254
NELL1	0.081400332	0.063621201	0.09911596	520	388
KIAA1244	0.081381694	0.063682091	0.09919549	520	519
DCC	0.081353426	0.063774539	0.09933183	520	356
ZNF775	0.081328076	0.063857535	0.09945341	520	520
KDM3B	0.081309286	0.063919113	0.09954163	520	520
CDA	0.081222099	0.064205476	0.09994127	520	520
GH2	0.081218985	0.064215721	0.0999495	520	55
C19orf34	0.081214422	0.064230741	0.09996516	520	188
ATP13A2	0.081149989	0.064443115	0.10028795	520	520
RPL23AP53	0.081138736	0.064480266	0.10033802	520	520
GABBR2	0.081095756	0.064622317	0.10053579	520	455
BRCA2	0.081065928	0.064721051	0.10068163	520	520
ARHGAP30	0.081034612	0.064824847	0.10081976	520	520
RASGRP2	0.081000036	0.064939606	0.10099045	520	520
GCM1	0.080960125	0.065072279	0.10117337	520	354
URB1	0.080796004	0.0656202	0.10193881	520	520
VAMP5	0.080762903	0.065731164	0.10209546	520	520
LEPREL1	0.080755231	0.065756905	0.10212334	520	520
NDE1	0.080754533	0.065759249	0.10212334	520	520
GPR137C	0.080701961	0.065935869	0.10238975	520	519
PLEKHH2	0.080669147	0.066046304	0.10254544	520	520
TRIM78P	0.080609145	0.066248641	0.10282793	520	490
TOP2B	0.080567828	0.066388264	0.10301312	520	520
PLCZ1	0.080567791	0.06638839	0.10301312	520	185
PNO1	0.080529309	0.066518648	0.10319142	520	520
SIAH3	0.080498534	0.066622971	0.1033453	520	280
NEK7	0.080451832	0.066781538	0.10357534	520	520
VWA1	0.080446856	0.066798453	0.1035936	520	520

CRYGC	0.080444316	0.066807089	0.10359903	520	119
B4GALNT4	0.080431257	0.066851496	0.10365195	520	519
CLCC1	0.080333447	0.067184887	0.10412883	520	520
AP4M1	0.080331095	0.06719292	0.10413327	520	520
TSC22D3	0.0803048	0.067282789	0.10426454	520	520
ASB12	0.080290048	0.067333251	0.10431868	520	383
MATR3	0.080265922	0.067415843	0.10443862	520	520
C10orf27	0.080245618	0.067485415	0.10453837	520	146
ARF3	0.080173091	0.067734419	0.1048838	520	520
ODF3	0.080140112	0.067847892	0.10504337	520	77
FLOT1	0.080093556	0.068008344	0.10527562	520	520
MEN1	0.080084774	0.068038648	0.10531445	520	520
ARHGAP5	0.080048561	0.068163713	0.10549993	520	520
UCP2	0.080003622	0.068319181	0.10572433	520	520
CNBD1	0.079994201	0.06835181	0.1057667	520	45
MEOX1	0.079975642	0.068416123	0.1058581	520	520
IFIT3	0.079961064	0.068466679	0.10592006	520	520
TSNAX-DISC1	0.079954966	0.068487834	0.10594466	520	186
BRAF	0.079943101	0.068529012	0.10600023	520	520
GATAD1	0.079881104	0.068744509	0.10627649	520	520
CNGA4	0.079869207	0.068785924	0.10633236	520	421
LOC728323	0.079850899	0.068849698	0.10642279	520	518
IQCK	0.079822861	0.068947461	0.10655757	520	520
CEP120	0.079750121	0.069201619	0.10688483	520	520
CLVS2	0.079736835	0.069248125	0.10694847	520	79
CHML	0.079728175	0.069278451	0.10698711	520	520
PRHOXNB	0.07972122	0.069302813	0.10701259	520	3
CXorf51	0.079720435	0.069305566	0.10701259	520	38
TTY15	0.079615452	0.069674187	0.10755706	520	408
GATAD2A	0.079579664	0.069800214	0.10772687	520	520
B4GALT7	0.079561962	0.069862621	0.10780668	520	520
ATP2C1	0.079535044	0.069957605	0.10794499	520	520
ZNF302	0.079440966	0.070290401	0.10840543	520	520
WBP11	0.07939597	0.070450029	0.10862999	520	520
HBA1	0.079387429	0.070480365	0.10866846	520	505
C22orf30	0.07931471	0.070739061	0.10898399	520	520
ZNF778	0.079278777	0.07086718	0.1091562	520	520
PHF16	0.079277287	0.070872497	0.1091562	520	520
STK36	0.079273579	0.070885728	0.10916824	520	520
CCDC68	0.079264283	0.070918912	0.10919433	520	516
PLD5	0.079193683	0.071171335	0.10954611	520	309
ARHGAP12	0.07918668	0.071196415	0.10956853	520	520
PPP2R5D	0.079166959	0.071267078	0.10966341	520	520
C20orf29	0.079151487	0.071322555	0.10973203	520	520
MAGEC1	0.079109691	0.071472598	0.10995449	520	201
NDUFS1	0.07908994	0.071543593	0.11004686	520	520

CNTNAP5	0.079082264	0.071571201	0.11007259	520	187
AP1G1	0.079063854	0.071637446	0.11014926	520	520
ESRRB	0.079055184	0.071668662	0.11017206	520	418
ASMTL	0.078975808	0.071954967	0.11056596	520	520
C12orf66	0.078948299	0.072054406	0.11069753	520	520
CCDC86	0.078894983	0.072247452	0.11097719	520	520
C1QTNF9	0.078865549	0.07235421	0.11113272	520	291
SLAMF1	0.078825497	0.072499685	0.1113392	520	520
LOC100170939	0.078819472	0.072521588	0.11136435	520	517
GRM6	0.078743137	0.072799576	0.11173256	520	378
PRIC285	0.078742978	0.072800159	0.11173256	520	520
GPR77	0.078733783	0.072833703	0.11176703	520	517
HBA2	0.078724068	0.072869156	0.11179591	520	520
SPATA22	0.078633748	0.073199455	0.11223525	520	269
LAX1	0.078633585	0.073200051	0.11223525	520	518
ZNF646	0.07862596	0.073227992	0.11225754	520	520
FAM8A1	0.07862506	0.073231288	0.11225754	520	520
RILP	0.078601067	0.073319268	0.11237532	520	520
BRIP1	0.078595014	0.073341477	0.11239182	520	520
SRRM2	0.07859394	0.073345416	0.11239182	520	520
ZNF19	0.078528297	0.073586629	0.11269546	520	519
PRKCE	0.078527483	0.073589623	0.11269546	520	520
TMEM30A	0.078525797	0.073595827	0.1126964	520	520
C20orf177	0.078521722	0.073610824	0.11271081	520	520
PPP1R3F	0.07849981	0.073691509	0.11280009	520	520
CCDC48	0.078495902	0.073705906	0.11281356	520	517
CC2D1B	0.078422092	0.073978257	0.11318746	520	520
HEATR5B	0.078419873	0.073986458	0.11319142	520	520
CCL3L1	0.078398229	0.074066485	0.11328807	520	513
MAP2K1	0.078380767	0.074131104	0.11336971	520	520
NIPAL1	0.078373831	0.074156782	0.11340038	520	520
OST4	0.078332894	0.074308486	0.11360651	520	520
WFIKKN2	0.078329565	0.074320834	0.11361678	520	373
UHRF2	0.078280539	0.074502873	0.11385577	520	520
CCDC103	0.07827986	0.074505398	0.11385577	520	520
TMPRSS6	0.078268625	0.074547164	0.11390362	520	517
RGS2	0.078239003	0.074657386	0.11406209	520	520
TAF5L	0.07820673	0.07477762	0.11422848	520	520
GTF2H2C	0.078104759	0.075158551	0.11475822	520	520
SPIN3	0.078100812	0.075173327	0.11477209	520	519
SPINK1	0.078072921	0.075277811	0.11492291	520	406
UBIAD1	0.078066493	0.075301907	0.11495099	520	520
GORAB	0.077979518	0.075628575	0.11539724	520	520
SLC35F4	0.077915443	0.07586997	0.11574806	520	231
ZNF24	0.077889655	0.075967298	0.11588777	520	520
NPRL3	0.077833167	0.076180851	0.11617035	520	520

DGCR11	0.077812621	0.076258643	0.11627944	520	520
FAM71F1	0.077765585	0.076436983	0.11652494	520	364
PRTN3	0.077759896	0.076458577	0.11654904	520	110
TDRD3	0.077724611	0.076592617	0.11674454	520	520
CAPN2	0.07772089	0.076606761	0.11675727	520	520
PIGG	0.077680903	0.076758915	0.11696265	520	520
ZNF790	0.077599081	0.07707102	0.11739387	520	519
PGF	0.077592984	0.077094319	0.11742049	520	520
MAPK9	0.07758411	0.077128236	0.11746327	520	520
MYST3	0.077419143	0.077761009	0.11835545	520	520
USP45	0.077357685	0.077997821	0.11868005	520	520
KDM5C	0.077321131	0.07813895	0.11886788	520	520
C2CD4B	0.077300409	0.078219046	0.11897147	520	518
INTS1	0.077298936	0.078224743	0.11897147	520	520
BCLAF1	0.077293716	0.078244933	0.1189932	520	520
GRIN3A	0.077268843	0.078341187	0.1191306	520	518
MAP7D1	0.077265993	0.078352221	0.11913544	520	520
ATP2A3	0.077264968	0.07835619	0.11913544	520	520
MEFV	0.077183171	0.078673461	0.11959979	520	519
DHRS7	0.077180682	0.078683128	0.11960547	520	520
TXNRD3IT1	0.077159217	0.078766568	0.11970524	520	520
HNRNPUL2	0.077146656	0.078815427	0.11975241	520	520
FOLR1	0.077083627	0.079060968	0.12008929	520	483
ALLC	0.077059168	0.079156423	0.12021617	520	161
MNT	0.07704689	0.079204373	0.12027088	520	520
INPP5D	0.077025018	0.079289848	0.12037362	520	520
MYO7A	0.077013676	0.079334205	0.12043175	520	520
GRID2	0.076975372	0.079484148	0.12065028	520	105
CCDC13	0.076944479	0.079605246	0.12080682	520	516
SMAP2	0.076942336	0.07961365	0.12081048	520	520
LTBR	0.076874778	0.079879018	0.1211858	520	520
SLC25A13	0.076793845	0.080197868	0.12164208	520	520
KIAA1012	0.076791562	0.080206878	0.1216466	520	520
TMEM173	0.076702701	0.080558177	0.12210592	520	520
GAGE13	0.076696177	0.080584018	0.12213444	520	53
MTMR10	0.076691835	0.08060122	0.12213444	520	520
TIGIT	0.076663627	0.080821616	0.1224408	520	519
VWCE	0.076608241	0.08093298	0.12257268	520	519
ULK1	0.076606143	0.080941321	0.1225761	520	520
TMEM72	0.076551455	0.081158974	0.12288725	520	44
TNFAIP1	0.076527901	0.081252864	0.12299247	520	520
KIAA1191	0.076518611	0.081289921	0.12303933	520	520
SACM1L	0.076469815	0.081484779	0.1233065	520	520
MCOLN1	0.076459071	0.081527733	0.12335282	520	520
PRDM9	0.076458525	0.081529918	0.12335282	520	125
CCL3L3	0.076457568	0.081533743	0.12335282	520	354

TUBB6	0.076436342	0.081618666	0.12347204	520	520
15-Sep	0.076414439	0.08170637	0.12358617	520	520
PRUNE	0.076363715	0.081909777	0.12385667	520	520
LTA	0.076358556	0.081930488	0.1238787	520	516
RAD21L1	0.076349183	0.081968126	0.12392632	520	123
PMCH	0.076318868	0.082089953	0.1241012	520	469
C7orf28B	0.076285566	0.082223959	0.12427584	520	520
HBG1	0.07628334	0.082232922	0.12428007	520	278
MECP2	0.07620324	0.082555985	0.12472158	520	520
CES4	0.076200652	0.08256644	0.12472803	520	393
PGK1	0.076183374	0.082636269	0.12481481	520	520
C10orf88	0.076140628	0.08280923	0.12504522	520	520
BHLHB9	0.076018703	0.083304172	0.12573885	520	520
MAEL	0.07597496	0.083482328	0.12597947	520	278
SEC16A	0.075949337	0.083586823	0.12611828	520	520
BFSP1	0.075921751	0.083699448	0.12623154	520	520
C6orf211	0.075833188	0.084061841	0.12674016	520	520
B4GALT2	0.075799448	0.084200233	0.12692035	520	520
GRIN2D	0.075762153	0.084353422	0.12713225	520	520
LOC100101266	0.075725815	0.0845029	0.12730045	520	430
RAB1A	0.075720471	0.084524898	0.12732407	520	520
C5orf22	0.075708636	0.084573636	0.12736895	520	520
XPO5	0.07566028	0.084773013	0.12764061	520	520
DENND1B	0.07563495	0.084877603	0.127779	520	520
NXF5	0.075586488	0.085077999	0.12804245	520	91
TMEM25	0.075556146	0.085203655	0.12819329	520	520
C15orf27	0.07553875	0.085275768	0.12829222	520	519
POGK	0.075519915	0.085353903	0.12839061	520	520
CCNB3	0.075457168	0.085614612	0.12875396	520	507
PTMS	0.075454988	0.085623679	0.12875643	520	520
TAS2R10	0.075453703	0.085629027	0.12875643	520	249
TMC2	0.075438503	0.085692284	0.12882273	520	264
BCL2L11	0.075429668	0.085729071	0.12885881	520	520
CLEC4M	0.075391155	0.085889581	0.12907121	520	338
SEC16B	0.075338738	0.086108423	0.12938079	520	520
KCNK15	0.075334788	0.086124933	0.12939596	520	491
TFEB	0.075323184	0.08617345	0.1294592	520	520
NOTCH1	0.075225024	0.086584733	0.13003833	520	520
ZSCAN29	0.075194669	0.086712236	0.13020073	520	520
RBMY1A3P	0.075187924	0.086740589	0.1302336	520	15
PABPC1	0.075085451	0.087172248	0.13082325	520	520
FKTN	0.075034745	0.087386486	0.13113501	520	520
MAFB	0.074995046	0.08755451	0.13135782	520	520
DYRK4	0.074893144	0.087986995	0.13194777	520	520
ZNF860	0.074854249	0.088152527	0.13218618	520	517
LPPR1	0.074848146	0.088178519	0.13221532	520	369

CHRM3	0.074832859	0.088243662	0.13228349	520	479
OR2D3	0.074792404	0.088416239	0.13252249	520	20
ASB16	0.074777661	0.088479201	0.13257744	520	517
LGSN	0.074774668	0.088491984	0.13258674	520	292
SLC26A6	0.074743081	0.088627012	0.13275946	520	520
MYL10	0.074727066	0.088695538	0.13282264	520	65
IRX2	0.074705249	0.088788955	0.13294279	520	519
KIAA0556	0.074693998	0.088837161	0.13300509	520	520
AKIRIN1	0.074631286	0.089106244	0.13339805	520	520
PSEN1	0.074628569	0.089117918	0.13340562	520	520
OR9A4	0.074590857	0.08928006	0.1336285	520	166
CERK	0.074577228	0.089338718	0.13368712	520	520
RBM46	0.074577136	0.089339117	0.13368712	520	291
KIAA0892	0.074561882	0.089404804	0.13375389	520	520
LOC285692	0.074560613	0.089410271	0.13375389	520	20
OR1G1	0.074558063	0.089421253	0.1337604	520	97
CRHR1	0.074490909	0.089710941	0.13414397	520	304
CT45A5	0.074485899	0.089732585	0.13416638	520	185
HSPC072	0.074436876	0.089944574	0.13445592	520	341
IARS	0.074393104	0.090134198	0.13472691	520	520
CD1A	0.074385973	0.090165121	0.13475315	520	518
LMO1	0.074333379	0.090393449	0.13507437	520	486
CA9	0.07429179	0.090574326	0.13533462	520	520
RNF40	0.074285733	0.090600693	0.13536399	520	520
LOC200030	0.074280054	0.090625424	0.13539091	520	520
CUL5	0.074271415	0.090663049	0.13543708	520	520
SRF	0.074258969	0.090717277	0.13550805	520	520
CD48	0.074251974	0.09074777	0.13554356	520	520
ZNF845	0.074238125	0.090808157	0.13562371	520	520
LOC400927	0.07419093	0.091014194	0.13589117	520	517
UBP1	0.074163089	0.091135917	0.13605276	520	520
FAM181B	0.07413099	0.091276417	0.13625242	520	503
HIST2H2BF	0.074074445	0.091524336	0.13659216	520	520
SOSTDC1	0.074066925	0.09155735	0.13663132	520	493
SNAPC3	0.074019112	0.091767469	0.13692587	520	520
STAMBP	0.074018921	0.091768307	0.13692587	520	520
NCF4	0.073981483	0.091933102	0.13715145	520	520
TRPC4AP	0.073958769	0.092033199	0.13729063	520	520
ZZZ3	0.073871827	0.092417151	0.1378226	520	520
ADAMTS20	0.073861357	0.092463475	0.13787695	520	409
FCER1A	0.073858955	0.092474105	0.13787695	520	518
CPEB4	0.073813346	0.092676134	0.13815774	520	520
SNN	0.073806624	0.092705938	0.13818871	520	520
TYW1B	0.073771431	0.09286211	0.13840429	520	520
INCENP	0.073751141	0.092952246	0.13851012	520	520
DDHD2	0.073750808	0.092953728	0.13851012	520	520

GFRAL	0.073727809	0.093055981	0.138642	520	18
HSPA6	0.073687032	0.093237497	0.13889191	520	520
RRAS2	0.073593091	0.093656753	0.13947524	520	520
IGSF3	0.073548136	0.093857915	0.13975417	520	520
ZCCHC4	0.073535711	0.093913579	0.13982673	520	520
TIGD6	0.073476404	0.09417962	0.14019178	520	520
PTPRF	0.073470674	0.094205352	0.14021973	520	520
C8orf33	0.073417654	0.094443756	0.14056421	520	520
CCDC144NL	0.073387972	0.09457743	0.14074463	520	262
USP44	0.073380766	0.094609903	0.14078032	520	458
FBP2	0.073310586	0.094926649	0.14122037	520	348
FKBP1A	0.073141944	0.095691248	0.14229486	520	520
CD207	0.073121055	0.095786296	0.1424257	520	516
KLK3	0.073078028	0.095982315	0.14268559	520	194
WDR31	0.072929354	0.096662096	0.14360086	520	515
EREG	0.072884644	0.096867275	0.14385268	520	519
LDHAL6B	0.072882835	0.096875581	0.14385442	520	461
IL33	0.07283529	0.097094164	0.14416839	520	519
IL9R	0.072818177	0.097172938	0.14427473	520	509
2-Mar	0.072787432	0.097314585	0.1444744	520	520
KIAA0182	0.072736059	0.097551635	0.14480287	520	520
GDPD1	0.072732527	0.097567951	0.1448079	520	517
CP110	0.072718545	0.097632555	0.14488518	520	520
HIC2	0.072697252	0.09773101	0.14498745	520	520
USP2	0.072643266	0.097980979	0.14532464	520	520
PIP5K1B	0.07263823	0.09800432	0.14533788	520	514
SOX1	0.072618715	0.098094824	0.14545886	520	334
ZNF816A	0.072606692	0.098150614	0.14550132	520	520
PEX12	0.072590688	0.098224916	0.14560076	520	520
ABAT	0.072568781	0.098326699	0.14574093	520	520
IL1RL1	0.07250956	0.098602266	0.14612789	520	517
FBXO21	0.07250784	0.098610277	0.14612902	520	520
MGC15885	0.072389624	0.099162234	0.14688219	520	144
NUBPL	0.072377236	0.099220213	0.14695728	520	520
OBP2B	0.072321721	0.099480385	0.14731016	520	210
IAH1	0.072303745	0.099564743	0.14742425	520	520
KLC4	0.07230088	0.099578196	0.14743335	520	520
KAZALD1	0.072267365	0.099735648	0.14762311	520	519
SKINTL	0.072263984	0.099751539	0.14763579	520	149
CXCL6	0.072223865	0.099940301	0.14789346	520	515
TERF1	0.072214696	0.099983482	0.1479465	520	520
FXR2	0.072182006	0.100137553	0.14816361	520	520
KDM2A	0.072161031	0.100236511	0.14829914	520	520
TRUB1	0.072152376	0.100277368	0.14834871	520	520
OXR1	0.072133963	0.100364327	0.14846166	520	520
TMLHE	0.072133091	0.100368448	0.14846166	520	520

FERD3L	0.072062283	0.100703433	0.14891347	520	49
KIAA0913	0.07204167	0.100801116	0.1490142	520	520
NCRNA00175	0.072031751	0.100848151	0.1490728	520	204
FEM1C	0.071987315	0.101059064	0.14936267	520	520
ANKRD45	0.071984782	0.1010711	0.14936951	520	488
SLC6A5	0.071891354	0.10151574	0.14997167	520	90
XIAP	0.071850022	0.101712943	0.15025101	520	520
STAT1	0.071822606	0.101843916	0.15040764	520	520
DFFB	0.071745353	0.102213693	0.15090327	520	520
SNORA16B	0.071709068	0.10238774	0.15114916	520	10
DOPEY2	0.071705413	0.102405288	0.151164	520	520
KIAA1751	0.071698996	0.102436096	0.15119841	520	461
DUSP19	0.07169732	0.102444146	0.15119922	520	520
PSG4	0.071686784	0.102494746	0.15125176	520	460
KRTAP13-1	0.071656932	0.102638235	0.15145242	520	47
NDUF4F3	0.071648786	0.102677416	0.15148807	520	520
OR10A3	0.071636183	0.102738062	0.15153319	520	167
GRAP2	0.071590114	0.10295998	0.1518383	520	518
CORO1B	0.071587268	0.102973699	0.15184742	520	520
T	0.071564395	0.103084038	0.1519879	520	211
RAMP3	0.071487216	0.103457024	0.15249323	520	520
LOC100133469	0.071470128	0.103539746	0.15259105	520	99
RBP1	0.071468819	0.103546087	0.15259105	520	520
WDR48	0.071450532	0.103634679	0.15271044	520	520
FLT3	0.071434238	0.10371367	0.15279261	520	511
BTNL8	0.071424216	0.103762276	0.15284261	520	444
VWA3B	0.071389547	0.103930561	0.15307932	520	466
TLR9	0.071337203	0.104185052	0.15342054	520	518
SMARCA2	0.071320503	0.104266353	0.15351783	520	520
RNF113B	0.07130864	0.104324133	0.15359169	520	95
TAS2R30	0.071274183	0.104492108	0.15382322	520	100
C12orf51	0.071271095	0.104507172	0.15382748	520	520
KRT75	0.071268904	0.104517861	0.15383198	520	519
TCP10L	0.071264603	0.104538844	0.15385164	520	504
ZNF696	0.071239963	0.104659136	0.15401743	520	520
CCR7	0.071195546	0.104876254	0.15430316	520	520
PHF6	0.071186925	0.104918435	0.15435396	520	520
LOC654433	0.071156146	0.105069145	0.1545644	520	520
GFI1	0.071142369	0.10513666	0.15465244	520	520
OR1J2	0.071083021	0.105427893	0.1550469	520	335
PDE6D	0.070971819	0.105975294	0.15573834	520	520
FAM9A	0.070928097	0.106191133	0.15599869	520	29
FSTL5	0.070920871	0.106226837	0.15603977	520	301
WDR36	0.070911596	0.106272686	0.15609007	520	520
GZMK	0.070910812	0.106276558	0.15609007	520	517
LOC100133669	0.070854501	0.106555235	0.15646517	520	498

C19orf63	0.070847447	0.106590187	0.1564937	520	520
USP9Y	0.070833882	0.106657422	0.15656962	520	442
CHUK	0.070771403	0.106967533	0.15697914	520	520
CNPY3	0.070708012	0.107282903	0.15737323	520	520
C9orf150	0.070696535	0.107340078	0.15744565	520	520
CCDC121	0.070670044	0.107472142	0.15760497	520	518
C11orf61	0.070614966	0.10774713	0.15796227	520	520
RAVER1	0.070572773	0.107958161	0.15821414	520	520
KLHL23	0.070504697	0.108299336	0.15865648	520	509
FBXO16	0.070468689	0.108480145	0.15889827	520	483
RHAG	0.070454978	0.108549053	0.15897611	520	70
LRRCC1	0.070433053	0.108659313	0.15912604	520	520
ZNF594	0.070418302	0.10873355	0.15921163	520	520
ZNF498	0.070415412	0.108748099	0.15922137	520	520
AVIL	0.070390169	0.108875239	0.15938437	520	519
ADRA1A	0.070375956	0.108946877	0.15945451	520	254
ST6GALNAC4	0.070289009	0.109385921	0.16001579	520	520
C9orf93	0.070274459	0.109459531	0.16008863	520	520
IL22RA2	0.070251851	0.109573978	0.16020953	520	512
MIER3	0.070249215	0.10958733	0.16021744	520	520
RPL10L	0.070243616	0.109615692	0.1602322	520	112
LOC285033	0.070223029	0.109720026	0.16035331	520	520
C21orf29	0.070150512	0.110088155	0.160868	520	422
POLR2B	0.070143483	0.11012389	0.16090134	520	520
BCL2L13	0.07014121	0.110135446	0.16090213	520	520
LOC100133050	0.070128849	0.110198318	0.16098231	520	50
EPM2AIP1	0.070097849	0.110356109	0.16117779	520	520
PSMF1	0.06991182	0.111306747	0.16246031	520	520
ATXN2L	0.069907922	0.111326734	0.16247773	520	520
DFNB31	0.069882629	0.111456499	0.16264357	520	520
FAM26D	0.069860404	0.111570627	0.16279833	520	114
LOC220594	0.069826259	0.111746134	0.16301903	520	517
SLC31A1	0.069778654	0.111991197	0.16334108	520	520
KIAA1328	0.06976339	0.112069861	0.16343217	520	520
HCG9	0.069748688	0.112145672	0.1635309	520	80
TPTE2P1	0.069746027	0.112159399	0.16353909	520	444
C22orf28	0.069686578	0.112466385	0.16396299	520	520
PLEKHA8	0.069582623	0.11300478	0.16471219	520	520
C11orf66	0.069502957	0.113418745	0.16523196	520	518
IL8	0.069487753	0.113497884	0.16533531	520	520
SOS2	0.06944017	0.113745843	0.16565518	520	520
CHORDC1	0.069435123	0.11377217	0.16567502	520	520
C19orf69	0.069426479	0.113817268	0.16571676	520	155
OR7G1	0.069386694	0.114025019	0.16599527	520	15
ADAM28	0.069361822	0.114155048	0.16616057	520	519
LOC144486	0.069332491	0.11430854	0.16637198	520	514

MAGEB6	0.069310726	0.114422542	0.16651387	520	210
CPT1C	0.069295508	0.114502303	0.16660589	520	520
LCK	0.069270744	0.114632195	0.16677591	520	520
METTL14	0.06926976	0.114637356	0.16677591	520	520
ADA	0.069262466	0.114675638	0.16679792	520	520
ZNF467	0.069229224	0.114850227	0.16700368	520	520
FRG1B	0.069166681	0.115179275	0.16740971	520	520
DENND4C	0.069156709	0.115231811	0.167474	520	520
GNAL	0.069145073	0.115293135	0.16755105	520	520
BTA1F1	0.069138834	0.115326024	0.16756261	520	520
SENP1	0.069103896	0.115510342	0.16780623	520	520
C6orf218	0.069101844	0.115521178	0.16780989	520	457
RGS7	0.069076819	0.115653351	0.16796558	520	297
PSG7	0.069060424	0.115740005	0.16807857	520	188
DVL3	0.069036589	0.11586608	0.16823818	520	520
GALNT13	0.069020555	0.115950951	0.16834929	520	498
C10orf96	0.068972412	0.116206074	0.16869541	520	21
MUS81	0.068964646	0.116247268	0.16874306	520	520
TBX22	0.068945457	0.116349105	0.16887873	520	42
TMEM209	0.068932019	0.116420464	0.16897015	520	520
PLA2G1B	0.068922019	0.116473588	0.16903508	520	196
C11orf64	0.068884684	0.116672097	0.16931099	520	3
SLC10A7	0.068857599	0.11681627	0.16950801	520	520
C17orf82	0.068853374	0.116838774	0.16952846	520	507
CC2D2B	0.068845941	0.116878374	0.16956152	520	488
ARHGAP11B	0.068826922	0.116979736	0.16969636	520	517
NCRNA00081	0.068779973	0.117230253	0.16999862	520	520
FKSG29	0.068761691	0.117327917	0.17011578	520	174
ZNF761	0.068725693	0.11752041	0.17037037	520	520
ALS2CR12	0.068613675	0.118120986	0.1711795	520	484
PECR	0.068603292	0.118176776	0.17124804	520	520
TBX4	0.068577239	0.118316852	0.1714387	520	483
FXR1	0.068531619	0.118562444	0.17173286	520	520
ALG8	0.068502334	0.118720311	0.17192447	520	520
JARID2	0.068468093	0.118905102	0.17215498	520	520
FOXB1	0.068430189	0.119109921	0.17243915	520	258
VPS54	0.068400399	0.119271086	0.17264768	520	520
SHROOM1	0.068356516	0.119508811	0.17296696	520	520
CPXCR1	0.068347579	0.119557265	0.17302467	520	173
C5orf23	0.068326327	0.119672561	0.17316667	520	520
KCNH1	0.068280351	0.119922289	0.17347823	520	510
PGA3	0.068256798	0.120050377	0.17365106	520	462
SSR1	0.068250385	0.120085268	0.17367661	520	520
IL31	0.068228624	0.120203737	0.17383548	520	81
GRN	0.068200124	0.120359026	0.17403509	520	520
NLRP11	0.06819152	0.120405935	0.17409044	520	277

XAGE1D	0.068157348	0.120592393	0.17434753	520	153
CTBP1	0.068136711	0.120705109	0.17446046	520	520
HOXB9	0.068132476	0.12072825	0.17446889	520	490
MON2	0.068100651	0.120902253	0.17470783	520	520
DULLARD	0.068087795	0.1209726	0.17477191	520	520
GPR19	0.068075092	0.121042146	0.17485985	520	515
LRRC34	0.068073152	0.121052769	0.17486267	520	518
RILPL2	0.068050099	0.121179053	0.17503255	520	520
TADA3	0.068010628	0.121395525	0.17530755	520	520
BHLHE40	0.067959142	0.12167834	0.1756908	520	520
FAM58B	0.067939976	0.121783755	0.17580524	520	458
SENP7	0.06789901	0.122009303	0.17609302	520	520
RAB3C	0.067856751	0.122242308	0.17636619	520	366
ABCC3	0.067830542	0.122386992	0.1765623	520	520
KDSR	0.067825363	0.122415604	0.17659095	520	520
C15orf5	0.067815419	0.122470543	0.17665756	520	175
LARP1	0.067790431	0.122608684	0.17684417	520	520
SNX30	0.067778545	0.12267444	0.17692636	520	520
INCA1	0.067773538	0.122702142	0.17695365	520	520
TUBG2	0.067739043	0.12289316	0.17719111	520	520
PPP2R2B	0.067707897	0.123065823	0.17737664	520	518
N4BP1	0.067695398	0.12313517	0.17746391	520	520
FAM86B2	0.067677917	0.123232206	0.17759107	520	457
LEMD3	0.067586474	0.123740777	0.17826963	520	520
LOC285456	0.067585308	0.12374727	0.17826963	520	307
AKNA	0.067580046	0.123776589	0.17829912	520	520
AVPR1B	0.067577667	0.123789844	0.17830548	520	141
GALNT11	0.067558631	0.12389595	0.17843282	520	520
TUSC5	0.06753626	0.124020742	0.17858703	520	312
GPR157	0.067480937	0.12432976	0.17899367	520	520
ZMYM1	0.067447221	0.124518381	0.17923962	520	520
C2orf16	0.067297828	0.125356828	0.18033068	520	520
C12orf77	0.067272935	0.12549696	0.18051938	520	194
CTU2	0.06719595	0.125931114	0.18109499	520	520
HCRTR1	0.067195608	0.125933048	0.18109499	520	253
BLID	0.06718981	0.125965794	0.18112916	520	63
C21orf128	0.06708401	0.126564476	0.18192516	520	282
ADH1B	0.067079769	0.126588525	0.18194675	520	406
FGD2	0.06707647	0.126607228	0.18196067	520	520
UBE4B	0.067049076	0.126762644	0.18217105	520	520
TMSB15A	0.066974577	0.127186045	0.18274045	520	499
ASIP	0.066956337	0.127289871	0.18287659	520	364
ZNF774	0.066896522	0.127630829	0.18327277	520	519
SLC5A12	0.066895206	0.127638338	0.18327277	520	494
HSDL1	0.06687815	0.127735692	0.18339949	520	520
DCAF4	0.06686357	0.127818963	0.18350506	520	520

EIF4B	0.066860497	0.127836518	0.18350506	520	520
CNKSRR2	0.066846512	0.127916439	0.18360671	520	389
RCOR2	0.066740223	0.128525107	0.18437537	520	520
TFIP11	0.066684143	0.128847153	0.18481107	520	520
OR2L13	0.066618025	0.129227649	0.18534365	520	224
ATXN7L1	0.066599271	0.129335728	0.18545908	520	520
MAGEA1	0.066560542	0.129559154	0.18576625	520	255
C6orf64	0.066533772	0.129713761	0.18596341	520	520
LST-3TM12	0.06653354	0.129715104	0.18596341	520	312
TAB1	0.066529045	0.129741082	0.18598743	520	520
A4GNT	0.066487686	0.129980267	0.18630382	520	298
BMS1	0.066482686	0.130009206	0.18632661	520	520
PDCD11	0.066458823	0.130147389	0.18647708	520	520
CSPP1	0.066441225	0.130249365	0.18659668	520	520
FAM117A	0.066423341	0.130353064	0.18673197	520	520
ARHGEF1	0.066419766	0.130373799	0.18673514	520	520
FAM127A	0.066313214	0.130993028	0.18758209	520	520
UBE2Z	0.066284815	0.13115845	0.18780564	520	520
SLC16A7	0.066281323	0.131178804	0.18780848	520	520
RHOT1	0.066240439	0.131417267	0.18808274	520	520
KIAA0753	0.066238397	0.131429182	0.18808645	520	520
RSPH3	0.066233352	0.131458634	0.18811524	520	520
TRIM6-TRIM34	0.06621939	0.131540167	0.18821856	520	46
USP8	0.066210323	0.131593136	0.18828099	520	520
AREG	0.066154824	0.131917711	0.18869183	520	520
TRIM2	0.066144134	0.131980304	0.18876797	520	520
TMEM138	0.066093789	0.13227538	0.18916317	520	520
PLK2	0.066061467	0.132465093	0.18942104	520	520
THBD	0.06605371	0.132510652	0.18947276	520	520
PIWIL1	0.066035102	0.132619996	0.18960221	520	337
RFX7	0.066033117	0.132631659	0.18960544	520	520
RGS9	0.065987504	0.1329	0.18997558	520	518
SFTPA2	0.065964613	0.133034822	0.19015483	520	442
MLH3	0.065962165	0.133049253	0.19015865	520	520
TPSD1	0.06595821	0.13307256	0.19015865	520	410
TRAF3	0.065953123	0.133102538	0.19017178	520	520
ICMT	0.065952999	0.133103268	0.19017178	520	520
POU3F4	0.065926326	0.133260568	0.19038303	520	118
UBB	0.06589454	0.133448202	0.19061058	520	520
VARS	0.065890097	0.133474443	0.19063456	520	520
ABHD8	0.065888224	0.133485507	0.19063686	520	520
NACC2	0.065884256	0.133508952	0.19064333	520	520
IFIT1	0.065860561	0.133649009	0.1908163	520	520
LPIN1	0.065853744	0.133689318	0.19086034	520	520
OR7E156P	0.065827276	0.133845934	0.1910704	520	46
ZNF500	0.065813055	0.133930141	0.19117707	520	520

B3GALNT1	0.065794569	0.134039666	0.19131987	520	520
SPNS1	0.065765248	0.134213524	0.19155447	520	520
COL20A1	0.065727289	0.134438853	0.19182175	520	135
DHX36	0.065690202	0.134659294	0.19206731	520	520
C13orf28	0.065687679	0.1346743	0.19206731	520	3
FOXN2	0.065687119	0.134677632	0.19206731	520	520
MBOAT7	0.065671724	0.134769229	0.19218166	520	520
LOC342346	0.065659691	0.134840854	0.1922593	520	407
CMTM2	0.065575261	0.135344251	0.19289521	520	497
C11orf88	0.065564755	0.135406989	0.19297099	520	461
POLR2J2	0.065535478	0.135581947	0.19320667	520	518
DOPEY1	0.065481086	0.135907457	0.19357477	520	520
GAS2	0.065430333	0.136211727	0.1939535	520	465
AMAC1L3	0.06541861	0.136282086	0.19403982	520	272
KIAA0513	0.06538194	0.136502341	0.19428483	520	520
ANP32D	0.065377542	0.136528777	0.19430874	520	284
SLC6A15	0.065355649	0.136660422	0.19446865	520	516
NUP93	0.065340245	0.136753112	0.19457308	520	520
BTLA	0.065306364	0.136957147	0.19483589	520	512
ALG12	0.065292142	0.137042862	0.19493032	520	520
WDR88	0.065286886	0.137074548	0.19496164	520	482
ACCSL	0.065256569	0.137257441	0.195208	520	30
WDR64	0.065238943	0.137363859	0.19530425	520	297
LMAN2L	0.065218687	0.137486231	0.19546445	520	520
GABRR3	0.065171778	0.137769953	0.19583865	520	23
ZNF182	0.065078148	0.138337592	0.19656396	520	520
LMBR1L	0.065064595	0.138419907	0.19666707	520	520
GALNT3	0.065057405	0.138463591	0.19671527	520	520
ALG1	0.065014195	0.138726346	0.19700246	520	520
NECAB2	0.065012917	0.138734125	0.19700246	520	454
GBP1	0.064987661	0.138887889	0.19716526	520	520
LOC727924	0.064960931	0.139050769	0.1973687	520	31
DISC2	0.064934551	0.139211653	0.19756924	520	180
KIAA1045	0.06489311	0.139464693	0.19788657	520	519
PDP1	0.064889726	0.139485371	0.19790199	520	520
FGF19	0.06480063	0.140030637	0.19860574	520	345
IL20	0.064789091	0.140101377	0.19868432	520	494
C1orf200	0.064788377	0.140105752	0.19868432	520	350
LAIR2	0.064689275	0.140714428	0.19949137	520	495
SLC2A4	0.064685318	0.140738775	0.19951186	520	518
CTCF	0.064661344	0.140886345	0.19969297	520	517
ZNF184	0.064649762	0.140957677	0.19978004	520	520
TRPV3	0.064581444	0.141379017	0.20033031	520	513
RFK	0.064566507	0.141471262	0.2004375	520	520
OR4K1	0.064513729	0.141797586	0.2008575	520	11
DMRTC1	0.064487458	0.141960232	0.20104552	520	15

SNORA55	0.064397067	0.142520944	0.20178292	520	14
FKBP15	0.064394009	0.142539939	0.20179564	520	520
AHRR	0.064376652	0.142647817	0.20193419	520	520
FAM120A	0.064355001	0.14278246	0.20209641	520	520
CPB2	0.064327808	0.142951716	0.20230758	520	234
ZNF566	0.064313971	0.143037895	0.20240437	520	520
KIAA1217	0.064312065	0.143049767	0.20240437	520	520
ALMS1P	0.064274093	0.143286487	0.20267097	520	411
PRB1	0.064269971	0.143312208	0.20268972	520	223
POU4F2	0.064241216	0.143491693	0.2029202	520	77
PEX5	0.064237568	0.143514474	0.2029202	520	520
BEND2	0.064208514	0.143696021	0.20316131	520	99
STRN3	0.064189992	0.14381185	0.20329656	520	520
CDHR2	0.064184334	0.143847248	0.20333235	520	467
ANKRD27	0.064178945	0.143880968	0.20335203	520	520
GRIK3	0.064178885	0.143881343	0.20335203	520	409
PITPNB	0.064157488	0.144015293	0.20352708	520	520
C18orf34	0.064144136	0.144098921	0.20361672	520	362
CASP5	0.064068833	0.14457129	0.20421264	520	505
SF3B3	0.064061262	0.144618852	0.20426552	520	520
NRBP2	0.063927126	0.145463413	0.20535581	520	520
VENTXP1	0.063925727	0.145472247	0.20535581	520	25
CSNK1G3	0.063886542	0.145719689	0.20562867	520	520
NGEF	0.063869524	0.145827252	0.20575612	520	520
SH2D1A	0.063844897	0.145983018	0.20596149	520	518
LRRTM4	0.063834965	0.146045875	0.20603575	520	285
NISCH	0.063832172	0.146063555	0.20604628	520	520
SPTLC2	0.063800548	0.146263844	0.2062711	520	520
OR4N4	0.063723308	0.146753923	0.20690726	520	58
METRN	0.063721593	0.146764821	0.20690726	520	520
FATE1	0.063721369	0.146766243	0.20690726	520	465
RUNDC2C	0.063671326	0.147084453	0.20731238	520	513
GABRB3	0.063654491	0.147191615	0.20744892	520	474
PAGE2B	0.063638174	0.147295546	0.20753738	520	214
CCDC28B	0.063633308	0.147326544	0.20756655	520	520
LOC100271722	0.063594296	0.147575291	0.20784439	520	520
MED12L	0.063556288	0.147817933	0.20812798	520	515
DACT2	0.063543666	0.147898582	0.20822699	520	504
SOCS6	0.063541742	0.147910876	0.20822976	520	520
C14orf167	0.063492121	0.148228271	0.20864746	520	520
KCNU1	0.063446411	0.148521111	0.20895756	520	134
ZNF507	0.063410776	0.148749707	0.20926457	520	520
RPRD1B	0.063396675	0.148840239	0.20934812	520	520
GNPAT	0.063357509	0.149091918	0.20967286	520	520
SNAP91	0.063313231	0.149376828	0.21005889	520	348
ARPM1	0.063304586	0.149432505	0.2101096	520	520

KIF12	0.063295938	0.14948822	0.21014225	520	513
IPCEF1	0.063236252	0.149873152	0.21062463	520	519
HECTD3	0.063220635	0.149973995	0.21075166	520	520
C2orf52	0.063149066	0.150436793	0.21131365	520	482
C20orf191	0.063103391	0.150732718	0.21168509	520	39
LOC572558	0.063096151	0.150779666	0.21172153	520	129
GNPTG	0.063055907	0.151040826	0.21201443	520	520
LOC153910	0.063022717	0.151256477	0.21228758	520	146
TPR	0.063019241	0.151279074	0.21230451	520	520
NXF4	0.063015817	0.151301333	0.2123062	520	34
SORT1	0.063012502	0.151322894	0.21232168	520	520
TFDP3	0.063010314	0.151337118	0.21232686	520	203
DAZ2	0.062908453	0.152000675	0.21316884	520	33
STOX2	0.062876896	0.152206696	0.21342808	520	518
CTAGE1	0.062814663	0.152613602	0.2139689	520	517
SFRS13B	0.062799755	0.152711199	0.21409085	520	514
LOC723972	0.062719738	0.153235853	0.21475172	520	520
C21orf121	0.062667349	0.153580098	0.21514444	520	243
NPTX1	0.062644831	0.153728239	0.21533701	520	507
PIK3C2G	0.06258651	0.154112431	0.21583019	520	471
ICAM3	0.062541255	0.154411053	0.21621526	520	520
DDIT4	0.062539967	0.154419557	0.21621526	520	520
MDGA2	0.06253644	0.154442852	0.21621893	520	190
LOC286238	0.062497826	0.154698033	0.21653	520	52
CST7	0.062467507	0.154898624	0.21679571	520	520
DERL3	0.062452944	0.154995046	0.21691561	520	520
SLC14A1	0.062438979	0.155087547	0.21699033	520	503
KIF1C	0.062422802	0.15519475	0.21711975	520	520
DPPA4	0.062332659	0.155793164	0.21788258	520	294
ISG20L2	0.062332527	0.155794042	0.21788258	520	520
ZNF639	0.06228746	0.156093874	0.21824136	520	520
CSPG4PY2	0.062285173	0.156109102	0.21824752	520	21
PRAC	0.062268176	0.156222301	0.21839063	520	51
ABCE1	0.06221277	0.156591749	0.21889193	520	520
PCBP2	0.062188681	0.156752579	0.21907118	520	520
RNGTT	0.062136028	0.157104549	0.21951744	520	520
SNORA4	0.062133065	0.157124371	0.21952992	520	60
LONRF2	0.062116458	0.157235525	0.21965478	520	486
PRSS53	0.062060819	0.157608338	0.2201146	520	520
OR6K3	0.062038854	0.157755702	0.22030514	520	52
PPME1	0.062015658	0.157911438	0.22049209	520	520
VPS24	0.062000949	0.158010255	0.22061479	520	520
TRIM52	0.061961324	0.158276686	0.22097148	520	519
COL9A3	0.061956504	0.158309112	0.22100145	520	520
TTC30B	0.061938598	0.158429641	0.2211544	520	519
EXOGL	0.061864273	0.15893067	0.22174633	520	520

PPP1R2P1	0.061842648	0.159076667	0.22191932	520	515
SH2D5	0.061826348	0.159186783	0.22199615	520	520
HOXB4	0.061725675	0.159868158	0.2228693	520	514
F11	0.061655398	0.160345106	0.2234737	520	94
RNF6	0.061630023	0.160517581	0.2236664	520	520
FBXW11	0.061622903	0.160566	0.22371841	520	520
ZFP14	0.061602366	0.160705725	0.22389762	520	520
CDHR1	0.061562147	0.160979627	0.22423413	520	520
IFNK	0.061539327	0.161135191	0.22443393	520	303
ZNF747	0.061528565	0.161208595	0.22452066	520	520
KIAA2026	0.061512803	0.161316149	0.22465494	520	520
MCF2L	0.061455988	0.161704278	0.22516436	520	520
SFRS2B	0.061429872	0.161882922	0.22536642	520	520
POM121L4P	0.061387697	0.162171736	0.22572174	520	222
PDE3B	0.061354996	0.162395939	0.2260182	520	520
ZNF563	0.061330172	0.162566289	0.22620845	520	520
CPNE8	0.061314419	0.162674459	0.22632773	520	520
FAM49B	0.061299864	0.162774455	0.22644743	520	520
NFATC3	0.061298627	0.162782955	0.22644743	520	520
DSC1	0.061292352	0.162826079	0.22649179	520	505
C2orf44	0.061266816	0.16300167	0.22670476	520	520
KBTBD8	0.06126336	0.163025441	0.22672219	520	520
EGR1	0.061215832	0.163352666	0.22714593	520	520
TXNDC12	0.061204475	0.163430929	0.22723909	520	520
LIMD1	0.061179161	0.163605476	0.22743473	520	520
CLIP4	0.061174062	0.16364065	0.22746795	520	520
ANGPTL6	0.061075797	0.164319652	0.22831735	520	515
TREML1	0.06101629	0.164731869	0.22884281	520	494
C8orf84	0.061002783	0.164825541	0.22894139	520	520
CD200R1	0.060981143	0.164975702	0.22910262	520	516
KHDRBS2	0.060962494	0.165105189	0.2292406	520	155
GLCE	0.060957037	0.165143095	0.22927192	520	520
LGALS12	0.060840425	0.165954652	0.23027179	520	449
KRTAP2-4	0.060797824	0.166251876	0.23063659	520	14
ADAM8	0.060781901	0.166363072	0.23077497	520	520
RGS7BP	0.060699934	0.166936358	0.23139511	520	344
GTF2IRD2P1	0.06069768	0.166952143	0.23140109	520	520
LOC374443	0.06068788	0.167020789	0.23144851	520	520
SGSM1	0.060671628	0.167134677	0.23157449	520	505
DMRT3	0.060618975	0.167504053	0.23200657	520	501
PAR4	0.060562133	0.167903494	0.23247999	520	28
CNR1	0.060557394	0.167936827	0.23251017	520	487
MTNR1B	0.060544125	0.168030187	0.23262346	520	103
STK25	0.060531498	0.168119071	0.23273053	520	520
CD3G	0.060498164	0.168353871	0.23302358	520	515
C2orf141	0.060453668	0.168667685	0.23342589	520	401

LINGO4	0.060369422	0.169263033	0.23420159	520	370
GRK4	0.060341413	0.169461317	0.23445986	520	520
ZFYVE20	0.060333885	0.169514637	0.23451754	520	520
PENK	0.06032816	0.169555198	0.23454224	520	487
DHX8	0.060322305	0.169596681	0.23457705	520	520
PRSSL1	0.060321246	0.169604186	0.23457705	520	205
AGTR2	0.0603184	0.169624355	0.23458885	520	140
CARM1	0.060303755	0.169728175	0.23470024	520	520
ZNF189	0.060248834	0.170117934	0.23519081	520	520
CLDN12	0.060165572	0.170710101	0.23594473	520	520
FBXO2	0.060087967	0.171263415	0.23661084	520	520
CHST8	0.060086464	0.171274142	0.23661084	520	472
TH	0.060072609	0.171373072	0.23673129	520	477
LOC100128640	0.060065704	0.171422394	0.23676698	520	516
RAP1GAP2	0.060062974	0.171441893	0.23677769	520	520
SPOPL	0.059931435	0.172383539	0.23788268	520	520
CDH3	0.059829532	0.173115681	0.23879495	520	520
FGD4	0.059765808	0.173574687	0.23937898	520	520
MCHR2	0.059693438	0.174097075	0.23998451	520	145
C13orf23	0.059678134	0.174207696	0.24012058	520	520
LOC151658	0.059667146	0.174287149	0.24021368	520	58
PGBD3	0.059655024	0.174374836	0.24031811	520	520
SP8	0.059553319	0.175111824	0.24125135	520	407
C20orf202	0.059551005	0.175128619	0.24125801	520	514
SLC7A1	0.059536709	0.175232409	0.2413845	520	520
B2M	0.05948747	0.175590227	0.24182784	520	520
DLG2	0.059473118	0.17569462	0.24195508	520	491
CST5	0.059454927	0.175827011	0.24212087	520	105
DR1	0.059440904	0.175929116	0.24222838	520	520
CCL26	0.05943772	0.175952309	0.24223657	520	517
FAH	0.05942707	0.176029892	0.24230217	520	520
C4orf47	0.059426948	0.176030775	0.24230217	520	506
METTL2B	0.059425194	0.176043559	0.24230323	520	520
DRD1	0.059358259	0.176531779	0.24285917	520	364
EFNA2	0.059328875	0.176746418	0.24308811	520	233
TMEM232	0.059322077	0.176796105	0.24312328	520	466
RPA4	0.059313577	0.176858246	0.24318369	520	356
MGAT4B	0.059278209	0.177116978	0.24346491	520	520
NUP210L	0.059172431	0.177892464	0.2443976	520	298
SNORA25	0.059160147	0.17798269	0.2445049	520	23
RENBP	0.059143797	0.178102824	0.24461994	520	520
MRGPRX1	0.059139759	0.178132506	0.24464404	520	77
INSL5	0.059125533	0.178237096	0.24475434	520	78
HECTD1	0.059073605	0.178619261	0.24524573	520	520
ZNF668	0.059059728	0.178721497	0.2453673	520	520
ARL8A	0.058985316	0.179270427	0.24608952	520	520

PRRT1	0.058974685	0.179348955	0.24618055	520	520
KCNJ3	0.058963356	0.179432666	0.24627869	520	104
OR2L1P	0.058902013	0.179886433	0.2468847	520	98
LOC143188	0.058899175	0.179907445	0.24689674	520	520
LOC284379	0.058892205	0.179959067	0.24693996	520	92
RAPH1	0.058887177	0.179996305	0.24696826	520	520
C3orf70	0.058851304	0.180262182	0.24728258	520	519
LIN28B	0.058828858	0.180428691	0.24749416	520	202
HACE1	0.05880661	0.18059384	0.24770384	520	520
ANKAR	0.058796933	0.180665705	0.24778556	520	517
HSPA2	0.058760154	0.180939055	0.24811997	520	520
FMO5	0.05875402	0.18098467	0.24815505	520	519
PIN1L	0.058749101	0.181021258	0.24815505	520	516
PRMT8	0.058740983	0.181081651	0.24821883	520	374
CTCF	0.058739538	0.181092403	0.24821883	520	520
B3GAT3	0.058733154	0.181139914	0.2482502	520	520
IFITM5	0.058683446	0.181510136	0.24870688	520	107
SMCHD1	0.058606117	0.182087191	0.24937894	520	520
BBS7	0.058475151	0.183067591	0.25060251	520	520
ZNF808	0.058460262	0.183179299	0.25072138	520	520
CFHR4	0.058445827	0.183287644	0.25085265	520	178
SF1	0.058374482	0.183823843	0.25148409	520	520
MFSD1	0.058361291	0.183923112	0.25158942	520	520
ZNF30	0.058360935	0.183925791	0.25158942	520	519
INTS8	0.058356717	0.183957537	0.25161578	520	520
PLB1	0.058289969	0.18446051	0.25223021	520	520
GDAP1L1	0.0582865	0.184486675	0.25223687	520	317
SLC39A3	0.058261751	0.18467344	0.25245798	520	520
SLMO1	0.058258946	0.184694619	0.25246982	520	520
HLA-DMA	0.058220532	0.184984816	0.25283223	520	520
WISP3	0.058217046	0.185011164	0.2528511	520	484
NUDT9P1	0.058186019	0.185245822	0.25312033	520	413
HSPA7	0.058147197	0.185539743	0.25348759	520	520
NCRNA00028	0.058130089	0.185669376	0.25363033	520	100
PAGE3	0.058128316	0.185682815	0.25363151	520	29
FGGY	0.058122025	0.185730509	0.25367947	520	520
LOC162632	0.058102847	0.185875941	0.25384372	520	520
OR2L2	0.058068324	0.186137954	0.25413269	520	213
LOC100129066	0.058057362	0.186221208	0.25422914	520	423
PLSCR4	0.058041714	0.186340094	0.25437119	520	520
ZNF800	0.058019479	0.186509124	0.25454859	520	520
GPR153	0.05801827	0.186518321	0.25454859	520	520
EGFL7	0.057996856	0.186681223	0.25475367	520	520
NAPSB	0.057979752	0.186811417	0.25489019	520	520
AIG1	0.057965572	0.186919402	0.25499241	520	520
HLA-DRB6	0.0579543	0.187005276	0.2550923	520	516

SNORA66	0.057940679	0.187109082	0.25519937	520	10
CD2AP	0.057932613	0.187170568	0.25526597	520	520
PRDM10	0.057859319	0.187730012	0.25592347	520	520
GNAT3	0.057856542	0.187751237	0.25592347	520	57
IFNA2	0.057856421	0.187752158	0.25592347	520	19
ATXN7	0.057856152	0.187754211	0.25592347	520	520
TESC	0.057796161	0.188213072	0.25651425	520	520
EXOC7	0.057793224	0.188235562	0.25652757	520	520
LOC222699	0.057788215	0.188273912	0.25655328	520	519
NFE2	0.057776779	0.188361502	0.25662982	520	517
SSTR4	0.057767945	0.188429176	0.25668733	520	70
C10orf82	0.057764612	0.188454715	0.25670478	520	343
C4orf29	0.057762947	0.188467476	0.25670482	520	520
MAGEA6	0.057761221	0.1884807	0.25670549	520	428
HSPA8	0.057745063	0.188604565	0.2568395	520	520
H19	0.057625548	0.189522572	0.25799675	520	520
C3orf21	0.057618169	0.189579358	0.25799675	520	520
ITGB8	0.057603939	0.189688901	0.25810696	520	520
SELENBP1	0.05756659	0.189976641	0.25844616	520	520
AIRE	0.05751706	0.190358714	0.258931	520	291
HEATR7B2	0.057497425	0.190510338	0.25910381	520	44
C12orf72	0.057448715	0.190886859	0.25956185	520	520
CXADRP2	0.057414218	0.191153846	0.25983728	520	475
TNNT2	0.057379919	0.191419575	0.26011054	520	517
KIAA1143	0.057378663	0.191429307	0.26011054	520	520
AZU1	0.05733363	0.191778619	0.26052847	520	328
CD82	0.057314795	0.191924851	0.26067444	520	520
FBXL18	0.057294647	0.192081375	0.26086946	520	520
KDM4B	0.057247734	0.192446186	0.26131211	520	520
BCAS4	0.057221506	0.192650366	0.26151892	520	520
NARS2	0.057210282	0.192737788	0.26161998	520	520
C15orf34	0.057206877	0.192764318	0.26163838	520	518
SLC44A1	0.057203119	0.192793598	0.26164968	520	520
ZBTB40	0.05720247	0.192798654	0.26164968	520	520
ZNF215	0.057195345	0.19285418	0.26168988	520	511
LOC55908	0.057164766	0.19309262	0.26194292	520	242
ODF2	0.057145264	0.193244792	0.26211408	520	520
ARL2	0.057111349	0.193509651	0.26242038	520	520
EFHB	0.057097109	0.193620935	0.26252904	520	443
SLC35A5	0.057096097	0.193628839	0.26252904	520	520
LGALS9	0.057027974	0.194161881	0.26318097	520	520
JRK	0.056948591	0.194784378	0.26393604	520	520
CCNK	0.056925445	0.194966155	0.2641646	520	520
PPM1L	0.056905438	0.195123376	0.2643421	520	520
LIPG	0.056878459	0.19533554	0.2646039	520	520
SUSD3	0.056816018	0.195827219	0.26522435	520	520

TRAPPC9	0.056810058	0.1958742	0.26527016	520	520
FAM75C1	0.056800134	0.195952443	0.26532266	520	173
HDAC6	0.05678296	0.196087894	0.26547041	520	520
TECTB	0.056746999	0.19637175	0.26580117	520	11
DCDC2	0.056705227	0.196701856	0.26617651	520	469
LTBP4	0.056695405	0.196779529	0.26624588	520	520
CLEC10A	0.056693681	0.196793168	0.26624647	520	520
MAGEA8	0.056678636	0.1969122	0.26637177	520	285
LRRC23	0.056658707	0.197069946	0.26656728	520	520
LOC148696	0.056605109	0.197494673	0.26705221	520	309
SLC13A5	0.056557444	0.197872947	0.26754577	520	501
DUSP14	0.056510286	0.198247714	0.26799859	520	520
ZBTB12	0.056492776	0.198387005	0.26813296	520	520
HLA-DQB2	0.056403459	0.19909859	0.26895049	520	520
FOXI3	0.056364507	0.199409508	0.2693344	520	307
MBL1P	0.056339924	0.199605911	0.26958162	520	449
FAM138B	0.056327483	0.199705361	0.26966175	520	13
SPTBN4	0.056321346	0.199754429	0.26970994	520	517
FBXO41	0.056316859	0.199790313	0.26974033	520	520
FABP4	0.05628309	0.200060514	0.27005089	520	519
NUFIP1	0.056214987	0.200606255	0.27071507	520	520
NCRNA00174	0.05611905	0.201376881	0.27160959	520	520
RYR1	0.056088087	0.201626051	0.27189911	520	520
OR10S1	0.056086045	0.201642494	0.27189911	520	84
OLFM3	0.056085674	0.201645474	0.27189911	520	119
OR56A5	0.055988415	0.202429674	0.27282882	520	118
KRTAP21-2	0.055969804	0.202579987	0.2729816	520	24
PITPNM2	0.055964831	0.202620161	0.27301256	520	520
LRPAP1	0.055958387	0.202672236	0.27306448	520	520
ZBTB43	0.055938315	0.202834488	0.27324657	520	520
RNASE10	0.055834811	0.203672682	0.27419255	520	505
HUS1	0.05578927	0.204042278	0.2746276	520	520
TMED8	0.055750916	0.204353926	0.2749995	520	520
C6orf195	0.05568664	0.204876971	0.27564818	520	325
FAM66A	0.055637718	0.205275723	0.27614782	520	248
CHD2	0.055545035	0.206032704	0.27707373	520	520
FOLH1B	0.055515637	0.206273232	0.27736019	520	349
MBNL1	0.055480435	0.206561516	0.27769227	520	520
SLC35E4	0.055470311	0.206644484	0.27778529	520	520
ADNP2	0.055415846	0.207091218	0.27833015	520	520
RFPL3	0.055406448	0.207168375	0.2784153	520	129
KIAA0922	0.055380889	0.207378318	0.27867887	520	520
SGMS1	0.055358492	0.207562409	0.27890766	520	520
TMEM50A	0.055307101	0.207985275	0.27942002	520	520
RINT1	0.055294749	0.208087003	0.27953806	520	520
LTB	0.055277913	0.208225717	0.27970577	520	520

USP4	0.055262382	0.208353743	0.27984046	520	520
VPS53	0.055256733	0.208400316	0.27988437	520	520
AKAP7	0.055248967	0.208464369	0.27995175	520	520
INSL4	0.055217742	0.208722025	0.28021493	520	138
RASSF9	0.055216797	0.208729829	0.28021493	520	517
OR1Q1	0.055205904	0.208819773	0.28029836	520	164
LOC643923	0.055170641	0.209111128	0.2806334	520	112
CT45A6	0.055073209	0.209917673	0.28164083	520	104
SNAPC1	0.055050505	0.210105943	0.28187467	520	520
STK32C	0.055027002	0.210300958	0.28204247	520	520
DCT	0.054983089	0.210665685	0.28249404	520	208
GPRIN1	0.05496224	0.210839011	0.28270766	520	520
GLRA4	0.054949186	0.210947589	0.28281643	520	257
CT47B1	0.054940668	0.211018456	0.28287303	520	41
DDX3Y	0.054849957	0.211774221	0.28379181	520	469
CT47A2	0.054841053	0.211848514	0.28383478	520	7
MOBKL2A	0.054835978	0.211890864	0.2838704	520	520
CEP164	0.054798655	0.212202513	0.28421464	520	520
POU1F1	0.054784551	0.212320375	0.28432658	520	70
RHPN2	0.054762535	0.212504434	0.28452453	520	520
UTS2D	0.054760786	0.212519064	0.28452522	520	426
ZNF490	0.054747785	0.21262782	0.28465193	520	520
FAM55B	0.054731939	0.212760423	0.28481054	520	241
NGB	0.054640172	0.213529541	0.2857832	520	403
MAGEA11	0.054617937	0.213716202	0.28599506	520	379
OR2AG2	0.054572469	0.214098252	0.28643028	520	148
WIF1	0.054563669	0.214172256	0.28649274	520	350
ZFP30	0.054563538	0.214173359	0.28649274	520	520
FOXM1	0.05455325	0.214259898	0.28657048	520	520
DHX9	0.054538847	0.214381089	0.28671356	520	520
FAM118A	0.054489181	0.21479938	0.28721583	520	520
PRAMEF16	0.054487184	0.214816214	0.28721929	520	52
ZNF271	0.054480958	0.214868687	0.28725328	520	520
OR2C3	0.054479354	0.214882209	0.28725328	520	57
C8orf39	0.05446978	0.214962934	0.28733925	520	517
ZRANB1	0.054444621	0.21517516	0.28754669	520	520
IL15	0.054427242	0.215321851	0.28772364	520	520
PIAS1	0.054356713	0.215917895	0.28841761	520	520
C14orf101	0.054355636	0.215927009	0.28841761	520	520
LOC285768	0.054350689	0.215968863	0.28843994	520	410
NR3C2	0.054350279	0.215972335	0.28843994	520	518
MLXIPL	0.054333545	0.216113949	0.28859355	520	493
BEX5	0.054331614	0.216130294	0.28859355	520	508
GCC1	0.054318716	0.216239503	0.28872026	520	520
GPRC5C	0.054297216	0.216421634	0.2889443	520	520
PKD2L2	0.054259988	0.216737254	0.28930822	520	263

VAMP4	0.054247171	0.216845997	0.28943421	520	520
NR1I2	0.05423873	0.216917626	0.28951066	520	361
TSPAN33	0.054236432	0.216937135	0.28951753	520	520
RIMS1	0.054234635	0.216952387	0.28951873	520	367
PIGM	0.054163116	0.217560084	0.29025285	520	520
LPAL2	0.054105248	0.218052686	0.29083307	520	480
EPRS	0.054101988	0.21808046	0.29085088	520	520
PFN4	0.054098487	0.218110292	0.29087142	520	500
PLEK2	0.054068278	0.218367809	0.29117633	520	520
DCAF4L2	0.054046417	0.218554305	0.29140574	520	72
HYMAI	0.054025346	0.218734163	0.29158771	520	390
C11orf46	0.054023256	0.218752012	0.29159222	520	520
TAS2R3	0.054018659	0.218791262	0.29162527	520	149
NLRP5	0.053998899	0.218960066	0.2917924	520	95
QSOX2	0.053995832	0.218986274	0.29180804	520	520
C9orf139	0.05398737	0.219058591	0.29186583	520	473
SLC22A1	0.053981202	0.219111317	0.29191679	520	515
GBP5	0.053978771	0.219132099	0.29192519	520	520
GNAQ	0.053972909	0.219182221	0.29195338	520	520
HLA-B	0.053926476	0.219579524	0.29244396	520	520
TUBA3E	0.053916315	0.21966654	0.29254053	520	340
ESPNL	0.053899694	0.219808923	0.29269148	520	510
IFNA13	0.053876237	0.220009972	0.29290117	520	260
CHAT	0.053863336	0.220120609	0.29302911	520	185
KRTAP19-5	0.053824733	0.220451891	0.29341201	520	24
MRPL10	0.053805625	0.220616001	0.29358178	520	520
C2orf61	0.053804796	0.220623128	0.29358178	520	224
ERLIN1	0.05375292	0.221069124	0.29411704	520	520
XRCC5	0.053749722	0.221096636	0.29413423	520	520
DHFRL1	0.053722741	0.22132888	0.29440435	520	520
GOLGA6C	0.0537179	0.221370562	0.29444037	520	54
LOC158572	0.05369441	0.221572928	0.29467066	520	518
C1orf25	0.053683333	0.221668397	0.29477818	520	520
OGDH	0.05363554	0.222080653	0.29528746	520	520
RSPO1	0.053623908	0.222181079	0.29539255	520	484
PGS1	0.053591115	0.222464351	0.29571964	520	520
SEC11A	0.053574247	0.22261017	0.29589397	520	520
EIF1B	0.05342146	0.223934015	0.29751634	520	520
SLC15A3	0.053417556	0.223967912	0.29754177	520	520
CBLN1	0.053401312	0.224109009	0.2977096	520	406
RELB	0.053357426	0.224490518	0.29817712	520	520
IL2RG	0.053343241	0.224613925	0.29830173	520	520
NAB2	0.053317476	0.224838203	0.29857992	520	520
AHCTF1	0.053304132	0.224954423	0.29871459	520	520
TM4SF20	0.053262956	0.225313326	0.29913957	520	195
SPATA5	0.053214949	0.225732275	0.2996291	520	520

MLL4	0.053179137	0.226045155	0.29998516	520	520
PNPLA5	0.053154286	0.226262459	0.30023402	520	218
LHFPL5	0.05314547	0.226339584	0.30027767	520	376
TNNI3K	0.053082388	0.226891986	0.30089115	520	493
GOLGA6L5	0.053074814	0.226958379	0.30095941	520	516
OR2W3	0.053066369	0.227032422	0.3010378	520	353
MCM3AP	0.052984958	0.227747058	0.30190597	520	520
URB2	0.052981985	0.22777319	0.30192076	520	520
TMX1	0.052978252	0.227805995	0.30194439	520	520
NUP62	0.05295895	0.227975697	0.30212961	520	520
NMT1	0.052952902	0.228028892	0.30218024	520	520
SFTPBP	0.052928907	0.228240011	0.30240039	520	455
ZNF572	0.052905371	0.228447229	0.30263517	520	518
RASL10A	0.05286685	0.228786672	0.30304503	520	514
NANP	0.05285711	0.228872553	0.30313887	520	520
KCTD11	0.05282118	0.229189566	0.30351888	520	520
SLC25A12	0.052815918	0.229236019	0.30356046	520	520
LOC84856	0.052756311	0.229762703	0.30419797	520	520
ARHGAP9	0.052753197	0.229790247	0.3042078	520	520
ZNF527	0.052752061	0.229800294	0.3042078	520	520
ZNF567	0.052729946	0.229995935	0.30440683	520	520
LINGO3	0.052724845	0.230041085	0.3044466	520	282
C3orf20	0.052675122	0.230481466	0.30498939	520	216
C12orf63	0.0526383	0.230807973	0.30530123	520	474
A1CF	0.052611045	0.231049855	0.30552097	520	67
ALDH1A3	0.052486038	0.232161586	0.30683006	520	520
C16orf82	0.052478979	0.232224476	0.30689306	520	87
DLG5	0.052446123	0.232517358	0.30723984	520	520
LOC100268168	0.052383895	0.233072784	0.30795358	520	517
ODF3L2	0.05237854	0.23312062	0.3079966	520	427
KDM5D	0.052368446	0.233210823	0.30805523	520	446
C16orf72	0.052314841	0.233690231	0.30858741	520	520
IREB2	0.052311479	0.233720321	0.30860694	520	520
HS6ST2	0.052287439	0.233935564	0.3088507	520	515
DICER1	0.052261937	0.23416405	0.30911188	520	520
CDCP2	0.05222929	0.23445679	0.30943754	520	271
TRPC5	0.052150609	0.235163358	0.31020764	520	195
P4HTM	0.052125005	0.235393605	0.31043013	520	520
TEAD4	0.052109838	0.235530074	0.31058979	520	520
VTCN1	0.052100653	0.235612749	0.31067849	520	493
C17orf57	0.05204702	0.236095889	0.31127485	520	515
ZNF514	0.05203507	0.236203638	0.31139654	520	520
NUDT13	0.052009743	0.236432108	0.31166422	520	520
PGAM2	0.051955816	0.23691909	0.31221728	520	519
ANUBL1	0.051943699	0.237028605	0.31234118	520	520
LMF2	0.051885749	0.237552876	0.31297068	520	520

CCDC117	0.051875023	0.237650009	0.31307819	520	520
FXYD7	0.051865639	0.237735001	0.3131697	520	496
CPPED1	0.051857649	0.237807392	0.31322413	520	520
AEN	0.051691598	0.239315307	0.31500449	520	520
CX3CL1	0.051672957	0.239485005	0.31520729	520	520
PLCG2	0.051658237	0.239619069	0.31532199	520	520
WNT7B	0.051650918	0.239685745	0.31538915	520	520
SIX5	0.051643969	0.239749061	0.31545188	520	520
HTR3C	0.051574692	0.24038096	0.31616836	520	253
SLC2A4RG	0.051573956	0.240387675	0.31616836	520	520
NDST4	0.051475962	0.24128352	0.31728452	520	77
HIRA	0.051449227	0.241528329	0.31758193	520	520
TNFAIP8L1	0.051445895	0.241558856	0.31758445	520	520
VWC2L	0.051402658	0.24195518	0.31800579	520	14
KRIT1	0.051390128	0.242070123	0.31811144	520	520
OPRM1	0.051381474	0.242149525	0.31819505	520	111
CT62	0.051368585	0.242267827	0.31831938	520	421
TCF20	0.051367726	0.242275716	0.31831938	520	520
AVPR2	0.051357811	0.242366746	0.31838728	520	513
YWHAB	0.051357453	0.24237004	0.31838728	520	520
OR51T1	0.051355455	0.242388383	0.31838728	520	18
TKTL1	0.051355219	0.242390554	0.31838728	520	365
ERMAP	0.051353122	0.242409812	0.31839184	520	520
MFNG	0.05133855	0.242543661	0.31852614	520	520
MTA1	0.051329813	0.242623939	0.31859941	520	520
COMMD7	0.051327416	0.242645965	0.31859941	520	520
YY1	0.051327319	0.242646854	0.31859941	520	520
RAB6A	0.051317004	0.242741662	0.31870314	520	520
LY75	0.051303363	0.24286708	0.31883816	520	520
ATP9B	0.051269257	0.243180863	0.31919665	520	520
SLC35B3	0.051212965	0.24369937	0.31979397	520	520
CHD7	0.051174829	0.244051081	0.32017215	520	520
PSAPL1	0.051131533	0.244450808	0.32059227	520	484
C8orf75	0.051112118	0.244630215	0.32080669	520	394
LCN6	0.05110649	0.244682236	0.32083318	520	279
KIRREL2	0.051059612	0.245115841	0.32135994	520	450
OR1E1	0.051041143	0.245286814	0.32154228	520	55
HERC4	0.050988514	0.245774497	0.32213969	520	520
TMEM194B	0.050982431	0.245830912	0.32219269	520	520
MGC27382	0.050956992	0.246066912	0.32248103	520	117
PGA5	0.050952942	0.246104503	0.32250934	520	249
DNMT1	0.050925518	0.246359135	0.32278009	520	520
TARSL2	0.050882782	0.246756297	0.32323744	520	520
PIP4K2C	0.050838619	0.247167191	0.32368019	520	520
GUCY2F	0.050837829	0.247174544	0.32368019	520	117
COMMD5	0.050821555	0.247326079	0.32385759	520	520

GOLGA7B	0.050812642	0.247409103	0.32394527	520	520
C7orf49	0.050810139	0.247432424	0.32395477	520	520
DNM1L	0.050795977	0.247564389	0.3241065	520	520
MTHFD2	0.050792288	0.24759877	0.32413047	520	520
CARS2	0.050722446	0.248250352	0.32489908	520	520
IRF4	0.05070645	0.248399755	0.32507351	520	520
NPY	0.050680781	0.248639634	0.3253452	520	122
IPO11	0.05063942	0.249026485	0.32573944	520	520
RP1L1	0.050615972	0.249245986	0.32599053	520	519
RNF13	0.050602182	0.24937514	0.32611715	520	520
OR5B3	0.050594991	0.249442509	0.32614179	520	4
EGLN3	0.050534327	0.250011336	0.32680076	520	520
EFNB1	0.050516394	0.250179659	0.32697911	520	520
LOC285796	0.050516335	0.250180208	0.32697911	520	129
UBE2E2	0.050510969	0.250230591	0.32702376	520	520
CXCR3	0.050495496	0.250375914	0.32717127	520	519
RASSF6	0.050491378	0.250414595	0.32720062	520	519
DDX60	0.05048584	0.250466622	0.32724739	520	520
NCRNA00171	0.050470454	0.25061122	0.32740523	520	520
TDRD12	0.05046953	0.250619902	0.32740523	520	382
XAGE3	0.050440807	0.250890006	0.32773685	520	42
SLC19A1	0.050430318	0.250988689	0.32782329	520	520
CDH9	0.050382714	0.251436897	0.32825986	520	80
SH3GL3	0.050349349	0.251751378	0.3286066	520	515
DLEU2L	0.050317489	0.252051918	0.32893404	520	516
C11orf74	0.050305127	0.252168604	0.3290447	520	520
SHKBP1	0.050281788	0.252388996	0.32928966	520	520
DSCR4	0.050240982	0.252774663	0.3297715	520	58
SLC30A8	0.050223042	0.252944341	0.32997151	520	292
C14orf159	0.050211955	0.25304924	0.33006565	520	520
OR3A1	0.050192964	0.253229004	0.3302574	520	87
FTSJD1	0.050189798	0.253258983	0.33027124	520	520
MVP	0.050155983	0.253579302	0.33065009	520	520
DEFB109P1B	0.050086019	0.254242957	0.33149402	520	9
FAM151B	0.050079977	0.254300323	0.33154738	520	520
PLA2G2D	0.050051992	0.254566154	0.3318725	520	492
MLH1	0.050034758	0.25472996	0.33206458	520	520
GPATCH2	0.05003015	0.254773771	0.33210022	520	520
SLAMF6	0.050021049	0.254860312	0.33219155	520	520
CRTAM	0.0500153	0.25491499	0.33221987	520	517
EIF2AK1	0.049995587	0.255102538	0.33242132	520	520
TMEM156	0.049936586	0.255664444	0.33310849	520	519
LOC100190938	0.049935014	0.255679431	0.33310849	520	509
TCL6	0.049921957	0.255803898	0.33324911	520	332
C10orf129	0.049816029	0.256815257	0.33444802	520	58
AKNAD1	0.04975177	0.257430125	0.33515115	520	471

CD96	0.049695276	0.257971527	0.33581265	520	520
ZFP161	0.049663545	0.258275969	0.33618725	520	520
NCR1	0.049637984	0.258521391	0.33644155	520	407
USP46	0.049624012	0.258655609	0.3365945	520	520
C6orf182	0.049597877	0.258906796	0.33689963	520	520
FAM55A	0.049553267	0.25933594	0.33739273	520	80
GDF2	0.049545948	0.2594064	0.33744085	520	19
VWDE	0.049521681	0.259640097	0.33765772	520	405
OR5T3	0.049482287	0.26001978	0.33808095	520	4
GGT7	0.049480956	0.260032609	0.33808095	520	520
SLC7A9	0.04944308	0.260398038	0.33849059	520	434
SCARNA17	0.049424079	0.260581494	0.3386854	520	505
SERPINA10	0.049419986	0.260621025	0.33871494	520	305
PBX1	0.049412566	0.260692694	0.33873242	520	520
PRKAG2	0.049412079	0.260697395	0.33873242	520	520
ZNF322B	0.049391891	0.26089247	0.33893665	520	520
SLC6A18	0.049362299	0.261178592	0.33924232	520	29
TFAP2D	0.049360597	0.261195055	0.33924232	520	51
UBA1	0.049353598	0.261262763	0.33930841	520	520
SDHA	0.049350457	0.261293156	0.33932603	520	520
NXF2B	0.049328318	0.261507418	0.3395824	520	47
C14orf21	0.049317449	0.261612659	0.33967532	520	520
OR1L3	0.049283827	0.261938377	0.34005443	520	29
VWA2	0.049259928	0.262170081	0.34031969	520	520
NTN3	0.04925927	0.262176459	0.34031969	520	357
ABHD14A	0.049246979	0.262295672	0.34045252	520	520
INHBC	0.049243946	0.262325101	0.3404688	520	384
RIMS3	0.049239287	0.262370304	0.34050555	520	520
IL1RAPL1	0.049170976	0.263033699	0.34121278	520	244
CCDC111	0.049139728	0.263337547	0.34156299	520	520
ERCC8	0.049109927	0.263627547	0.34187317	520	520
CHURC1	0.049072297	0.26399405	0.34226491	520	520
DCUN1D1	0.04906689	0.264046741	0.3422847	520	520
RBBP9	0.049061466	0.264099601	0.34233121	520	520
SHCBP1	0.049055581	0.26415697	0.34238357	520	520
ZIC1	0.049044553	0.264264488	0.34247889	520	393
RFXAP	0.049000545	0.264693852	0.34288197	520	520
ANKRD36B	0.049000475	0.264694541	0.34288197	520	515
NCRNA00120	0.048981935	0.264875564	0.34307238	520	520
GH1	0.04897963	0.26489808	0.34307672	520	159
XG	0.048952667	0.265161526	0.3433325	520	520
GATS	0.048859823	0.266070035	0.34437616	520	520
KRTAP1-1	0.048839538	0.266268811	0.34459661	520	135
MUC7	0.048838954	0.266274535	0.34459661	520	250
XPOT	0.048801974	0.266637187	0.34502164	520	520
OR5P2	0.048783316	0.266820277	0.34521425	520	46

NUDT17	0.048777168	0.266880637	0.34527019	520	520
THEG	0.048743027	0.267215947	0.34565963	520	432
KRTAP11-1	0.048730786	0.267336243	0.34573418	520	151
RSAD2	0.048730184	0.267342162	0.34573418	520	520
LBXCOR1	0.048718637	0.267455675	0.34583662	520	502
ADPGK	0.048682923	0.267806969	0.34622426	520	520
CST3	0.048649946	0.268131613	0.34653287	520	520
MAD2L2	0.048627092	0.268356769	0.34680163	520	520
RNF185	0.048617579	0.268450518	0.34690055	520	520
KRTAP5-11	0.048569566	0.268924061	0.34749021	520	68
SEZ6	0.048520377	0.269409792	0.34809554	520	271
SLC7A5P1	0.048471483	0.269893216	0.34867547	520	389
FBXO11	0.048437806	0.270226516	0.34903898	520	520
PRAMEF1	0.048435905	0.270245346	0.34904094	520	64
GCSH	0.048410176	0.270500194	0.34929087	520	515
DPEP3	0.048402388	0.270577369	0.34933551	520	354
CLEC7A	0.048368464	0.270913703	0.34972496	520	520
PUS10	0.048359006	0.271007521	0.34980128	520	520
DNAH1	0.048339391	0.271202165	0.35003011	520	520
GRM3	0.048324694	0.271348076	0.35012879	520	333
FKBP1B	0.048278404	0.271807974	0.35065489	520	520
LOC387647	0.048274216	0.271849613	0.35066616	520	520
MAFG	0.048274027	0.271851488	0.35066616	520	520
LOC729678	0.048259152	0.271999407	0.35083006	520	520
GAGE2D	0.04825775	0.272013349	0.35083006	520	145
CBLL1	0.048237845	0.272211379	0.35104056	520	520
PLA2G2C	0.048231027	0.27227923	0.35108316	520	8
CCDC151	0.048213327	0.272455427	0.35124069	520	506
RPS15AP10	0.048212019	0.27246846	0.35124069	520	461
UGCG	0.048211755	0.272471081	0.35124069	520	520
AGA	0.048171321	0.272873909	0.35167004	520	520
DPY19L2P2	0.048164201	0.272944881	0.35173903	520	518
TAF13	0.048083012	0.273755102	0.35269298	520	520
MBP	0.048078738	0.273797799	0.35272546	520	520
NF1P1	0.048048596	0.274099046	0.35302332	520	54
PPP1R14C	0.048028976	0.274295254	0.3532309	520	520
NECAP2	0.048022227	0.27436277	0.35329529	520	520
C20orf132	0.047980888	0.274776566	0.35376035	520	520
PCDHB9	0.047973779	0.274847762	0.35382942	520	520
LOC389634	0.047968149	0.27490416	0.35387944	520	482
LOC253724	0.047911833	0.275468731	0.35458356	520	517
TWISTNB	0.047884461	0.275743422	0.35489183	520	520
PCDHA5	0.047874171	0.275846731	0.35500214	520	212
GOLGA6B	0.047852394	0.276065468	0.3552383	520	307
ADAM21	0.047829804	0.276292482	0.35550773	520	466
LMO2	0.047821768	0.276373274	0.35558899	520	520

TUSC1	0.047817233	0.276418874	0.35562497	520	520
TMEM48	0.047757723	0.277017718	0.3563272	520	520
GAGE2C	0.047755182	0.277043306	0.35633739	520	63
ZNF17	0.047749637	0.277099158	0.35638649	520	520
MMADHC	0.047728798	0.277309109	0.35663377	520	520
BTBD12	0.047701165	0.27758768	0.35692059	520	520
ERCC3	0.047696226	0.277637489	0.35694225	520	520
MTNR1A	0.047678419	0.277817122	0.35715043	520	286
ZNF780B	0.047669471	0.277907414	0.35722222	520	520
ZSWIM2	0.047629851	0.278307467	0.35758148	520	39
NPY2R	0.0476294	0.27831203	0.35758148	520	104
OR2K2	0.047616161	0.278445794	0.35773055	520	97
NGRN	0.047602031	0.278588609	0.35789123	520	520
LOC284798	0.047541433	0.279201656	0.35856456	520	237
C7orf70	0.047512461	0.279495074	0.35891852	520	520
MTM1	0.047470858	0.279916787	0.35936853	520	520
NAT10	0.047449187	0.280136632	0.35960693	520	520
POLR3GL	0.047449021	0.28013831	0.35960693	520	520
DEFB131	0.047431265	0.280318525	0.35976976	520	8
BNC1	0.047381108	0.280828012	0.36037778	520	520
C2orf42	0.047368901	0.280952105	0.36050552	520	520
MCM4	0.047367798	0.280963316	0.36050552	520	520
PIAS2	0.047342832	0.28121724	0.36078542	520	520
NMT2	0.047330178	0.281345991	0.36092764	520	520
SATL1	0.047325736	0.281391203	0.36096267	520	518
SMYD4	0.047297141	0.281682336	0.36131314	520	520
DEXI	0.047282336	0.281833157	0.36148361	520	520
PNPLA3	0.047266103	0.281998577	0.36162677	520	515
PGLYRP1	0.047240942	0.282255116	0.36190971	520	283
C20orf56	0.047210624	0.28256445	0.36226027	520	231
STX12	0.047185787	0.282818022	0.36251622	520	520
ARSD	0.047174234	0.282936028	0.36264442	520	520
TAF3	0.047170707	0.282972056	0.3626445	520	520
SP110	0.047134188	0.283345325	0.36309979	520	520
KCNS3	0.04710249	0.283669578	0.36344601	520	520
MAP3K13	0.047075474	0.283946136	0.36373101	520	517
ACOT6	0.0470737	0.283964304	0.36373118	520	256
FAM190A	0.047069321	0.28400915	0.36376552	520	486
TRAT1	0.047040308	0.284306396	0.36405374	520	486
SYN2	0.047031906	0.284392526	0.3641409	520	444
DPF1	0.046967128	0.285057092	0.36494547	520	518
LOC339290	0.046898627	0.285760996	0.36573054	520	520
DPY19L2P1	0.046888056	0.285869721	0.36582974	520	407
ZNF3	0.046869883	0.28605671	0.3660075	520	520
TMEM20	0.046868771	0.286068153	0.3660075	520	520
KRAS	0.046860098	0.286157429	0.36605564	520	520

PER4	0.046859964	0.286158799	0.36605564	520	21
VWA5B1	0.046859825	0.286160236	0.36605564	520	194
C17orf17	0.046799157	0.286785216	0.36671552	520	520
CTAG2	0.046756572	0.287224455	0.36720839	520	196
DKFZp686A1627	0.046746116	0.287332368	0.367322	520	154
C2CD4C	0.046732729	0.287470578	0.36747539	520	520
PRAME	0.046715677	0.287646688	0.3676772	520	483
FAM27C	0.046695148	0.287858803	0.36790169	520	516
CENPBD1	0.046674138	0.288076004	0.36813262	520	520
PRF1	0.0466636397	0.288466436	0.36853812	520	520
C5orf38	0.046588193	0.288965629	0.36910572	520	515
SLC38A1	0.046539571	0.28946973	0.36963255	520	520
LOC100272217	0.046495149	0.28993081	0.370151	520	520
FAM168B	0.046479944	0.290088738	0.37032917	520	520
PDS5A	0.046451743	0.290381818	0.37065639	520	520
LOC349196	0.04641884	0.290724005	0.37095228	520	447
PIGO	0.046376592	0.291163779	0.37137241	520	520
UCP1	0.046357604	0.291361582	0.3715542	520	232
STIP1	0.04632963	0.291653148	0.37190249	520	520
PRDM1	0.046277834	0.292193532	0.37250779	520	520
LOC401093	0.04627717	0.292200464	0.37250779	520	520
C18orf20	0.046201102	0.292995297	0.37344862	520	21
FBXL22	0.046197533	0.293032621	0.37346435	520	518
ZDHHC24	0.046164607	0.293377146	0.3738539	520	520
C1orf227	0.046163625	0.293387427	0.3738539	520	197
ABCB9	0.046114441	0.293902579	0.37443935	520	520
RAB39B	0.046078932	0.294274872	0.37482619	520	515
GLIPR1L2	0.046057662	0.294498034	0.37505579	520	505
MAGEB3	0.04604328	0.294648986	0.3751766	520	51
NRBF2	0.04599765	0.295128267	0.37573976	520	520
SLC9A6	0.045924196	0.295900893	0.37653323	520	520
ANXA2P2	0.045886661	0.296296226	0.37698871	520	520
C17orf67	0.045876193	0.296406536	0.37710527	520	520
LOC147804	0.045843272	0.29675365	0.37745162	520	520
SSX3	0.045796695	0.297245213	0.37799909	520	43
C12orf4	0.045733755	0.297910331	0.37863624	520	520
BOD1	0.045696129	0.298308416	0.37901742	520	520
TMEM149	0.045695069	0.298319633	0.37901742	520	520
SLC16A1	0.045694749	0.298323026	0.37901742	520	520
ABCC1	0.045682934	0.298448103	0.37915055	520	520
FLJ43663	0.045681299	0.298465414	0.37915055	520	520
AP3D1	0.045672255	0.298561187	0.37920902	520	520
TRIM71	0.045669546	0.298589876	0.37920902	520	142
CENPV	0.045668591	0.29859999	0.37920902	520	519
GMPPA	0.045668007	0.298606179	0.37920902	520	520
TMC3	0.045666298	0.29862428	0.37920902	520	294

MGC87042	0.045613455	0.299184352	0.37984846	520	520
SMEK3P	0.045603277	0.299292303	0.37994675	520	114
G3BP1	0.045588368	0.299450488	0.38009062	520	520
HSPA1L	0.045577335	0.29956758	0.38019138	520	520
FUCA1	0.04552895	0.300081448	0.38074769	520	520
SC5DL	0.045497064	0.300420419	0.3811538	520	520
ANKRD26P1	0.045486716	0.300530476	0.38123859	520	160
CDHR5	0.04548583	0.300539904	0.38123859	520	429
NPDC1	0.045467713	0.300732663	0.38145395	520	520
C6orf201	0.045460327	0.300811267	0.38152965	520	487
CALR3	0.045439069	0.301037586	0.38174466	520	258
ZNF662	0.045392695	0.301531691	0.38229911	520	520
CXorf56	0.045389862	0.301561898	0.38231337	520	520
FAM116B	0.045383191	0.301633021	0.38237949	520	520
UTF1	0.045365347	0.301823337	0.38257265	520	169
MAFK	0.045317418	0.302334906	0.3830766	520	520
ZNF679	0.045295077	0.30257355	0.38335489	520	57
PCDHGB8P	0.045285726	0.302673483	0.38345741	520	419
FLJ36777	0.045275662	0.302781055	0.38356193	520	478
NCRNA00200	0.045193336	0.303661956	0.38463721	520	92
GPC2	0.045180918	0.30379498	0.38475736	520	520
SNCB	0.045102254	0.304638527	0.38572881	520	504
PHF1	0.045085209	0.304821514	0.38593627	520	520
MAF1	0.045055367	0.305142058	0.38626499	520	520
SI	0.045035338	0.305357323	0.38646906	520	43
GABARAP	0.045014874	0.305577366	0.38669901	520	520
GNLY	0.044981528	0.305936149	0.38707283	520	520
LSP1	0.044932614	0.306462936	0.38767369	520	520
ZFAND5	0.044913218	0.30667198	0.38791379	520	520
CD22	0.044857372	0.307274431	0.38862709	520	520
TDGF1	0.044837161	0.30749265	0.38887869	520	303
PSMD1	0.044820927	0.307668006	0.38902726	520	520
C21orf56	0.044811228	0.307772806	0.38913537	520	520
HRASLS5	0.044783565	0.308071831	0.38944019	520	438
RBM18	0.044777998	0.308132027	0.3894695	520	520
C14orf33	0.044777848	0.30813365	0.3894695	520	520
CLEC2L	0.04474984	0.308436646	0.38982804	520	404
ZNF720	0.044724406	0.308711958	0.3901271	520	520
PATE2	0.044717653	0.308785089	0.3901743	520	216
RFX1	0.044714995	0.308813869	0.39018252	520	520
TSSK4	0.044710276	0.308864986	0.39022265	520	509
CLDN18	0.044706448	0.308906444	0.39024837	520	461
SLC35D3	0.044704823	0.308924049	0.39024837	520	324
LOC92659	0.044700427	0.30897167	0.39028408	520	520
GABRR1	0.044679542	0.309197998	0.3905455	520	466
TERF2	0.044663858	0.309368028	0.39073579	520	520

NBPF7	0.044607438	0.309980192	0.39145992	520	305
PIK3IP1	0.044602593	0.310032793	0.39150183	520	520
LOC283174	0.044522134	0.310907267	0.39250777	520	518
C7orf52	0.044492213	0.311232874	0.39279587	520	267
ELOVL4	0.044487726	0.311281716	0.39283293	520	520
DCX	0.044437901	0.311824485	0.39344448	520	368
AIP	0.044434591	0.311860564	0.39344448	520	520
GSTO1	0.044410154	0.312127012	0.39375182	520	520
CRLF1	0.044339358	0.312899787	0.39455389	520	520
MAGEF1	0.044161952	0.314841771	0.39663061	520	520
LANCL2	0.044109578	0.315416589	0.39728029	520	520
ELL	0.044092161	0.315607899	0.39749642	520	520
FKBP5	0.044087867	0.315655074	0.397531	520	520
CALCA	0.044066149	0.315893755	0.3977074	520	165
ZBTB11	0.044010402	0.316506959	0.39840479	520	520
VIP	0.043989671	0.316735193	0.39866719	520	371
CDH18	0.043976775	0.316877223	0.39882107	520	313
KRTAP19-1	0.043973818	0.316909792	0.39883716	520	177
LOC100188947	0.043951098	0.317160142	0.39910242	520	414
LRRC58	0.043912364	0.317587239	0.39954012	520	520
GSK3A	0.043898196	0.317743547	0.39968702	520	520
LRRTM1	0.043885721	0.317881232	0.3998102	520	226
SDAD1	0.04387875	0.317958187	0.39988205	520	520
GAGE12D	0.043850931	0.318265395	0.40024345	520	134
ABCA11P	0.043837889	0.31840948	0.40034974	520	520
TET3	0.043835409	0.318436887	0.40035923	520	520
ASZ1	0.043833241	0.31846085	0.4003644	520	15
BNIP3L	0.043795392	0.318879294	0.40084048	520	520
CT47A1	0.043735845	0.319538365	0.40159384	520	3
UBQLN2	0.043702144	0.319911758	0.4019629	520	520
CCDC69	0.04364805	0.320511702	0.40264145	520	520
CSN1S1	0.043638205	0.320620969	0.40272854	520	28
PTK2B	0.043596785	0.32108094	0.40323095	520	520
MAGEA3	0.043594469	0.321106678	0.40323815	520	384
CCDC65	0.043582827	0.321236039	0.40337548	520	474
STL	0.043578352	0.321285777	0.40341282	520	512
TSPYL1	0.04356275	0.321459222	0.40358033	520	520
ANXA2P3	0.043495056	0.322212476	0.40437495	520	520
TUBGCP3	0.043470942	0.322481075	0.40466167	520	520
UGT2B7	0.043448586	0.322730227	0.40489872	520	318
RPL7L1	0.043444657	0.322774027	0.40492848	520	520
AGBL4	0.043409252	0.323168891	0.40527256	520	280
ZNF107	0.043401259	0.323258075	0.40533399	520	520
WFDC10A	0.043344642	0.323890288	0.40602572	520	16
TP53I13	0.043296717	0.324426052	0.40662151	520	520
WBP2NL	0.043289002	0.324512358	0.40669341	520	385

HOXD3	0.04322183	0.325264396	0.40757092	520	515
RAET1K	0.043169639	0.3258495	0.40827871	520	510
SLC24A5	0.043128612	0.326309922	0.4088048	520	364
C20orf12	0.043117399	0.326435825	0.40891172	520	520
LOC360030	0.043095045	0.326686932	0.40917543	520	35
HS6ST1	0.043080143	0.326854403	0.40935976	520	520
HAUS6	0.043066188	0.327011268	0.4095283	520	520
FGFBP2	0.043064559	0.327029591	0.4095283	520	504
GRIN3B	0.043014743	0.327590012	0.41017915	520	510
KCNV1	0.043006496	0.327682839	0.41024443	520	167
OR13H1	0.043000596	0.327749266	0.41030212	520	55
ZNF114	0.042932932	0.328511709	0.4110911	520	519
LDHA	0.042932338	0.328518412	0.4110911	520	520
PLEKHA2	0.042932001	0.328522213	0.4110911	520	520
PRIM2	0.042850026	0.329447459	0.41209544	520	520
LRWD1	0.042818067	0.329808636	0.41252164	520	520
LOC100144604	0.04276212	0.330441526	0.41323635	520	231
WDTC1	0.04275986	0.330467108	0.41324271	520	520
RP1-177G6.2	0.042720237	0.330915825	0.41368322	520	157
C9orf122	0.042719413	0.330925158	0.41368322	520	495
CLEC4GP1	0.042715881	0.330965178	0.41368322	520	329
IL5RA	0.042714944	0.330975799	0.41368322	520	367
LOC84740	0.042714263	0.330983508	0.41368322	520	519
GPR31	0.04269704	0.331178707	0.41390154	520	238
ARIH1	0.042689068	0.331269085	0.41396421	520	520
XCR1	0.042688995	0.331269913	0.41396421	520	452
ALPP	0.042632623	0.331909424	0.41468626	520	416
MCM8	0.042586776	0.332430128	0.41525964	520	520
SQSTM1	0.042530039	0.333075234	0.41590248	520	520
TSPAN13	0.042528818	0.333089124	0.41590248	520	520
HLTF	0.042487615	0.333558132	0.4164623	520	520
CD52	0.042480259	0.333641912	0.41654111	520	520
MYO1G	0.042438865	0.334113591	0.41707834	520	520
DCAF13	0.042395716	0.334605721	0.41764096	520	520
NLRC3	0.042392825	0.334638721	0.4176563	520	519
ANXA2P1	0.042352334	0.335100991	0.41810385	520	520
JUB	0.042345625	0.335177622	0.41817359	520	520
CPA2	0.042314458	0.33553378	0.41854025	520	367
LOC440173	0.042307135	0.335617494	0.41861878	520	492
ZNF202	0.0422511	0.336258537	0.41939241	520	520
CCDC134	0.042240074	0.336384771	0.41951255	520	520
COBL	0.042156916	0.337337779	0.42052626	520	519
B4GALNT2	0.042152108	0.337392929	0.42053124	520	434
BCAP29	0.042138424	0.33754993	0.42069082	520	520
OPRK1	0.042103555	0.337950216	0.42111161	520	248
PEX10	0.042081824	0.338199826	0.42139661	520	520

C11orf21	0.042037599	0.338708191	0.42194503	520	495
HOXA13	0.042036252	0.338723678	0.42194503	520	446
ABCD4	0.042020187	0.338908472	0.42212307	520	520
TP53	0.042001012	0.339129125	0.42234573	520	520
HLA-J	0.041969965	0.339486583	0.42276479	520	518
ACVR1C	0.041953975	0.339670774	0.42296804	520	520
DCLRE1B	0.041951798	0.339695854	0.42297315	520	520
LOC284788	0.041915888	0.340109769	0.42343624	520	22
AQP7P1	0.041891442	0.340391728	0.42373495	520	388
OR52E4	0.04186103	0.340742704	0.42414568	520	12
GRIK5	0.041845828	0.340918237	0.42433798	520	519
GPN1	0.041804058	0.341400822	0.42485382	520	520
ZFP64	0.041802663	0.341416943	0.42485382	520	520
HIST1H1T	0.041796455	0.341488708	0.4249169	520	272
CREB3L3	0.041763635	0.341868266	0.42531045	520	412
ARID2	0.04175586	0.341958217	0.42536986	520	520
SH2D2A	0.041746203	0.342069977	0.42548264	520	520
VN1R5	0.041679878	0.342838121	0.42638549	520	119
FBXW2	0.041655465	0.34312113	0.42671114	520	520
AGPAT9	0.041616376	0.34357459	0.42722238	520	520
LOC202181	0.041595501	0.34381691	0.42748816	520	518
IER5L	0.041562113	0.344204714	0.42792617	520	520
SIX6	0.041540706	0.344453503	0.42815685	520	170
PRMT10	0.04152374	0.344650768	0.42837564	520	520
PANX2	0.041487712	0.345069892	0.42881729	520	520
MS4A10	0.041473829	0.345231482	0.42899166	520	85
YAF2	0.041459962	0.34539293	0.42916583	520	520
CCL16	0.041453974	0.345462658	0.42922602	520	155
MESDC2	0.041431728	0.345721799	0.42941569	520	520
SYCE1	0.041412071	0.345950887	0.42964731	520	376
RTKN	0.041364339	0.34650757	0.43023268	520	520
PANK4	0.041362327	0.346531044	0.43023533	520	520
OLIG1	0.041320218	0.347022641	0.43081914	520	340
SNORA23	0.041297581	0.347287094	0.43109437	520	188
TCF23	0.041290293	0.347372262	0.4311215	520	48
C17orf77	0.041220605	0.348187305	0.43205224	520	194
EIF4E1B	0.041216515	0.34823518	0.43205846	520	58
SSX4	0.041191388	0.348529378	0.43231708	520	169
UBE2V1	0.041166639	0.348819307	0.43262348	520	520
SLCO4C1	0.041150516	0.349008266	0.43280459	520	482
CDC16	0.041136294	0.349175008	0.43298474	520	520
PGA4	0.041072808	0.3499199	0.43377504	520	225
GDAP2	0.041031359	0.350406786	0.43424513	520	520
RDH11	0.041003657	0.350732414	0.43460526	520	520
ZNF14	0.040996531	0.350816213	0.43467237	520	520
CORO1A	0.040958903	0.351258902	0.43516739	520	520

MBOAT4	0.040885621	0.352122073	0.43610279	520	463
TYK2	0.040855635	0.352475662	0.43646028	520	520
KRT86	0.040804015	0.353084866	0.43710727	520	519
OR10G9	0.040801071	0.353119628	0.43711903	520	5
FAM46C	0.040799539	0.353137719	0.43711903	520	520
SF3B1	0.040785173	0.353307403	0.43730222	520	520
GRXCR1	0.040735913	0.353889601	0.43788843	520	20
ZNF442	0.040731374	0.353943284	0.43792798	520	519
FAM98B	0.040707245	0.35422871	0.43822736	520	520
RORB	0.040704136	0.354265499	0.43824598	520	475
C11orf17	0.040665956	0.354717465	0.43875126	520	520
GCLM	0.040639832	0.355026924	0.43905323	520	520
IRX4	0.040604033	0.355451276	0.4394873	520	511
ZNF2	0.040587882	0.355642819	0.43965311	520	520
HBD	0.040511712	0.356547074	0.44058189	520	242
NOC3L	0.040450982	0.357269061	0.44123068	520	520
RAB13	0.040432425	0.35748986	0.44139523	520	520
ZNF280B	0.040397745	0.357902726	0.44182384	520	506
STK17A	0.040395059	0.357934709	0.44183627	520	520
C8A	0.040382423	0.358085233	0.44199502	520	72
HSF5	0.040378067	0.358137125	0.44203201	520	357
TSR1	0.040352216	0.358445199	0.44230396	520	520
CTPS2	0.040322183	0.358803326	0.44268086	520	520
SCARNA8	0.040313037	0.358912429	0.44274503	520	8
CALM1	0.040289314	0.359195521	0.44306714	520	520
ZNF155	0.040255793	0.359595781	0.44352445	520	520
HBG2	0.040188827	0.360396213	0.44443944	520	236
ACAT1	0.040158747	0.360756127	0.44485608	520	520
ZBED2	0.040152408	0.360832003	0.44490833	520	520
CAPN7	0.040147939	0.360885496	0.44493397	520	520
GALP	0.04014606	0.360907985	0.4449345	520	42
TAS2R14	0.040133328	0.361060433	0.44509522	520	492
ZNF735	0.04013031	0.361096583	0.44511257	520	39
NANOS3	0.040116792	0.36125849	0.44523946	520	505
MAGEA2	0.040116185	0.361265759	0.44523946	520	368
SSX6	0.040111606	0.361320611	0.44527984	520	254
CYorf15A	0.040051407	0.36204227	0.44592391	520	410
NMUR1	0.04003826	0.3622	0.44608528	520	455
STRAP	0.040036799	0.362217531	0.44608528	520	520
RSBN1L	0.039998829	0.362673307	0.44659203	520	520
FAM138F	0.039907829	0.363767105	0.44777485	520	291
PARP3	0.039793024	0.365149962	0.44933991	520	520
MEGF9	0.039787019	0.365222381	0.4494016	520	520
CDX2	0.03978504	0.365246251	0.44940355	520	280
GSDMD	0.039766754	0.365466839	0.44964753	520	520
HTA	0.039751173	0.365654878	0.44979654	520	86

SNORA64	0.039746945	0.365705909	0.44983188	520	34
GABRA2	0.039719719	0.366034638	0.45015385	520	224
SLC27A6	0.03971247	0.3661222	0.45023407	520	426
ZNF502	0.039682782	0.366480929	0.45064773	520	520
RRP12	0.03964966	0.366881394	0.45108515	520	520
SLC3A2	0.039628134	0.367141811	0.45129526	520	520
FHIT	0.039605844	0.367411591	0.45157182	520	508
RBBP4	0.039551548	0.368069257	0.45232499	520	520
ZNF680	0.039469701	0.369062023	0.45343448	520	520
ZBTB24	0.03941246	0.369757305	0.45420568	520	520
KIAA0319L	0.039342388	0.370609554	0.45508623	520	520
OR1L4	0.039323574	0.370838585	0.45533974	520	17
TMTC4	0.039271037	0.371478605	0.45599041	520	520
COX18	0.039186728	0.372507108	0.45716575	520	520
ZNF512	0.039168631	0.372728108	0.45740914	520	520
KIAA1539	0.039155742	0.372885558	0.45757451	520	520
C7orf4	0.03913358	0.373156369	0.45779539	520	96
FAM150A	0.039105012	0.373505661	0.45817482	520	175
OSBPL11	0.039086137	0.373736539	0.45839559	520	520
SV2C	0.039048045	0.374202758	0.45888368	520	392
HLA-H	0.039030344	0.374419522	0.45910666	520	520
SLCO1B1	0.039018944	0.374559172	0.45923697	520	299
GSTCD	0.039006546	0.374711076	0.45939528	520	520
LOC389332	0.038980573	0.375029433	0.45970063	520	324
VIPR1	0.038968234	0.375180737	0.45982052	520	520
TSPY2	0.038967091	0.375194752	0.45982052	520	41
STX11	0.038958666	0.375298082	0.45991598	520	520
ABCF2	0.03895067	0.37539617	0.45998349	520	520
SH3TC1	0.038948048	0.375428344	0.45999496	520	520
ALS2CR8	0.038925502	0.375705008	0.46025854	520	520
ATMIN	0.038924937	0.375711941	0.46025854	520	520
SMC3	0.038922943	0.375736418	0.46026056	520	520
ST7OT2	0.038888631	0.376157742	0.46066473	520	64
GMPR2	0.038885317	0.376198451	0.4606866	520	520
NEURL	0.038882346	0.376234947	0.46068969	520	520
CDC42SE1	0.038881392	0.37624667	0.46068969	520	520
TBCB	0.03884287	0.376720096	0.46115736	520	520
CCDC38	0.038795791	0.377299186	0.46173883	520	223
BCL7A	0.038794945	0.377309598	0.46173883	520	520
RASAL3	0.038778173	0.377516028	0.46196342	520	520
EVI5L	0.038746494	0.37790614	0.46238467	520	520
KRTAP13-2	0.038720033	0.378232182	0.46275552	520	124
FLJ14107	0.038652433	0.379065911	0.46366303	520	366
POU6F2	0.038624401	0.379411968	0.46403002	520	326
MAGEB1	0.038612585	0.379557889	0.46415218	520	70
ZFY	0.038593084	0.379798793	0.46439216	520	468

SNORA70	0.038559833	0.380209788	0.46483661	520	61
CEP57	0.038545927	0.380381753	0.46501865	520	520
ARIH2	0.038538388	0.380474995	0.46510444	520	520
RTN4R	0.038505623	0.380880422	0.46557183	520	520
GPA33	0.038503236	0.380909977	0.46557973	520	474
USP50	0.038485728	0.381126722	0.46575995	520	105
GML	0.038470094	0.381320343	0.46594009	520	70
KIF20A	0.038450133	0.381567639	0.46613865	520	520
FAM107A	0.03844935	0.381577342	0.46613865	520	520
GAGE8	0.038447648	0.38159843	0.46613865	520	71
PACRG	0.038421145	0.381926951	0.46648344	520	399
RPL21	0.038417645	0.381970345	0.46650818	520	490
SYNPR	0.038399161	0.382199579	0.4667019	520	108
FAM197Y2	0.038395524	0.382244686	0.4667019	520	16
FAM60A	0.038352539	0.382778141	0.46726618	520	520
LOC678655	0.038346761	0.382849885	0.46727072	520	520
FMO3	0.038314097	0.383255594	0.467653	520	519
NFXL1	0.038292313	0.383526312	0.4679267	520	520
SRRM4	0.038289187	0.383565177	0.46793536	520	321
CCKBR	0.038288009	0.383579821	0.46793536	520	230
BASE	0.038284708	0.383620851	0.46795374	520	8
VANGL2	0.038282458	0.383648832	0.46795374	520	520
NIPAL4	0.038281197	0.38366451	0.46795374	520	519
TXNIP	0.038247123	0.384088282	0.46838561	520	520
CLDN6	0.038241343	0.384160201	0.46840013	520	410
ZDHC19	0.038240566	0.384169873	0.46840013	520	413
LSM14B	0.038233727	0.384254971	0.46847556	520	520
BRPF1	0.038230211	0.384298724	0.46850057	520	520
CACNA1I	0.038182741	0.384889795	0.4691077	520	502
SMEK2	0.038163296	0.385132067	0.46936944	520	520
CDKN1C	0.038147247	0.385332099	0.46953326	520	520
HMHB1	0.038125644	0.385601459	0.4698047	520	138
LCE1A	0.038109961	0.385797075	0.47001464	520	233
PTCHD1	0.038100939	0.385909636	0.47009496	520	383
AMAC1L2	0.038095463	0.38597797	0.4701498	520	402
SLA2	0.038068223	0.38631798	0.47047869	520	520
SUPT5H	0.038063384	0.386378391	0.47052385	520	520
AHSP	0.038056028	0.386470254	0.47054386	520	219
ZNF259	0.038041456	0.386652254	0.47071521	520	520
HPCAL1	0.038036381	0.386715652	0.47075793	520	520
TJP1	0.038033041	0.38675738	0.47075793	520	520
VPS36	0.038004045	0.387119762	0.47111137	520	520
TFRC	0.03800069	0.38716171	0.47113631	520	520
RS1	0.03796441	0.387615436	0.47163153	520	365
GOLGA6A	0.037954209	0.38774307	0.47175836	520	131
HK1	0.037916214	0.388218691	0.47219458	520	520

GUSBL2	0.037904451	0.388366013	0.47231678	520	520
OR52N1	0.03788992	0.388548048	0.47248118	520	13
ZNF250	0.037885587	0.388602328	0.47251868	520	520
ZNF673	0.037865901	0.388849044	0.47276166	520	520
MKRN3	0.037855735	0.388976495	0.47285959	520	502
CD5L	0.037850152	0.38904649	0.47288766	520	286
KHDC1	0.037830882	0.389288156	0.47312437	520	519
SQLE	0.037826643	0.389341342	0.47316049	520	520
ASAP3	0.037798232	0.389697832	0.47350811	520	520
YARS2	0.037791094	0.389787432	0.47352771	520	520
IL12B	0.037783924	0.389877449	0.47358367	520	454
ESR1	0.037689127	0.391068738	0.47480191	520	520
IL28RA	0.037677658	0.391213008	0.47492675	520	520
PCSK7	0.03767593	0.391234757	0.47492675	520	520
NODAL	0.037655366	0.39149353	0.4752032	520	504
CXCL11	0.037630187	0.39181052	0.47542179	520	517
LIPT2	0.037616948	0.391977255	0.47558995	520	520
OR2L8	0.037605446	0.392122154	0.47570851	520	21
PYGL	0.037594721	0.392257285	0.47584009	520	520
LOC550643	0.037579069	0.392454564	0.47602586	520	520
KIAA0415	0.037571925	0.392544619	0.47610645	520	520
CHRNB4	0.037561923	0.392670724	0.47623075	520	493
SERPINA7	0.037538569	0.39296527	0.476502	520	44
KCTD18	0.037534682	0.393014303	0.4765328	520	520
ADAMTS13	0.037464226	0.393903788	0.47747544	520	519
TBK1	0.037463724	0.393910135	0.47747544	520	520
RASGEF1A	0.037440415	0.394204674	0.47776297	520	520
KIF14	0.037439327	0.394218423	0.47776297	520	520
CUL4A	0.037402974	0.394678074	0.4782338	520	520
OR2M1P	0.037397889	0.394742384	0.47828299	520	9
IFT27	0.037374297	0.395040888	0.4786159	520	520
TAX1BP3	0.03736577	0.395148806	0.47871789	520	520
DLAT	0.03731592	0.395780085	0.47939627	520	520
LOC151174	0.037257873	0.396515918	0.48017218	520	473
MBNL3	0.037245942	0.396667274	0.48028512	520	520
CXorf48	0.037183597	0.397458694	0.48109153	520	232
OR2T1	0.037084789	0.398714938	0.48242952	520	7
HBM	0.037068303	0.39892477	0.48264422	520	77
HDC	0.037059909	0.399031636	0.48269724	520	518
TAS2R46	0.037058746	0.39904644	0.48269724	520	155
PTGS1	0.037047626	0.399188042	0.48282813	520	520
PGRMC1	0.037037822	0.399312904	0.48292121	520	520
AP3S2	0.036990551	0.399915291	0.48356272	520	520
USP37	0.036986964	0.399961019	0.48358901	520	520
MAGI1	0.036968151	0.400200934	0.48382107	520	520
ZNF397OS	0.036944039	0.400508531	0.48413488	520	520

NAP1L1	0.036833381	0.401922051	0.48566886	520	520
PGPEP1L	0.036790734	0.402467613	0.48626982	520	323
CPEB2	0.036786293	0.402524444	0.48630934	520	520
SLMAP	0.036768413	0.402753335	0.48649843	520	520
OTUD6B	0.036737712	0.403146511	0.48691502	520	520
C2orf14	0.036671261	0.403998321	0.48779773	520	60
STK35	0.036560005	0.405426867	0.48934909	520	520
B3GALNT2	0.036559856	0.40542878	0.48934909	520	520
IL5	0.036543226	0.405642579	0.48951924	520	95
SPERT	0.036526104	0.405862757	0.48972633	520	491
C7orf26	0.03651893	0.40595504	0.48980155	520	520
GOLGA2P3	0.03651748	0.405973683	0.48980155	520	10
INO80	0.036446516	0.406887181	0.49078621	520	520
CEP250	0.036427494	0.407132258	0.4909542	520	520
S100B	0.036411454	0.407338972	0.49112551	520	520
PAK7	0.036390283	0.407611922	0.49142522	520	328
EFCAB5	0.036374367	0.407817184	0.49164329	520	433
VAX2	0.036293006	0.408867433	0.49276211	520	506
DLL3	0.036263076	0.409254191	0.49316928	520	496
USP26	0.036195081	0.410133637	0.49409914	520	94
THOC2	0.036193944	0.410148355	0.49409914	520	520
ZNF579	0.03618193	0.41030386	0.49422742	520	520
CABC1	0.036169277	0.410467675	0.4943373	520	520
TYW1	0.036169203	0.410468632	0.4943373	520	520
SLAMF9	0.036123042	0.41106661	0.49499834	520	516
CCDC132	0.036115488	0.411164514	0.49508666	520	520
B3GAT1	0.036086888	0.411535307	0.49547396	520	496
PAR1	0.036082381	0.411593763	0.49551475	520	93
SUV420H1	0.036065975	0.411806561	0.49574134	520	520
EOMES	0.036010777	0.412523035	0.49651492	520	517
C8orf79	0.035983023	0.412883566	0.49688954	520	514
ZNF384	0.035923163	0.413661786	0.4976182	520	520
DSPP	0.035896197	0.414012648	0.49798085	520	233
LOC285370	0.035822961	0.414966411	0.49897923	520	81
LOC100129055	0.035809501	0.415141855	0.49913066	520	119
GRIN2B	0.035739467	0.41605535	0.50013951	520	158
C11orf42	0.035715674	0.416365971	0.50048307	520	254
FLJ37543	0.035666317	0.417010769	0.50113863	520	173
KRTAP19-8	0.035624859	0.417552821	0.50170034	520	7
NDRG1	0.035553693	0.418484273	0.50275959	520	520
RPS27L	0.035535735	0.418719501	0.50301221	520	520
RALYL	0.03552988	0.418796218	0.50307056	520	131
LHPP	0.03552822	0.418817966	0.50307056	520	520
ARFIP1	0.035524396	0.418868072	0.50310077	520	520
XRN1	0.035521964	0.418899947	0.50310909	520	520
C11orf59	0.035514573	0.418996803	0.50317511	520	520

TRIM22	0.035513962	0.419004823	0.50317511	520	520
BAAT	0.035478744	0.419466557	0.50355886	520	428
LOC283070	0.035400835	0.420489059	0.50456448	520	520
TBC1D23	0.035354325	0.421100167	0.50520996	520	520
DNAJB7	0.035340301	0.421284533	0.50537977	520	467
ATP4B	0.035339745	0.421291833	0.50537977	520	156
ZNF214	0.035337523	0.42132106	0.50538476	520	499
GNB1L	0.035288554	0.421965231	0.50609725	520	520
NIPAL2	0.035255053	0.422406259	0.50659607	520	520
BOLL	0.035243406	0.42255965	0.50668963	520	300
C7orf16	0.035212483	0.42296707	0.507148	520	101
CLCA1	0.035162252	0.423629366	0.50786791	520	111
C7orf29	0.035148717	0.423807923	0.50803537	520	520
PFKP	0.03512562	0.424112726	0.50835427	520	520
NCRNA00092	0.035096065	0.424502948	0.50874755	520	449
USP5	0.035072108	0.424819421	0.50903606	520	520
FYTTD1	0.035070117	0.424845724	0.50903733	520	520
LECT1	0.035066529	0.424893136	0.50906389	520	152
C4orf52	0.034964793	0.426238696	0.51052433	520	520
CSNK1D	0.034903712	0.427047745	0.51131113	520	520
TMEM88	0.034889593	0.427234884	0.51147445	520	520
NEURL2	0.034880426	0.427356413	0.51158957	520	520
CAMK2G	0.034864928	0.427561913	0.51180519	520	520
OR10A6	0.034855733	0.42768387	0.51187489	520	136
ZW10	0.034854797	0.427696295	0.51187489	520	520
MOG	0.034834635	0.42796377	0.51213421	520	128
CFP	0.034815823	0.428213438	0.51237217	520	520
SKIV2L	0.034779023	0.428702074	0.5128154	520	520
FBXO3	0.034751739	0.429064575	0.51317742	520	520
GAL3ST3	0.034714108	0.429564817	0.51371478	520	148
HOXB3	0.034709347	0.429628127	0.51376003	520	520
TMEFF2	0.034686953	0.429926014	0.51408576	520	221
BBC3	0.0346804	0.43001321	0.51415953	520	520
VPS8	0.034638553	0.430570237	0.51479503	520	520
MGA	0.034635871	0.430605948	0.51479851	520	520
CYP7A1	0.034629358	0.43069268	0.51484985	520	211
RNF103	0.03462634	0.430732882	0.51486738	520	520
ZNF280A	0.034609311	0.430959722	0.51501874	520	263
RBM45	0.034607248	0.430987216	0.51501874	520	520
TAS2R8	0.034592673	0.431181426	0.51515923	520	28
ATP13A1	0.034588041	0.431243156	0.51517193	520	520
RHOXF2B	0.034583557	0.431302921	0.5152128	520	142
ADORA2B	0.034567311	0.4315195	0.51541045	520	520
RAG2	0.034550971	0.4317374	0.51564017	520	68
VN1R2	0.03454028	0.431879989	0.51577992	520	21
AKAP3	0.034519636	0.432155422	0.51604773	520	519

TEF	0.034507198	0.432321422	0.51621538	520	520
SCIN	0.03445899	0.432965152	0.5168922	520	519
TBC1D21	0.034410657	0.433611094	0.51757143	520	8
PAGE1	0.034367566	0.434187462	0.51822872	520	78
DEFB119	0.034358457	0.434309354	0.51834352	520	25
TMEM22	0.034354612	0.434360805	0.51837425	520	520
UCA1	0.034334653	0.434627985	0.51864759	520	511
11-Mar	0.034333659	0.434641292	0.51864759	520	88
SCARNA3	0.034307331	0.434993861	0.51903759	520	8
DNAH12	0.034294349	0.435167775	0.51921438	520	337
C2orf72	0.03428468	0.43529733	0.51933823	520	492
PGC	0.034240157	0.435894185	0.51998878	520	198
PVRL2	0.034223561	0.436116791	0.52022356	520	520
SAMD13	0.034217266	0.436201238	0.52026273	520	514
CCNDBP1	0.034181373	0.436682936	0.52074485	520	520
SNORA47	0.03416675	0.43687927	0.52091737	520	6
STIM1	0.034117142	0.437545713	0.52155373	520	520
HOXD1	0.034099091	0.43778836	0.52178535	520	518
PZP	0.034056727	0.438358112	0.52243353	520	363
USP33	0.034030788	0.438707184	0.52278776	520	520
DEPDC6	0.034021858	0.438827394	0.5229001	520	520
GLCCI1	0.033952999	0.439754975	0.52394347	520	520
PLAA	0.03390495	0.440402892	0.52466799	520	520
COMT	0.033902115	0.440441138	0.52466799	520	520
PTPRS	0.033867149	0.440913007	0.52519907	520	520
OR4F21	0.033844248	0.441222209	0.52550529	520	13
CTNNA1	0.033808593	0.441703857	0.52604787	520	520
APPL1	0.033779034	0.442103392	0.52648054	520	520
GYS1	0.033756294	0.442410889	0.52673313	520	520
C16orf78	0.03375444	0.442435973	0.52673313	520	14
TAL2	0.033692806	0.443270057	0.52763267	520	388
POTEH	0.03366076	0.443704082	0.52807798	520	55
MTAP	0.033659383	0.443722738	0.52807798	520	520
PCDHA1	0.033605628	0.444451357	0.52869549	520	334
TRH	0.033575703	0.444857279	0.52911592	520	244
SELP	0.033568054	0.444961056	0.52920814	520	519
KCNK16	0.033545835	0.445262625	0.52953557	520	25
PYY	0.033533801	0.445425998	0.52960492	520	222
KCTD4	0.033507798	0.445779134	0.52996229	520	328
ACTR8	0.033480239	0.446153586	0.53034492	520	520
NKX2-1	0.03347622	0.446208198	0.53037857	520	325
HEPHL1	0.033470614	0.446284402	0.53043788	520	520
ERO1LB	0.033435301	0.446764531	0.53094595	520	520
GAGE2A	0.033362821	0.44775094	0.53199281	520	116
GARS	0.033338529	0.448081813	0.5323232	520	520
LOC643955	0.033318286	0.448357647	0.53255676	520	35

TYR	0.033293251	0.448698901	0.53286793	520	109
WSCD2	0.033290156	0.448741104	0.53288667	520	477
MT1B	0.033271604	0.448994092	0.5331557	520	74
DNAH6	0.033225906	0.449617628	0.5338018	520	484
RBM1B	0.033192819	0.450069387	0.53427523	520	4
SNORA50	0.033175511	0.450305807	0.53452442	520	8
KDM6A	0.03312113	0.45104909	0.53534368	520	520
WDR43	0.033079945	0.451612468	0.535933	520	520
JAKMIP1	0.033079004	0.451625346	0.535933	520	511
TP53TG3B	0.03304542	0.45208506	0.53641539	520	350
KLF11	0.033039448	0.45216683	0.53648056	520	520
FGF4	0.033005275	0.452634921	0.53690979	520	37
NAGS	0.033003335	0.452661499	0.53690979	520	520
IFNA5	0.032974506	0.453056611	0.53728363	520	25
OR6M1	0.032971346	0.453099938	0.53730341	520	30
ATP6V1B1	0.032925625	0.45372699	0.53788882	520	512
CSNK1G1	0.03291632	0.45385466	0.53800855	520	520
POU3F3	0.032908596	0.453960662	0.53807094	520	248
FAM57A	0.03288338	0.454306798	0.53841791	520	520
TRAF3IP1	0.032874751	0.45442529	0.53849504	520	520
MRPL19	0.032857182	0.454666576	0.53871764	520	520
CACNA2D3	0.032841357	0.454883986	0.53888025	520	518
PROX2	0.032837874	0.454931838	0.53890527	520	416
ZFATAS	0.032815406	0.45524063	0.53916798	520	136
FCRLA	0.03278282	0.455688664	0.53964329	520	515
APEX1	0.032754729	0.456075111	0.5400375	520	520
DEM1	0.032752097	0.456111328	0.54004867	520	520
LRRC50	0.032700554	0.456820901	0.54076181	520	475
INPP5K	0.032697752	0.456859492	0.54077574	520	520
ENPP3	0.032690916	0.456953648	0.54085545	520	468
GUCY2D	0.032656578	0.457426786	0.5412566	520	507
DEFB125	0.032626821	0.457837018	0.54171022	520	19
FAM27A	0.032597366	0.458243303	0.54215912	520	517
SRM	0.032594467	0.458283294	0.54217463	520	520
PIK3R2	0.032585073	0.458412918	0.54229616	520	520
MDK	0.032575375	0.458546752	0.54239084	520	520
C4orf11	0.032563902	0.458705117	0.54251348	520	15
MYL12A	0.032531725	0.459149421	0.54294446	520	520
C6orf154	0.032519798	0.459314174	0.5430119	520	518
JAG2	0.032498995	0.459601604	0.54322788	520	520
PRKACG	0.032451709	0.460255329	0.54389092	520	115
ALG10	0.032450396	0.46027349	0.54389092	520	520
TMPRSS9	0.032444535	0.460354552	0.54395483	520	430
KIAA0087	0.03243178	0.460531003	0.54413144	520	159
C1orf114	0.032395558	0.461032278	0.54457228	520	471
ZNF558	0.032395062	0.461039144	0.54457228	520	520

SNORD17	0.032367057	0.461426925	0.54487073	520	503
PTPN20B	0.032354546	0.461600219	0.54501265	520	463
PF4V1	0.032289755	0.46249826	0.54603987	520	380
GFAP	0.03228343	0.462585975	0.5460638	520	474
KIAA2013	0.032261524	0.462889854	0.54637423	520	520
SBDS	0.032236229	0.463240878	0.54666056	520	520
ZNF433	0.032224566	0.463402774	0.54681961	520	517
LINGO2	0.032173047	0.464118325	0.54750377	520	358
FAM154A	0.032111346	0.464976081	0.54841126	520	177
OR4N3P	0.032109886	0.464996394	0.54841126	520	34
SOX30	0.032043289	0.465923229	0.54947222	520	481
PDCD6IP	0.031941734	0.467338544	0.55088357	520	520
SIRPG	0.031926612	0.467549498	0.55106781	520	520
SOD2	0.031895891	0.467978211	0.55154086	520	520
PRG3	0.031889964	0.468060953	0.55160614	520	12
SLC9A10	0.031884598	0.468135871	0.55166219	520	361
KRTAP19-3	0.031880724	0.468189955	0.55169368	520	48
ANKRD30A	0.031834422	0.468836675	0.55242346	520	35
OR52I2	0.031821321	0.469019755	0.55259114	520	25
RAB22A	0.0317823	0.469565279	0.55308805	520	520
CALM2	0.031768989	0.469751454	0.55327502	520	520
FLJ25758	0.031763605	0.469826773	0.55333141	520	118
FAM75A6	0.031731328	0.470278417	0.55382763	520	85
AKT2	0.031729568	0.470303045	0.55382763	520	520
GABBR1	0.031723873	0.470382771	0.55388917	520	520
ANKRD13C	0.031695256	0.47078345	0.55423152	520	520
MSL3L2	0.031692612	0.470820482	0.55424276	520	520
KRTAP3-1	0.031673477	0.471088509	0.55449353	520	212
PHF15	0.031670855	0.471125251	0.55450441	520	520
LOC340017	0.031667735	0.471168958	0.55452349	520	76
RPS2P32	0.031655062	0.471346536	0.5547001	520	517
AFARP1	0.031602508	0.472083348	0.55546996	520	515
LRRC57	0.03158395	0.472343688	0.55574385	520	520
KRTAP7-1	0.031570221	0.472536325	0.55589313	520	51
USP17L6P	0.031554142	0.472762002	0.55604136	520	14
SBDSP1	0.031544503	0.472897312	0.55613562	520	520
RTN4RL1	0.031531366	0.473081772	0.55632011	520	519
C7orf25	0.031422021	0.474618591	0.55799716	520	520
GJA8	0.031389476	0.475076539	0.55850299	520	28
SETD1B	0.031341403	0.475753413	0.55913574	520	520
TAAR5	0.031337722	0.475805266	0.55916409	520	38
CCDC104	0.031329301	0.475923899	0.55925395	520	520
LIPK	0.031328356	0.475937206	0.55925395	520	457
OR2S2	0.031312402	0.476162007	0.5594855	520	38
ZNF37A	0.031294882	0.476408936	0.5596778	520	520
CHKA	0.031270173	0.476757316	0.56005444	520	520

ZNF525	0.031259533	0.476907375	0.56019808	520	520
TFCP2L1	0.031243288	0.477136533	0.56043462	520	520
RHBDF1	0.031195001	0.477818034	0.56113703	520	520
PMFBP1	0.031175424	0.47809448	0.56138302	520	519
DCAF8L1	0.031174253	0.478111021	0.56138302	520	65
ATXN7L3	0.031170112	0.478169513	0.56141901	520	520
TLR3	0.031166404	0.478221878	0.5614478	520	519
EPR1	0.031125255	0.478803327	0.56199955	520	518
SUCLG2	0.031121183	0.478860886	0.5620344	520	520
GBP7	0.031049536	0.479874255	0.56299438	520	321
CENPB	0.031029876	0.480152536	0.56328809	520	520
ATG12	0.031014364	0.480372155	0.56344917	520	520
LOC100132247	0.031005912	0.480491843	0.56352222	520	519
RNF44	0.030965055	0.481070646	0.56407742	520	520
FAM200A	0.030964597	0.48107714	0.56407742	520	520
RGS6	0.030938769	0.481443237	0.56447386	520	506
CDH17	0.030922238	0.481677636	0.56468301	520	499
SLC30A10	0.030913151	0.481806503	0.56476842	520	357
SFRS14	0.030885927	0.482192703	0.56507842	520	520
HIST1H2AK	0.030835102	0.482914167	0.56583655	520	448
C20orf118	0.030763279	0.483934688	0.56693348	520	518
TMEM74	0.030667628	0.485295572	0.56832965	520	490
MTMR9L	0.03065177	0.485521395	0.56849506	520	520
EVX1	0.030626768	0.485877549	0.56877997	520	59
CHAD	0.030615212	0.486042217	0.56890667	520	489
PTCHD3	0.030599266	0.486269477	0.56907358	520	168
THRSP	0.030498566	0.487705979	0.57055754	520	268
C21orf90	0.030498475	0.487707286	0.57055754	520	317
LOC731789	0.030482608	0.487933837	0.57073347	520	259
DMRT2	0.030479658	0.487975963	0.5707394	520	500
CALCB	0.030473275	0.488067122	0.57077981	520	227
GABRB1	0.030409317	0.488981051	0.5717427	520	195
RAB17	0.030387016	0.489299929	0.57205565	520	518
C12orf49	0.030340729	0.489962155	0.57273025	520	520
OR4M2	0.030337368	0.490010265	0.57275329	520	20
SEC24C	0.030324817	0.490189924	0.57293007	520	520
LOC100130264	0.030284974	0.490760477	0.57356369	520	152
MGAT3	0.030272572	0.490938146	0.57369401	520	520
FAM46D	0.030271232	0.490957343	0.57369401	520	98
CTAG1B	0.030246392	0.491313312	0.57404344	520	243
OR5AR1	0.030221109	0.491675757	0.57434795	520	9
ZNF793	0.030220264	0.491687874	0.57434795	520	515
ANXA4	0.030213954	0.491778364	0.57442037	520	520
ARMCX5	0.030204588	0.49191268	0.57453199	520	520
CHIA	0.030203318	0.491930903	0.57453199	520	81
ACMSD	0.03020059	0.491970032	0.57454151	520	150

JAK2	0.030198776	0.491996047	0.57454151	520	520
C17orf50	0.030187703	0.492154895	0.57469373	520	341
SERPINE3	0.030179595	0.492271223	0.57479628	520	198
SPAG4	0.030153718	0.492642581	0.57516328	520	520
ADRA2B	0.030116842	0.493172045	0.57568143	520	515
YTHDF1	0.030093048	0.493513836	0.57604706	520	520
TAOK2	0.030075399	0.493767443	0.57627553	520	520
HTR4	0.030072588	0.493807852	0.57627553	520	176
BEND4	0.030072504	0.493809051	0.57627553	520	394
FLJ40434	0.030071472	0.493823891	0.57627553	520	20
CATSPER2P1	0.030049049	0.494146207	0.57655156	520	520
RAB41	0.030014057	0.494649435	0.57707193	520	466
SOX6	0.03000666	0.494755855	0.5771293	520	520
RCN2	0.029986664	0.495043565	0.57743151	520	520
EIF4ENIF1	0.029966922	0.49532772	0.5776627	520	520
TAS1R1	0.029948843	0.495588017	0.57793284	520	466
ZNF664	0.02992721	0.495899573	0.57822928	520	520
GJC3	0.02991798	0.496032539	0.57835088	520	357
HOXC12	0.029902092	0.496261454	0.57858433	520	101
ALDH6A1	0.02989561	0.496354863	0.57865977	520	520
C17orf49	0.029856297	0.496921591	0.57918653	520	520
HTR1E	0.029844164	0.497096575	0.57934356	520	69
C21orf94	0.029842971	0.497113785	0.57934356	520	8
NCRNA00207	0.029822668	0.497406659	0.57958892	520	22
ACSM4	0.0298084	0.497612531	0.57975727	520	25
SP6	0.029803438	0.497684144	0.57980317	520	520
EIF3L	0.029800771	0.497722639	0.57980317	520	520
GAGE1	0.029799694	0.497738188	0.57980317	520	94
NUS1	0.029779055	0.498036101	0.58004967	520	520
USP53	0.029756274	0.498365063	0.58033224	520	520
RAB1B	0.029745298	0.4985236	0.58048333	520	520
GRAMD3	0.029678296	0.499491924	0.58144297	520	520
HPN	0.02957932	0.500924183	0.58300925	520	480
BHLHA15	0.029522723	0.501744153	0.58382879	520	473
OSBPL6	0.029510988	0.501914248	0.58399301	520	520
DRD3	0.029503166	0.502027652	0.58402386	520	57
MYOC	0.029450062	0.502797886	0.58478494	520	278
EFHC1	0.029412904	0.503337208	0.58537844	520	520
NCRNA00235	0.02934945	0.504258911	0.58636401	520	397
IFI6	0.029309685	0.504836965	0.58691954	520	520
FAM53C	0.029265037	0.505486419	0.58749033	520	520
PDE6H	0.029263915	0.505502735	0.58749033	520	74
HORMAD2	0.029256108	0.505616348	0.58755464	520	98
NELF	0.029234202	0.505935203	0.58780006	520	520
OR5R1	0.029224949	0.506069907	0.58791229	520	4
ASAH1	0.029213824	0.506231902	0.5880666	520	520

ZNF256	0.029133598	0.507400868	0.58932268	520	520
GALNT14	0.029129585	0.507459379	0.58932275	520	520
POTEG	0.029121671	0.507574778	0.58942282	520	108
GABRG1	0.029104101	0.507831037	0.58965248	520	119
LHCGR	0.029081678	0.50815815	0.58989643	520	72
MAGEB4	0.029030572	0.508904146	0.59072841	520	37
CDK19	0.029000306	0.509346199	0.59114298	520	520
NUCB2	0.028994268	0.509434404	0.59120779	520	520
ADAM18	0.028987198	0.509537705	0.59129364	520	45
H1FO	0.028932708	0.510334242	0.59211575	520	520
CLEC16A	0.028920925	0.510506569	0.59224754	520	520
PROKR1	0.028908546	0.510687646	0.59239667	520	209
ZBTB44	0.028906112	0.510723254	0.59239667	520	520
C3orf52	0.028901043	0.510797404	0.5924486	520	520
CCT6A	0.028879772	0.511108672	0.59277552	520	520
PPBP	0.028861472	0.511376527	0.59301796	520	468
WDYHV1	0.028841456	0.511669601	0.59328958	520	520
CCNY	0.028833108	0.511791852	0.59339721	520	520
SCARNA6	0.028825326	0.511905824	0.59349523	520	250
TCL1B	0.028800751	0.512265854	0.59384435	520	195
MGC12982	0.028765324	0.51278508	0.5943096	520	520
LOC442421	0.028744885	0.513084775	0.59459789	520	496
TRIM77	0.028744338	0.513092802	0.59459789	520	10
PRSS33	0.028725308	0.513371908	0.59485296	520	219
TMEM216	0.028709982	0.513596756	0.59501092	520	520
TRAK1	0.028686763	0.513937481	0.59533724	520	520
TNMD	0.028682071	0.514006353	0.59538282	520	169
ASB2	0.028627781	0.514803575	0.59613503	520	520
BZW1	0.028617656	0.514952325	0.59627304	520	520
ZSCAN12P1	0.028603567	0.515159344	0.59644425	520	520
NAA15	0.028589477	0.515366421	0.59658123	520	520
CAPS2	0.0285863	0.515413124	0.59660105	520	518
EPT1	0.028579975	0.515506093	0.59661604	520	520
DCAF8L2	0.028578549	0.515527058	0.59661604	520	76
C14orf39	0.028525321	0.516309873	0.59739899	520	351
NUDT21	0.028450305	0.517414153	0.59853932	520	520
C1orf93	0.02842494	0.517787815	0.5988685	520	520
FBXL21	0.028417956	0.517890729	0.59895318	520	119
PKIB	0.028365555	0.51866318	0.59970895	520	520
KLKB1	0.028347466	0.518929978	0.59998303	520	423
EPHA4	0.028333192	0.51914056	0.60019209	520	520
TSC2	0.028257432	0.520258936	0.60124376	520	520
GLYATL2	0.028254429	0.5203033	0.60126057	520	468
MATN4	0.028245671	0.520432665	0.60136239	520	492
SYP	0.028244426	0.520451057	0.60136239	520	518
SCLY	0.028236797	0.520563766	0.60145816	520	520

THTPA	0.028219016	0.520826512	0.60172362	520	520
GYP A	0.028215696	0.520875589	0.60172362	520	33
NSL1	0.028215191	0.520883047	0.60172362	520	520
ZFC3H1	0.028210111	0.520958132	0.60177588	520	520
AHSG	0.028193685	0.521200942	0.60198739	520	387
SPEM1	0.028142692	0.521955111	0.60268584	520	150
XKR4	0.028138625	0.522015284	0.60272081	520	271
DNAJC4	0.028113729	0.522383707	0.6030426	520	520
SLC7A10	0.028077865	0.522914686	0.60362101	520	325
KCNH5	0.028072013	0.523001343	0.60368648	520	250
NFKB2	0.028052846	0.523285257	0.60391516	520	520
TTC31	0.02805149	0.523305348	0.60391516	520	520
CTNNA2	0.028050551	0.523319261	0.60391516	520	246
SNAR-B2	0.028022424	0.52373604	0.60432695	520	7
BNIP3	0.02801731	0.52381183	0.60437982	520	520
SSX2	0.027984683	0.524295538	0.60490188	520	92
CD2	0.027982744	0.524324295	0.60490188	520	520
C2orf80	0.027938192	0.524985195	0.60555631	520	75
UGT2B10	0.027932549	0.525068935	0.60555631	520	102
C6orf150	0.02793236	0.525071742	0.60555631	520	520
SLC30A9	0.027876274	0.525904403	0.60644724	520	520
APOH	0.027859087	0.526159702	0.60663756	520	128
NBPF6	0.027821276	0.526721558	0.60707708	520	95
CLEC17A	0.027814963	0.526815397	0.60715053	520	465
NDRG4	0.027812885	0.526846293	0.60715143	520	520
DLST	0.027757601	0.52766845	0.60802941	520	520
LOC286094	0.027710957	0.528362634	0.60878244	520	17
CCNG1	0.027707273	0.528417476	0.60878814	520	520
TNFRSF10D	0.02764876	0.529289011	0.60968772	520	520
DCTN4	0.02764668	0.529319992	0.60968858	520	520
HBE1	0.027619371	0.529727006	0.61012254	520	238
GK3P	0.027589501	0.530172376	0.61056575	520	519
SLC18A1	0.027580671	0.530304076	0.61068255	520	277
HKR1	0.027575503	0.530381153	0.61070995	520	520
TRIML1	0.027575014	0.530388449	0.61070995	520	377
LOC286367	0.027540319	0.530906109	0.6112711	520	519
PIK3R4	0.027480907	0.531793127	0.6122038	520	520
OR56A3	0.02747996	0.53180727	0.6122038	520	58
ATG5	0.027356933	0.533646469	0.61414573	520	520
RNF20	0.027325318	0.534119619	0.6146201	520	520
MCART2	0.02731661	0.53424998	0.61473223	520	519
PCDH15	0.027314736	0.534278033	0.61473223	520	376
LOC729234	0.027309214	0.534360714	0.61479228	520	519
GAB1	0.027298159	0.534526251	0.61494764	520	520
LOC150527	0.027295013	0.534573362	0.61496675	520	79
BTBD2	0.027286858	0.534695491	0.61507216	520	520

SLC35C2	0.02727843	0.534821739	0.61518229	520	520
PDK1	0.027263551	0.535044632	0.61536847	520	520
SCXB	0.027236024	0.535457135	0.61577265	520	501
FMO2	0.027224921	0.535623556	0.61592891	520	519
MAP3K10	0.027198633	0.536017692	0.61631184	520	520
FAM18A	0.02719546	0.536065281	0.61633141	520	519
FEV	0.027186301	0.536202647	0.6164542	520	87
ODF1	0.027182025	0.536266779	0.61649278	520	70
TM2D1	0.027108145	0.537375523	0.61764875	520	520
MUTED	0.027093265	0.537598958	0.61781005	520	520
FOLH1	0.027084439	0.537731523	0.61789483	520	519
ABCA3	0.027078637	0.537818672	0.61795975	520	520
TTY10	0.027034054	0.538488567	0.61862372	520	125
CLEC4F	0.027019006	0.538714786	0.61884834	520	451
LOC727677	0.02700957	0.538856653	0.61897605	520	166
ZBTB6	0.026991167	0.539133381	0.6191881	520	520
ZNF592	0.026963887	0.539543736	0.61955352	520	520
FNBP1	0.026957035	0.539646843	0.61963663	520	520
PAN3	0.026933084	0.540007285	0.61991146	520	520
ZNF606	0.026899689	0.540510054	0.62045114	520	520
KLHL13	0.026880858	0.54079366	0.62074135	520	520
KHSRP	0.026872925	0.540913158	0.62084318	520	520
TOP1MT	0.026834597	0.5414907	0.62139995	520	520
ANKHD1- EIF4EBP3	0.026792373	0.542127308	0.6220951	520	520
UTY	0.026784641	0.542243912	0.62219349	520	432
APBA3	0.026768155	0.542492593	0.62243064	520	520
C5orf28	0.026738174	0.542944993	0.6227853	520	520
C16orf80	0.026732687	0.543027812	0.62284487	520	520
ARVCF	0.026712252	0.543336286	0.62312779	520	520
CRYL1	0.026685519	0.543739968	0.62351983	520	520
PARP15	0.026651842	0.544248724	0.62399677	520	515
OR52K2	0.026633131	0.544531499	0.62428549	520	50
SYT15	0.026606775	0.544929929	0.62458483	520	519
GAGE4	0.026601626	0.545007777	0.62458483	520	159
C7orf45	0.026594339	0.545117972	0.62463822	520	95
SNRNP27	0.026590567	0.545175016	0.62466809	520	520
UNCX	0.026556405	0.545691776	0.62522467	520	18
TBCCD1	0.026492378	0.546660948	0.62619277	520	520
PMM2	0.026423613	0.547702781	0.62735054	520	520
AP3B2	0.02641156	0.547885494	0.62745289	520	516
SHH	0.026402988	0.548015449	0.62756608	520	313
HTN3	0.026391011	0.548197064	0.62770276	520	74
KIAA1310	0.026366845	0.548563579	0.6280511	520	520
EPB41L5	0.026351062	0.548803032	0.62828958	520	520
C9orf106	0.026344305	0.548905562	0.62837128	520	158

PRAMEF6	0.026340846	0.54895804	0.62839568	520	79
FAM40B	0.026334995	0.549046835	0.62845048	520	520
C14orf48	0.026311959	0.549396494	0.62868344	520	142
PDX1	0.026297785	0.54961169	0.628894	520	291
KIF25	0.026293286	0.549679992	0.62890078	520	364
FLJ40292	0.026276958	0.549927957	0.62911309	520	417
C2orf27B	0.02623263	0.550601418	0.62984779	520	14
LOC644145	0.026180994	0.551386407	0.6305669	520	23
CCL19	0.026161665	0.551680403	0.63076002	520	520
OR6C6	0.026135727	0.552075029	0.63106808	520	11
HTN1	0.026095567	0.552686319	0.63162361	520	105
OR2M3	0.026071471	0.553053246	0.63197131	520	12
KLK5	0.026045264	0.553452467	0.63239166	520	515
OR13C3	0.026037086	0.553577062	0.63249818	520	28
SCLT1	0.026033545	0.553631022	0.63251276	520	520
ABCC6	0.026025569	0.55375256	0.63259116	520	513
IQUB	0.026001528	0.554119005	0.63285444	520	510
CYP17A1	0.026000731	0.554131149	0.63285444	520	266
PNPLA8	0.025968439	0.554623541	0.63333498	520	520
ZNF785	0.025962797	0.554709602	0.63339739	520	520
MAPKAPK3	0.02592733	0.555250685	0.63390753	520	520
PANX3	0.025856358	0.556334217	0.63504019	520	47
SLC32A1	0.025853634	0.556375822	0.63504823	520	179
CLCN5	0.025842136	0.556551475	0.63516518	520	520
NLRP1	0.025841583	0.55655991	0.63516518	520	520
LOC100132724	0.025840741	0.556572784	0.63516518	520	517
DAO	0.025808939	0.557058741	0.63568378	520	165
RBM20	0.025793365	0.5572968	0.63588347	520	516
ACTG1	0.02577906	0.557515499	0.63606102	520	520
ST7OT3	0.025753789	0.557901951	0.6363939	520	435
TPI1P2	0.025704906	0.558649873	0.63713892	520	520
TCHH	0.025702083	0.558693072	0.63714113	520	520
XPO6	0.025675703	0.559096907	0.63740575	520	520
RANBP6	0.025600685	0.560246093	0.63852601	520	520
SNAI3	0.025587372	0.560450139	0.63868637	520	520
UHRF1BP1	0.02557245	0.560678903	0.63891096	520	520
CYBA	0.025553942	0.560962708	0.63919824	520	520
SAPS3	0.025538832	0.561194442	0.63933755	520	520
NUDT16	0.025504202	0.561725748	0.63985075	520	520
DPRX	0.025487998	0.561974432	0.64009786	520	52
SLC12A3	0.025475813	0.562161487	0.64027475	520	477
ZMYND15	0.025433659	0.562808796	0.6409396	520	520
FLJ36000	0.025394278	0.563413832	0.64155616	520	137
LOC642929	0.025324435	0.564487666	0.64238927	520	9
IFT46	0.0253239	0.564495907	0.64238927	520	520
TUBA1B	0.025164396	0.566951964	0.64472146	520	520

TMEM212	0.025163812	0.566960963	0.64472146	520	186
CBX5	0.02515885	0.567037455	0.64474837	520	520
C1orf203	0.025158128	0.567048585	0.64474837	520	520
LOC100128288	0.025113527	0.567736327	0.64545756	520	517
SLC2A2	0.025104418	0.567876827	0.6455809	520	84
RRAGB	0.02508589	0.568162682	0.64586945	520	520
PPP2R1B	0.025068411	0.568432406	0.64613964	520	520
MYCBPAP	0.024994621	0.56957178	0.6472637	520	496
FABP1	0.024993973	0.569581784	0.6472637	520	110
ZNF282	0.024972602	0.569911976	0.64756594	520	520
SVOPL	0.024946242	0.570319366	0.64799232	520	448
MLYCD	0.024938624	0.570437138	0.64805511	520	520
RPRD2	0.02493851	0.570438905	0.64805511	520	520
QPCTL	0.024931281	0.570550658	0.64810903	520	520
ATXN10	0.0248151	0.572348242	0.64998268	520	520
OR2C1	0.024788955	0.572753119	0.6503178	520	221
C17orf80	0.02477217	0.573013136	0.65053977	520	520
KRTAP3-3	0.024754691	0.573283952	0.65073731	520	55
C19orf66	0.024748118	0.57338581	0.65081629	520	520
C17orf105	0.024732155	0.573633221	0.65106047	520	49
ARL14	0.024702166	0.574098141	0.65155147	520	506
FGG	0.024695486	0.574201734	0.65163236	520	276
FSHR	0.024663623	0.574695941	0.65211981	520	35
FOXP4	0.02463817	0.575090875	0.6524578	520	520
SPAST	0.024629587	0.575224079	0.6525722	520	520
GTSE1	0.024612028	0.575496634	0.65277371	520	520
ZNF141	0.02460904	0.575543022	0.65277371	520	520
ART4	0.024606725	0.575578957	0.65277371	520	282
TTLL5	0.024605898	0.575591806	0.65277371	520	520
EFCAB6	0.024547143	0.576504325	0.65356804	520	510
OR10G2	0.024540991	0.576599902	0.65356804	520	45
KIAA0831	0.024538331	0.576641229	0.65356804	520	520
ZNF836	0.024538171	0.576643724	0.65356804	520	520
DHX29	0.024537581	0.576652894	0.65356804	520	520
OAS3	0.024521157	0.576908127	0.65371034	520	520
OR8K1	0.024508882	0.577098911	0.65382797	520	20
LOC729467	0.024508219	0.577109213	0.65382797	520	133
APCS	0.024497974	0.577268482	0.65397167	520	51
HLA-G	0.02449337	0.577340055	0.654016	520	520
GPR171	0.024487426	0.577432475	0.65405162	520	518
TIFAB	0.024480542	0.577539516	0.65413171	520	510
SLC9A11	0.024475845	0.577612563	0.65414096	520	108
ECD	0.024466694	0.577754863	0.65426536	520	520
UBE2NL	0.024462198	0.577824795	0.65430781	520	519
XKRY2	0.02443867	0.578190788	0.65461196	520	18
POU2F1	0.024413103	0.578588625	0.65498883	520	520

NMD3	0.024400179	0.578789778	0.65517976	520	520
FASN	0.024365535	0.579329154	0.65556951	520	520
TMEM17	0.024315792	0.580104017	0.6562622	520	520
CABP2	0.024277649	0.580698509	0.65671367	520	13
CLEC12B	0.02424163	0.581260143	0.6572751	520	449
TAF1B	0.024203519	0.581854687	0.65779984	520	520
DTWD1	0.024181606	0.582196671	0.65803888	520	520
SGK223	0.024125756	0.583068708	0.65883987	520	520
NAA40	0.024088514	0.583650522	0.65946033	520	520
NFASC	0.024084604	0.583711621	0.65949242	520	520
GYG1	0.024080815	0.583770837	0.65952236	520	520
MC3R	0.024071862	0.583910762	0.65964349	520	61
GAL	0.02405947	0.584104468	0.65975143	520	496
OR2D2	0.024019285	0.584732796	0.66031318	520	30
DDX3X	0.02401566	0.584789493	0.66034022	520	520
E2F7	0.023957286	0.585702821	0.66122343	520	520
TCHHL1	0.02394195	0.585942882	0.66142038	520	421
LOC283914	0.023923632	0.58622968	0.66159597	520	48
C3orf16	0.023899906	0.586601241	0.66197825	520	385
GFRA3	0.023883567	0.586857184	0.66219296	520	500
CRYAA	0.023877083	0.58695877	0.66227053	520	255
C20orf20	0.023852514	0.587343767	0.66266784	520	520
PAQR5	0.023799185	0.588179815	0.66353686	520	520
ABCF1	0.023772544	0.588597679	0.66387143	520	520
ADAMTS19	0.023771881	0.588608084	0.66387143	520	179
C1QL3	0.023722109	0.589389124	0.66464081	520	483
SNORA59B	0.023701871	0.589706853	0.66492473	520	186
UBE3B	0.023676765	0.590101097	0.66533206	520	520
PTPN7	0.023670019	0.590207056	0.66541432	520	520
TMEM120B	0.023614075	0.591086086	0.6663681	520	520
WWP2	0.023587257	0.591507686	0.66676884	520	520
TMEM220	0.023569186	0.591791848	0.66705187	520	519
ZNF410	0.023525761	0.592474949	0.66773826	520	520
CAMKV	0.023505463	0.592794375	0.66803251	520	412
WIPF2	0.023486167	0.593098104	0.66830009	520	520
OR4D1	0.023446645	0.59372044	0.66896396	520	21
AMELX	0.023431409	0.593960424	0.66915957	520	23
CD40LG	0.023418016	0.594171419	0.66935988	520	489
LOC90834	0.023404211	0.594388933	0.66953011	520	512
PRAMEF5	0.02336722	0.594971973	0.67007456	520	36
NDST3	0.023337116	0.595446655	0.67053425	520	342
SLC25A31	0.023308571	0.595896917	0.67096635	520	89
ZNF654	0.023260848	0.596650024	0.67177682	520	520
ZNF233	0.023219379	0.59730479	0.67243894	520	519
THAP5	0.023155755	0.598309997	0.67345779	520	520
MYRIP	0.023139233	0.598571157	0.67356375	520	495

LOC90246	0.023133167	0.59866705	0.67359647	520	509
BTC	0.023128188	0.598745761	0.67360986	520	470
PLCH1	0.023106648	0.599086371	0.67391786	520	515
ZNF682	0.023020467	0.600449968	0.67522576	520	516
CMTM5	0.022981614	0.601065186	0.67580453	520	338
PSTPIP1	0.022973073	0.601200462	0.67584357	520	520
IFIT1B	0.022955823	0.601473727	0.67611307	520	311
GAGE2B	0.022927531	0.601922025	0.67642845	520	53
PHRF1	0.022922697	0.601998648	0.67643916	520	520
ZC3H11A	0.022871833	0.602805029	0.67700572	520	520
HOXD12	0.022866753	0.602885602	0.67705849	520	203
CACNB4	0.022842383	0.603272144	0.67737941	520	508
PAQR9	0.022830245	0.603464717	0.67748247	520	273
RIT1	0.022817369	0.603669027	0.6776741	520	520
SOHLH1	0.022777105	0.60430813	0.67827827	520	266
HSD3B1	0.02275661	0.604633549	0.67860575	520	61
ANKRD26	0.022743761	0.604837607	0.67879699	520	520
UBE3A	0.022654854	0.60625042	0.68030683	520	520
TAS2R1	0.022644075	0.606421809	0.68042924	520	54
FAM76B	0.022631317	0.606624684	0.68061318	520	520
NUCKS1	0.022627884	0.606679278	0.68063656	520	520
HABP2	0.022622544	0.606764211	0.68069398	520	450
IRAK1	0.022606025	0.607026971	0.68087511	520	520
FCHO2	0.02258927	0.607293543	0.68110941	520	520
TAPBPL	0.022588649	0.60730342	0.68110941	520	520
CLECL1	0.022579283	0.607452457	0.68123867	520	492
ADAP1	0.022566543	0.607655207	0.68142815	520	520
RBMY1F	0.022536039	0.608140778	0.681821	520	3
NCOA4	0.022526868	0.60828681	0.68194681	520	520
SLIT1	0.022517548	0.608435205	0.68207525	520	511
LOC347376	0.022509599	0.608561801	0.68217924	520	173
PRMT6	0.022495581	0.608785077	0.68239159	520	520
ATOH7	0.022469963	0.609193191	0.68273519	520	372
UBE2U	0.022436997	0.60971856	0.6831721	520	122
NOL6	0.022417248	0.610033382	0.68348686	520	520
RBMY1A1	0.022399595	0.610314855	0.68372625	520	43
FAM71D	0.022367567	0.610825683	0.6841806	520	520
SCARNA14	0.022365657	0.610856147	0.6841806	520	4
FAM83B	0.02235544	0.611019145	0.68432515	520	520
OR51B2	0.022333292	0.611372548	0.68456785	520	68
ELOVL6	0.022329094	0.611439548	0.68456785	520	520
TNIP1	0.022323082	0.611535489	0.68463726	520	520
ATP6V1B2	0.022290928	0.612048784	0.68515878	520	520
TINAG	0.022289644	0.612069284	0.68515878	520	275
GAN	0.022279199	0.612236066	0.68529719	520	520
LRR3B	0.022265532	0.612454323	0.68543758	520	162

COL21A1	0.022222783	0.613137235	0.6861343	520	516
HECA	0.022193579	0.613603957	0.68650826	520	520
HIST1H2BM	0.022190564	0.613652164	0.68650826	520	367
UBN2	0.022162519	0.614100525	0.68693681	520	520
EFTUD2	0.022142471	0.61442113	0.68725732	520	520
DAZ3	0.022114896	0.614862224	0.68752187	520	35
AGAP3	0.022061868	0.615710853	0.68812735	520	520
RHBDL3	0.021971874	0.617152243	0.68966182	520	519
GPR26	0.021967013	0.617230142	0.68971065	520	251
BEYLA	0.021963331	0.617289137	0.68973834	520	19
SLAIN1	0.021938478	0.617687505	0.69006875	520	516
OR12D2	0.021936118	0.617725341	0.69007279	520	12
LNX2	0.021909026	0.618159715	0.69040503	520	520
SLAIN2	0.021882853	0.618579493	0.69080058	520	520
EXOC2	0.021862121	0.618912096	0.6911305	520	520
IRAK1BP1	0.021853598	0.619048848	0.69120665	520	519
PATE3	0.021847686	0.61914372	0.69127431	520	28
ZNF300	0.021834281	0.619358843	0.6914762	520	519
SPDYE4	0.021789565	0.620076691	0.69216267	520	37
NCRNA00160	0.021775563	0.620301551	0.69233701	520	250
CARD9	0.021769116	0.620405099	0.69241426	520	520
MTPP	0.021748241	0.620740419	0.69263515	520	420
HSPB8	0.021702791	0.621470777	0.69329664	520	520
FOXB2	0.021699532	0.621523152	0.69331671	520	33
NCRNA00095	0.021695911	0.621581365	0.69334329	520	520
GJB7	0.021645381	0.622393843	0.69405021	520	438
GTF3C1	0.021643652	0.622421643	0.69405021	520	520
SMYD5	0.021631225	0.622621542	0.69423473	520	520
DEF8	0.021627328	0.622684232	0.69426623	520	520
OAS2	0.021579434	0.623454903	0.69485655	520	520
MADCAM1	0.021520326	0.624406592	0.6957634	520	367
AOC2	0.021494757	0.624818465	0.69610694	520	520
RESP18	0.021480527	0.625047732	0.69632389	520	20
NKAIN3	0.021472879	0.625170983	0.69642272	520	44
BDKRB2	0.021440584	0.625691498	0.69690318	520	520
THEMIS	0.021383114	0.626618221	0.6978036	520	506
ATP2B3	0.02137166	0.626802991	0.6978552	520	262
LOC440040	0.02136473	0.626914801	0.69794115	520	155
CD3EAP	0.021357126	0.627037482	0.69803919	520	520
NDFIP2	0.021280796	0.628269613	0.69914064	520	520
SBF1	0.021236423	0.628986355	0.69982237	520	520
TGS1	0.021214979	0.629332866	0.70015864	520	520
WNK3	0.021213421	0.629358034	0.70015864	520	475
HES6	0.021209156	0.629426959	0.70019669	520	520
EVS2	0.021198332	0.62960191	0.70035267	520	45
DOK4	0.021135889	0.630611551	0.70132102	520	520

LRRTM3	0.021111246	0.631010183	0.70172564	520	123
LOC100240734	0.021087391	0.631396181	0.70210425	520	178
BRE	0.021085902	0.631420275	0.70210425	520	520
RARS2	0.021049203	0.632014306	0.7026098	520	520
CLCNKB	0.021019476	0.632495661	0.70310615	520	402
ZNF655	0.020985697	0.633042796	0.70363679	520	520
GOLGB1	0.020968753	0.633317337	0.70390314	520	520
MBL2	0.020957236	0.633503964	0.70407176	520	117
ERGIC2	0.020930377	0.633939309	0.70445211	520	520
RNASEH1	0.020929656	0.633950998	0.70445211	520	520
MRAP	0.020917698	0.634144856	0.70462869	520	57
NHEG1	0.020905184	0.634347761	0.70481531	520	165
TEX14	0.020892699	0.634550211	0.70496256	520	515
AHCYL2	0.020875342	0.634831726	0.70523646	520	520
TSPY3	0.020838088	0.635436103	0.70571346	520	23
MMP15	0.020777951	0.636412253	0.70671972	520	520
LPA	0.020750899	0.636851565	0.70709074	520	312
APH1A	0.020631508	0.63879194	0.70893283	520	520
STXBP5L	0.02059561	0.639375845	0.70944935	520	394
RHBDD2	0.020580592	0.639620187	0.70961769	520	520
LOC100130581	0.020565217	0.639870388	0.7098189	520	519
HSF2	0.0205445	0.640207581	0.71011308	520	520
KIF27	0.020533092	0.640393285	0.71024092	520	519
ZNF644	0.020525706	0.640513534	0.71028764	520	520
ATXN3L	0.020524013	0.640541086	0.71028764	520	15
NLRP2	0.02050199	0.640899686	0.71056806	520	518
OR13J1	0.020485603	0.641166579	0.71082488	520	65
KRT34	0.020461511	0.641559033	0.71114267	520	508
SHISA9	0.020435653	0.641980377	0.71153149	520	431
ARAF	0.020430187	0.642069445	0.71159109	520	520
C8orf51	0.020402399	0.642522395	0.71201481	520	518
MLANA	0.02037365	0.642991124	0.71241678	520	459
C17orf39	0.020345073	0.643457199	0.71281568	520	520
AK3L1	0.020336247	0.643601183	0.71289685	520	520
RAB3A	0.020279992	0.644519168	0.71379604	520	520
MANF	0.020268463	0.644707376	0.71396526	520	520
PITRM1	0.020214491	0.645588711	0.71478425	520	520
TMED1	0.020210322	0.645656818	0.71482041	520	520
TMEM71	0.020207157	0.645708516	0.71483839	520	520
MPV17L	0.020184797	0.646073815	0.71516427	520	503
ACTRT2	0.020144161	0.646737935	0.71582082	520	16
C15orf37	0.02013459	0.646894391	0.7158761	520	520
FECH	0.020120587	0.647123323	0.71607432	520	520
DCAF6	0.020114873	0.647216747	0.71611493	520	520
UBXN2B	0.020109626	0.647302541	0.71617056	520	520
C18orf19	0.020061395	0.648091423	0.71684671	520	520

RIPPLY1	0.020045356	0.648353843	0.71701897	520	198
SLC26A1	0.020041621	0.648414963	0.71704724	520	515
LTC4S	0.020036953	0.648491359	0.71709239	520	519
ABCC8	0.020008062	0.648964215	0.71745789	520	212
PRELID2	0.019982073	0.649389689	0.71788891	520	520
BSDC1	0.019965064	0.649668206	0.71811806	520	520
RBAK	0.019947108	0.649962299	0.71840376	520	520
OR52B4	0.019939258	0.65009088	0.7185065	520	18
PITPNM1	0.019932815	0.650196437	0.71854439	520	520
KCNQ1DN	0.019914096	0.650503114	0.71882042	520	126
FAM127C	0.019878212	0.651091191	0.71923031	520	520
TMEM44	0.019851106	0.651535544	0.71962661	520	520
NGFRAP1	0.019833422	0.651825522	0.71983185	520	520
KLHL14	0.019799091	0.652388612	0.72033688	520	449
ANKRD55	0.019796828	0.652425729	0.72033688	520	453
C5orf47	0.019757289	0.65307449	0.72094745	520	223
GAPVD1	0.019668423	0.654533581	0.72218961	520	520
GDE1	0.019658683	0.654693576	0.7222871	520	520
CPO	0.019648398	0.654862548	0.72243399	520	292
PADI6	0.019643586	0.654941621	0.72248169	520	169
CLLU1OS	0.019635889	0.65506808	0.72258166	520	382
DALRD3	0.019625708	0.655235379	0.72272667	520	520
MAGEA5	0.019610968	0.655477637	0.72295433	520	324
C3orf27	0.019601103	0.655639779	0.72309361	520	63
SNX3	0.0195457	0.65655073	0.72390031	520	520
TAS2R13	0.01946131	0.657939262	0.725233	520	159
ZNF763	0.019449465	0.658134256	0.72532899	520	518
MSH4	0.019435204	0.658369042	0.72550844	520	249
C4orf36	0.019410826	0.658770478	0.72591114	520	515
CCDC116	0.019397803	0.658984974	0.72610782	520	502
PNLIPRP3	0.019383268	0.659224398	0.72633194	520	475
KIAA1530	0.019378456	0.659303661	0.72637958	520	520
OR8K3	0.019352132	0.659737402	0.72677803	520	7
LOC646498	0.019269081	0.661106538	0.72800788	520	27
GDF15	0.019185112	0.662491973	0.72946721	520	520
TSHB	0.019169689	0.662746573	0.72969433	520	17
FLVCR2	0.019163684	0.6628457	0.72976362	520	520
BAGE	0.019134535	0.663327013	0.73025365	520	97
C4orf50	0.019116774	0.663620352	0.73047848	520	281
ELAVL2	0.019102567	0.663855034	0.7306221	520	509
AP3M1	0.019027629	0.665093434	0.73175883	520	520
LOC91948	0.019014978	0.665302595	0.73194901	520	175
PCDP1	0.019009325	0.665396071	0.73201191	520	292
ITPK1	0.019007002	0.665434477	0.73201423	520	520
PCDHB1	0.018989815	0.665718682	0.73224697	520	75
IGHMBP2	0.018939525	0.666550583	0.73300207	520	520

CATSPERG	0.018933277	0.666653976	0.73307579	520	516
AP1B1	0.018921698	0.66684558	0.73320651	520	520
GABRG2	0.018910081	0.66703785	0.73337793	520	194
KRTAP24-1	0.018905361	0.667115972	0.73340999	520	11
ATP6AP1L	0.018871943	0.667669179	0.73395199	520	520
ASB7	0.018869557	0.667708676	0.73395539	520	520
CPLX4	0.018860749	0.667854533	0.7340757	520	148
IFT80	0.018845467	0.668107604	0.73431384	520	520
LY9	0.018836089	0.668262916	0.73444451	520	518
GMEB1	0.018822993	0.66847984	0.73459507	520	520
IKZF5	0.01881731	0.668573975	0.73462621	520	520
CFC1B	0.018814965	0.668612818	0.73462886	520	16
NEIL2	0.018809893	0.668696846	0.73467309	520	520
STAG3L2	0.018805859	0.668763681	0.73467309	520	519
PBX2	0.018803739	0.668798814	0.73467309	520	520
HARBI1	0.018796045	0.668926281	0.73477309	520	520
PHF8	0.018757038	0.669572723	0.73540304	520	520
NEURL1B	0.018721646	0.670159464	0.73600738	520	520
APIP	0.01870508	0.67043417	0.73622888	520	520
IAPP	0.018699723	0.670523019	0.73628635	520	124
FAM24A	0.018690284	0.670679564	0.73634587	520	5
SIAE	0.018689849	0.670686781	0.73634587	520	520
PABPC1P2	0.01868201	0.670816797	0.73641494	520	344
UGT1A1	0.018634483	0.671605333	0.73715366	520	351
C5orf54	0.018605867	0.672080291	0.73763482	520	520
EN2	0.018575522	0.672584084	0.73810741	520	509
PDYN	0.01856599	0.672742367	0.73824093	520	181
OR4A15	0.018553028	0.672957623	0.73843696	520	7
SERPINA13	0.018537434	0.673216627	0.73862739	520	38
CR1L	0.018535963	0.673241063	0.73862739	520	383
OCLM	0.018533128	0.673288159	0.73863887	520	455
C9orf7	0.018507762	0.673709569	0.73902077	520	520
MED21	0.018461312	0.674481527	0.73966637	520	520
COX10	0.018399366	0.675511531	0.74063479	520	520
DEFA6	0.018396746	0.675555105	0.7406423	520	23
UNC93A	0.018351046	0.676315396	0.74139522	520	461
HMX3	0.018347632	0.676372211	0.74141719	520	80
VMAC	0.018316012	0.676898462	0.74191339	520	520
CLRN1	0.018307876	0.677033899	0.74198117	520	46
SLC17A6	0.018278161	0.67752863	0.74248301	520	60
TBC1D14	0.018275749	0.677568795	0.74248667	520	520
HNRNPA0	0.018253713	0.677935779	0.74280808	520	520
LY6E	0.018230291	0.67832592	0.74319517	520	520
SRP54	0.018220357	0.678491418	0.7433361	520	520
CLDN19	0.018212706	0.678618889	0.74340881	520	401
NAA11	0.018205894	0.678732404	0.74343855	520	78

CDCP1	0.018184111	0.679095398	0.74375534	520	520
LOC100289341	0.018146516	0.679722074	0.7443204	520	520
SNORA77	0.018137095	0.679879162	0.74445199	520	6
BAMBI	0.018129542	0.680005105	0.74450904	520	520
TRMT61B	0.018112494	0.6802894	0.74475786	520	520
PMS2CL	0.018107316	0.680375745	0.74475786	520	520
GPAA1	0.018107055	0.680380108	0.74475786	520	520
WDR20	0.018092078	0.680629906	0.74490998	520	520
ATP1A3	0.018086877	0.680716666	0.7449645	520	517
COMMD9	0.018082737	0.680785735	0.74499965	520	520
DCP2	0.018073307	0.680943048	0.74513136	520	520
INO80D	0.018059131	0.68117957	0.74534973	520	520
DBH	0.018032305	0.681627247	0.74578487	520	441
C7orf13	0.018030868	0.681651221	0.74578487	520	520
GGPS1	0.017984679	0.682422305	0.74650699	520	520
CASC3	0.017966825	0.682720442	0.7467116	520	520
PYHIN1	0.017946409	0.683061421	0.74704401	520	513
JHDM1D	0.017927821	0.683371933	0.74730255	520	520
HLA-A	0.017900107	0.683834972	0.7477278	520	520
DIS3L	0.017893882	0.683939012	0.74776046	520	520
C4orf22	0.017845238	0.684752099	0.74852767	520	88
GATA5	0.017834809	0.684926471	0.74863711	520	303
SPAG16	0.017808571	0.685365232	0.74907608	520	520
WDR55	0.017803831	0.685444515	0.74910363	520	520
TGIF1	0.017802621	0.68546474	0.74910363	520	520
TSPY4	0.017792932	0.68562681	0.74924014	520	26
DTHD1	0.017777546	0.685884183	0.74948077	520	488
SLC39A11	0.017734749	0.686600291	0.75018197	520	520
GPR150	0.017728313	0.68670801	0.75025901	520	344
WDR69	0.017711078	0.686996492	0.75049286	520	277
PYDC2	0.017630018	0.688353891	0.75173136	520	21
RAB11B	0.017622178	0.688485234	0.75181467	520	520
ZNF718	0.017605102	0.688771335	0.75206505	520	520
NRN1	0.017601694	0.688828426	0.75207629	520	520
NUB1	0.017528027	0.69006322	0.75306786	520	520
GPX4	0.017514486	0.690290278	0.75327488	520	520
LYZL2	0.017485686	0.690773304	0.75376118	520	16
AQP7P3	0.017481403	0.690845159	0.7537988	520	225
C6orf167	0.017460664	0.691193074	0.7540968	520	520
TMEM202	0.017448722	0.691393441	0.7542746	520	69
COQ10B	0.017445109	0.69145406	0.75428015	520	520
TRPC7	0.01744396	0.691473349	0.75428015	520	53
RAB40AL	0.0174252	0.691788167	0.75454193	520	500
FRG2C	0.017422799	0.691828454	0.75454505	520	213
ARRDC4	0.017419998	0.691875475	0.75455552	520	520
OR9G4	0.017397569	0.692251953	0.75481241	520	7

CDV3	0.017390939	0.692363262	0.75484913	520	520
LOC729991- MEF2B	0.017362034	0.692848581	0.75528998	520	520
UBE2E3	0.01734408	0.693150094	0.75553697	520	520
CAMK2N2	0.017336457	0.69327812	0.75561868	520	520
C1orf163	0.017311414	0.693698809	0.75591956	520	520
OR4L1	0.017309794	0.69372602	0.75591956	520	6
OR4F15	0.017301683	0.693862293	0.75598634	520	14
CCNT2	0.017243088	0.694847029	0.75696026	520	520
EXOC8	0.017241794	0.694868795	0.75696026	520	520
ZNF674	0.017221771	0.695205412	0.75716333	520	520
SIKE1	0.017170946	0.696060158	0.75788957	520	520
TFAM	0.017137176	0.69662829	0.75838532	520	520
RNASE8	0.017116056	0.696983689	0.7586903	520	27
NUP214	0.017099106	0.697268965	0.75891889	520	520
LAMB4	0.017080867	0.697575986	0.7591711	520	499
CIB2	0.017073329	0.697702886	0.75922725	520	520
OR52A5	0.017060636	0.6979166	0.75941883	520	5
UNC119B	0.017037946	0.698298684	0.75979283	520	520
CD38	0.016992892	0.699057571	0.76049619	520	518
APOA4	0.016987737	0.699144422	0.76054964	520	73
SNORA71B	0.01695486	0.699698434	0.76107019	520	39
INSIG1	0.016947494	0.699822572	0.76114089	520	520
DDX47	0.016945736	0.699852205	0.76114089	520	520
NOS1	0.0168732	0.701075148	0.76232093	520	484
DSCR10	0.016864208	0.7012268	0.7624036	520	26
C2orf74	0.016847316	0.701511723	0.76263114	520	520
RMST	0.016837919	0.701670251	0.76276236	520	62
KCNK12	0.016808396	0.702168383	0.76318043	520	401
PPAT	0.016800771	0.702297053	0.76327913	520	520
RALB	0.016789278	0.702491018	0.76341011	520	520
LDLR	0.016787338	0.702523752	0.76341011	520	520
LRMP	0.0167869	0.702531149	0.76341011	520	519
VCY	0.016777447	0.7026907	0.76354234	520	20
REXO2	0.016727196	0.703539084	0.76417594	520	520
HMHA1	0.016723482	0.703601801	0.76420289	520	520
DMC1	0.016714943	0.703746014	0.76423603	520	516
LCN15	0.01669724	0.704045001	0.76443721	520	41
DYTN	0.016679538	0.704344025	0.76467953	520	35
LOC285780	0.016673125	0.704452368	0.76472799	520	208
NACC1	0.016667712	0.704543815	0.76473174	520	520
LBX2	0.016663102	0.704621704	0.76473936	520	519
STIM2	0.016646212	0.704907096	0.76500251	520	520
LEUTX	0.016458385	0.708083608	0.76807778	520	40
ZNF7	0.016429855	0.708566554	0.76853427	520	520
OR2L3	0.016398148	0.7091034	0.76897714	520	62

DDX26B	0.01638452	0.709334204	0.7691567	520	518
OR2M2	0.016383866	0.70934527	0.7691567	520	12
CARD6	0.016377808	0.70944787	0.76920319	520	520
PSMD5	0.01637683	0.709464434	0.76920319	520	520
SNX15	0.016356369	0.709811026	0.76951767	520	520
ASPDH	0.016328117	0.71028966	0.7699737	520	213
GOLGA8F	0.016304663	0.71068712	0.77036314	520	84
CYP2B7P1	0.016300108	0.710764311	0.7704054	520	434
UGT8	0.01628194	0.711072241	0.77061489	520	490
SNX33	0.016251713	0.711584674	0.77108735	520	520
UBE2DNL	0.016243731	0.711720016	0.77119214	520	29
CRELD2	0.016196349	0.712523592	0.77198032	520	520
IWS1	0.016193216	0.712576749	0.77199643	520	520
TP53INP1	0.016168281	0.712999769	0.77241322	520	520
CD3E	0.01612701	0.713700115	0.77313039	520	520
PCMTD2	0.016112926	0.713939177	0.77334781	520	520
LOC100192379	0.016099242	0.714171474	0.77355789	520	115
ABLIM2	0.016095015	0.71424323	0.77359405	520	520
ACD	0.016019282	0.715529371	0.77482059	520	520
PRAMEF2	0.015980689	0.716185088	0.77528083	520	56
CCL5	0.015933801	0.716982031	0.77610187	520	520
TREML2P1	0.015907183	0.717434579	0.77650837	520	3
LOC728640	0.01589629	0.7176198	0.77662949	520	520
GP1BA	0.015895185	0.717638592	0.77662949	520	472
BARHL2	0.015840834	0.718563054	0.77734353	520	72
KAAG1	0.015838578	0.718601428	0.77734353	520	230
BMP10	0.015834617	0.718668816	0.77734353	520	98
DNAH7	0.01581915	0.71893198	0.77755869	520	499
RAB36	0.015807077	0.719137423	0.77764182	520	520
SCGB3A2	0.015800531	0.719248835	0.77767888	520	209
PRR20A	0.015757062	0.719988738	0.77839542	520	9
SNORA74A	0.015753865	0.720043159	0.77841252	520	198
DNAJB12	0.01571857	0.72064414	0.77897869	520	520
VPS37C	0.015683973	0.721233393	0.77951663	520	520
OR6C70	0.015682542	0.721257777	0.77951663	520	196
HEMGN	0.015663091	0.721589146	0.77979118	520	222
DEFA5	0.015615742	0.722396002	0.78045397	520	34
RPS4Y1	0.015603751	0.72260039	0.78059114	520	493
OR8B4	0.015600619	0.722653776	0.78060699	520	3
CELF5	0.015588287	0.722863991	0.78077545	520	484
DSTN	0.015578743	0.7230267	0.7808425	520	520
NEDD4L	0.015575519	0.723081663	0.78086004	520	520
NEK8	0.015572284	0.723136816	0.78087778	520	520
WHSC1L1	0.015512926	0.724149107	0.78180343	520	520
RAD1	0.015498812	0.724389871	0.78197962	520	520
PIWIL3	0.015477414	0.724754949	0.78228996	520	72

MORC1	0.015472861	0.724832651	0.78229008	520	63
CD79B	0.015466714	0.724937537	0.78236141	520	520
OR2H2	0.015444085	0.725323713	0.78269439	520	216
CHRNB3	0.015425855	0.725634886	0.78298827	520	84
SYTL3	0.015409585	0.725912622	0.78324605	520	520
PTPRQ	0.015385254	0.726328038	0.78361041	520	425
NDRG3	0.015362944	0.726709033	0.78393756	520	520
TUBA3C	0.015330477	0.727263578	0.78445184	520	197
KLHL1	0.015316469	0.727502892	0.784668	520	58
FAM41AY1	0.015298384	0.727811897	0.7849593	520	28
DKFZP686I15217	0.015246534	0.72869804	0.78583096	520	520
MTRF1L	0.015184054	0.729766342	0.78689885	520	520
OR2AK2	0.015157466	0.730221116	0.78730628	520	23
GPR27	0.015125452	0.730768803	0.7878534	520	400
LRRRC61	0.015114557	0.73095523	0.78801226	520	520
DHDDS	0.015088857	0.731395046	0.78835996	520	520
GABRG3	0.015060546	0.731879662	0.78875583	520	187
HHLA1	0.015046077	0.732127359	0.78892045	520	241
UNC93B1	0.01503982	0.732234498	0.78895547	520	520
ZNF428	0.015012406	0.732703909	0.78929108	520	520
TRPM1	0.015010964	0.732728613	0.78929108	520	332
CCDC67	0.01494942	0.733782839	0.79034224	520	339
SLC30A3	0.014930157	0.734112916	0.79057108	520	504
EMP1	0.014910998	0.734441239	0.79084018	520	520
PHF23	0.01487733	0.735018355	0.79129258	520	520
LETM2	0.014852632	0.735441788	0.79170617	520	520
CXCR2P1	0.014835373	0.735737742	0.79189793	520	498
SLC5A6	0.014824735	0.735920179	0.79205201	520	520
ALG10B	0.014788402	0.736543378	0.79251124	520	520
TMEM196	0.014759762	0.737034758	0.79291303	520	58
NUDT16P1	0.014756978	0.737082526	0.79292211	520	518
PLCD4	0.01472945	0.737554925	0.79334565	520	520
C14orf126	0.014709588	0.737895832	0.79362767	520	520
CTSD	0.014694841	0.738148983	0.79373059	520	520
CYB5D2	0.014674028	0.738506306	0.79403014	520	520
COCH	0.014661088	0.738728499	0.794142	520	518
STAG3L1	0.014652044	0.738883806	0.79426661	520	518
C6orf58	0.014618938	0.739452397	0.79470412	520	292
NCLN	0.014616872	0.739487873	0.79470412	520	520
C20orf201	0.014575738	0.74019456	0.79534883	520	340
DHX30	0.014575065	0.740206119	0.79534883	520	520
DMBX1	0.014567609	0.740334247	0.79544412	520	458
YPEL1	0.014563387	0.740406791	0.79547967	520	520
PRG1	0.014511708	0.741295024	0.79626427	520	367
VSIG1	0.01450252	0.741452979	0.79639151	520	519
AQR	0.014487126	0.741717655	0.79663336	520	520

NXPH1	0.014471947	0.741978651	0.79678636	520	205
TFCP2	0.014451056	0.742337924	0.79712972	520	520
GTF2IRD2B	0.014414798	0.742961588	0.79771446	520	520
LOC728190	0.014409597	0.743051063	0.79776804	520	520
GTF2H1	0.014395668	0.743290708	0.79794036	520	520
SKP2	0.014371928	0.743699213	0.79824309	520	520
RBMV2FP	0.014364213	0.743831983	0.79830893	520	7
BANK1	0.01430597	0.744834545	0.7991976	520	518
C4orf48	0.014302492	0.744894432	0.7991976	520	520
ZNF862	0.014302295	0.744897821	0.7991976	520	520
GDAP1	0.014291335	0.74508652	0.79931499	520	520
LEMD2	0.014274653	0.745373797	0.7995381	520	520
CCDC27	0.014268464	0.745480373	0.79960989	520	73
ERAP2	0.01422051	0.746306382	0.80034116	520	520
CDKAL1	0.014187036	0.746883151	0.80077375	520	520
CTSL2	0.014158583	0.747373501	0.80121427	520	520
SPAG11A	0.014155643	0.747424181	0.80122601	520	35
ZNF345	0.014131573	0.747839086	0.80162816	520	518
TMEM229B	0.014122068	0.748002955	0.80176119	520	520
KLHL10	0.014079388	0.748738893	0.80246471	520	362
PDILT	0.014043424	0.749359189	0.80300147	520	11
CHGA	0.014009052	0.749952192	0.80359422	520	394
CLPTM1	0.013987271	0.750328035	0.80395422	520	520
LOC648691	0.013984603	0.750374081	0.80396084	520	141
KPNA1	0.013976996	0.750505366	0.80404982	520	520
COL29A1	0.013972829	0.750577293	0.80405039	520	451
AP3M2	0.013967421	0.750670617	0.80406573	520	520
CXorf49B	0.013967378	0.750671363	0.80406573	520	462
AGPAT6	0.013951953	0.750937613	0.80426547	520	520
LOC100286793	0.013924114	0.751418204	0.80473745	520	520
SNTG2	0.013891995	0.751972808	0.80516035	520	415
SPHK2	0.013879002	0.752197193	0.80531508	520	520
MRGPRX4	0.013830971	0.753026865	0.80612018	520	183
PEX6	0.013824992	0.753130174	0.80618553	520	520
CKLF	0.013770942	0.754064184	0.80714249	520	520
LOC152225	0.013767862	0.754117426	0.80715663	520	485
VAX1	0.01372522	0.754854572	0.80783525	520	405
HPVC1	0.013657614	0.756023745	0.80902525	520	16
FLJ37201	0.013645693	0.756229953	0.80920297	520	511
CA5A	0.013616607	0.756733177	0.80965551	520	75
CIRH1A	0.013608283	0.756877206	0.80976665	520	520
KLHL18	0.013586763	0.757249619	0.81010943	520	520
ATP1B1	0.013550429	0.75787851	0.81066587	520	520
SPRYD5	0.013540192	0.758055733	0.81081242	520	63
C12orf11	0.013530503	0.758223481	0.81094822	520	520
BDKRB1	0.013524701	0.758323919	0.81094822	520	520

CCDC33	0.013523216	0.758349642	0.81094822	520	210
HIST1H4L	0.013520273	0.758400596	0.81094822	520	159
FAM53A	0.013467254	0.759318756	0.81168973	520	520
CSH1	0.013463474	0.759384244	0.8117167	520	14
LOC730668	0.013438178	0.759822432	0.81209899	520	474
RNASE11	0.013428469	0.75999065	0.81220578	520	23
FRK	0.013425436	0.760043193	0.81220578	520	520
CNTFR	0.013421889	0.760104645	0.81222841	520	508
OR4A47	0.013413559	0.760248989	0.81229656	520	12
MCTP2	0.013402746	0.760436349	0.81245369	520	520
VPS18	0.013339538	0.761531912	0.81345179	520	520
TSPAN16	0.013317071	0.761921424	0.81365235	520	72
LOC653566	0.013290617	0.762380152	0.81401289	520	520
BEX1	0.013277731	0.762603638	0.8142084	520	415
PHF14	0.013214905	0.763693496	0.81515619	520	520
WFDC13	0.013196812	0.764007448	0.81544814	520	86
FAM186B	0.013165762	0.764546326	0.81585056	520	519
TBC1D4	0.01316341	0.764587157	0.81585095	520	520
LOC340094	0.013152622	0.764774412	0.8159644	520	11
CASP7	0.013118157	0.765372738	0.81655957	520	520
MSRB2	0.013077063	0.766086321	0.81719116	520	520
LOC401387	0.013057371	0.766428342	0.81751275	520	338
OR52N5	0.013053369	0.766497862	0.81751903	520	16
CSN2	0.013039244	0.766743228	0.81767561	520	85
C4orf35	0.013026171	0.766970341	0.81777188	520	78
NLRP6	0.01302471	0.76699572	0.81777188	520	484
SART1	0.012988106	0.767631724	0.81836344	520	520
CXorf61	0.012977214	0.767821022	0.81852197	520	130
ZC3H4	0.012952708	0.768246936	0.81887369	520	520
SLC6A3	0.012922703	0.768768531	0.81908179	520	378
EFTUD1	0.012921296	0.768792999	0.81908179	520	520
PWWP2A	0.01287161	0.769656954	0.81991562	520	520
PNLIPRP2	0.012862702	0.76981188	0.82003734	520	28
LOC285205	0.012807878	0.770765572	0.82071832	520	369
ALDH7A1	0.012807352	0.770774722	0.82071832	520	520
ZNF137	0.012807234	0.77077677	0.82071832	520	517
BBOX1	0.012779577	0.771258015	0.82114402	520	517
AGGF1	0.012754321	0.771697544	0.82152522	520	520
CPT1A	0.01274016	0.771944029	0.82174424	520	520
OTC	0.01273071	0.77210852	0.82183257	520	78
SSX8	0.012727657	0.772161665	0.82184575	520	30
TARM1	0.012683919	0.772923154	0.82252599	520	23
CRYBA4	0.012678058	0.773025206	0.82259118	520	266
LACRT	0.012656511	0.773400444	0.82294705	520	5
DNM1P35	0.012636831	0.773743213	0.82318146	520	519
TCFL5	0.012631909	0.77382895	0.82322924	520	520

NUP205	0.012603025	0.774332106	0.8236776	520	520
OR4N2	0.012584543	0.77465412	0.8239332	520	55
VAPB	0.012512609	0.775907797	0.8252231	520	520
PURB	0.012508892	0.7759726	0.8252485	520	520
TMEM105	0.012495976	0.77619777	0.82544443	520	501
SLC47A1	0.012458148	0.776857343	0.8259676	520	520
KDM3A	0.012456015	0.776894536	0.8259676	520	520
C5orf35	0.012426787	0.777404268	0.82636476	520	519
AGTRAP	0.012425922	0.777419353	0.82636476	520	520
CRH	0.012414475	0.777619026	0.82646399	520	38
PCSK2	0.01237512	0.778305594	0.82688504	520	323
STRN4	0.012336955	0.778971552	0.82743415	520	520
NAT2	0.01229272	0.779743646	0.82803617	520	250
UPF0639	0.012157264	0.782109272	0.83019853	520	415
MALT1	0.012148085	0.78226965	0.83028136	520	520
BSX	0.012094949	0.783198231	0.83113568	520	18
TSPY1	0.01203497	0.784246762	0.83211676	520	29
ACACA	0.012032623	0.784287796	0.83211676	520	520
ZNF716	0.01202965	0.78433978	0.83212813	520	90
ZCCHC3	0.012019367	0.784519606	0.83227513	520	520
ST7OT4	0.01199265	0.784986825	0.83258948	520	342
TM2D3	0.011990665	0.785021546	0.83258948	520	520
PARG	0.011990617	0.785022376	0.83258948	520	520
ALKBH1	0.011985095	0.785118973	0.83261859	520	520
FXD2	0.011984326	0.785132408	0.83261859	520	505
GPRC6A	0.011970294	0.785377855	0.83283508	520	138
POC5	0.011967824	0.785421054	0.83283709	520	520
C3orf79	0.011934917	0.785996738	0.83337404	520	107
UBAP2	0.011928209	0.786114094	0.83344049	520	520
MAP1D	0.011879108	0.786973316	0.83430757	520	520
NKX3-1	0.011843322	0.787599714	0.83479608	520	520
AGXT2L1	0.011834021	0.787762539	0.83492477	520	176
ZC3HAV1	0.011760002	0.789058645	0.83619073	520	520
SCN10A	0.011714584	0.789854236	0.8368338	520	70
OR5T2	0.011675061	0.790546742	0.83747948	520	19
ACO2	0.011652298	0.790945649	0.83784437	520	520
LBR	0.011650664	0.790974285	0.83784437	520	520
SYNE2	0.01164367	0.791096864	0.83786007	520	520
ABCA10	0.011642706	0.791113761	0.83786007	520	516
ABCC11	0.011637233	0.79120969	0.83791766	520	508
LOC285735	0.011613331	0.791628654	0.83822928	520	76
RGS20	0.011607751	0.79172649	0.83828885	520	520
HSP90AA1	0.011594319	0.791961966	0.83845012	520	520
REG1A	0.011579227	0.792226569	0.8386422	520	173
SLC25A42	0.011553701	0.79267417	0.83898388	520	520
VWC2	0.011524192	0.793191693	0.83944352	520	321

HTRA2	0.011505293	0.793523175	0.83970618	520	520
USP19	0.011468221	0.794173538	0.84026091	520	520
IQCF5	0.011465911	0.794214076	0.84026091	520	15
ARL5B	0.011459832	0.794320737	0.84028558	520	520
LRRC16A	0.011449802	0.794496732	0.84038358	520	520
DNAJC15	0.011430639	0.794832995	0.84069516	520	520
ARID3B	0.011417947	0.795055743	0.84084255	520	520
SULT4A1	0.011386839	0.795601746	0.84133174	520	416
BCKDHB	0.011349716	0.796253459	0.84184431	520	520
FRMPD1	0.011282314	0.797437108	0.84278641	520	478
YPEL5	0.011268149	0.797685915	0.842961	520	520
PHKA2	0.011265106	0.797739368	0.84297331	520	520
MAGEB10	0.011250165	0.798001829	0.84320646	520	35
FAM83G	0.011222852	0.798481696	0.84358089	520	520
PCDHA9	0.011211491	0.798681323	0.84374759	520	155
SLC28A3	0.011204721	0.798800288	0.84378485	520	517
ATIC	0.011198672	0.798906569	0.84385291	520	520
LOC441601	0.011187243	0.799107422	0.84402085	520	238
ERGIC3	0.011166509	0.799471824	0.84431728	520	520
OR2A12	0.011122661	0.800242607	0.84492645	520	17
EPHA7	0.011121776	0.800258152	0.84492645	520	461
SPAG1	0.011112157	0.800427271	0.84506076	520	520
DCPS	0.011072883	0.801117855	0.84552423	520	520
IQCF3	0.011066124	0.801236713	0.84560542	520	11
LCLAT1	0.011049688	0.801525777	0.84586621	520	520
SUMF1	0.011034985	0.801784384	0.84606177	520	520
EIF4G1	0.011027731	0.801911981	0.84614093	520	520
ARL6	0.010966828	0.802983452	0.8471653	520	520
TEX9	0.010939893	0.803457446	0.84746875	520	518
HSFYL1	0.010909087	0.803999642	0.84781136	520	13
USP18	0.010844662	0.805133847	0.84874106	520	520
GCKR	0.010837875	0.805253357	0.84882266	520	433
CPSF7	0.010784692	0.80618999	0.84972113	520	520
ANKS1A	0.010780302	0.806267327	0.84975823	520	520
CPLX2	0.010776746	0.806329966	0.84976568	520	233
SLC4A10	0.010739702	0.806982554	0.85033522	520	339
MYL6B	0.010725836	0.80722686	0.85054723	520	520
PFKFB4	0.010713303	0.807447706	0.85060214	520	520
HNRNPR	0.010706305	0.807571015	0.85064316	520	520
CECR7	0.010702809	0.807632621	0.85066361	520	507
SNORA5C	0.010673796	0.808143943	0.85113999	520	55
EEF2K	0.010672355	0.808169324	0.85113999	520	520
XYLB	0.010622757	0.809043629	0.85188281	520	520
FAM129A	0.010601618	0.809416324	0.85223073	520	520
G6PC2	0.010595553	0.809523264	0.85225433	520	62
PRR4	0.010558818	0.810171054	0.85272235	520	520

ALX1	0.010556256	0.810216242	0.85272235	520	390
FAM47C	0.01055439	0.810249159	0.85272235	520	51
MED20	0.010553557	0.810263851	0.85272235	520	520
LOC154822	0.010548462	0.810353711	0.85273014	520	357
GPR139	0.010528432	0.810707002	0.85296614	520	8
TMEM39B	0.010514638	0.810950312	0.85317761	520	520
OR1J1	0.010478946	0.811579995	0.85369323	520	219
ASAH2	0.010471655	0.811708635	0.85375269	520	509
PABPC1L2A	0.01046835	0.811766961	0.85376951	520	40
AMZ2P1	0.01045944	0.811924178	0.85389032	520	520
PCYT1A	0.010440007	0.812267107	0.85416187	520	520
WASL	0.010361324	0.813655956	0.85539931	520	520
LOC91149	0.010317516	0.814429472	0.85612323	520	240
KRTAP13-3	0.010296741	0.814796358	0.85637497	520	5
OR4F4	0.010262845	0.815395045	0.85695954	520	16
FLJ46361	0.010258838	0.815465826	0.85698926	520	36
LAP3	0.01022192	0.816118027	0.85756234	520	520
LOC100124692	0.010211144	0.816308423	0.85761552	520	191
CLEC3A	0.010210823	0.816314094	0.85761552	520	57
UBE2O	0.010210662	0.816316936	0.85761552	520	520
LRP2	0.010184594	0.816777575	0.85796536	520	432
ORC3L	0.010162169	0.817173872	0.85829222	520	520
CST6	0.010127932	0.817779021	0.85882321	520	519
MED29	0.010126338	0.817807201	0.85882321	520	520
C13orf26	0.010118924	0.817938249	0.85891609	520	83
DMRTC1B	0.010108973	0.818114171	0.85905609	520	403
NCRNA00167	0.010076939	0.818680518	0.85960602	520	388
TNFRSF11A	0.01002605	0.819580434	0.86025938	520	520
DHCR7	0.010025471	0.819590672	0.86025938	520	520
TMEM56	0.00998455	0.820314481	0.86091819	520	518
FHDC1	0.00996464	0.820666713	0.86119821	520	520
FIGLA	0.009948919	0.820944849	0.86144525	520	54
PPAN-P2RY11	0.009866733	0.822399284	0.86279551	520	156
MGC21881	0.009812883	0.823352577	0.86370208	520	520
BID	0.009734953	0.82473264	0.86487981	520	520
RSRC1	0.009712361	0.825132824	0.86520464	520	520
PTDSS2	0.009706624	0.825234453	0.86521794	520	520
ENTPD3	0.009702896	0.825300489	0.86521794	520	519
PI4KAP1	0.009699794	0.825355444	0.86521794	520	520
ALS2CR11	0.009693519	0.825466608	0.86528949	520	433
PDZD4	0.00967446	0.825804281	0.86555346	520	520
NAA30	0.009670454	0.825875247	0.86558285	520	520
GLYATL3	0.009642655	0.826367829	0.86600909	520	113
TRAPPC10	0.009624077	0.826697064	0.86626903	520	520
PCGF6	0.00962381	0.826701793	0.86626903	520	520
SENP3	0.009620868	0.826753922	0.86627864	520	520

NRCAM	0.009597184	0.82717369	0.86667344	520	520
DEFB132	0.009523462	0.828480615	0.86768208	520	19
DNMT3B	0.00951722	0.828591297	0.86770786	520	520
C7orf28A	0.009493809	0.829006423	0.86791721	520	520
OR10K1	0.009311056	0.83224874	0.87094995	520	22
GCA	0.009267986	0.833013274	0.87161432	520	520
PRO0611	0.009259431	0.833165158	0.87172801	520	251
KLHDC2	0.009207712	0.834083474	0.87259828	520	520
PLA2G12B	0.009174097	0.83468046	0.87313223	520	84
KRTAP10-2	0.00916286	0.834880035	0.87329569	520	159
LOC283663	0.009156057	0.835000875	0.87337678	520	518
SHPK	0.009133448	0.835402478	0.87375152	520	520
COX8C	0.009127298	0.835511735	0.87382047	520	108
AGK	0.00912038	0.835634641	0.87390368	520	520
CCDC99	0.009113516	0.835756575	0.87395365	520	520
HIST3H3	0.009112811	0.835769109	0.87395365	520	85
FLJ46111	0.009070897	0.83651382	0.87464167	520	462
OSR1	0.009057858	0.836745525	0.87479322	520	516
CIITA	0.009054095	0.836812402	0.87481778	520	520
TADA2B	0.009046336	0.836950279	0.87489012	520	520
PTER	0.009042603	0.837016621	0.87489012	520	520
SLCO1A2	0.009040027	0.837062401	0.87489012	520	427
ABHD4	0.00903975	0.837067334	0.87489012	520	520
FLT3LG	0.009037993	0.83709855	0.87489012	520	520
C8orf56	0.009019105	0.837434257	0.87515026	520	235
VSTM2A	0.00898795	0.837988031	0.87545675	520	113
GSPT1	0.008984726	0.838045352	0.87547127	520	520
FAHD2B	0.008975851	0.838203123	0.87559073	520	520
SCARNA5	0.008961419	0.838459686	0.87576799	520	230
GPR137	0.008872408	0.840042503	0.87723948	520	520
TMEM31	0.008853908	0.840371552	0.87753765	520	323
TP53RK	0.008840949	0.840602067	0.87768745	520	520
ZNF434	0.008801216	0.841308915	0.87824358	520	520
ZNF419	0.008775937	0.841758695	0.87862213	520	520
PIM2	0.008756947	0.842096612	0.87883837	520	520
ALG2	0.008751293	0.842197237	0.87889789	520	520
DCUN1D5	0.008737708	0.842438987	0.87905919	520	520
BAT3	0.008731432	0.842550681	0.87913024	520	520
FLJ25363	0.008706212	0.842999553	0.87946208	520	47
TMEM207	0.008685612	0.843366236	0.87975358	520	26
PTPN4	0.00862622	0.844423615	0.8807199	520	520
AMICA1	0.008614599	0.844630542	0.88089015	520	520
C3orf14	0.008575577	0.845325447	0.88150286	520	519
MAD1L1	0.008574244	0.845349177	0.88150286	520	520
SSX1	0.008548027	0.845816121	0.88189856	520	194
OR5K3	0.008518672	0.846339024	0.88226129	520	8

XRCC2	0.008476937	0.847082561	0.88294509	520	520
AVP	0.008463504	0.847321911	0.88314892	520	19
PRM1	0.00845099	0.847544909	0.88323778	520	8
KLF14	0.008449577	0.847570083	0.88323778	520	481
CCDC107	0.008407843	0.848313834	0.88395433	520	520
GAGE12J	0.008339414	0.8495336	0.88503024	520	109
EARS2	0.008337606	0.849565822	0.88503024	520	520
ZNF577	0.008328569	0.849726952	0.88510664	520	520
INTU	0.008308682	0.850081522	0.88535784	520	520
GNASAS	0.008306462	0.850121104	0.88535784	520	335
ENPP5	0.008305192	0.850143751	0.88535784	520	498
PION	0.008255621	0.851027731	0.8859124	520	520
CYCSP52	0.008187458	0.852243547	0.88704067	520	115
CLU	0.008156949	0.852787854	0.88743678	520	520
OR4N5	0.008156259	0.852800159	0.88743678	520	6
EEF1A1P9	0.008120939	0.853430393	0.88790932	520	520
THAP2	0.008100097	0.853802323	0.88825044	520	520
HPX	0.008097285	0.853852504	0.88825682	520	492
ANXA8L1	0.008093303	0.853923572	0.88828492	520	407
LRRC52	0.008071117	0.854319535	0.88865097	520	47
KCTD14	0.008062872	0.854466686	0.88871681	520	520
SCO1	0.00805954	0.854526171	0.88872837	520	520
PLEKHA6	0.008040296	0.854869662	0.88899391	520	520
SAT2	0.008025679	0.855130603	0.8892194	520	520
KRT77	0.008009775	0.855414515	0.8894229	520	440
SNORA79	0.007996942	0.855643623	0.88961524	520	6
LIPI	0.007971702	0.856094274	0.88997763	520	120
CDC40	0.007970005	0.856124584	0.88997763	520	520
ZNF397	0.007964795	0.856217615	0.89002846	520	520
CA12	0.007948904	0.856501373	0.89027752	520	520
OR2M4	0.007915546	0.857097099	0.89075899	520	19
NLRP7	0.007872965	0.857857644	0.89141157	520	505
OR8I2	0.007858604	0.858114188	0.8916322	520	5
GFI1B	0.007829505	0.858634027	0.89201382	520	344
PELI1	0.007822435	0.858760342	0.89201382	520	520
CLIC2	0.007822047	0.858767273	0.89201382	520	520
WASF1	0.007820927	0.858787295	0.89201382	520	520
ATF6B	0.007820712	0.85879113	0.89201382	520	520
ADIG	0.007803071	0.859106324	0.89224929	520	58
BET1	0.007797469	0.859206427	0.89230729	520	520
ACCN4	0.007780676	0.859506497	0.89252699	520	423
CYP11A1	0.007754464	0.859974911	0.89292143	520	475
C20orf196	0.007722488	0.860546407	0.89337681	520	520
GOLGA8C	0.007695456	0.861029588	0.89378639	520	379
TRIM62	0.00768665	0.861187006	0.89385776	520	520
SP140	0.00765603	0.861734408	0.89432431	520	520

OR4A16	0.007604908	0.862648478	0.89509823	520	11
MUM1	0.007599328	0.862748266	0.89515571	520	520
C3orf50	0.007589165	0.862930008	0.89529821	520	135
BCAR4	0.007554058	0.863557863	0.89581134	520	145
CBLN2	0.007539124	0.86382498	0.89604233	520	439
C18orf2	0.007409594	0.866142398	0.89790101	520	261
DYNLRB2	0.007409103	0.866151187	0.89790101	520	435
KIAA1009	0.007404096	0.866240794	0.89790158	520	520
IL21	0.007330518	0.867557719	0.89908176	520	164
UBA2	0.007315725	0.86782254	0.89921756	520	520
UBTFL1	0.007283459	0.868400183	0.8996774	520	37
RSAD1	0.007251063	0.868980237	0.90023209	520	520
ZNF684	0.007246365	0.869064368	0.900273	520	520
PLXNB3	0.007226338	0.869422988	0.90050571	520	520
MRPL49	0.007220214	0.869532656	0.90057304	520	520
GANC	0.007201215	0.869872915	0.9008329	520	520
LOC646627	0.007185882	0.870147523	0.90107101	520	142
CDCA7L	0.007137152	0.871020393	0.90192858	520	520
PPP3R1	0.007059258	0.872415965	0.90304905	520	520
PAGE4	0.007046182	0.872650283	0.90324523	520	53
TLE4	0.006995932	0.873550832	0.90389896	520	520
C2orf69	0.006986587	0.873718332	0.90402588	520	520
INPP5F	0.006981337	0.873812424	0.90407685	520	520
LOC643719	0.006968434	0.874043708	0.90422335	520	501
DMBT1	0.006933457	0.87467069	0.90477914	520	495
PLCD3	0.006922716	0.874863257	0.90493191	520	520
SLC4A1	0.006905056	0.875179867	0.90512011	520	337
POM121L12	0.006899403	0.875281227	0.90517851	520	10
ADAD1	0.006825905	0.876599148	0.90614028	520	11
TMEM217	0.006819187	0.876719646	0.9062013	520	520
OR5B21	0.006802274	0.87702297	0.90646836	520	33
ZIC4	0.006783733	0.877355519	0.90662618	520	329
MSL1	0.006779237	0.877436172	0.90666306	520	520
CDX4	0.00677666	0.877482387	0.90666435	520	25
SULT6B1	0.006741616	0.878111009	0.9072209	520	18
OTOP1	0.006681032	0.879197957	0.90820428	520	216
NLRP8	0.006648145	0.879788067	0.90876731	520	50
TNFRSF10B	0.006632834	0.880062834	0.90900456	520	520
PRAMEF9	0.006627977	0.880150008	0.90904803	520	45
FGA	0.006593205	0.880774059	0.90959939	520	298
IL3	0.006535662	0.881806964	0.91061946	520	45
C6orf1	0.00652474	0.882003041	0.91074335	520	520
REG3G	0.006496278	0.88251403	0.91106968	520	14
PDC	0.006472166	0.882946955	0.91146994	520	195
HYALP1	0.006465713	0.883062821	0.91149622	520	10
PLXNA2	0.006432276	0.883663265	0.91202263	520	520

PCID2	0.006425793	0.883779689	0.91204942	520	520
C8orf71	0.006397778	0.884282819	0.91238186	520	19
SYAP1	0.006370627	0.884770463	0.91279159	520	520
ADIPOR2	0.006326021	0.885571728	0.91352475	520	520
IFT122	0.006279883	0.886400636	0.91405249	520	520
AMBN	0.006238737	0.887139953	0.91472131	520	91
INSM1	0.006168972	0.888393733	0.91577993	520	438
C2orf77	0.006165396	0.888458004	0.91579937	520	520
LOC100133985	0.006093203	0.889755724	0.91676211	520	517
CDYL	0.006071166	0.890151913	0.9170766	520	520
ABHD1	0.006048218	0.890564498	0.91745479	520	467
PPP1R2P9	0.005970162	0.891968136	0.91868265	520	46
NICN1	0.005969271	0.891984176	0.91868265	520	520
LOC220429	0.005961155	0.892130142	0.91878606	520	513
LYZL1	0.005957521	0.892195492	0.91880643	520	10
MPG	0.005931778	0.8926585	0.91918936	520	520
SUGT1L1	0.005928968	0.892709048	0.91919447	520	519
TAS2R50	0.005921014	0.892852112	0.91929483	520	136
HLA-F	0.005913321	0.892990502	0.91937174	520	520
SAMD9	0.005894575	0.893327705	0.91956455	520	520
KRTAP13-4	0.005894168	0.893335031	0.91956455	520	5
POTEA	0.005883812	0.893521325	0.91962776	520	13
TMEM63A	0.005882756	0.893540321	0.91962776	520	520
SERPINB6	0.005865464	0.893851403	0.91990097	520	520
PCDH8	0.005859211	0.893963901	0.91996979	520	280
POMC	0.005757538	0.895793353	0.92157026	520	516
SUPT16H	0.005732585	0.896242418	0.92193818	520	520
TM4SF4	0.005718584	0.896494417	0.92215036	520	195
NANOS1	0.005711538	0.896621237	0.92223376	520	520
KRT7	0.005699287	0.896841731	0.92236645	520	520
SERTAD3	0.005674552	0.897286965	0.92273023	520	520
NLK	0.005652963	0.897675591	0.92303573	520	520
CEP192	0.005531593	0.899860855	0.92510782	520	520
PCCA	0.005522376	0.900026837	0.92517033	520	520
EIF4E3	0.005454677	0.901246096	0.9263292	520	520
SLC25A45	0.005436232	0.901578351	0.92662347	520	520
LOC348021	0.005429929	0.901691883	0.92669292	520	40
PRPF40A	0.005426852	0.9017473	0.92670264	520	520
DVL2	0.00541119	0.902029445	0.92694535	520	520
OC90	0.005391827	0.902378263	0.9272093	520	33
PIRT	0.005303815	0.903964005	0.9286794	520	210
FAM123A	0.005302194	0.903993216	0.9286794	520	162
CCDC55	0.005296631	0.90409346	0.92873506	520	520
FLJ45079	0.005290406	0.904205625	0.9287929	520	186
PCM1	0.005281227	0.904371046	0.92885347	520	520
MAT1A	0.005279618	0.904400032	0.92885347	520	500

AP2M1	0.005258635	0.904778172	0.92915442	520	520
SRXN1	0.005240502	0.905104971	0.92935093	520	520
CCR10	0.005240345	0.90510779	0.92935093	520	517
POTED	0.005173242	0.906317274	0.93040329	520	12
TKTL2	0.005166991	0.906429969	0.93043189	520	178
RHEBL1	0.005129127	0.907112537	0.9309827	520	520
PRKCD	0.005117819	0.907316398	0.93114454	520	520
SPINK4	0.00511108	0.907437897	0.93121959	520	148
CTDSP1	0.005106146	0.907526862	0.93121959	520	520
RRP1B	0.005092384	0.907774973	0.93133075	520	520
HOXA10	0.005083365	0.907937591	0.93145019	520	519
C5orf20	0.005073509	0.908115301	0.93158511	520	512
ZNF766	0.005062885	0.908306851	0.93168681	520	520
MFSD10	0.005027182	0.908950646	0.93223747	520	520
SNORA51	0.005023569	0.909015798	0.93223747	520	7
LRP11	0.004961379	0.910137369	0.93313723	520	520
FSHB	0.004942133	0.910484496	0.93344567	520	11
CPNE5	0.004930251	0.910698799	0.93361791	520	520
DPPA3	0.004897498	0.911289615	0.9341761	520	39
PPT2	0.004872205	0.91174588	0.93459631	520	520
TMEM229A	0.004851951	0.912111264	0.93492332	520	94
DNAL4	0.004825798	0.912583106	0.93535941	520	520
RNASE9	0.004778726	0.913432433	0.93608719	520	17
MOCS3	0.004767125	0.913641774	0.93625414	520	520
SCTR	0.004708398	0.914701543	0.9372925	520	267
C20orf186	0.004698377	0.914882412	0.93738257	520	262
DGAT2L6	0.004683141	0.915157383	0.93761666	520	87
IFNGR2	0.004673375	0.915333649	0.9377496	520	520
KRTAP15-1	0.004666799	0.915452346	0.93782356	520	4
OR1S1	0.004656167	0.915644231	0.93792483	520	7
OR8A1	0.004612324	0.916435624	0.93854294	520	31
C11orf54	0.004610028	0.916477074	0.93854294	520	520
OR6C75	0.00460893	0.916496885	0.93854294	520	18
STK31	0.004604687	0.916573481	0.93854294	520	497
PRH1	0.004568651	0.917224033	0.93906603	520	520
C4orf32	0.004565086	0.917288387	0.93908423	520	520
HTR5A	0.004549106	0.917576879	0.93933189	520	34
CELF4	0.004503289	0.918404121	0.94003557	520	464
MAP3K1	0.004473161	0.918948124	0.94044917	520	520
VAMP2	0.004400327	0.92026343	0.94146077	520	520
MAGEA12	0.004397698	0.920310897	0.94146157	520	359
PAPL	0.004373533	0.920747347	0.94176471	520	512
NIPSNAP1	0.004367872	0.920849594	0.9418038	520	520
FUNDC2	0.00435773	0.921032783	0.94185177	520	520
AASS	0.004332718	0.92148456	0.94208866	520	520
UTS2	0.00430837	0.921924363	0.94249051	520	435

HSPC157	0.004290946	0.922239121	0.9427235	520	520
LOH12CR1	0.004289509	0.922265076	0.9427235	520	520
RPUSD4	0.00428799	0.922292521	0.9427235	520	520
LOC100132354	0.004254132	0.922904186	0.94330089	520	279
C19orf29	0.004230078	0.923338765	0.94360158	520	520
C9orf27	0.004198772	0.923904399	0.94408394	520	9
DUSP2	0.004167885	0.924462485	0.94455848	520	520
C17orf44	0.004145191	0.924872579	0.9449296	520	520
PCMT1	0.004104892	0.925600826	0.94551199	520	520
PYCR1	0.004101625	0.925659862	0.94551199	520	520
MAPK1IP1L	0.004100674	0.925677054	0.94551199	520	520
GCK	0.004073692	0.926164695	0.94591424	520	496
RPL23AP64	0.004043406	0.926712073	0.94642536	520	477
PTPN6	0.003971251	0.92801634	0.94751742	520	520
SNIP1	0.003953478	0.928337627	0.94770149	520	520
NLRP4	0.003948248	0.928432167	0.94775002	520	273
CEP110	0.003940815	0.92856655	0.94779124	520	520
TMEM14E	0.003923287	0.928883428	0.94805577	520	279
SNORA2B	0.003921278	0.928919747	0.94805577	520	12
ATR	0.003874955	0.929757259	0.94871845	520	520
PTCD2	0.003826603	0.930631523	0.94946641	520	520
LPCAT3	0.003809289	0.930944618	0.94973778	520	520
9-Sep	0.003795079	0.931201572	0.94992351	520	520
GAS2L1	0.003794011	0.93122089	0.94992351	520	520
WFDC10B	0.003782202	0.931434434	0.95009328	520	226
DYNLL2	0.003760332	0.931829941	0.95028883	520	520
PDSS2	0.003758571	0.931861785	0.95028883	520	520
HOXA2	0.003746015	0.932088858	0.95047232	520	512
YWHAQ	0.003725164	0.93246596	0.9507607	520	520
OR5F1	0.003710784	0.932726051	0.9509183	520	8
DARS2	0.003675203	0.933369597	0.95133002	520	520
NAMPT	0.003673425	0.933401757	0.95133002	520	520
ZNF561	0.003632745	0.934137594	0.95193564	520	520
THNSL1	0.003599187	0.934744655	0.95236136	520	520
DCK	0.003581253	0.935069089	0.95254034	520	520
CMPK2	0.003578784	0.935113754	0.95254034	520	520
EIF1AY	0.003570103	0.935270803	0.95256266	520	423
CDC20B	0.003570006	0.935272547	0.95256266	520	324
ABCG4	0.003559915	0.935455104	0.95270048	520	519
CALHM3	0.003506582	0.936420042	0.95344242	520	357
OR2T34	0.003459212	0.937277144	0.95417056	520	7
PABPN1L	0.003405623	0.938246875	0.95498785	520	121
NRM	0.003380641	0.938698982	0.95530477	520	520
OR2M5	0.003379319	0.938722911	0.95530477	520	8
GUCY2E	0.003338232	0.939466501	0.95591676	520	68
CXCL10	0.003331067	0.939596173	0.95595223	520	520

AMIGO1	0.003296529	0.940221294	0.95644346	520	519
CLCN3	0.003268304	0.940732169	0.95681833	520	520
ENOX2	0.003254919	0.940974451	0.95701648	520	520
TTR	0.003250339	0.941057358	0.95705066	520	100
PRKCI	0.003247819	0.941102983	0.95705066	520	520
TMEM194A	0.003217796	0.941646446	0.95745847	520	520
DMTF1	0.003184763	0.942244438	0.9580182	520	520
FBXO47	0.003162501	0.942647463	0.95833132	520	112
ATP6V1E2	0.00311029	0.943592731	0.95921499	520	520
POLDIP3	0.003108686	0.943621777	0.95921499	520	520
CCDC47	0.003106609	0.943659383	0.95921499	520	520
MAP3K11	0.003082001	0.944104944	0.95957245	520	520
HELT	0.00308193	0.944106223	0.95957245	520	67
MASP2	0.003075392	0.944224602	0.95959603	520	509
OR5H2	0.003070982	0.94430446	0.95962882	520	9
CHRAC1	0.003054505	0.94460279	0.95973852	520	520
MESTIT1	0.003048892	0.944704432	0.95979343	520	197
ZNF764	0.00295081	0.94648057	0.96123351	520	520
ZNF323	0.002949558	0.946503244	0.96123351	520	520
COLEC11	0.002919656	0.947044783	0.96168661	520	513
CNTROB	0.002902685	0.94735215	0.96195028	520	520
MKRN2	0.002897543	0.94744528	0.96195984	520	520
ALS2CR4	0.002866784	0.948002377	0.96237217	520	520
PUF60	0.002852244	0.948265739	0.96256544	520	520
UPP2	0.002843336	0.948427082	0.96256544	520	143
RBMV3AP	0.002828566	0.948694623	0.96273678	520	5
TMEM9	0.002817102	0.948902265	0.96289393	520	520
CABP1	0.002781628	0.949544861	0.96325515	520	502
TAF4	0.002774396	0.949675863	0.96333958	520	520
TIGD7	0.002771418	0.9497298	0.96334583	520	520
VSX1	0.002740492	0.950290042	0.96381713	520	144
TBPL2	0.002724834	0.950573687	0.96397143	520	54
BLOC1S3	0.002724177	0.95058559	0.96397143	520	520
ISYNA1	0.002717718	0.950702609	0.96404161	520	520
MAPK7	0.002669089	0.951583604	0.96478941	520	520
C16orf68	0.002655914	0.951822316	0.96493782	520	520
C1orf92	0.002649787	0.951933325	0.96495579	520	317
ZSWIM5	0.002649466	0.951939133	0.96495579	520	519
CACNG2	0.002638807	0.952132261	0.96503491	520	115
COLEC10	0.002625955	0.952365112	0.96516586	520	382
OR9K2	0.002615929	0.95254678	0.96528059	520	29
ZBTB3	0.00258703	0.953070401	0.96566562	520	520
SIT1	0.002524669	0.954200388	0.96661626	520	519
CYB5D1	0.002512639	0.954418382	0.96678852	520	520
OR6C2	0.002498557	0.954673575	0.96688105	520	162
FAM64A	0.002498243	0.954679271	0.96688105	520	520

NHLH1	0.002475912	0.95508394	0.9670915	520	504
NCR2	0.002474961	0.955101181	0.9670915	520	275
LARP4	0.002459877	0.95537453	0.96731971	520	520
UROD	0.00245628	0.955439725	0.96733715	520	520
CPA1	0.002430656	0.955904093	0.96774424	520	232
PRSS55	0.002402383	0.956416504	0.96808305	520	104
DYRK1A	0.002367824	0.957042856	0.96861979	520	520
TBC1D28	0.00230735	0.958138958	0.9695345	520	39
CXADRP3	0.002298878	0.958292529	0.96964124	520	484
LOC441454	0.002289176	0.958468382	0.96977051	520	472
MIR155HG	0.002211336	0.959879391	0.97080593	520	518
PKD2L1	0.002208818	0.959925049	0.97080593	520	464
DGKK	0.002188727	0.960289261	0.97112557	520	52
DNAJC25-GNG10	0.002171695	0.960598028	0.97134039	520	142
TGDS	0.00213914	0.961188204	0.97179218	520	520
CCM2	0.002139074	0.961189409	0.97179218	520	520
CUL1	0.002076023	0.962332517	0.97273185	520	520
ASCL1	0.002074967	0.962351668	0.97273185	520	351
SLC7A11	0.002064707	0.962537689	0.97286266	520	520
C9orf79	0.00204482	0.96289826	0.97312954	520	80
FMO4	0.002020441	0.963340289	0.97344125	520	520
MOXD1	0.001996738	0.963770062	0.97381537	520	520
KCNH8	0.001987977	0.963928925	0.97386921	520	411
PEX13	0.001987537	0.963936909	0.97386921	520	520
KIAA0174	0.001985809	0.963968242	0.97386921	520	520
C20orf46	0.001951143	0.964596825	0.97440661	520	520
DEFB106A	0.001922555	0.965115209	0.97487677	520	3
KPNA4	0.001898972	0.965542856	0.9752157	520	520
TGFBR3	0.001889513	0.965714383	0.97527039	520	520
MMP27	0.001887984	0.965742113	0.97527039	520	407
PRKRA	0.001852047	0.966393805	0.97578191	520	520
FTHL17	0.001823039	0.966919874	0.97616644	520	91
CDKN2B	0.001794838	0.967431304	0.97658497	520	520
ONECUT3	0.001781801	0.96766775	0.97677476	520	125
PRCD	0.001773873	0.967811531	0.97682209	520	511
RCE1	0.001768117	0.967915921	0.9768488	520	520
LOC168474	0.001767072	0.967934881	0.9768488	520	512
CLUL1	0.001735507	0.968507343	0.97734753	520	395
TBX21	0.001734478	0.968526006	0.97734753	520	517
CTXN2	0.001726188	0.968676369	0.97735253	520	55
CNIH	0.001675511	0.969595499	0.97813306	520	520
SLITRK5	0.001592564	0.971100023	0.97935685	520	418
PRR18	0.001581372	0.971303028	0.97951259	520	304
PRB4	0.001572791	0.971458687	0.97962057	520	107
GLRA3	0.001559472	0.971700279	0.97981519	520	306
MAP2K4	0.001524886	0.972327665	0.98030075	520	520

RBMY2EP	0.001516472	0.972480291	0.98035659	520	11
OR8D1	0.001455782	0.973581231	0.98107104	520	28
LOC285194	0.00144716	0.97373764	0.98108458	520	41
SPANXN1	0.001413125	0.974355075	0.98155954	520	31
KRT35	0.001402803	0.974542331	0.98169913	520	58
TMEM151A	0.001388589	0.974800195	0.98190984	520	479
OR6K6	0.001351563	0.97547192	0.98253738	520	6
SLC25A15	0.001332089	0.975825226	0.98284415	520	520
OR51F2	0.001295415	0.976490601	0.98346519	520	23
MC5R	0.001247262	0.977364248	0.9841976	520	160
DLX4	0.001238581	0.977521745	0.98428201	520	520
OPTN	0.001237261	0.977545698	0.98428201	520	520
KIAA0467	0.001218846	0.977879827	0.98452011	520	520
SKAP1	0.001172891	0.97871363	0.98509636	520	520
SAA3P	0.00116206	0.978910143	0.98521308	520	12
AGXT2	0.001157103	0.979000102	0.98524078	520	45
OR5M11	0.001148336	0.979159161	0.98524078	520	185
OR1F1	0.00114168	0.97927994	0.98524078	520	298
ACVR1B	0.001135202	0.979397483	0.98524078	520	520
SERPINA12	0.001133615	0.979426277	0.98524078	520	303
DCAF8	0.001120401	0.979666033	0.9854328	520	520
PGRMC2	0.001097503	0.98008153	0.98580156	520	520
GBP4	0.001091254	0.980194909	0.98584942	520	520
TAF9B	0.001084916	0.980309926	0.98588376	520	520
SERHL2	0.001069687	0.980586257	0.98605018	520	519
C1orf130	0.001031532	0.981278596	0.9866119	520	493
PPM1B	0.001018972	0.981506505	0.98679184	520	520
PSMD11	0.000977163	0.982265192	0.98740692	520	520
PML	0.000947547	0.982802603	0.98787634	520	520
LDHAL6A	0.000946029	0.982830157	0.98787634	520	305
WDR67	0.000930843	0.983105735	0.98805483	520	520
CCT2	0.000920795	0.983288068	0.98812865	520	520
YES1	0.000918694	0.983326196	0.98812865	520	520
PON1	0.000909831	0.983487039	0.98824103	520	189
C9orf11	0.000882396	0.983984898	0.9885935	520	316
MTMR12	0.000840317	0.984748508	0.9892621	520	520
CDKL2	0.000832343	0.984893229	0.9893582	520	490
FAM54B	0.000807234	0.985348894	0.98966802	520	520
DCAF12L1	0.000788755	0.985684246	0.98995553	520	66
GSC2	0.000775508	0.985924657	0.99013527	520	42
C19orf21	0.000773482	0.985961422	0.99013527	520	520
RIT2	0.000731141	0.986729831	0.99070957	520	31
FAM119A	0.000700237	0.987290682	0.9910376	520	520
UGT1A5	0.000699598	0.987302282	0.9910376	520	111
MORC3	0.000691691	0.987445776	0.99113229	520	520
GNGT1	0.000673423	0.987777321	0.99125053	520	462

C19orf75	0.000672755	0.98778944	0.99125053	520	61
ASFMR1	0.000666239	0.987907694	0.99125053	520	297
CCT5	0.000649983	0.98820273	0.99139857	520	520
PADI3	0.000646836	0.988259839	0.99140654	520	518
TMEM189	0.000622591	0.988699862	0.99179862	520	520
HOXD13	0.000619243	0.988760623	0.99181023	520	481
SLC25A38	0.000616513	0.988810181	0.9918106	520	520
ZNF530	0.000589972	0.989291859	0.99224438	520	520
DKKL1	0.000542253	0.990157935	0.99291549	520	434
LOC100128292	0.000517711	0.990603363	0.99331276	520	520
TXNDC16	0.000514716	0.990657706	0.99331785	520	520
XAF1	0.000450625	0.991820955	0.99394807	520	520
IFNB1	0.000449988	0.99183251	0.99394807	520	222
RBM28	0.00044985	0.991835021	0.99394807	520	520
TBX19	0.00041375	0.992490218	0.99446297	520	520
LRRIQ4	0.000395913	0.992813968	0.99458967	520	323
PRPH	0.000378182	0.993135781	0.99486263	520	492
LOC100188949	0.000360882	0.99344978	0.99512774	520	505
LAMA5	0.000333449	0.993947706	0.99547815	520	520
ZNF444	0.000321844	0.994158332	0.99563965	520	520
RNF165	0.000299515	0.994563611	0.99599606	520	517
CSNK1A1L	0.000294607	0.994652696	0.9960358	520	520
MPZL3	0.000235844	0.995719269	0.99690583	520	520
RHOG	0.000197926	0.996407506	0.99744631	520	520
TMEM179	0.00014247	0.997414066	0.99810706	520	78
CARS	0.000129928	0.997641707	0.998264	520	520
CEACAM21	9.64E-05	0.99824954	0.99866308	520	516
AIFM3	5.96E-05	0.998917718	0.99916548	520	519
CT47A6	3.22E-05	0.999416425	0.99951556	520	6
OR52N2	1.78E-05	0.999677183	0.99967718	520	115
FAM18B	-1.83E-05	0.99966829	0.99967718	520	520
FLJ39582	-4.82E-05	0.999125494	0.99927417	520	520
LOC285375	-5.51E-05	0.998999123	0.99919734	520	25
RBM41	-6.64E-05	0.998794667	0.99909196	520	520
RHD	-8.40E-05	0.99847515	0.99882189	520	470
FOXA3	-9.55E-05	0.998266865	0.99866308	520	475
NHEJ1	-0.000108249	0.998035197	0.9985304	520	520
CENPF	-0.000119413	0.997832572	0.99837721	520	520
LOC440905	-0.000128374	0.99766991	0.998264	520	426
TCERG1L	-0.00014363	0.997393006	0.99810706	520	428
SNX2	-0.000153477	0.997214282	0.99800619	520	520
CXCR6	-0.000155081	0.997185172	0.99800619	520	520
PLAC1	-0.000157406	0.997142956	0.99800619	520	515
AKAP4	-0.000167446	0.996960729	0.99790102	520	54
MAST3	-0.000188094	0.996585954	0.99757542	520	520
KIAA2022	-0.00020341	0.996307955	0.99739617	520	459

OR8H3	-0.000226759	0.995884156	0.99702141	520	5
DPH2	-0.000262942	0.995227425	0.99646287	520	520
VN1R1	-0.000285693	0.994814477	0.99609887	520	501
MSH6	-0.000288081	0.994771142	0.99609887	520	520
C1orf183	-0.000343651	0.993762531	0.99534213	520	520
PPP1R15B	-0.000344169	0.993753133	0.99534213	520	520
C6orf48	-0.000396904	0.992795973	0.99458967	520	520
WDR41	-0.000407579	0.992602228	0.99447637	520	520
RCOR3	-0.00040899	0.992576616	0.99447637	520	520
KRTAP8-1	-0.000432521	0.992149528	0.994171	520	9
LOC401397	-0.000447495	0.991877753	0.99394807	520	520
TRY6	-0.000456976	0.991705673	0.99394807	520	74
OR52B6	-0.000459577	0.991658473	0.99394807	520	39
POLR3C	-0.000467274	0.991518769	0.99388469	520	520
NINL	-0.000468767	0.991491679	0.99388469	520	520
PPY	-0.000479053	0.991304976	0.99376919	520	205
BTBD9	-0.000484917	0.991198558	0.99371191	520	520
SENP2	-0.000487109	0.991158775	0.99371191	520	520
GPR89A	-0.00050699	0.990797931	0.99340905	520	520
PHLDA3	-0.000553773	0.989948855	0.9927552	520	520
LOC100302650	-0.000577226	0.9895232	0.99237769	520	520
SERHL	-0.000584909	0.989383754	0.99228719	520	520
KCNJ10	-0.000657177	0.98807216	0.9913169	520	490
N6AMT1	-0.000660047	0.988020083	0.99131397	520	520
OR3A3	-0.000667282	0.987888772	0.99125053	520	45
SFTPA1	-0.000670199	0.987835842	0.99125053	520	370
KCNK4	-0.000674669	0.987754711	0.99125053	520	401
MACROD2	-0.000674929	0.987749988	0.99125053	520	510
CFHR2	-0.000713525	0.987049532	0.99088254	520	30
TRIM69	-0.000723493	0.986868626	0.99075026	520	520
EIF4EBP2	-0.000726071	0.986821832	0.99075026	520	520
KRTAP20-4	-0.000741275	0.986545918	0.99057424	520	8
ACOXL	-0.000746216	0.986456237	0.99053352	520	457
OR2A1	-0.000746731	0.986446896	0.99053352	520	499
HP	-0.000815411	0.985200491	0.98956825	520	459
TTY1B	-0.000824892	0.985028433	0.98944472	520	7
SRCRB4D	-0.000864703	0.984305976	0.98886681	520	520
LOC388588	-0.00089566	0.983744186	0.98840091	520	515
ZC3H15	-0.000896832	0.983722926	0.98840091	520	520
C4orf45	-0.000924994	0.98321187	0.98811225	520	19
C3orf67	-0.000942924	0.982886505	0.98788373	520	520
LRRC67	-0.000995264	0.981936727	0.98712594	520	86
CA1	-0.001003692	0.981783785	0.9870214	520	124
COX7B2	-0.00105431	0.980865271	0.9862455	520	78
ETNK1	-0.001067711	0.980622109	0.98605018	520	520
KHNYN	-0.001070911	0.980564042	0.98605018	520	520

DACH2	-0.001089492	0.980226895	0.98584942	520	224
PPY2	-0.001136083	0.979381495	0.98524078	520	71
C5orf40	-0.00113737	0.979358141	0.98524078	520	326
ULBP2	-0.00113891	0.979330197	0.98524078	520	520
ZNF35	-0.001142471	0.979265577	0.98524078	520	520
ANGPTL3	-0.001152008	0.979092542	0.98524078	520	202
CEACAM18	-0.001171145	0.978745312	0.98509636	520	36
FLJ44082	-0.001186797	0.978461321	0.98490885	520	14
CELA1	-0.001187325	0.978451731	0.98490885	520	153
SPDYE2	-0.001193238	0.97834445	0.98488954	520	267
FCHO1	-0.001208325	0.978070714	0.98466313	520	520
XRRA1	-0.001220666	0.977846803	0.98452011	520	520
C9orf57	-0.00125108	0.977294979	0.98417699	520	40
C1orf186	-0.001289559	0.976596847	0.98352307	520	517
C17orf107	-0.001413274	0.974352384	0.98155954	520	520
MRPL33	-0.001413294	0.974352008	0.98155954	520	520
ZSCAN22	-0.001449874	0.973688409	0.981084	520	520
C6orf15	-0.001453265	0.973626885	0.98107104	520	488
SFTA3	-0.001458956	0.97352366	0.98106507	520	113
GPR101	-0.001470403	0.973315998	0.98090483	520	40
ARHGAP26	-0.001487723	0.973001804	0.9806372	520	520
ZNF584	-0.001496474	0.972843061	0.98052622	520	520
SVOP	-0.001496585	0.972841049	0.98052622	520	306
METT10D	-0.001507281	0.972647016	0.98042664	520	520
TRIB3	-0.001513384	0.972536313	0.98036406	520	520
CBX2	-0.001517953	0.972453424	0.98035659	520	520
DEFB129	-0.001526644	0.972295763	0.98030075	520	3
XKR7	-0.00153398	0.972162703	0.98023246	520	119
HIST1H2BN	-0.001595459	0.971047509	0.97935287	520	515
DOLK	-0.00160806	0.970818939	0.97917132	520	520
TAS2R42	-0.001631082	0.970401351	0.9787991	520	92
BANF2	-0.001646206	0.970127034	0.97857136	520	13
DHX40P1	-0.001654406	0.969978302	0.97847028	520	192
SLC25A2	-0.001689113	0.969348803	0.97793312	520	292
C8orf30A	-0.001723361	0.968727634	0.97735535	520	520
BIRC3	-0.001728546	0.968633595	0.97735253	520	520
OR8B12	-0.001730186	0.968603854	0.97735253	520	20
OLFM4	-0.001778196	0.967733131	0.97679185	520	460
GABRA1	-0.001802956	0.967284085	0.97648525	520	102
KIAA0146	-0.001839633	0.966618947	0.9759115	520	520
TDGF3	-0.001844606	0.966528761	0.97586931	520	160
SLC12A1	-0.001862667	0.966201228	0.97563631	520	225
PTGS2	-0.001869335	0.966080301	0.97556306	520	520
PRAMEF11	-0.001891546	0.965677519	0.97527039	520	104
DARC	-0.001920144	0.965158941	0.97487677	520	520
TAPBP	-0.00196042	0.96442861	0.9742855	520	520

PRY2	-0.002019821	0.963351521	0.97344125	520	61
PHKA1	-0.002030669	0.963154828	0.97334005	520	520
SNORA72	-0.002054825	0.962716861	0.97299498	520	127
LOC441046	-0.002074506	0.962360033	0.97273185	520	497
ITIH1	-0.002077093	0.962313127	0.97273185	520	351
GPR61	-0.002100058	0.961896757	0.97245857	520	315
MRGPRD	-0.002148454	0.961019361	0.9717177	520	104
KANK1	-0.002185769	0.960342869	0.97113107	520	520
WNT10B	-0.002214806	0.959816494	0.97079353	520	520
FAM160A2	-0.002218649	0.959746828	0.97077176	520	520
TRIM48	-0.002226106	0.959611654	0.97068373	520	56
ANGPTL4	-0.002231593	0.959512179	0.9706318	520	520
ZIC3	-0.002243111	0.959303396	0.97046928	520	83
PAPD4	-0.002244077	0.959285876	0.97046928	520	520
LOC387646	-0.002254373	0.959099248	0.97036012	520	512
UBASH3A	-0.002324664	0.957825136	0.96926559	520	517
API5	-0.002343415	0.957485271	0.96897029	520	520
TMTC2	-0.002362024	0.957147977	0.96867757	520	520
NAT6	-0.00237478	0.956916782	0.96854081	520	520
CA13	-0.0024235	0.956033785	0.96774424	520	520
ECHDC3	-0.002423976	0.956025163	0.96774424	520	520
DIRC2	-0.002425791	0.955992271	0.96774424	520	520
STX16	-0.002476807	0.955067722	0.9670915	520	520
PRM3	-0.002489236	0.954842493	0.96697524	520	20
OR6B1	-0.002497014	0.954701534	0.96688105	520	5
BPY2	-0.002506599	0.954527837	0.96685082	520	14
CHST5	-0.002534783	0.954017112	0.96647915	520	431
MOGAT1	-0.0025588	0.953581921	0.96608681	520	65
HOXC9	-0.002581995	0.953161619	0.96570952	520	515
FMR1NB	-0.002595807	0.95291136	0.965553	520	87
LOC653501	-0.002611897	0.952619834	0.96530611	520	519
CLNK	-0.002624819	0.952385695	0.96516586	520	408
C1orf124	-0.002637234	0.952160758	0.96503491	520	520
HIST1H2BB	-0.002646765	0.951988072	0.96495689	520	206
FAM138D	-0.002655727	0.951825693	0.96493782	520	31
CLRN1OS	-0.002678038	0.951421474	0.96467354	520	100
HCG4P6	-0.002713858	0.950772546	0.96406405	520	493
IGSF8	-0.002729468	0.950489742	0.96397119	520	520
GFOD1	-0.002768364	0.949785132	0.96335349	520	520
PABPC1L2B	-0.002785472	0.94947522	0.96323296	520	76
DAD1	-0.002787302	0.949442078	0.96323296	520	520
HIST1H3J	-0.002794436	0.949312851	0.96316516	520	458
TSPAN32	-0.002807252	0.949080696	0.96297807	520	512
C2orf28	-0.002809958	0.949031668	0.96297678	520	520
C10orf122	-0.002828288	0.948699654	0.96273678	520	51
FLJ44635	-0.002842881	0.948435338	0.96256544	520	520

NPBWR2	-0.002843191	0.948429723	0.96256544	520	23
DHX16	-0.002843966	0.948415668	0.96256544	520	520
RFC1	-0.002866569	0.948006271	0.96237217	520	520
PDCL	-0.002874334	0.947865636	0.9623263	520	520
SNORA62	-0.002896897	0.947456979	0.96195984	520	58
OR4K13	-0.002940001	0.946676322	0.96136087	520	8
DEFB107A	-0.002965351	0.946217244	0.96103987	520	9
CRYZ	-0.002965362	0.946217037	0.96103987	520	520
RFX6	-0.00297486	0.94604504	0.96096177	520	76
LIPF	-0.002979674	0.945957852	0.96092162	520	87
TRAPPC1	-0.003021109	0.945207515	0.96020779	520	520
LOC100134868	-0.003024789	0.945140877	0.96018846	520	399
SLC36A3	-0.003054564	0.944601732	0.95973852	520	170
DIS3	-0.00306423	0.944426714	0.95965633	520	520
SLC28A1	-0.003065878	0.944396867	0.95965633	520	332
RBM4B	-0.003077386	0.944188494	0.95959603	520	520
SNORA75	-0.00316974	0.942516409	0.9582464	520	14
MPPED1	-0.003222434	0.941562493	0.95742139	520	335
ISCA1	-0.003231541	0.941397639	0.95730203	520	520
OR2A14	-0.003282847	0.940468935	0.95659885	520	61
ADM	-0.00328934	0.940351407	0.95652756	520	520
EML3	-0.003304109	0.940084101	0.95635214	520	520
MYH7B	-0.003322093	0.939758591	0.95606923	520	517
CPA5	-0.003332909	0.939562841	0.95595223	520	462
PPP2R5C	-0.003340317	0.939428771	0.95591676	520	520
OR51A2	-0.003364332	0.938994126	0.95553255	520	3
UGT1A10	-0.003393121	0.93847313	0.95514699	520	351
C4orf10	-0.003404378	0.938269409	0.95498785	520	520
LYZL4	-0.003447146	0.937495486	0.95429648	520	23
MAGEB16	-0.003455959	0.937336007	0.95418231	520	58
SS18	-0.003488301	0.936750813	0.95368289	520	520
PRR5	-0.003503329	0.936478888	0.95345419	520	520
ARC	-0.003514	0.936285813	0.95335389	520	520
OR4B1	-0.003519745	0.936181869	0.95329619	520	11
TBC1D17	-0.003538921	0.935834928	0.95299103	520	520
ARTN	-0.003556055	0.935524948	0.95272349	520	520
TP53I3	-0.003576441	0.935156145	0.95254034	520	520
C20orf195	-0.003583298	0.935032092	0.95254034	520	514
ZNF714	-0.003596596	0.934791513	0.95236136	520	520
C18orf18	-0.003610991	0.934531114	0.95219229	520	518
CRYBA2	-0.003624897	0.934279565	0.95198409	520	412
ARL5C	-0.003626872	0.934243836	0.95198409	520	136
LOC441455	-0.003634997	0.934096865	0.95193564	520	469
KCNA2	-0.003659971	0.933645112	0.95152995	520	349
ONECUT2	-0.003677314	0.933331414	0.95133002	520	503
LOC284276	-0.003690998	0.933083901	0.95115028	520	443

GIT1	-0.003699475	0.932930595	0.95104209	520	520
PRAMEF13	-0.003708796	0.932762	0.9509183	520	18
PIGC	-0.003715591	0.932639098	0.95088915	520	520
FGF12	-0.00372822	0.932410691	0.95075242	520	519
C8ORFK29	-0.003766607	0.931716454	0.95023674	520	506
HMMR	-0.003767154	0.931706561	0.95023674	520	519
HIST1H4G	-0.003768673	0.931679098	0.95023674	520	10
FAM27L	-0.003834876	0.930481935	0.94936182	520	11
MAFF	-0.003843493	0.930326131	0.94925089	520	520
KLHL26	-0.00388095	0.929648867	0.94865586	520	520
TARP	-0.003887326	0.929533582	0.94858622	520	502
OR1N1	-0.003888964	0.929503963	0.94858622	520	38
PRDXDD1P	-0.003944238	0.928504671	0.94777605	520	519
NET1	-0.003955185	0.92830676	0.94770149	520	520
IFIH1	-0.003955756	0.928296436	0.94770149	520	520
NCRNA00051	-0.003972836	0.927987676	0.94751742	520	58
PTPLAD1	-0.004004477	0.927415729	0.94700009	520	520
PNPT1	-0.004025204	0.927041073	0.94666546	520	520
SIPA1L2	-0.004032438	0.926910327	0.94657988	520	520
PALMD	-0.004086335	0.925936201	0.94572878	520	520
FLJ46321	-0.004110327	0.925502607	0.94547748	520	36
OR1B1	-0.004140435	0.924958515	0.94496952	520	34
ICOSLG	-0.004182628	0.924196094	0.94433415	520	520
ADSS	-0.004212288	0.923660182	0.94388222	520	520
OR4K15	-0.004231569	0.923311835	0.94360158	520	18
C13orf35	-0.004236947	0.923214658	0.9435704	520	88
GRB2	-0.004338916	0.921372604	0.94202196	520	520
ZNF517	-0.004345329	0.921256773	0.9419513	520	520
OR4K17	-0.004353304	0.921112719	0.94185177	520	6
LOC339788	-0.004353648	0.921106508	0.94185177	520	63
TUBB1	-0.00435937	0.921003156	0.94185177	520	519
TSPYL6	-0.004366245	0.920878983	0.9418038	520	138
GTF3A	-0.004379756	0.920634953	0.94169752	520	520
RNF133	-0.00437988	0.920632722	0.94169752	520	282
LOC90784	-0.004407706	0.920130161	0.94137219	520	520
GOLGA8G	-0.004419143	0.919923601	0.94120862	520	286
RPAP1	-0.004419725	0.919913093	0.94120862	520	520
RDH16	-0.004446731	0.919425402	0.94079437	520	519
AURKAPS1	-0.004459548	0.919193945	0.94060526	520	520
CA4	-0.004464756	0.91909991	0.94055677	520	293
OTUD7A	-0.004491058	0.918624965	0.94016617	520	515
C17orf100	-0.004491623	0.918614761	0.94016617	520	520
RAD52	-0.004543109	0.917685156	0.93934735	520	520
APPL2	-0.004546285	0.917627824	0.93933635	520	520
RREB1	-0.004571244	0.917177211	0.93906577	520	520
ADAM7	-0.004578082	0.917053774	0.93898707	520	51

ICK	-0.004604841	0.916570707	0.93854294	520	520
CDY1B	-0.004621465	0.91627061	0.9384711	520	11
RPS4Y2	-0.004633997	0.9160444	0.93828707	520	143
FAM99A	-0.004659652	0.915581335	0.93790805	520	18
DDX17	-0.00470475	0.914767386	0.93731234	520	520
KCNJ16	-0.004805407	0.912951003	0.93564137	520	344
OR5D14	-0.004809607	0.912875224	0.93561126	520	5
SLC44A5	-0.004975776	0.909877708	0.93291844	520	515
NOM1	-0.004986056	0.909692302	0.93277577	520	520
PLSCR5	-0.004990558	0.909611117	0.93273996	520	86
ANGEL2	-0.004994721	0.909536038	0.9327104	520	520
ZNF181	-0.005022858	0.909028625	0.93223747	520	520
PTPN18	-0.005036914	0.908775166	0.93211976	520	520
FAM74A3	-0.005063678	0.908292553	0.93168681	520	51
UBR7	-0.005092587	0.907771307	0.93133075	520	520
TAB3	-0.005095381	0.907720943	0.93133075	520	520
WDR65	-0.005106078	0.907528074	0.93121959	520	471
CDK2	-0.005129818	0.907100086	0.9309827	520	520
CAB39L	-0.005153325	0.906676316	0.93062974	520	520
ZNF479	-0.005166577	0.906437416	0.93043189	520	47
ZBTB49	-0.005174563	0.906293468	0.93040329	520	520
HEPN1	-0.005174964	0.90628624	0.93040329	520	202
FAM189A2	-0.005219833	0.905477496	0.92968319	520	517
SEC61A2	-0.005240506	0.905104891	0.92935093	520	520
AMELY	-0.005277453	0.904439054	0.92885347	520	45
PRR25	-0.005288394	0.904241883	0.9287929	520	80
TMED3	-0.005334199	0.903416522	0.92818153	520	520
C21orf125	-0.005354706	0.903047024	0.92784918	520	520
ANKRD20A4	-0.005394042	0.902338355	0.9272093	520	247
YWHAZ	-0.005481132	0.900769614	0.92588665	520	520
WFDC11	-0.005522614	0.900022549	0.92517033	520	16
CHRN2	-0.005530848	0.899874266	0.92510782	520	491
SLC12A9	-0.005604865	0.898541503	0.92383188	520	520
CRCP	-0.005617365	0.898316452	0.92364759	520	520
ZNF670	-0.005655922	0.897622328	0.92302803	520	520
DSCAML1	-0.005690743	0.89699553	0.92247758	520	474
ZNF277	-0.005706185	0.89671757	0.9222858	520	520
CREBZF	-0.00575465	0.895845312	0.9215767	520	520
LOC286467	-0.005762943	0.895696084	0.92151721	520	495
SCML4	-0.005791502	0.895182153	0.92103546	520	505
C12orf5	-0.005811348	0.894825047	0.92071502	520	520
OXCT2	-0.005825607	0.894568494	0.92049802	520	508
KLHL2	-0.0058262	0.894557825	0.92049802	520	520
HIST2H3D	-0.005884098	0.893516169	0.91962776	520	429
SLC46A2	-0.005893775	0.893342094	0.91956455	520	502
KLHL35	-0.005911792	0.893017994	0.91937174	520	514

DEPDC5	-0.005937035	0.892563944	0.91913893	520	520
IL4	-0.005974387	0.891892151	0.91868172	520	51
LOC100240726	-0.005979042	0.891808445	0.91864243	520	162
C11orf94	-0.006013969	0.89118034	0.91804232	520	74
CHMP2B	-0.006083546	0.889929326	0.91689413	520	520
BATF	-0.006112398	0.889410649	0.91645339	520	520
SHARPIN	-0.006137701	0.888955806	0.91603152	520	520
FLJ43390	-0.0061441	0.888840786	0.91595981	520	142
C9orf71	-0.006146438	0.888798758	0.91595981	520	88
DDI1	-0.006150173	0.888731615	0.91594093	520	29
C4orf17	-0.006158254	0.888586365	0.91583804	520	136
C14orf70	-0.006162515	0.888509786	0.91580593	520	31
FAM116A	-0.006176081	0.888265958	0.91569503	520	520
KIR3DL2	-0.006187012	0.888069493	0.9155393	520	395
PRAMEF18	-0.006202621	0.887788964	0.91529689	520	66
KRTAP10-5	-0.006222603	0.887429875	0.91497346	520	9
PHGR1	-0.006249361	0.886949042	0.91457123	520	83
LOC100131691	-0.006281394	0.886373473	0.91405249	520	519
FAM75A3	-0.006286842	0.886275592	0.91401703	520	151
PGAP1	-0.006290241	0.886214522	0.9140008	520	520
PLIN4	-0.006292883	0.886167064	0.9139986	520	520
FAM122C	-0.006300551	0.886029293	0.91390325	520	520
ZBTB33	-0.006312387	0.885816655	0.91373066	520	520
TRIM49L	-0.006365164	0.884868588	0.91284612	520	90
DEFB122	-0.006379121	0.884617906	0.9126809	520	4
OR10W1	-0.006405115	0.884151038	0.91229258	520	42
SPHKAP	-0.006405148	0.884150445	0.91229258	520	124
SH3GL2	-0.006405569	0.884142892	0.91229258	520	346
IRS4	-0.006427256	0.883753405	0.91204942	520	242
ANKRD43	-0.006445651	0.883423071	0.9118214	520	485
LOC647309	-0.006465836	0.88306062	0.91149622	520	189
ZBTB9	-0.006502316	0.882405629	0.91100441	520	520
HIST1H2BA	-0.00650875	0.882290114	0.91093179	520	4
PNMT	-0.006512874	0.882216068	0.91090198	520	449
ODAM	-0.006523948	0.882017263	0.91074335	520	291
KLRA1	-0.006597977	0.880688422	0.90955754	520	515
OR4F29	-0.006684191	0.879141269	0.90819225	520	197
BTBD17	-0.006718815	0.878520065	0.90759702	520	129
RCHY1	-0.006768464	0.877629405	0.9067698	520	520
KIAA1731	-0.006789459	0.87725282	0.90656652	520	520
KRTAP19-7	-0.006792592	0.877196629	0.90655491	520	3
PSTPIP2	-0.006795013	0.877153202	0.90655491	520	520
WBP4	-0.006824984	0.876615677	0.90614028	520	520
JMJD6	-0.006833644	0.876460367	0.90607264	520	520
GABRQ	-0.006841004	0.876328372	0.90598263	520	490
DNAJC27	-0.006850909	0.876150766	0.90584546	520	520

CHI3L2	-0.006871185	0.875787176	0.90551598	520	520
HDAC4	-0.006880382	0.875622274	0.9053919	520	520
ELSPBP1	-0.00688233	0.875587336	0.9053919	520	81
RFWD3	-0.006884875	0.875541702	0.9053919	520	520
ERCC5	-0.00690883	0.875112204	0.90509656	520	520
GPX6	-0.006916299	0.874978299	0.90500448	520	34
OR2J3	-0.006935295	0.874637742	0.90477914	520	42
ATXN3	-0.006969891	0.874017587	0.90422335	520	520
CRBN	-0.007017317	0.873167566	0.90354874	520	520
TOP2A	-0.007019966	0.873120081	0.90354597	520	520
SNORA78	-0.007025976	0.87301239	0.9034809	520	3
FCN2	-0.007026256	0.873007359	0.9034809	520	65
CHCHD3	-0.007038997	0.872779028	0.90333212	520	520
ABHD6	-0.007067884	0.872261408	0.90293542	520	520
GRK1	-0.007070788	0.872209374	0.90292791	520	113
PAX1	-0.007082953	0.8719914	0.90274861	520	473
PAK1	-0.007103685	0.871619947	0.90241038	520	520
FBXO4	-0.007127446	0.871194275	0.90201599	520	520
LOC100190940	-0.007127685	0.871189989	0.90201599	520	230
ZNF26	-0.007215475	0.869617532	0.90061468	520	520
C14orf106	-0.007232976	0.869304123	0.90042885	520	520
C10orf32	-0.007236538	0.869240338	0.90040903	520	520
RGPD8	-0.007289663	0.868289116	0.89960856	520	85
LOC100129716	-0.007294005	0.868211381	0.89957424	520	519
IFNA7	-0.007320054	0.867745029	0.89918345	520	12
FXYD4	-0.007321528	0.867718643	0.89918345	520	203
C6orf103	-0.007336803	0.867445211	0.89901137	520	186
GSTM3	-0.007348328	0.867238921	0.89884377	520	520
PCGEM1	-0.007392907	0.866441025	0.89806296	520	15
NOX3	-0.0074057	0.866212093	0.89790158	520	16
VMO1	-0.00741206	0.866098268	0.89790101	520	520
TCEANC	-0.007418544	0.865982241	0.89786435	520	520
FAM188B	-0.007430793	0.865763056	0.89768326	520	520
LOC339535	-0.007445565	0.865498726	0.89745533	520	455
ZNF80	-0.0074574	0.865286959	0.89728188	520	453
SCGN	-0.00748521	0.864789405	0.89681205	520	109
FAM154B	-0.007487039	0.864756694	0.89681205	520	516
C9orf66	-0.007511487	0.864319334	0.89641678	520	503
SMS	-0.00752631	0.864054187	0.89618788	520	520
FBXO33	-0.007527594	0.86403121	0.89618788	520	520
ITGAD	-0.007569034	0.86329002	0.89557956	520	412
LOC729603	-0.007576412	0.863158077	0.89548876	520	520
KAT2B	-0.007604997	0.862646887	0.89509823	520	520
POLA1	-0.007608503	0.862584189	0.89509823	520	520
IFNA17	-0.007654064	0.861769552	0.89432431	520	10
USP16	-0.00765616	0.861732078	0.89432431	520	520

ZNF622	-0.007688309	0.861157358	0.89385776	520	520
STMN4	-0.00771317	0.860712964	0.89350372	520	292
OR52B2	-0.007727373	0.86045909	0.89333215	520	33
KCNJ13	-0.007737064	0.860285884	0.89319832	520	331
SNX4	-0.007765113	0.859784602	0.8927698	520	520
ZFYVE28	-0.007782752	0.8594694	0.89252699	520	520
IARS2	-0.007815194	0.858889723	0.89207028	520	520
HYAL3	-0.007820917	0.858787463	0.89201382	520	520
IL1B	-0.007842337	0.858404787	0.89188819	520	520
UBQLNL	-0.007886826	0.857610054	0.89120022	520	497
SNORA5B	-0.007909208	0.857210285	0.89083071	520	6
TRNT1	-0.007917204	0.857067492	0.89075899	520	520
C10orf140	-0.007919619	0.857024348	0.89075899	520	519
LQK1	-0.007988521	0.85579398	0.88972569	520	518
PUM2	-0.008019634	0.855238514	0.88928576	520	520
STARD6	-0.008041422	0.854849573	0.88899391	520	97
NCAPD3	-0.008062632	0.854470976	0.88871681	520	520
CNO	-0.008134062	0.853196224	0.88771149	520	520
FOXI2	-0.008143681	0.85302458	0.8875787	520	342
SERPINB7	-0.008152792	0.852862013	0.88745534	520	518
GHSR	-0.008163075	0.852678547	0.88740182	520	84
OR52J3	-0.008179445	0.8523865	0.88714367	520	13
SPACA3	-0.008209885	0.851843484	0.88667004	520	168
CDK5R1	-0.008220016	0.851662761	0.88652769	520	520
DUSP21	-0.008257284	0.850998063	0.8859124	520	27
SSX2IP	-0.00825866	0.850973535	0.8859124	520	520
ATP6V0E2	-0.008266387	0.850835726	0.88584972	520	520
OR13C4	-0.008269448	0.850781135	0.88583863	520	12
VEGFA	-0.008272641	0.850724199	0.88582508	520	520
C22orf46	-0.008275727	0.85066916	0.88581352	520	520
SDF2L1	-0.008298451	0.850263946	0.88543729	520	520
FAM105B	-0.008310917	0.850041665	0.88535784	520	520
CDH7	-0.00833248	0.84965722	0.88507972	520	125
KCNQ2	-0.00834456	0.84944186	0.88499254	520	248
RFPL1	-0.008344818	0.849437257	0.88499254	520	425
LRRC7	-0.008383302	0.848751243	0.88436441	520	378
SMYD2	-0.008448887	0.84758238	0.88323778	520	520
ZFP3	-0.00845226	0.847522274	0.88323778	520	520
AGBL5	-0.008508254	0.846524622	0.88240914	520	520
OR10V1	-0.008527719	0.84617786	0.88213889	520	58
TCEA1	-0.008534381	0.846059188	0.88206078	520	520
TOM1	-0.00854114	0.845938796	0.88198086	520	520
NIPAL3	-0.0085521	0.845743583	0.88186853	520	520
GPR35	-0.008608695	0.844735675	0.88095424	520	520
TRIM10	-0.008666545	0.843705662	0.8800166	520	352
GHRL	-0.008678197	0.843498241	0.87984577	520	477

SLC27A3	-0.008691384	0.8432635	0.87969192	520	520
ZNF607	-0.008713901	0.842862707	0.87936481	520	520
CALY	-0.008716332	0.842819433	0.87936481	520	200
NOTO	-0.008744741	0.842313837	0.87897408	520	181
C17orf46	-0.008762268	0.842001932	0.87878504	520	439
RBM3	-0.008767595	0.841907143	0.87873159	520	520
ZNF75D	-0.008777615	0.841728849	0.87862213	520	520
KLRF1	-0.008811569	0.841124718	0.87809675	520	464
APOBEC3D	-0.0088156	0.84105301	0.87806735	520	519
DYRK1B	-0.008822378	0.840932426	0.87798692	520	520
CLDN16	-0.00884624	0.840507944	0.87763462	520	495
PPP1R3G	-0.008905546	0.839453161	0.87666944	520	520
SMR3B	-0.008908824	0.839394868	0.87665397	520	96
TUBA4B	-0.008954422	0.838584095	0.87585257	520	444
SART3	-0.008962238	0.838445131	0.87576799	520	520
OR51B5	-0.008993037	0.837897609	0.87540764	520	146
PNMA5	-0.008996483	0.837836354	0.875389	520	428
LCE4A	-0.008999434	0.837783901	0.87537955	520	42
RIPK3	-0.009002692	0.837725989	0.8753644	520	519
C6orf81	-0.009010143	0.837593547	0.87527137	520	470
TM2D2	-0.009030569	0.837230497	0.87498268	520	520
LOC728613	-0.009058872	0.836727503	0.87479322	520	520
IGFBP6	-0.009107311	0.835866826	0.87401051	520	520
KNG1	-0.009181973	0.834540579	0.87303119	520	209
TTF2	-0.009256368	0.833219533	0.87173967	520	520
LONRF1	-0.009282807	0.83275016	0.87138424	520	520
C10orf119	-0.009298163	0.832477579	0.87114422	520	520
DHX35	-0.009331923	0.831878381	0.87060755	520	520
DGKB	-0.009344558	0.831654152	0.87041806	520	412
CYP21A2	-0.00935098	0.83154018	0.87034395	520	504
MSTO1	-0.009355197	0.831465352	0.87031081	520	520
ALG5	-0.0093645	0.831300254	0.87018317	520	520
OR10Q1	-0.009426463	0.830200913	0.86907752	520	64
CBS	-0.009463027	0.829552343	0.86844367	520	520
CDNF	-0.00950147	0.828870577	0.86782005	520	520
C18orf62	-0.009501742	0.828865759	0.86782005	520	65
C11orf2	-0.009506767	0.828776649	0.86781183	520	520
HSD17B13	-0.009510451	0.828711324	0.86778849	520	451
KIF23	-0.009517234	0.828591039	0.86770786	520	520
FAM75A2	-0.009524169	0.82846808	0.86768208	520	232
SNORA8	-0.009538747	0.8282096	0.86748836	520	520
IRX6	-0.009541637	0.828158367	0.86747976	520	486
C9orf144	-0.009552673	0.827962722	0.86731988	520	185
ABCB7	-0.00955872	0.827855519	0.86725263	520	520
CIB4	-0.009570936	0.827638954	0.86707081	520	30
DDX43	-0.009583851	0.827410025	0.86687601	520	473

POM121L10P	-0.009648619	0.826262139	0.86594334	520	447
LOC728392	-0.009687009	0.825581945	0.86536541	520	520
C16orf89	-0.009700098	0.82535005	0.86521794	520	441
IFT74	-0.009710199	0.825171115	0.86520464	520	520
C20orf203	-0.009713948	0.825104706	0.86520464	520	289
ZNF48	-0.009747128	0.824517001	0.86469864	520	520
PEX19	-0.009759879	0.824291161	0.86450676	520	520
XDH	-0.009781435	0.823909434	0.86415136	520	520
MYLK4	-0.00978385	0.823866664	0.86415136	520	518
LOC100133308	-0.009806677	0.823462467	0.86377242	520	115
ZNF613	-0.009813903	0.823334519	0.86370208	520	520
TMEM179B	-0.009866535	0.822402783	0.86279551	520	520
TSNARE1	-0.009882434	0.822121381	0.86259005	520	520
PDHA2	-0.009924725	0.821372935	0.8618496	520	77
TBL1XR1	-0.009964898	0.820662135	0.86119821	520	520
LOC285627	-0.010020847	0.819672453	0.86028916	520	15
BAZ1A	-0.010024863	0.81960142	0.86025938	520	520
PLEKHA1	-0.010033882	0.819441918	0.8602263	520	520
C19orf61	-0.010037517	0.819377632	0.8602036	520	520
LYN	-0.010052559	0.819111629	0.85996912	520	520
AADAACL3	-0.010064771	0.818895672	0.85978716	520	213
RBP5	-0.010127736	0.817782481	0.85882321	520	515
TET2	-0.010168831	0.817056128	0.85821325	520	520
OR5H15	-0.010187351	0.816728844	0.85795886	520	3
BTN1A1	-0.010203979	0.816435032	0.8576949	520	329
ZNF628	-0.010220748	0.816138727	0.85756234	520	520
HSD17B12	-0.010253699	0.815556603	0.85703999	520	520
SELV	-0.010310524	0.814552935	0.85616375	520	129
LPO	-0.010311423	0.81453706	0.85616375	520	343
CTNBNB1	-0.010333533	0.814146638	0.85587054	520	520
OSTN	-0.010373547	0.81344015	0.85521702	520	32
SLC22A24	-0.010390838	0.813134919	0.85494069	520	12
OR5V1	-0.010411371	0.81277249	0.85460419	520	13
OR9A2	-0.010427284	0.812491635	0.85435343	520	18
C7orf72	-0.010450302	0.812085426	0.85401536	520	42
CNOT1	-0.010477259	0.811609756	0.85369323	520	520
DAB2IP	-0.010491572	0.811357229	0.85351665	520	520
SNAP29	-0.010501997	0.811173314	0.8533677	520	520
FUZ	-0.010543189	0.810446709	0.85273677	520	520
SSBP4	-0.010544665	0.810420676	0.85273677	520	520
YRDC	-0.010548342	0.810355826	0.85273014	520	520
C20orf173	-0.010563132	0.810094987	0.85272235	520	74
STOML1	-0.010571266	0.809951538	0.85261617	520	520
OR56A4	-0.010591543	0.809593964	0.85228426	520	31
FLJ35390	-0.01059847	0.809471821	0.85224466	520	520
LOC149620	-0.010628094	0.808949526	0.8518282	520	45

SLITRK1	-0.010630099	0.808914178	0.8518282	520	178
HRNBP3	-0.010652387	0.808521285	0.85146619	520	386
C19orf40	-0.010706988	0.807558984	0.85064316	520	520
ASNSD1	-0.010713728	0.80744021	0.85060214	520	520
COL9A1	-0.010714236	0.80743126	0.85060214	520	341
LRRC37A3	-0.010718211	0.807361217	0.85060214	520	520
TBX20	-0.01073965	0.806983472	0.85033522	520	164
IL2	-0.010775115	0.80635868	0.84976568	520	184
XAGE5	-0.010825818	0.805465672	0.84900208	520	17
OR11H12	-0.01084735	0.805086523	0.84873554	520	50
ZNF821	-0.010859395	0.804874426	0.84855631	520	520
NCRNA00164	-0.010869815	0.804690968	0.84840725	520	224
AS3MT	-0.010883254	0.804454381	0.84820216	520	519
LCE1F	-0.010900844	0.804144726	0.84792	520	374
IL9	-0.010922949	0.803755643	0.84759839	520	29
SNORA18	-0.010927896	0.803668575	0.8475509	520	134
PPP2R1A	-0.010932447	0.803588477	0.84751075	520	520
RLN2	-0.010937098	0.803506628	0.84746875	520	415
WDHD1	-0.010939253	0.803468708	0.84746875	520	520
FKSG83	-0.010942465	0.803412183	0.84746875	520	29
C9orf171	-0.010943453	0.803394784	0.84746875	520	259
KREMEN1	-0.010965385	0.803008847	0.8471653	520	520
CER1	-0.011017937	0.802084258	0.84627842	520	138
DCAKD	-0.011034381	0.801794998	0.84606177	520	520
SPATA1	-0.011077694	0.801033248	0.84547919	520	464
OR2V2	-0.011079772	0.800996713	0.84547919	520	38
GLYR1	-0.01109686	0.800696224	0.84521195	520	520
RAX	-0.011104616	0.800559849	0.84511223	520	240
FBXO15	-0.011107421	0.800510536	0.84510442	520	495
TNFAIP8L3	-0.011145485	0.799841364	0.84457485	520	520
CDH12	-0.011159735	0.79959088	0.84435457	520	430
GFRA4	-0.011163034	0.79953291	0.84433757	520	43
LHFPL1	-0.011169354	0.799421817	0.84430869	520	376
VIL1	-0.011205965	0.798778419	0.84378485	520	307
TRIM39	-0.011225063	0.798442839	0.84358089	520	520
LOC93432	-0.01124429	0.79810505	0.84327134	520	80
CDADC1	-0.011277756	0.797517156	0.84282683	520	520
SLC37A4	-0.011287307	0.797349402	0.84273788	520	520
IFT20	-0.011297903	0.7971633	0.84258535	520	520
PTBP2	-0.011303097	0.797072086	0.84253311	520	520
HIATL1	-0.011307502	0.796994721	0.84249549	520	520
OR7A17	-0.011324918	0.796688884	0.84221635	520	5
CD247	-0.011335274	0.796507035	0.84206826	520	520
ELL2	-0.011354075	0.796176931	0.84180754	520	520
TATDN2	-0.011355122	0.79615855	0.84180754	520	520
UBN1	-0.011374272	0.79582235	0.84152089	520	520

OR52E6	-0.01139824	0.795401631	0.84116424	520	26
OR6N1	-0.011427599	0.794886348	0.84070749	520	15
GSDMA	-0.011453567	0.794430669	0.84035778	520	519
MAP1LC3A	-0.011460276	0.794312952	0.84028558	520	520
RNASET2	-0.011467064	0.79419385	0.84026091	520	520
LOC90110	-0.011467636	0.794183813	0.84026091	520	520
GTF2H2	-0.011513256	0.793383512	0.83960245	520	520
LTK	-0.011532622	0.793043833	0.83933109	520	517
SPATA18	-0.011559502	0.792572445	0.83892025	520	520
FAM75A5	-0.011570952	0.792371658	0.83875175	520	68
OR10H4	-0.01158397	0.792143414	0.83859819	520	21
MTMR4	-0.011598451	0.791889513	0.83841744	520	520
OR8J1	-0.011621754	0.79148101	0.83811696	520	7
TTC23	-0.011625539	0.791414672	0.83809072	520	520
CLCA2	-0.011644729	0.791078305	0.83786007	520	520
CA6	-0.011703931	0.790040869	0.83698755	520	331
IQGAP3	-0.011719546	0.789767301	0.83678566	520	520
PKHD1L1	-0.011722488	0.789715764	0.83677502	520	438
ALDH8A1	-0.011739487	0.789417985	0.83650346	520	512
SP140L	-0.011758704	0.789081391	0.83619073	520	520
GPHB5	-0.011830707	0.787820553	0.83494238	520	22
ACSM3	-0.0118633	0.787250003	0.83446928	520	518
NBPF22P	-0.011863597	0.787244809	0.83446928	520	95
INSL3	-0.011873355	0.787074012	0.83437045	520	494
C3orf17	-0.011934153	0.786010094	0.83337404	520	520
ZMYM6	-0.011992189	0.784994883	0.83258948	520	520
UPF1	-0.012008188	0.784715093	0.83243872	520	520
AQP8	-0.012039799	0.78416233	0.83207121	520	335
CENPO	-0.012046885	0.784038443	0.83198354	520	520
DDX59	-0.01212922	0.782599297	0.8305438	520	520
LOC286135	-0.012133118	0.782531172	0.83051521	520	55
FLJ39609	-0.012151045	0.782217926	0.83027016	520	32
GTF2H2B	-0.012158119	0.782094329	0.83019853	520	517
MUT	-0.012179025	0.781729105	0.82988237	520	520
GPR149	-0.012180641	0.781700875	0.82988237	520	210
PPP1R2	-0.012190312	0.781531928	0.82976041	520	520
NCRNA00169	-0.012222707	0.78096611	0.82920334	520	511
OR6C1	-0.012272177	0.780102275	0.82832977	520	4
FAM71F2	-0.012281803	0.779934219	0.82819493	520	493
TMEM178	-0.012298522	0.779642367	0.82797223	520	494
CIZ1	-0.012300579	0.779606456	0.82797223	520	520
ANO8	-0.012316447	0.779329471	0.82772712	520	520
RBM19	-0.012332179	0.779054911	0.8274791	520	520
SFMBT1	-0.012354708	0.778661759	0.82714865	520	520
OR51I2	-0.012355358	0.778650414	0.82714865	520	27
LOC285401	-0.01237363	0.778331583	0.82688504	520	120

H2AFY2	-0.012382654	0.778174148	0.82680491	520	520
OR13C5	-0.012401558	0.777844347	0.82649805	520	5
OR51A4	-0.012402379	0.777830025	0.82649805	520	8
C11orf36	-0.012406202	0.777763331	0.82649805	520	57
RND2	-0.012407193	0.777746043	0.82649805	520	518
IL34	-0.012412794	0.777648346	0.82646399	520	520
ETV4	-0.012422367	0.777481372	0.82637364	520	520
AAA1	-0.012425195	0.777432037	0.82636476	520	168
MTERFD1	-0.012431535	0.777321466	0.82636476	520	520
PHGDH	-0.012468832	0.776671037	0.82581706	520	520
INE1	-0.012483022	0.776423603	0.82559751	520	519
RMND1	-0.012490398	0.776295003	0.82550429	520	520
SNORA16A	-0.012594564	0.774479525	0.82379096	520	34
SPIN2B	-0.012615578	0.774113432	0.82348843	520	519
IRF2BP2	-0.012637309	0.773734885	0.82318146	520	520
C17orf97	-0.012642531	0.773643926	0.82316269	520	520
HIST1H2AG	-0.012696317	0.772707282	0.82233966	520	517
FOXD2	-0.012709226	0.772482533	0.82214387	520	520
SGK3	-0.012733691	0.772056634	0.82182072	520	520
WBSCR28	-0.012760673	0.771586984	0.82145089	520	341
SMG7	-0.012794835	0.770992495	0.82090467	520	520
MFSD9	-0.01280754	0.770771442	0.82071832	520	520
C17orf88	-0.012812149	0.77069125	0.82071832	520	192
SCARNA21	-0.012851594	0.770005073	0.82011316	520	10
BAHD1	-0.012855093	0.769944222	0.82009166	520	520
TUBGCP6	-0.012859593	0.769865956	0.82005162	520	520
ATXN8OS	-0.012907777	0.769028038	0.81928892	520	3
APOC3	-0.012924533	0.768736727	0.81908179	520	60
BPIL2	-0.012931314	0.768618826	0.81902605	520	471
FAHD2A	-0.012932645	0.768595699	0.81902605	520	520
IL1RL2	-0.0129331	0.768587783	0.81902605	520	520
SSBP2	-0.012945741	0.768368046	0.81888865	520	520
AGBL3	-0.012948885	0.768313401	0.81887369	520	495
MIPOL1	-0.012950703	0.768281787	0.81887369	520	519
NRD1	-0.012956557	0.768180048	0.81886141	520	520
NPVF	-0.01299718	0.767474054	0.81823861	520	10
GUSB	-0.013033344	0.766845713	0.81769841	520	520
ID2B	-0.013035683	0.766805087	0.81769833	520	481
GSTT1	-0.013042767	0.766682031	0.81765359	520	473
LAT	-0.013052364	0.766515315	0.81751903	520	520
SPG7	-0.013079519	0.76604367	0.8171889	520	520
E2F4	-0.013111764	0.765483743	0.81663479	520	520
MAK16	-0.013155623	0.764722308	0.81595198	520	520
MC4R	-0.013175304	0.764380719	0.81571701	520	235
GNPDA1	-0.013178566	0.764324097	0.81569975	520	520
SMPD4	-0.013179694	0.764304528	0.81569975	520	520

CSF3	-0.013224756	0.763522572	0.8150169	520	514
GC	-0.013231127	0.763412045	0.81494206	520	72
SCP2	-0.013243172	0.763203088	0.81476213	520	520
OR2A5	-0.013261455	0.76288593	0.81446666	520	17
HAUS2	-0.013290978	0.762373891	0.81401289	520	520
C1orf89	-0.013293549	0.762329309	0.81401289	520	520
DDX52	-0.01332184	0.761838733	0.81360713	520	520
AFM	-0.013322	0.761835962	0.81360713	520	54
FAM157B	-0.013322506	0.761827196	0.81360713	520	451
KLHL32	-0.013324644	0.761790132	0.81360713	520	440
LOC200726	-0.013383948	0.760762123	0.81267257	520	168
CCL27	-0.01338683	0.760712169	0.81266226	520	431
SLC7A4	-0.013392663	0.760611086	0.81259733	520	501
RPGRIP1	-0.013415026	0.760223559	0.81229656	520	474
PHOX2B	-0.013427194	0.760012736	0.81220578	520	71
C20orf43	-0.013438729	0.759812896	0.81209899	520	520
CSTT	-0.01347134	0.759247998	0.81165712	520	43
LCN8	-0.013478072	0.759131386	0.81157549	520	123
CD320	-0.013486871	0.758979007	0.8114556	520	520
PPP3R2	-0.013510474	0.758570259	0.8110616	520	141
C1orf123	-0.013518921	0.758423998	0.81094822	520	520
SP1	-0.013525346	0.758312757	0.81094822	520	520
RTEL1	-0.013566361	0.757602735	0.81041387	520	520
GOLGA8E	-0.013585126	0.757277953	0.81010943	520	64
TGFA	-0.01363606	0.756396611	0.80933835	520	520
LOC154761	-0.013724233	0.754871642	0.80783525	520	520
NSUN2	-0.013762516	0.754209825	0.80721268	520	520
ITIH2	-0.013830839	0.753029143	0.80612018	520	215
PRMT3	-0.013886417	0.752069137	0.80522073	520	520
LOC441089	-0.013908163	0.751693618	0.80490415	520	520
C3P1	-0.01391057	0.751652056	0.80490239	520	33
C22orf40	-0.01391617	0.75155536	0.80484159	520	520
KIF5B	-0.013961455	0.750773594	0.80413252	520	520
RTP3	-0.01397517	0.750536885	0.80404982	520	351
PIGW	-0.014050416	0.749238589	0.80291491	520	520
PROKR2	-0.01405779	0.749111396	0.80282127	520	43
MT1G	-0.01409686	0.748437587	0.80218442	520	520
FAM120C	-0.014180686	0.746992572	0.80084848	520	520
ST8SIA6	-0.014199123	0.74667487	0.80059301	520	433
TRIM43	-0.014199322	0.746671437	0.80059301	520	125
ZBTB8B	-0.014202488	0.746616889	0.80059301	520	206
C2orf62	-0.014219667	0.746320906	0.80034116	520	372
DKFZp434L192	-0.01422281	0.746266766	0.80034116	520	14
PARP1	-0.01422462	0.746235576	0.80034116	520	520
ANKFN1	-0.014287311	0.745155828	0.79934682	520	335
UPK3A	-0.014292292	0.745070047	0.79931499	520	394

PAH	-0.014309054	0.744781451	0.7991976	520	253
LOC440925	-0.014345324	0.744157069	0.79857281	520	461
SERTAD2	-0.014359261	0.743917206	0.7983579	520	520
PEX2	-0.014370078	0.74373105	0.79824309	520	520
DCAF16	-0.014374654	0.743652296	0.79824309	520	520
COPS2	-0.014377511	0.74360314	0.79823327	520	520
VHL	-0.014400405	0.743209202	0.79789534	520	520
PRAMEF4	-0.014427921	0.742735847	0.79751454	520	98
CXCR5	-0.014480918	0.741824383	0.79666313	520	515
DNAJA2	-0.014482004	0.741805724	0.79666313	520	520
GJB6	-0.014522622	0.741107414	0.79610516	520	520
CDKN1B	-0.01454086	0.740793926	0.7958108	520	520
ZNF595	-0.014548058	0.740670218	0.7957203	520	520
CDC14B	-0.014575833	0.740192925	0.79534883	520	520
GPR148	-0.01462137	0.739410627	0.79470412	520	32
POLR1B	-0.014626664	0.739319683	0.79465043	520	520
TTY2	-0.01464311	0.739037226	0.79438918	520	53
DDX42	-0.014664737	0.738665842	0.79411698	520	520
OR3A2	-0.014665548	0.73865191	0.79411698	520	179
ESPNP	-0.014676878	0.738457376	0.79401986	520	280
NMUR2	-0.01469951	0.738068839	0.79368674	520	293
KIAA1486	-0.014700172	0.738057463	0.79368674	520	416
TTLL8	-0.014707142	0.737937826	0.7936305	520	51
LOC415056	-0.014715086	0.737801466	0.7935685	520	67
OR9G9	-0.014738017	0.73740789	0.79322981	520	23
ZNF200	-0.014763671	0.736967687	0.79288317	520	520
OR4P4	-0.014773182	0.736804495	0.7927499	520	4
GKN1	-0.014791752	0.736485917	0.7924917	520	197
HIST1H4K	-0.014794891	0.736432071	0.79247605	520	180
ACSL5	-0.014815814	0.736073179	0.79213212	520	520
SASH1	-0.014818506	0.736027007	0.79212471	520	520
C11orf58	-0.014836788	0.735713473	0.79189793	520	520
SLC3A1	-0.014846704	0.735543439	0.79177332	520	486
TTC27	-0.014879204	0.734986223	0.79129258	520	520
RXRБ	-0.014890594	0.734790968	0.79113227	520	520
STYX	-0.014907735	0.734497176	0.79085818	520	520
FAM76A	-0.014924827	0.734204249	0.79062721	520	520
FLJ35220	-0.014936729	0.734000294	0.79049201	520	520
TTC21A	-0.014939506	0.733952707	0.79048298	520	520
EIF1AD	-0.01497839	0.733286537	0.78984988	520	520
LRRC28	-0.015017489	0.732616862	0.78925503	520	520
BEST4	-0.015034666	0.732322732	0.78898031	520	513
OR52D1	-0.015038298	0.732260548	0.78895547	520	61
LRIT2	-0.015044767	0.732149791	0.78892045	520	402
CLLU1	-0.015056796	0.731943857	0.78878285	520	405
FAM183B	-0.01506283	0.73184056	0.78875583	520	387

CYP3A43	-0.015081728	0.731517066	0.78844933	520	150
SRR	-0.015098633	0.731227747	0.78822176	520	520
CHRNA5	-0.015100315	0.731198948	0.78822176	520	520
GNG4	-0.015157397	0.730222283	0.78730628	520	520
CHEK1	-0.015189252	0.729677449	0.78684508	520	520
LOC643837	-0.015295174	0.727866738	0.78497646	520	520
GNG13	-0.015355283	0.726839876	0.78403677	520	148
EFNA1	-0.015371238	0.726567395	0.78382671	520	520
CFDP1	-0.01539657	0.726134837	0.78344389	520	520
SCGBL	-0.015454343	0.725148647	0.78254735	520	188
FARP2	-0.015473651	0.724819169	0.78229008	520	520
USP17L2	-0.015480506	0.724702198	0.7822749	520	148
C7orf61	-0.015504408	0.724294421	0.78191844	520	518
SESN2	-0.015540157	0.723684662	0.78134384	520	520
ATOH1	-0.015552961	0.723466297	0.7811499	520	62
GPX5	-0.015559157	0.723360651	0.78107766	520	27
TRMT11	-0.015581096	0.72298659	0.78084101	520	520
ANKRD46	-0.015586927	0.722887171	0.78077545	520	520
FAM172A	-0.015604385	0.722589576	0.78059114	520	520
SCARNA9L	-0.015627367	0.722197865	0.78028172	520	146
SCGB1D4	-0.01563009	0.722151462	0.78027339	520	8
OR14J1	-0.015648244	0.721842115	0.77998094	520	8
TMEM49	-0.015653253	0.721756761	0.77993051	520	520
CCDC148	-0.015667993	0.721505624	0.77974271	520	493
LOC100129726	-0.015691694	0.721101872	0.77943169	520	492
OR6K2	-0.015723005	0.720568618	0.77893881	520	11
SNORA13	-0.015772373	0.719728078	0.77815533	520	15
TACR3	-0.015802126	0.719221681	0.77767888	520	115
LCA5L	-0.015812055	0.719052716	0.77759192	520	520
OSR2	-0.015814443	0.719012074	0.77758967	520	520
GYPB	-0.015818393	0.718944859	0.77755869	520	7
RDH14	-0.01583657	0.718635599	0.77734353	520	520
ZNF383	-0.015840646	0.718566251	0.77734353	520	520
GK2	-0.015858131	0.718268802	0.77711929	520	13
C12orf42	-0.015868817	0.718087038	0.77696432	520	423
LOC284749	-0.0158692	0.718080517	0.77696432	520	419
SSPO	-0.015886663	0.717783511	0.77671926	520	497
CYB5R4	-0.015893806	0.71766204	0.77662949	520	520
LCE2B	-0.015924852	0.717134161	0.77622488	520	303
DAZ1	-0.015993434	0.715968528	0.77508802	520	163
PPP1R11	-0.015997722	0.715895668	0.77505075	520	520
MBD3L5	-0.016007042	0.715737322	0.77492093	520	44
RRS1	-0.016007616	0.715727568	0.77492093	520	520
FAM47E	-0.016014515	0.715610356	0.77486668	520	486
EIF3E	-0.016041647	0.715149476	0.77445081	520	520
ASB9	-0.016070675	0.714656503	0.77395852	520	519

TRAF3IP2	-0.016080471	0.714490169	0.77381995	520	520
CA5BP	-0.016241499	0.711757873	0.77119214	520	520
DNAJB8	-0.016278718	0.711126859	0.77063266	520	38
OR4X2	-0.016284097	0.71103568	0.77061489	520	18
UGT2B15	-0.016293485	0.710876568	0.77048566	520	362
UNC5CL	-0.0163552	0.709830823	0.76951767	520	518
TMEM175	-0.016401579	0.7090453	0.76895549	520	520
DNM2	-0.016413588	0.708841955	0.76877631	520	520
SDCCAG1	-0.016429021	0.708580673	0.76853427	520	520
DBT	-0.016466322	0.707949271	0.76797338	520	520
PRAMEF10	-0.01650465	0.707300702	0.7673111	520	47
GLRA1	-0.016509664	0.707215873	0.76726035	520	78
CSAG1	-0.016569484	0.706204097	0.7662039	520	402
DEFB116	-0.016572671	0.706150202	0.76618665	520	3
DYNLT3	-0.016580459	0.706018526	0.766085	520	520
FLJ40504	-0.01658293	0.705976753	0.7660809	520	152
C14orf165	-0.016631841	0.705149955	0.76522489	520	8
GLUD1	-0.016662807	0.704626694	0.76473936	520	520
C12orf57	-0.016670161	0.704502437	0.76472799	520	520
RNASEK	-0.016670429	0.704497915	0.76472799	520	520
GPR83	-0.016690941	0.704151393	0.76451156	520	485
CN5H6.4	-0.016702699	0.703952805	0.76437826	520	519
IFI44L	-0.01671119	0.703809392	0.7642637	520	520
LRRC14	-0.016717364	0.703705112	0.76423277	520	520
BRD1	-0.016718424	0.703687221	0.76423277	520	520
SBK1	-0.01673951	0.703331147	0.76399123	520	520
FLJ43859	-0.016750258	0.703149686	0.76383527	520	60
MKI67	-0.016756835	0.703038644	0.76375579	520	520
SCAF1	-0.016763075	0.702933301	0.76368249	520	520
SIGLEC11	-0.016768104	0.702848406	0.76363141	520	479
TMEM51	-0.016770496	0.702808039	0.76362869	520	520
EGLN1	-0.016821445	0.70194819	0.76298223	520	520
BPIL3	-0.016830758	0.701791068	0.76285257	520	62
KYNU	-0.016861797	0.701267462	0.7624067	520	520
LOC150185	-0.01686965	0.701135019	0.76234492	520	121
ZNF311	-0.016884606	0.700882785	0.76215286	520	514
SNORA53	-0.016911079	0.700436418	0.76170855	520	377
OR4M1	-0.016944284	0.699876672	0.76114089	520	30
GPHN	-0.016971623	0.699415942	0.76080396	520	520
OR51B6	-0.01701382	0.698705014	0.76015366	520	24
QRFP	-0.017035749	0.698335673	0.75979283	520	450
C10orf120	-0.017078249	0.697620056	0.75917809	520	52
C15orf53	-0.01708828	0.697451198	0.75907626	520	345
TEX13A	-0.017110554	0.697076293	0.75875014	520	33
ST7OT1	-0.017120015	0.696917064	0.75865873	520	520
ORMDL3	-0.01714456	0.696504045	0.758291	520	520

SLC35B1	-0.017158936	0.696262181	0.75806861	520	520
PAAF1	-0.017171959	0.696043111	0.75788957	520	520
OR2W5	-0.017204834	0.695490212	0.75735079	520	9
KIAA1737	-0.017205578	0.695477701	0.75735079	520	520
TRAF3IP3	-0.017218336	0.695263167	0.75718534	520	520
RNF212	-0.017230726	0.69505486	0.75704025	520	506
LOC400696	-0.017236118	0.694964206	0.7569824	520	462
S100A5	-0.017237073	0.694948153	0.7569824	520	471
ADAMTSL4	-0.017262823	0.694515311	0.75665694	520	520
TXNDC11	-0.017302109	0.69385513	0.75598634	520	520
PCLO	-0.017319799	0.693557942	0.7558181	520	511
UROS	-0.0173255	0.693462174	0.75575458	520	520
GOT1L1	-0.017335155	0.6933	0.75561868	520	9
SAP30	-0.017348064	0.693083176	0.75550487	520	520
PHOX2A	-0.017381269	0.69252561	0.75497872	520	114
NOV	-0.017390579	0.692369306	0.75484913	520	520
C1orf189	-0.017397045	0.692260757	0.75481241	520	147
ZNF488	-0.017399423	0.692220822	0.75481241	520	520
SLC18A3	-0.017409604	0.692049929	0.75470496	520	239
GPR15	-0.017427081	0.691756603	0.75454193	520	466
PISRT1	-0.017469295	0.691048266	0.75397961	520	16
ELAC2	-0.017532643	0.689985823	0.75302415	520	520
SDC4P	-0.017543993	0.689795541	0.75285723	520	18
IQCF2	-0.017568798	0.689379724	0.75244412	520	49
TBC1D15	-0.017573306	0.689304177	0.75240239	520	520
SNORA74B	-0.017574752	0.68927993	0.75240239	520	125
INTS12	-0.017582384	0.689152028	0.75231777	520	520
EIF2B2	-0.017584385	0.689118484	0.75231777	520	520
OR5M3	-0.017600035	0.688856226	0.75207629	520	4
SSB	-0.017621013	0.688504745	0.75181467	520	520
SLAMF7	-0.01763699	0.688237101	0.75164453	520	520
IQCF6	-0.017648391	0.688046142	0.75147668	520	33
OPA1	-0.017654756	0.687939528	0.75140093	520	520
LRRC69	-0.017686518	0.68740765	0.75086066	520	489
ALX3	-0.017702668	0.687137268	0.75060599	520	518
SLC19A2	-0.017713362	0.686958261	0.75049176	520	520
POU3F1	-0.017761149	0.686158515	0.74973991	520	520
OR51F1	-0.017835318	0.684917951	0.74863711	520	14
CD27	-0.017847294	0.684717729	0.74852767	520	520
RNF11	-0.017882114	0.68413567	0.74793492	520	520
SCARNA11	-0.017895742	0.683907926	0.74776046	520	7
FAM50B	-0.017909547	0.683677234	0.74759586	520	520
MDM1	-0.017944121	0.683099643	0.7470453	520	520
HIST1H1D	-0.017968237	0.682696856	0.7467116	520	502
CRYBA1	-0.017975817	0.682570271	0.74662835	520	105
HRG	-0.018013596	0.68193953	0.74601935	520	367

SRRM1	-0.018017779	0.681869702	0.74598343	520	520
CYLC1	-0.018092561	0.680621861	0.74490998	520	9
DEFA4	-0.018100814	0.68048419	0.74483135	520	59
SLC1A1	-0.018110502	0.680322608	0.74475786	520	520
FAM13B	-0.018131456	0.679973189	0.74450904	520	520
OR7D2	-0.01816105	0.679479789	0.7440955	520	397
ERI3	-0.018163964	0.679431209	0.74408271	520	520
LRRIQ1	-0.01820307	0.678779454	0.7434497	520	455
OR2T8	-0.018209736	0.678668386	0.74340881	520	154
SLC25A36	-0.01821032	0.678658641	0.74340881	520	520
SNORA81	-0.018266837	0.677717199	0.74260893	520	292
ENTPD6	-0.018313449	0.676941122	0.74191982	520	520
CD6	-0.018333207	0.676612258	0.74164001	520	520
BHMT	-0.018391175	0.675647767	0.74070361	520	402
FOSL1	-0.018407226	0.675380805	0.74053173	520	520
NUTF2	-0.018447466	0.6747117	0.73983831	520	520
CLDN15	-0.018448348	0.674697039	0.73983831	520	520
EIF4H	-0.018475473	0.674246147	0.73944846	520	520
CP	-0.018480675	0.674159684	0.73939385	520	515
ARID3C	-0.01848209	0.674136165	0.73939385	520	364
EFCAB7	-0.018489799	0.674008065	0.73930798	520	520
WEE2	-0.018519329	0.673517387	0.73885015	520	289
GATA4	-0.018544186	0.673104475	0.73855791	520	309
ZNF238	-0.018602436	0.672137247	0.73765718	520	520
EPB42	-0.018652742	0.671302358	0.73686123	520	94
CITED1	-0.018679451	0.670859258	0.73641494	520	509
GSTM2	-0.018680861	0.670835856	0.73641494	520	520
C9orf50	-0.018695653	0.670590509	0.73632036	520	347
C14orf105	-0.018708793	0.670372604	0.73620136	520	97
SPEF1	-0.018758554	0.669547604	0.73540304	520	463
SUMO3	-0.018805558	0.668768669	0.73467309	520	520
CASP2	-0.01882122	0.668509198	0.73459507	520	520
DMRTB1	-0.018830161	0.668361098	0.73451238	520	62
ZCCHC13	-0.018903924	0.667139757	0.73340999	520	16
TMEM126B	-0.018929947	0.666709078	0.7330964	520	520
C3orf45	-0.018952761	0.666331603	0.73280122	520	397
RNF19B	-0.018953315	0.666322428	0.73280122	520	520
ANXA3	-0.018975323	0.665958366	0.73247065	520	520
ANKRD12	-0.018996726	0.665604395	0.7321612	520	520
MICALL1	-0.019030427	0.665047178	0.73174786	520	520
GGT1	-0.019042188	0.664852768	0.73157387	520	520
OCIAD1	-0.019075247	0.664306409	0.73101258	520	520
SNORA56	-0.01909593	0.663964677	0.7306764	520	17
MBD3L2	-0.01910111	0.663879099	0.7306221	520	30
SHISA7	-0.019103303	0.663842876	0.7306221	520	446
NARG2	-0.019115589	0.663639921	0.73047848	520	520

C14orf28	-0.019124252	0.663496841	0.73040074	520	520
OR6C74	-0.019184376	0.662504119	0.72946721	520	4
C10orf84	-0.019273811	0.66102853	0.72796173	520	520
PCBP1	-0.019286181	0.660824544	0.72777684	520	520
C20orf144	-0.019319295	0.660278595	0.72721529	520	160
LOC650293	-0.01932995	0.660102968	0.72706157	520	31
RNU6ATAC	-0.019342425	0.65989736	0.72687482	520	25
ZNF321	-0.019345266	0.659850553	0.72686296	520	517
C17orf102	-0.019374224	0.659373396	0.72641672	520	57
SP5	-0.019439118	0.658304605	0.72547708	520	494
ARMC3	-0.019449813	0.658128521	0.72532899	520	211
C7orf66	-0.019456835	0.65801293	0.72527456	520	19
LOC389705	-0.019486501	0.657524648	0.7248156	520	515
CYP11B1	-0.019488418	0.657493111	0.7248156	520	79
HBS1L	-0.019488481	0.657492073	0.7248156	520	520
CD200R1L	-0.019527336	0.656852788	0.72419376	520	136
CCDC135	-0.01955454	0.656405348	0.72377959	520	282
C14orf23	-0.019559512	0.656323575	0.723729	520	131
ZSCAN5B	-0.019563661	0.656255348	0.72369335	520	497
C17orf74	-0.019578302	0.656014616	0.72346744	520	165
PRR3	-0.019662641	0.654628564	0.72225489	520	520
KIF4A	-0.019674569	0.654432623	0.72211773	520	520
NOLC1	-0.019687055	0.654227556	0.72193096	520	520
TSKS	-0.01971897	0.653703496	0.72139215	520	496
C1QTNF9B	-0.019719173	0.653700165	0.72139215	520	401
RAB19	-0.019724364	0.653614931	0.72137337	520	441
OR2J2	-0.019729535	0.653530043	0.72131916	520	16
ZNF204P	-0.019743745	0.653296786	0.72110118	520	520
LGALS8	-0.019750896	0.653179411	0.72101109	520	520
RPS6KA4	-0.019756588	0.653086003	0.72094745	520	520
MOSPD3	-0.019769516	0.652873845	0.72079217	520	520
KRT28	-0.019797193	0.652419737	0.72033688	520	33
PAPD7	-0.019810204	0.65220632	0.72021294	520	520
VCX2	-0.019833709	0.651820816	0.71983185	520	32
LY6G5C	-0.019849109	0.65156829	0.71962661	520	520
PPID	-0.019851701	0.651525803	0.71962661	520	520
USP54	-0.019877524	0.65110246	0.71923031	520	520
FAM175B	-0.019887266	0.650942797	0.71913273	520	520
MYD88	-0.019905113	0.650650314	0.71884899	520	520
SSRP1	-0.019907284	0.650614735	0.71884899	520	520
FOXI1	-0.019910222	0.650566594	0.71883527	520	263
DHX15	-0.019913217	0.650517511	0.71882042	520	520
EXOC4	-0.019936324	0.650138941	0.71852023	520	520
KRTAP26-1	-0.01997208	0.649553313	0.71803043	520	47
IFITM1	-0.020016675	0.648823221	0.71734134	520	520
LOC254312	-0.02003147	0.648581077	0.71711295	520	3

BMP15	-0.02003231	0.648567341	0.71711295	520	40
HBBP1	-0.020045979	0.64834365	0.71701897	520	81
C1orf223	-0.020051832	0.648247879	0.71698043	520	220
ZSWIM3	-0.020076541	0.647843646	0.71661195	520	520
CCDC21	-0.020080599	0.647777267	0.71657784	520	520
TAS1R2	-0.020084568	0.647712356	0.71654534	520	136
LOC374491	-0.020103585	0.647401337	0.71624057	520	328
PRNT	-0.02011929	0.64714453	0.71607432	520	31
FAM40A	-0.020135234	0.646883854	0.7158761	520	520
SFTPC	-0.020137466	0.646847375	0.7158761	520	255
LOC100128554	-0.020176933	0.646202311	0.71526725	520	57
UBXN2A	-0.020196544	0.645881901	0.71499109	520	520
OSCP1	-0.020228878	0.645353727	0.71456332	520	520
YME1L1	-0.02023438	0.645263868	0.71450305	520	520
CDSN	-0.02025613	0.644908715	0.71414901	520	520
FAM86B1	-0.020313296	0.643975635	0.71323326	520	520
C7orf51	-0.020320508	0.643857965	0.7131421	520	514
CRISP2	-0.020338264	0.643568275	0.71289685	520	130
ARPC2	-0.020355883	0.643280882	0.71265951	520	520
PRKY	-0.020362433	0.643174049	0.7125803	520	498
FEM1B	-0.020380195	0.64288441	0.71233769	520	520
SLC5A2	-0.020395801	0.642629951	0.71209487	520	226
PRAMEF20	-0.020427137	0.642119161	0.71160708	520	87
IPO13	-0.02045063	0.641736323	0.71130009	520	520
FRG2	-0.020464236	0.641514635	0.71113255	520	136
TMEM206	-0.020473852	0.641357992	0.710998	520	520
INS	-0.020508862	0.640787783	0.71048306	520	21
H2BFWT	-0.020517263	0.640650989	0.71037045	520	254
CBX7	-0.020528279	0.640471632	0.71028764	520	520
TEX19	-0.020541263	0.640260257	0.71013244	520	437
EHBP1L1	-0.020562957	0.639907163	0.7098189	520	520
KRT8	-0.02056375	0.639894266	0.7098189	520	520
C12orf61	-0.020583372	0.639574954	0.70960655	520	520
DLX3	-0.020594243	0.63939809	0.70944935	520	518
KCNH6	-0.020595089	0.63938433	0.70944935	520	169
OR52I1	-0.020612367	0.639103257	0.7092393	520	38
PRAMEF14	-0.020645546	0.638563667	0.7087185	520	35
C2orf78	-0.020659305	0.63833996	0.70850922	520	113
SLC2A12	-0.020687717	0.637878099	0.70803556	520	520
WDR25	-0.020695887	0.637745328	0.70792716	520	520
TMOD3	-0.020704544	0.637604648	0.70780996	520	520
MIS12	-0.020726601	0.637246265	0.70745106	520	520
LOC643486	-0.020738428	0.637054127	0.7072767	520	31
CCDC105	-0.020754408	0.636794571	0.70706639	520	48
BRWD1	-0.020763033	0.636654496	0.70694979	520	520
HAO2	-0.020799279	0.636065979	0.70637409	520	290

FAM177A1	-0.020838517	0.635429144	0.70571346	520	520
BTG2	-0.020842326	0.635367336	0.70571346	520	520
OR4K14	-0.020862021	0.635047798	0.70539877	520	21
ZNF580	-0.020863686	0.635020798	0.70539877	520	520
SGOL2	-0.020898182	0.634461301	0.70490262	520	520
ZNF707	-0.020932849	0.633899239	0.70445211	520	520
XRCC4	-0.021005539	0.632721382	0.7033183	520	520
C6orf134	-0.021056631	0.63189405	0.70251484	520	520
BTRC	-0.021064402	0.631768261	0.70241372	520	520
LGALS2	-0.021071248	0.631657445	0.70232924	520	512
NCBP1	-0.02117838	0.629924429	0.70059549	520	520
LOC285501	-0.021185277	0.629812931	0.70051012	520	217
CDIPT	-0.021195321	0.629650583	0.70036818	520	520
SPINT3	-0.021266396	0.628502176	0.69932225	520	3
TMBIM6	-0.021272655	0.628401081	0.69924835	520	520
SNORA11D	-0.021294888	0.628042058	0.69892599	520	6
LCE2A	-0.021304925	0.627880008	0.69878422	520	317
OR52W1	-0.02132525	0.627551914	0.69845763	520	46
SNORA3	-0.021337704	0.627350899	0.69827244	520	36
TTY5	-0.02134384	0.627251881	0.69820077	520	13
TRERF1	-0.021348151	0.627182302	0.69816186	520	520
CYP20A1	-0.021374743	0.626753268	0.69783837	520	520
ORAOV1	-0.021374865	0.62675129	0.69783837	520	520
MMD2	-0.021375389	0.626742845	0.69783837	520	59
HIST1H1E	-0.02141135	0.626162829	0.69733499	520	519
MAT2B	-0.021425943	0.625927526	0.69711144	520	520
GOLGA8DP	-0.021439686	0.625705968	0.69690318	520	229
APOA1	-0.021468237	0.625245779	0.69646757	520	455
OR2A9P	-0.021512767	0.62452835	0.69582217	520	520
FAM199X	-0.021513741	0.624512649	0.69582217	520	520
OR8J3	-0.021522962	0.624364135	0.69575454	520	7
POLR3H	-0.021568392	0.623632646	0.69497782	520	520
SAPS1	-0.021575125	0.623524255	0.69489543	520	520
PROL1	-0.021580196	0.623442639	0.69485655	520	39
IGSF5	-0.021586629	0.623339106	0.6948043	520	259
SPDYE5	-0.02160355	0.62306679	0.69453915	520	502
C5orf25	-0.021606948	0.623012113	0.6945166	520	520
SNORA71D	-0.021612838	0.622917345	0.69444935	520	19
C20orf152	-0.021625183	0.622718743	0.69426632	520	398
IRF6	-0.021660466	0.622151238	0.69382543	520	520
PRG2	-0.021660529	0.622150225	0.69382543	520	518
HNRNPCL1	-0.021667387	0.622039947	0.69377806	520	23
C14orf177	-0.021684203	0.621769581	0.69351487	520	33
XPO1	-0.021703072	0.62146626	0.69329664	520	520
ZSCAN5A	-0.021719596	0.62120068	0.69307201	520	520
CNOT4	-0.021744154	0.620806089	0.6926701	520	520

EGR4	-0.021751197	0.620692929	0.69262049	520	488
HOMER2	-0.021754244	0.620643994	0.69260421	520	520
GSG2	-0.021757682	0.620588759	0.6925809	520	520
OR6C68	-0.021783169	0.620179402	0.692239	520	5
ATG2A	-0.021815504	0.619660244	0.6917361	520	520
FANCM	-0.021816538	0.619643634	0.6917361	520	520
DMXL1	-0.021856645	0.618999956	0.69119034	520	520
TMUB2	-0.021882673	0.618582386	0.69080058	520	520
HOXA3	-0.021915539	0.618055276	0.69032663	520	518
VWA5B2	-0.021915644	0.618053589	0.69032663	520	471
HIST3H2BB	-0.021922708	0.617940333	0.69027471	520	479
HDAC5	-0.021950319	0.6174977	0.68989493	520	520
SLC25A27	-0.021958487	0.617366779	0.68978687	520	519
MCM3APAS	-0.022058144	0.615770469	0.68815584	520	519
TCIRG1	-0.022063059	0.615691784	0.68812735	520	520
MC2R	-0.02207369	0.615521606	0.68799211	520	52
OR5D18	-0.022075738	0.615488833	0.68799211	520	13
FAM184A	-0.02208032	0.6154155	0.68794978	520	510
FNDC7	-0.022082029	0.615388143	0.68794978	520	137
PHF13	-0.022086195	0.615321478	0.68792095	520	520
C1orf100	-0.022107233	0.614984816	0.68758269	520	25
MTERFD2	-0.022108341	0.614967099	0.68758269	520	520
VPS13D	-0.022118855	0.614798884	0.68748917	520	520
IFLTD1	-0.022120149	0.614778179	0.68748917	520	113
UGP2	-0.022122448	0.614741396	0.68748917	520	520
FXC1	-0.022123678	0.61472173	0.68748917	520	520
FGB	-0.02213157	0.614595486	0.68741421	520	200
PPP1R15A	-0.022188612	0.613683366	0.68650826	520	520
LCE6A	-0.02219136	0.613639441	0.68650826	520	255
MEGF11	-0.02219326	0.613609061	0.68650826	520	462
C1QL2	-0.022218005	0.613213595	0.68617308	520	160
RNASEH2C	-0.022222303	0.613144909	0.6861343	520	520
TUBA3D	-0.022268505	0.612406841	0.68542249	520	397
CASP6	-0.022277643	0.612260909	0.68529719	520	520
SNTG1	-0.02232992	0.611426369	0.68456785	520	16
C9orf72	-0.022330391	0.611418848	0.68456785	520	520
GIF	-0.022334611	0.611351501	0.68456785	520	43
TEX13B	-0.022339329	0.611276204	0.68456785	520	159
C12orf35	-0.022391534	0.610443408	0.68379428	520	520
C19orf20	-0.022392922	0.610421263	0.68379428	520	520
OR5M10	-0.022405278	0.610224223	0.6836627	520	17
CIR1	-0.022456576	0.609406508	0.6828604	520	520
ACTRT1	-0.022465633	0.609262194	0.68273663	520	77
OR6Q1	-0.022466102	0.60925472	0.68273663	520	21
C6orf126	-0.022471524	0.609168322	0.68273519	520	105
PRSS38	-0.022492264	0.608837904	0.68241287	520	49

ATP6V1H	-0.022543878	0.608015984	0.68171899	520	520
CNR2	-0.022559546	0.607766579	0.68147725	520	411
PNLIP	-0.022561952	0.607728276	0.68147219	520	30
LOC100303728	-0.022614022	0.60689976	0.68077029	520	517
PPM1D	-0.022614102	0.606898488	0.68077029	520	520
CELSR3	-0.022643749	0.606426992	0.68042924	520	520
OR5W2	-0.022735005	0.604976694	0.6789153	520	9
CHD5	-0.022778369	0.604288052	0.67827827	520	466
PRSS41	-0.022807471	0.603826108	0.67781271	520	130
ABCC6P1	-0.022832101	0.603435283	0.67748247	520	221
PRAMEF8	-0.022836077	0.603372195	0.67745403	520	127
LOC283314	-0.02284961	0.603157502	0.6772884	520	520
IDH1	-0.022854754	0.603075904	0.67723449	520	520
NANOS2	-0.022884853	0.602598569	0.67681154	520	124
TMEM53	-0.022886086	0.602579023	0.67681154	520	520
FZR1	-0.022892034	0.602484718	0.67675906	520	520
COL4A3BP	-0.022895799	0.602425021	0.6767297	520	520
TTLL4	-0.022896181	0.602418961	0.6767297	520	520
CLDN20	-0.022899418	0.602367638	0.6767297	520	426
MTHFD1	-0.022908888	0.602217518	0.67660969	520	520
MLLT1	-0.022920096	0.602039872	0.67644779	520	520
FAM131A	-0.022923423	0.601987142	0.67643916	520	520
LOC100128023	-0.022934358	0.601813838	0.67634457	520	104
PDE6C	-0.022945577	0.601636067	0.67618247	520	85
FLJ43950	-0.022945884	0.601631201	0.67618247	520	92
OR6N2	-0.02295199	0.601534459	0.67614364	520	11
ALPI	-0.022976098	0.601152556	0.67582739	520	44
BUB1	-0.022977225	0.601134705	0.67582739	520	520
LYPD6	-0.022993503	0.600876901	0.6756305	520	509
B3GALT5	-0.022997111	0.600819771	0.67560394	520	397
CHTF8	-0.023032698	0.600256357	0.67504569	520	520
HSD17B3	-0.023041859	0.600111372	0.67492028	520	478
DIMT1L	-0.023046231	0.600042172	0.6748801	520	520
MLKL	-0.023093734	0.599290603	0.67407239	520	520
CWC22	-0.023093775	0.599289968	0.67407239	520	520
BRDT	-0.023126049	0.598779579	0.67361032	520	195
H2BFM	-0.023130652	0.598706813	0.67360363	520	194
CLDN2	-0.023135872	0.598624287	0.67358594	520	506
KRTAP6-3	-0.023140057	0.598558133	0.67356375	520	22
DUSP9	-0.023142015	0.598527167	0.67356375	520	520
C6orf106	-0.023142568	0.598518433	0.67356375	520	520
C21orf34	-0.023142943	0.598512499	0.67356375	520	500
XIST	-0.023167637	0.598122206	0.67328399	520	415
UBOX5	-0.023210913	0.597438496	0.67255191	520	520
DEFA1B	-0.023226654	0.597189901	0.67234713	520	345
OR52H1	-0.02332987	0.595560932	0.67062549	520	21

RHEB	-0.023339562	0.59540808	0.67052826	520	520
GAB4	-0.023379294	0.59478164	0.66989761	520	73
EIF2A	-0.023391465	0.5945898	0.66971896	520	520
ACTL6A	-0.023409319	0.594308442	0.66947684	520	520
ZNF518A	-0.023432101	0.593949528	0.66915957	520	520
IL1A	-0.023498232	0.592908188	0.66812343	520	520
ProSAPiP1	-0.02352416	0.592500148	0.66773826	520	520
PPAPDC1B	-0.023558828	0.591954744	0.66719818	520	520
SCAP	-0.023609535	0.591157444	0.66641129	520	520
HSPA1A	-0.023716736	0.589473468	0.66469875	520	520
TMEM225	-0.023747584	0.588989306	0.66422709	520	5
MED28	-0.023751098	0.588934156	0.66420204	520	520
MSTO2P	-0.02377791	0.588513506	0.66383902	520	520
SELT	-0.02379333	0.588271638	0.66360332	520	520
KDM1A	-0.023842959	0.587493518	0.66279971	520	520
LOC126536	-0.023887318	0.586798423	0.66216371	520	106
SLC6A19	-0.023924823	0.586211038	0.66159597	520	152
TTY23	-0.023932887	0.586084777	0.66150649	520	4
CAMLG	-0.023938468	0.5859974	0.66144489	520	520
DDX53	-0.023949137	0.585830375	0.6613304	520	85
CPSF4L	-0.023972028	0.585472108	0.66099998	520	199
OSTBETA	-0.023973224	0.585453393	0.66099998	520	208
FAM157A	-0.02398034	0.585342031	0.66092713	520	513
STAT5A	-0.02402865	0.584586331	0.66018475	520	520
HIST1H3H	-0.024036341	0.584466066	0.66008591	520	518
GPR6	-0.024056727	0.584147344	0.6597629	520	20
FAM181A	-0.024060172	0.584093495	0.65975143	520	400
SLC39A5	-0.024060263	0.584092063	0.65975143	520	354
TRIB1	-0.024132004	0.582971122	0.65876652	520	520
C6orf168	-0.024141581	0.582821552	0.65863441	520	519
OR52M1	-0.024151682	0.582663823	0.65849307	520	13
CLEC9A	-0.02417274	0.582335064	0.65815841	520	466
CFHR5	-0.024187326	0.582107394	0.65797486	520	37
SPIB	-0.024198129	0.581938802	0.65782117	520	515
CHRM2	-0.024199131	0.581923159	0.65782117	520	72
GNG3	-0.024223881	0.581537009	0.65747756	520	488
HOXD11	-0.024224572	0.581526227	0.65747756	520	516
CDK11A	-0.024233282	0.581390361	0.65738548	520	520
MARS	-0.024242508	0.581246456	0.6572751	520	520
FBXO43	-0.024281579	0.580637234	0.6566812	520	517
FUT7	-0.024290688	0.580495246	0.65655745	520	519
ENOPH1	-0.024297701	0.580385937	0.65647064	520	520
GPR52	-0.024307955	0.580226129	0.65632669	520	180
AP4S1	-0.024311156	0.580176259	0.6563071	520	520
BHLHE23	-0.024320783	0.58002625	0.65621104	520	10
UBQLN1	-0.024327347	0.57992397	0.65613214	520	520

ZNF283	-0.024355242	0.579489451	0.65567731	520	520
TEAD3	-0.024361789	0.579387483	0.65559872	520	520
OR1E2	-0.024369147	0.579272909	0.65554265	520	29
BRD9	-0.024371519	0.579235964	0.65553763	520	520
HGS	-0.024372954	0.579213618	0.65553763	520	520
SHISA5	-0.024376406	0.57915988	0.65552511	520	520
OR13A1	-0.024391687	0.578921972	0.65529262	520	389
OR2B3	-0.024435745	0.578236294	0.65462673	520	15
LMNB2	-0.024457828	0.577892768	0.65431129	520	520
VSX2	-0.024459792	0.577862215	0.65431129	520	232
EMILIN3	-0.024477085	0.577593274	0.65414096	520	518
OR2AE1	-0.024487176	0.577436369	0.65405162	520	156
WDR46	-0.024509969	0.577082019	0.65382797	520	520
RSPH4A	-0.024527519	0.576809256	0.65363504	520	503
C20orf70	-0.024530939	0.576756106	0.65361154	520	82
TRIM60	-0.024533172	0.576721401	0.65360894	520	13
BRS3	-0.024543975	0.576553533	0.65356804	520	109
ZBTB45	-0.024546645	0.576512056	0.65356804	520	520
LOC100129935	-0.02455071	0.5764489	0.65356804	520	19
NEUROD4	-0.024573237	0.576098979	0.65323398	520	43
ZBTB32	-0.024579558	0.576000797	0.65315938	520	519
OR5B2	-0.02460234	0.575647042	0.65279495	520	27
IFNA4	-0.024605631	0.575595942	0.65277371	520	13
MAP2K3	-0.024625649	0.575285195	0.65260482	520	520
CYB5RL	-0.024646096	0.574967882	0.65235496	520	520
RASGEF1C	-0.02464716	0.574951376	0.65235496	520	462
VAMP3	-0.024691633	0.574261484	0.65166349	520	520
TYW3	-0.024758255	0.573228735	0.65071127	520	520
DNAH2	-0.024761836	0.573173249	0.65068491	520	510
NXF3	-0.024777418	0.572931827	0.65048409	520	440
OR11H6	-0.024805391	0.572498578	0.6500654	520	91
MMP26	-0.024811169	0.572409105	0.6500004	520	24
TNS4	-0.024814259	0.572361264	0.64998268	520	520
TAS2R43	-0.024837271	0.572004993	0.64965127	520	167
MAP4K1	-0.024880897	0.571329874	0.64892106	520	520
ABCB8	-0.024917012	0.570771291	0.64832314	520	520
MBIP	-0.024936179	0.570474928	0.64805952	520	520
HOXD4	-0.0249758	0.56986256	0.64754628	520	515
CXorf1	-0.025024487	0.569110489	0.64680103	520	66
C21orf49	-0.025034548	0.568955141	0.64666092	520	477
CELA2A	-0.025062888	0.568517654	0.64620011	520	45
TPT1	-0.025124802	0.567562421	0.64529623	520	520
BSG	-0.025189793	0.566560561	0.64433881	520	520
PON3	-0.025215271	0.566168036	0.64392872	520	489
NCRNA00230B	-0.02524497	0.565710634	0.64344479	520	256
CCDC97	-0.025248586	0.565654963	0.64341776	520	520

POLRMT	-0.025250209	0.565629962	0.64341776	520	520
SNORA49	-0.025259431	0.565487987	0.64330041	520	20
SCGB1D2	-0.025266791	0.565374683	0.6432078	520	135
IFNA6	-0.025279915	0.565172681	0.64301427	520	12
TSG1	-0.025280687	0.565160793	0.64301427	520	114
CDK5	-0.025301928	0.564833931	0.64270139	520	520
OR56A1	-0.025321082	0.564539255	0.64240234	520	27
PARP10	-0.025336571	0.564301009	0.64223997	520	520
MAK	-0.025341505	0.564225135	0.64218986	520	507
WNT1	-0.025346622	0.564146448	0.64213655	520	388
KIF20B	-0.02535005	0.564093724	0.64211278	520	520
TMEM5	-0.025373489	0.563733362	0.64173881	520	520
CYP11B2	-0.02537576	0.563698451	0.6417353	520	9
SDC4	-0.025376094	0.563693314	0.6417353	520	520
PTH	-0.025381372	0.563612197	0.64170956	520	39
PDCD1	-0.02539197	0.563449302	0.64156032	520	518
C5orf55	-0.025431345	0.562844333	0.64094387	520	520
SPACA5	-0.025471254	0.562231474	0.6403183	520	91
CYP2A7	-0.025518111	0.561512326	0.63964378	520	138
LMO3	-0.025537701	0.561211793	0.63933755	520	448
KCNMB2	-0.025542801	0.56113357	0.63932067	520	474
HADHB	-0.025545267	0.561095751	0.63931371	520	520
LPHN1	-0.02559224	0.560375531	0.63863744	520	520
TTY4C	-0.02561236	0.560067162	0.63835816	520	22
USP48	-0.025615116	0.560024935	0.63834612	520	520
KIAA0284	-0.025622591	0.559910399	0.63825164	520	520
FLJ35776	-0.02566232	0.559301834	0.63759397	520	520
TLR10	-0.025675167	0.559105116	0.63740575	520	513
C8B	-0.025676119	0.559090542	0.63740575	520	167
STK11IP	-0.025679137	0.559044336	0.63740575	520	520
SLC25A17	-0.025698586	0.558746609	0.63714113	520	520
ARHGDI3	-0.025700462	0.558717896	0.63714113	520	355
ARGFXP2	-0.025735969	0.558174542	0.63663281	520	294
LOC285045	-0.025745068	0.558035348	0.63651006	520	105
DNAJB3	-0.02576046	0.557799933	0.63631352	520	262
FAM55D	-0.025773854	0.557595105	0.63611585	520	248
OR1C1	-0.025780409	0.557494874	0.63606102	520	19
OR10Z1	-0.025796716	0.557245573	0.635861	520	10
TNPO2	-0.025856157	0.556337285	0.63504019	520	520
LRR19	-0.025897821	0.555701083	0.63438581	520	398
THAP6	-0.025937482	0.555095773	0.63376656	520	520
TSPAN3	-0.025942789	0.555014809	0.63371	520	520
STARD3	-0.025990421	0.554288345	0.63298806	520	520
RNF17	-0.026000154	0.554139951	0.63285444	520	344
TOX3	-0.026001377	0.554121311	0.63285444	520	330
TPD52L3	-0.026012015	0.553959151	0.63279132	520	52

U2AF2	-0.026032131	0.553652562	0.63251276	520	520
C2orf43	-0.026085506	0.552839508	0.63176287	520	520
LOC84931	-0.026107906	0.552498465	0.63144471	520	155
TRIM49	-0.026110415	0.552460284	0.63143686	520	194
GLYATL1	-0.026130843	0.552149364	0.63111727	520	373
MAP3K15	-0.026138283	0.552036145	0.6310594	520	349
C1orf101	-0.026151482	0.551835316	0.63086559	520	504
REEP5	-0.026159096	0.551719484	0.63076893	520	520
LOC96610	-0.026172294	0.551518722	0.63061092	520	520
ME1	-0.026174273	0.551488634	0.63061092	520	520
OR10J5	-0.026177822	0.551434655	0.63058631	520	15
VCX3B	-0.026207748	0.550979624	0.63013744	520	159
C20orf27	-0.026210961	0.550930774	0.63011731	520	520
SEC61G	-0.02622198	0.55076328	0.62996147	520	520
PCNP	-0.0262283	0.550667219	0.62988733	520	520
SLC26A11	-0.026279308	0.54989227	0.62910796	520	520
NUP133	-0.026293693	0.549673823	0.62890078	520	520
ADAM5P	-0.026320284	0.549270117	0.6285745	520	18
HESX1	-0.026327233	0.549164648	0.62848947	520	512
MT4	-0.026329968	0.549123139	0.62847763	520	132
NEUROG2	-0.026333585	0.549068244	0.62845048	520	304
GPR12	-0.026376641	0.548415002	0.62791665	520	223
DNAJC21	-0.026399808	0.548063658	0.62758564	520	520
NDEL1	-0.026415194	0.547830399	0.62742543	520	520
SNORA1	-0.026421008	0.547742262	0.62736012	520	7
CA7	-0.026513771	0.546337023	0.62585727	520	252
TNFRSF14	-0.026541197	0.545921891	0.62541725	520	520
TIPARP	-0.026544764	0.54586792	0.62539095	520	520
ZNF174	-0.026597071	0.545076648	0.62462637	520	520
CYorf15B	-0.026601517	0.545009431	0.62458483	520	406
ENY2	-0.026602314	0.54499737	0.62458483	520	520
GUCA1C	-0.026606431	0.544935125	0.62458483	520	229
USP14	-0.026609341	0.544891133	0.62458483	520	520
MPP5	-0.026621002	0.544714837	0.62446017	520	520
ZNF226	-0.02667854	0.543845391	0.6235698	520	520
C3orf48	-0.026681143	0.543806071	0.62356017	520	168
CD7	-0.026692479	0.543634854	0.62343475	520	520
LUC7L2	-0.026718549	0.543241219	0.6230542	520	520
C18orf10	-0.026753887	0.542707862	0.62254872	520	520
TM4SF5	-0.026755683	0.542680772	0.62254872	520	111
CD160	-0.02675898	0.542631024	0.62253141	520	511
SUGT1	-0.026766847	0.542512328	0.62243064	520	520
C13orf36	-0.026838072	0.541438325	0.62137521	520	174
OR6C4	-0.026850286	0.541254254	0.62119932	520	5
REG1B	-0.026932959	0.540009165	0.61991146	520	39
NTN5	-0.026933427	0.540002125	0.61991146	520	494

C1QTNF4	-0.026937479	0.539941131	0.61991146	520	431
C3orf38	-0.026974474	0.539384471	0.61940592	520	520
NKTR	-0.026984021	0.539240856	0.61927626	520	520
TBC1D10A	-0.026991318	0.539131116	0.6191881	520	520
MAN2C1	-0.026997362	0.539040217	0.61915163	520	520
TACR1	-0.027055939	0.538159682	0.61828111	520	496
ZNF131	-0.027062496	0.538061165	0.61820315	520	520
CCDC15	-0.027091391	0.537627103	0.61781005	520	520
BDH2	-0.027100379	0.537492131	0.61772535	520	520
AMHR2	-0.027106858	0.537394844	0.61764875	520	338
SLC22A9	-0.027157522	0.536634382	0.61684504	520	168
ID2	-0.027163887	0.53653888	0.61677042	520	520
GDF7	-0.027219363	0.535706874	0.61598959	520	260
OR8U1	-0.027252141	0.535215598	0.61552999	520	4
LOC153684	-0.027272517	0.534910314	0.61524908	520	519
UBXN6	-0.027344551	0.533831755	0.61432391	520	520
EFHC2	-0.02736927	0.533461896	0.61396836	520	501
MCART3P	-0.027404689	0.532932165	0.6133937	520	363
SLC25A35	-0.027412343	0.532817725	0.61329699	520	520
SLC17A8	-0.027449178	0.532267152	0.61269823	520	138
UROC1	-0.027497237	0.53154925	0.61197665	520	258
TMEM143	-0.027602098	0.529984529	0.61038428	520	520
C1orf86	-0.027669868	0.528974533	0.60936029	520	520
APOBEC3H	-0.027680259	0.528819752	0.60921679	520	516
SLK	-0.027709633	0.52838234	0.60878244	520	520
IL12RB2	-0.027786336	0.527241038	0.60757163	520	520
ATP5SL	-0.027822916	0.526697183	0.60707708	520	520
SCRT2	-0.027825243	0.526662606	0.60707708	520	61
COX4NB	-0.027834652	0.526522754	0.60695202	520	520
RBPJL	-0.027837273	0.526483817	0.60694184	520	150
KIR3DP1	-0.027856059	0.526204682	0.60665473	520	56
ACTR1B	-0.027869909	0.525998941	0.60648689	520	520
LRAT	-0.027873603	0.525944062	0.60645829	520	482
TRAF7	-0.027877525	0.525885824	0.60644724	520	520
CNIH2	-0.027934272	0.525043363	0.60555631	520	520
RFX4	-0.027951166	0.524792689	0.60537298	520	164
C10orf68	-0.027953778	0.524753937	0.60536291	520	478
SLC17A1	-0.028047144	0.523369735	0.60393884	520	35
PDHX	-0.028056066	0.523237556	0.60391516	520	520
PIGV	-0.028116397	0.522344217	0.60303153	520	520
PMCHL2	-0.028131789	0.522116437	0.60280308	520	32
NAT15	-0.028147988	0.521876764	0.60262989	520	520
ZNF687	-0.028152722	0.521806731	0.60258352	520	520
NPS	-0.028161293	0.521679948	0.60247162	520	14
MAPK14	-0.02818038	0.521397664	0.60218011	520	520
PARP14	-0.028207842	0.520991661	0.60178014	520	520

C5orf33	-0.028268228	0.520099499	0.60109396	520	520
SYCP2L	-0.028274487	0.520007064	0.60102158	520	435
CTNND1	-0.028293549	0.519725614	0.60073071	520	520
ARL5A	-0.028316777	0.519382766	0.60036884	520	520
LYZL6	-0.028326724	0.519235994	0.60023359	520	11
IMP5	-0.028330076	0.519186529	0.60021082	520	29
PRSS30P	-0.028368687	0.518616999	0.59968994	520	427
SNORA15	-0.028373472	0.518546438	0.59964274	520	18
SNORA42	-0.028395782	0.518217528	0.59929676	520	4
VCX	-0.028438442	0.517588896	0.59867278	520	231
PHF17	-0.028441029	0.517550776	0.59866302	520	520
CLCN2	-0.028464787	0.517200864	0.59832692	520	520
FLJ43860	-0.028476722	0.517025142	0.59815795	520	75
ASB8	-0.028481327	0.516957344	0.59811383	520	520
TCL1A	-0.028528427	0.51626418	0.5973804	520	473
ITLN1	-0.028548638	0.515966882	0.59707066	520	270
OR7G2	-0.028577368	0.515544426	0.59661604	520	16
OR51B4	-0.028581603	0.515482164	0.59661604	520	132
GCM2	-0.028596318	0.515265872	0.59649908	520	40
PLD1	-0.028600463	0.515204959	0.59646281	520	520
RAGE	-0.028607275	0.515104846	0.5964154	520	520
GSX1	-0.028641715	0.514598896	0.59593224	520	10
RUFY4	-0.028658296	0.514355395	0.59568446	520	509
EIF4A1	-0.028659513	0.514337533	0.59568446	520	520
C10orf105	-0.02866028	0.51432626	0.59568446	520	515
CCDC41	-0.02869857	0.513764213	0.59517072	520	520
LCNL1	-0.028710855	0.513583948	0.59501092	520	278
INGX	-0.028713939	0.513538688	0.59501092	520	348
GUSBP1	-0.028735056	0.513228919	0.59472145	520	520
NCRNA00087	-0.028777761	0.512602767	0.59413245	520	519
TMEM42	-0.028780172	0.512567432	0.59412564	520	520
P2RX3	-0.028794281	0.512360651	0.5939201	520	75
CXCL14	-0.02880804	0.512159053	0.59375468	520	520
MSL3	-0.028842404	0.51165572	0.59328958	520	520
ITGB1BP1	-0.02887511	0.511176903	0.59282056	520	520
GAPDH	-0.028907941	0.510696489	0.59239667	520	520
EBAG9	-0.028928055	0.510402283	0.59216062	520	520
GABPA	-0.028935356	0.510295507	0.59210488	520	520
FBN3	-0.028942719	0.510187853	0.59201403	520	358
MTMR15	-0.029000097	0.509349243	0.59114298	520	520
METTL7A	-0.029026389	0.508965228	0.5907653	520	520
CCDC85B	-0.029084129	0.508122386	0.58988887	520	520
ZNF540	-0.029084391	0.508118571	0.58988887	520	515
LOC401588	-0.029096876	0.50793642	0.58974089	520	520
FGFR2	-0.029116799	0.507645838	0.58947139	520	520
C1orf157	-0.029130942	0.507439593	0.58932275	520	111

LOC613037	-0.029138878	0.507323896	0.58926723	520	490
ZNF571	-0.029208266	0.506312841	0.58812674	520	519
F13B	-0.029233587	0.505944146	0.58780006	520	62
KNCN	-0.029236233	0.505905623	0.58780006	520	64
HIST2H2BE	-0.029238105	0.505878378	0.58780006	520	520
MLLT6	-0.029259049	0.505573554	0.58753877	520	520
KLRC4	-0.029276414	0.505320879	0.58734668	520	349
CYB561D2	-0.029282173	0.505237105	0.58728316	520	520
TMPRSS3	-0.029285166	0.50519356	0.5872664	520	516
PTPN20A	-0.029291513	0.505101235	0.58719293	520	158
SFTPD	-0.029310335	0.504827503	0.58691954	520	520
C22orf33	-0.029342614	0.504358251	0.58643062	520	6
CTRB2	-0.029348557	0.504271884	0.58636401	520	202
SNORA9	-0.029397384	0.503562561	0.58560675	520	36
FAM59A	-0.029453771	0.502744071	0.58475608	520	520
GUSBL1	-0.029477056	0.502406286	0.58439691	520	518
FAM22F	-0.029497789	0.502105609	0.58408085	520	515
PROCA1	-0.029505461	0.501994382	0.58401885	520	518
RBMX1E	-0.029505925	0.501987646	0.58401885	520	4
LRRC8A	-0.029535524	0.501558622	0.58364659	520	520
C14orf115	-0.029546968	0.501392795	0.58348729	520	224
LCE1D	-0.029551881	0.501321619	0.58343813	520	173
ARNTL2	-0.029606023	0.500537555	0.58259289	520	520
SNORA29	-0.029652563	0.499864091	0.58184261	520	31
GTF2E1	-0.029692521	0.499286254	0.58123711	520	520
TRIM33	-0.029710327	0.499028886	0.58097104	520	520
FBXO8	-0.029729155	0.498756809	0.58068782	520	520
UBE2L6	-0.029730552	0.498736619	0.58068782	520	520
PRSS1	-0.029758732	0.498329569	0.58032443	520	147
PER3	-0.029770089	0.498165557	0.58016693	520	520
LOC100132288	-0.029787914	0.497908209	0.57993422	520	520
HIST1H2BF	-0.029790755	0.497867211	0.57991996	520	476
SNORD15B	-0.029813066	0.497545203	0.57971232	520	136
CNTN2	-0.029822399	0.497410544	0.57958892	520	413
OR5AN1	-0.029839557	0.497163022	0.57936746	520	5
FAM188A	-0.02987337	0.496675437	0.57893309	520	520
SPIN4	-0.029877663	0.49661354	0.57889441	520	520
PPARGC1B	-0.029880206	0.496576891	0.57888515	520	519
QTRTD1	-0.02992974	0.49586314	0.57822024	520	520
OLIG3	-0.029982344	0.495105737	0.57743722	520	67
C22orf23	-0.029984363	0.495076686	0.57743674	520	520
HMGCS2	-0.030011745	0.494682697	0.57707734	520	312
SSX7	-0.030046939	0.494176552	0.57655361	520	6
TMEM63B	-0.030055852	0.494048404	0.57647081	520	520
HM13	-0.030065535	0.493909211	0.57634174	520	520
NSUN3	-0.030116944	0.493170575	0.57568143	520	520

CHL1	-0.0301218	0.493100842	0.57566497	520	516
NPSR1	-0.030167787	0.492440651	0.57496082	520	390
MFN1	-0.030223919	0.491635474	0.57434795	520	520
CELA3A	-0.030224799	0.491622859	0.57434795	520	41
C21orf91	-0.030256245	0.491172086	0.57391168	520	520
TSNAXIP1	-0.030280535	0.490824057	0.57360475	520	519
SOX7	-0.03037885	0.489416723	0.57212585	520	520
SCGB2A2	-0.030382964	0.489357894	0.57209025	520	122
PPPDE2	-0.030407719	0.489003895	0.5717427	520	520
DGKZ	-0.030421149	0.488811915	0.57158452	520	520
TRIM45	-0.030444	0.488485334	0.57123576	520	520
SNORA28	-0.030475592	0.488034038	0.57077422	520	3
ATAD2	-0.030481995	0.487942588	0.57073347	520	520
TAF8	-0.030495065	0.487755963	0.57058138	520	520
LOC146481	-0.030499259	0.487696097	0.57055754	520	21
GSTM1	-0.030500003	0.487685467	0.57055754	520	481
PRAMEF17	-0.030530898	0.487244509	0.57014846	520	10
TTC14	-0.030549577	0.486978019	0.5698697	520	520
RCBTB2	-0.030604378	0.486196605	0.56902132	520	520
NIP7	-0.030605223	0.486184564	0.56902132	520	520
PNLIPRP1	-0.030622812	0.485933918	0.56881293	520	31
TMCO2	-0.030628306	0.485855638	0.56877997	520	98
PELI3	-0.030633126	0.485786968	0.56873997	520	520
KRTAP27-1	-0.030640611	0.485680333	0.56864814	520	14
COL6A4P2	-0.030662421	0.485369723	0.56835047	520	371
DEFB118	-0.030663125	0.485359699	0.56835047	520	21
GTSF1L	-0.030726508	0.484457602	0.56738126	520	403
CTDP1	-0.03072723	0.484447337	0.56738126	520	520
RNF5P1	-0.030729364	0.484416972	0.56738126	520	520
OR5A1	-0.030744489	0.484201854	0.56718056	520	21
KRTAP4-1	-0.030744842	0.484196836	0.56718056	520	468
DLEC1	-0.03081693	0.483172255	0.56607317	520	484
HSD3B2	-0.030820378	0.483123285	0.56604869	520	226
UHRF1	-0.03084095	0.482831125	0.56577213	520	520
PWP1	-0.030884632	0.482211083	0.56507842	520	520
BAG3	-0.030888801	0.482151933	0.56507478	520	520
MED22	-0.030896417	0.482043872	0.56498097	520	520
PLGLA	-0.030909818	0.481853772	0.56479099	520	15
DNTTIP1	-0.030918559	0.481729804	0.56471134	520	520
NBPF4	-0.030933362	0.481519891	0.56453091	520	283
MICALL2	-0.030969091	0.481013465	0.56406836	520	520
OR8S1	-0.030999969	0.480576012	0.56358815	520	61
SMN1	-0.031010548	0.480426199	0.56347801	520	472
KTELC1	-0.031014257	0.480373668	0.56344917	520	520
NCBP2	-0.031023543	0.480242198	0.5633605	520	520
DCDC1	-0.031054637	0.479802076	0.56294246	520	365

ASCC2	-0.03105923	0.479737082	0.56289895	520	520
CYMP	-0.031065445	0.47964915	0.56282853	520	132
GUSBP3	-0.03106644	0.479635061	0.56282853	520	520
ACADM	-0.031082678	0.479405361	0.56260794	520	520
DLGAP2	-0.031107133	0.479059524	0.56223481	520	445
HLA-E	-0.031127106	0.478777172	0.56199955	520	520
LOC100130093	-0.031142991	0.478552664	0.56177074	520	520
C17orf108	-0.031143354	0.478547545	0.56177074	520	520
TMEM128	-0.031177226	0.478069028	0.56138302	520	520
LARS	-0.031212745	0.477567539	0.56087552	520	520
MX2	-0.031226519	0.477373136	0.56067986	520	520
BZW2	-0.031298265	0.47636126	0.5596544	520	520
LYPLA1	-0.031299882	0.476338461	0.5596544	520	520
H1FOO	-0.031342856	0.475732944	0.55913574	520	63
OR5B12	-0.031348102	0.475659055	0.55909001	520	53
GNL1	-0.031365534	0.475413578	0.55883406	520	520
WDR93	-0.031372533	0.475315031	0.55875079	520	428
CXorf27	-0.031447612	0.474258676	0.55760653	520	97
MID1IP1	-0.031483412	0.473755422	0.55704731	520	520
SEC23B	-0.031506749	0.473427516	0.55669422	520	520
NCRNA00162	-0.031549856	0.472822164	0.55607968	520	468
FAM84A	-0.031564738	0.472613278	0.55589886	520	520
CECR5	-0.031566106	0.472594083	0.55589886	520	520
SRGAP3	-0.031569014	0.472553273	0.55589313	520	520
KCNIP4	-0.031579483	0.472406358	0.55578516	520	519
FGF23	-0.031603103	0.472074999	0.55546996	520	134
GJB2	-0.031608433	0.472000257	0.55543701	520	520
DNAI1	-0.03167648	0.471046439	0.55447638	520	205
SIL1	-0.031698278	0.470741125	0.55421405	520	520
KRTAP4-4	-0.031719518	0.470443733	0.55389627	520	22
OR10G4	-0.031720659	0.470427759	0.55389627	520	16
UBE2F	-0.031798132	0.469343905	0.55285959	520	520
HPCA	-0.031806264	0.469230212	0.55275796	520	501
TPTE2P3	-0.031808105	0.46920448	0.55275796	520	224
OR1S2	-0.031820317	0.469033791	0.55259114	520	10
FAM178B	-0.031939657	0.467367527	0.55088553	520	509
KIAA0895	-0.031942798	0.467323707	0.55088357	520	520
LOC100128977	-0.031953565	0.467173542	0.55075347	520	14
TTY9B	-0.031961186	0.467067275	0.55066038	520	19
OR5AP2	-0.031965635	0.467005242	0.55061944	520	29
AGAP5	-0.031966973	0.466986589	0.55061944	520	518
OR52E2	-0.032009251	0.466397336	0.54996701	520	6
CDHR3	-0.032039317	0.465978548	0.54950532	520	512
C10orf2	-0.03211207	0.464966011	0.54841126	520	520
SFRS4	-0.032159332	0.464308903	0.54769654	520	520
RLBP1	-0.032176222	0.46407421	0.54748376	520	263

SUZ12	-0.032176456	0.464070956	0.54748376	520	520
DAGLB	-0.032201722	0.463719976	0.54712988	520	520
RAB8A	-0.03222173	0.463442149	0.54683407	520	520
MGC14436	-0.032249228	0.463060472	0.54647965	520	354
GPR22	-0.032249674	0.463054274	0.54647965	520	300
C3orf15	-0.032251885	0.463023599	0.54647965	520	452
LRTOMT	-0.032282435	0.462599777	0.5460638	520	520
HCG2P7	-0.032286898	0.462537869	0.54605466	520	334
NTRK2	-0.032354477	0.461601176	0.54501265	520	520
IL23R	-0.032374496	0.461323911	0.54478099	520	440
AKAP1	-0.032377066	0.461288316	0.54477086	520	520
MMP25	-0.032384158	0.461190121	0.54468679	520	520
KRTAP10-8	-0.032391758	0.461084894	0.54459441	520	9
MBD3L1	-0.032404658	0.460906313	0.54447917	520	30
RFX5	-0.03241033	0.460827821	0.54441834	520	520
GAD1	-0.032427337	0.46059247	0.54417218	520	516
TRIM47	-0.032482726	0.459826471	0.54342638	520	520
ANKRD31	-0.032493767	0.459673855	0.54327786	520	413
C22orf29	-0.032498777	0.459604625	0.54322788	520	520
IFT57	-0.032504209	0.459529561	0.54320284	520	520
NME6	-0.032506743	0.459494544	0.54319329	520	520
ZNF354B	-0.032523436	0.459263911	0.54298432	520	520
PDE6B	-0.032525446	0.459236154	0.54298334	520	518
UGT3A1	-0.032528651	0.459191886	0.54296283	520	156
SFXN1	-0.032546947	0.458939205	0.54272771	520	520
TAS2R5	-0.032562016	0.458731149	0.54251348	520	487
EYA2	-0.032564407	0.458698145	0.54251348	520	519
GSTTP1	-0.03257904	0.458496176	0.54236284	520	49
SLC25A34	-0.032662936	0.457339152	0.54118466	520	519
URGCP	-0.032663333	0.457333686	0.54118466	520	520
ITLN2	-0.032668621	0.457260817	0.54115548	520	387
TAS2R20	-0.032673068	0.457199533	0.54111471	520	519
BTF3L1	-0.032730648	0.456406534	0.54030302	520	183
PRKAG1	-0.032736618	0.456324357	0.54023746	520	520
ABCB10	-0.03273891	0.456292803	0.54023182	520	520
SCARNA4	-0.032759443	0.456010252	0.53999241	520	4
SLC35A1	-0.032813955	0.455260566	0.53916798	520	520
WRB	-0.032814482	0.455253329	0.53916798	520	520
C7orf23	-0.032817755	0.455208337	0.53916798	520	520
LAG3	-0.03284894	0.454779808	0.53878849	520	520
KIR3DX1	-0.032854489	0.454703577	0.53872983	520	220
SLFN14	-0.03286633	0.454540939	0.53860043	520	304
LCAT	-0.032878945	0.454367695	0.53845843	520	520
MESP2	-0.032903728	0.45402747	0.53811849	520	494
WFDC9	-0.032910099	0.453940034	0.53807094	520	6
HAGHL	-0.032931646	0.45364438	0.53782251	520	520

DCUN1D3	-0.032939152	0.453541416	0.53773206	520	520
DYX1C1	-0.032949179	0.453403892	0.53760062	520	517
WNT8B	-0.032960337	0.453250873	0.53745079	520	274
OR2T2	-0.03297907	0.45299404	0.53724102	520	28
CHRNA2	-0.032988829	0.452860281	0.53711398	520	295
LRRC37B	-0.033020813	0.452422054	0.53668892	520	520
ADAP2	-0.033024824	0.452367109	0.53665531	520	520
LOC146336	-0.033037523	0.452193198	0.53648056	520	392
LOC729176	-0.03306857	0.451768144	0.5360709	520	520
QDPR	-0.033082951	0.451571345	0.535932	520	520
TDRD10	-0.033160512	0.450510745	0.53473621	520	505
KGFLP1	-0.033196495	0.450019186	0.53424709	520	382
C3orf22	-0.033228479	0.449582508	0.53379154	520	26
TUBGCP5	-0.03326081	0.449141334	0.53329913	520	520
ATG16L1	-0.033310487	0.44846394	0.53262027	520	520
IFNA8	-0.033311781	0.448446297	0.53262027	520	49
NAGPA	-0.033318921	0.448348993	0.53255676	520	520
CEACAM20	-0.033332585	0.448162802	0.53238805	520	87
RAP2B	-0.033357724	0.447820351	0.53204393	520	520
LOC144776	-0.033371953	0.447626595	0.53187641	520	17
RBKS	-0.033408836	0.447124559	0.53131119	520	520
NCR3	-0.033410716	0.447098978	0.53131119	520	504
STX8	-0.033465627	0.446352185	0.53048718	520	520
DNAJC16	-0.033490435	0.446015027	0.53021147	520	520
TRAPPC6A	-0.033521759	0.445589519	0.52976811	520	520
C14orf19	-0.033534766	0.445412901	0.52960492	520	520
TRIM21	-0.033535675	0.445400552	0.52960492	520	520
OR1L1	-0.033540836	0.445330486	0.52958504	520	12
RBM33	-0.033601964	0.444501054	0.52872341	520	520
OR5H6	-0.033606707	0.444436735	0.52869549	520	14
PCK1	-0.033610636	0.444383449	0.52867708	520	347
RTCD1	-0.033611607	0.44437029	0.52867708	520	520
PCNT	-0.033615137	0.444322419	0.52866686	520	520
SNORA27	-0.033616874	0.444298874	0.52866686	520	38
HORMAD1	-0.033625496	0.444181982	0.52856214	520	422
OR8G2	-0.033645404	0.443912161	0.52827224	520	5
IFI35	-0.0336621	0.443685934	0.52807798	520	520
SULT2A1	-0.033716038	0.442955558	0.52728944	520	60
FANCB	-0.033728033	0.442793227	0.52712733	520	520
TNFSF9	-0.033757372	0.442396312	0.52673313	520	520
MAP2K6	-0.03377392	0.442172527	0.52651275	520	519
ACTL9	-0.033777852	0.442119366	0.52648054	520	32
NELL2	-0.033858104	0.441035113	0.52531349	520	520
TOX4	-0.033902571	0.440434985	0.52466799	520	520
HOXD10	-0.033953854	0.439743452	0.52394347	520	520
TMIGD1	-0.034037385	0.4386184	0.52271285	520	53

KRTAP10-1	-0.034115471	0.437568167	0.52155373	520	26
CENPJ	-0.034120401	0.437501911	0.52153642	520	520
ZNF273	-0.034126583	0.437418838	0.52146822	520	520
KCNC2	-0.034153237	0.437060755	0.52107214	520	97
SNORD115-7	-0.034160109	0.436968458	0.5209929	520	4
ERCC1	-0.034170881	0.436823806	0.52088204	520	520
OR5H14	-0.034195664	0.436491108	0.52054688	520	4
SNORA32	-0.034208685	0.436316372	0.52036927	520	9
AOX2P	-0.0342213	0.436147118	0.52022895	520	91
OR2T27	-0.034244251	0.435839285	0.51995405	520	5
KRTAP9-2	-0.034442864	0.433180609	0.5170882	520	92
ISX	-0.034447713	0.433115807	0.51704145	520	108
LOC400752	-0.034486674	0.432595413	0.51648137	520	519
FER1L5	-0.034491615	0.432529441	0.51643319	520	386
RTF1	-0.034534934	0.43195131	0.51583454	520	520
PRDM7	-0.034579068	0.431362766	0.51525377	520	119
CPA6	-0.034590603	0.431209011	0.51516166	520	486
C14orf64	-0.03459403	0.431163345	0.51515923	520	515
ZNF705A	-0.034602285	0.431053343	0.51506724	520	215
MOGAT3	-0.034608333	0.43097276	0.51501874	520	70
ARL9	-0.034611999	0.430923918	0.51501874	520	513
C2orf83	-0.034619001	0.430830639	0.5149537	520	54
KIAA1958	-0.0346345	0.430624208	0.51479851	520	519
B3GNT5	-0.034730716	0.429344004	0.51348117	520	520
GPR18	-0.034759999	0.428954809	0.51307657	520	517
OR4X1	-0.034778349	0.428711032	0.5128154	520	16
7-Mar	-0.034800119	0.428421916	0.51253038	520	520
C3orf49	-0.034803764	0.428373521	0.51250289	520	171
SYT17	-0.034808534	0.428310206	0.51245754	520	520
SNORA54	-0.03482727	0.428061514	0.51222078	520	10
CRNKL1	-0.034851035	0.427746192	0.51190422	520	520
TOPORS	-0.034860707	0.427617904	0.51184183	520	520
AQP4	-0.034899438	0.427104382	0.51134858	520	338
TIA1	-0.034920321	0.426827666	0.51107797	520	520
COQ10A	-0.034923288	0.426788354	0.51106125	520	520
CA2	-0.034923978	0.426779209	0.51106125	520	520
PCGF5	-0.034930935	0.426687046	0.51100063	520	520
LRRC37A2	-0.034934726	0.426636835	0.51097084	520	520
TPH2	-0.034970042	0.426169207	0.51047142	520	65
MCCD1	-0.034989228	0.425915291	0.51019758	520	31
KRTAP12-2	-0.035014106	0.425586176	0.50983363	520	26
NLE1	-0.035028346	0.425397855	0.50963831	520	520
KTI12	-0.035086141	0.424634033	0.50884416	520	520
GATM	-0.035094043	0.424529655	0.50874931	520	520
ARHGAP39	-0.035115147	0.424250986	0.5084758	520	520
BOK	-0.035124738	0.42412437	0.50835427	520	520

RNF148	-0.035161215	0.423643036	0.50786791	520	372
DEFB104A	-0.035171637	0.423505573	0.50776349	520	68
PUS3	-0.035243933	0.422552706	0.50668963	520	520
DBF4B	-0.035245463	0.422532561	0.50668963	520	520
C12orf43	-0.035315394	0.421612081	0.50570377	520	520
NCL	-0.035384771	0.420700065	0.50475997	520	520
LRRC8D	-0.03539908	0.420512109	0.50456448	520	520
DUSP11	-0.035404314	0.420443361	0.50454204	520	520
DNAJB6	-0.035422075	0.420210154	0.5042922	520	520
TEKT2	-0.035434627	0.420045381	0.50412446	520	470
OR1K1	-0.03544033	0.419970529	0.50406463	520	97
MMACHC	-0.035471606	0.419560173	0.50360208	520	520
OR13C8	-0.0354746	0.419520901	0.50358492	520	13
C3orf43	-0.035478159	0.419474221	0.50355886	520	443
UBE2Q1	-0.035478773	0.419466165	0.50355886	520	520
OR10J3	-0.035487533	0.41935129	0.50350122	520	29
RPRD1A	-0.035494923	0.419254401	0.50341486	520	520
TACR2	-0.035496253	0.419236962	0.50341486	520	517
MYCNOS	-0.035574454	0.41821242	0.50246292	520	162
DIS3L2	-0.035631726	0.417463018	0.50162233	520	520
ZNF562	-0.035651943	0.417198666	0.50133456	520	520
CNNM1	-0.035675774	0.416887179	0.50101997	520	488
OR6F1	-0.035685118	0.41676509	0.5009031	520	20
SLC13A1	-0.035703394	0.41652635	0.500646	520	55
DAOA	-0.035773724	0.41560837	0.49963198	520	8
ARHGAP11A	-0.035786217	0.415445435	0.49946588	520	520
TP53TG5	-0.03581223	0.415106274	0.49911764	520	55
OR2F1	-0.035836547	0.414789381	0.4987961	520	13
SIRT2	-0.035850234	0.41461108	0.49861143	520	520
PCSK6	-0.035866847	0.414394723	0.49838096	520	520
DDX27	-0.035879152	0.414234506	0.49821799	520	520
SLC1A5	-0.035897751	0.413992421	0.49798085	520	520
NAPEPLD	-0.035929956	0.413573429	0.49754159	520	520
MAPK8IP3	-0.035939354	0.41345121	0.49742424	520	520
HCP5	-0.035958341	0.413204346	0.4971569	520	520
FLJ40852	-0.035965356	0.413113164	0.49707685	520	517
SNORA11E	-0.035969916	0.413053887	0.49703518	520	4
LOC728410	-0.035971689	0.413030848	0.49703518	520	22
FBXW7	-0.035996627	0.412706821	0.49670648	520	520
ZNRF2	-0.036023438	0.412358636	0.49634668	520	520
TMEM88B	-0.036040733	0.412134122	0.49610605	520	308
C20orf197	-0.036089421	0.411502464	0.495464	520	491
SNORA80	-0.036160564	0.410580514	0.49444252	520	15
ORM1	-0.036173853	0.410408428	0.49432385	520	386
EIF4A2	-0.036190253	0.410196122	0.49412716	520	520
MLNR	-0.036197796	0.410098501	0.49409812	520	272

EHMT1	-0.036200967	0.410057462	0.4940782	520	520
HIF1AN	-0.036226274	0.40973005	0.4937132	520	520
SLC5A7	-0.036270838	0.409153872	0.49307786	520	142
RANBP17	-0.036300228	0.408774144	0.49267913	520	502
PGBD4	-0.036304061	0.408724634	0.4926489	520	520
SNORA71C	-0.036306561	0.408692349	0.49263944	520	31
OTUD6A	-0.03632465	0.408458768	0.49238731	520	50
GRXCR2	-0.036420805	0.407218451	0.49100956	520	131
LOC100133920	-0.036426257	0.407148194	0.4909542	520	101
SNORA12	-0.036429462	0.407106898	0.4909542	520	44
RPL13AP17	-0.036435787	0.407025395	0.4908942	520	78
OR7C2	-0.036443056	0.406931756	0.49081062	520	24
MIER2	-0.036475078	0.406519363	0.49037189	520	520
OPN1LW	-0.036488942	0.406340897	0.49018593	520	45
KIR2DL3	-0.036502212	0.406170125	0.49000924	520	361
SELS	-0.036541278	0.405667624	0.48952017	520	520
OR7E24	-0.036550306	0.40555155	0.48943868	520	100
RAD18	-0.036554906	0.405492405	0.48939659	520	520
MAST4	-0.036571216	0.405282785	0.48923145	520	520
MAPK6	-0.036616978	0.404694951	0.4885511	520	520
YBX1	-0.036644317	0.404344009	0.48815666	520	520
IGJ	-0.036658904	0.404156832	0.4879599	520	520
C1orf173	-0.036673916	0.403964262	0.48778582	520	351
AIFM2	-0.036698952	0.403643232	0.48742736	520	520
SPANXN2	-0.036703469	0.403585318	0.48738662	520	11
CCDC52	-0.036724526	0.403315449	0.48708988	520	520
OR4Q3	-0.036742063	0.403090779	0.48687687	520	22
C8orf42	-0.036775969	0.402656596	0.48641071	520	520
RAB21	-0.036784154	0.402551828	0.48631329	520	520
PLG	-0.036807203	0.402256884	0.48604433	520	89
MED10	-0.036841197	0.40182212	0.4855772	520	520
C1orf68	-0.036867193	0.401489827	0.48520473	520	469
ARFRP1	-0.036867603	0.401484595	0.48520473	520	520
TRIM53	-0.036929068	0.400699601	0.48430778	520	124
CROCCL2	-0.036933345	0.400645002	0.48427082	520	520
MLC1	-0.036966096	0.400227139	0.48382374	520	510
ZDHHC5	-0.036981804	0.400026809	0.48363956	520	520
NT5M	-0.036994902	0.399859817	0.48352464	520	519
PTF1A	-0.036995215	0.399855835	0.48352464	520	26
CASP8	-0.037040699	0.399276268	0.48290587	520	520
ZNF84	-0.037058004	0.399055889	0.48269724	520	520
TMEM145	-0.037067087	0.398940253	0.48264422	520	496
KLHDC8B	-0.037095162	0.398582945	0.48229876	520	520
OCIAD2	-0.03709798	0.398547089	0.48228431	520	520
DUSP23	-0.037120215	0.398264263	0.48197099	520	520
CNOT3	-0.037125231	0.398200469	0.48192271	520	520

LOC100132831	-0.037160278	0.397754964	0.48141243	520	515
OR10A4	-0.037183025	0.397465966	0.48109153	520	37
GPR119	-0.037188799	0.397392624	0.48106051	520	21
ZNF16	-0.037201615	0.397229879	0.48089237	520	520
TMBIM1	-0.037227676	0.396899053	0.48052071	520	520
TNFRSF10A	-0.037244889	0.396680635	0.48028512	520	520
AKR1CL1	-0.037245136	0.396677497	0.48028512	520	164
SMC2	-0.037271759	0.396339818	0.47998775	520	520
SARS	-0.0372976	0.396012228	0.47961983	520	520
CST8	-0.037300895	0.395970469	0.47959806	520	30
RASSF1	-0.037333408	0.395558555	0.47915672	520	520
KCNJ9	-0.037343635	0.395429042	0.47902861	520	297
NEU2	-0.037415592	0.394518498	0.47806917	520	313
PATE1	-0.037433302	0.394294581	0.47782655	520	19
TULP2	-0.037447569	0.394114255	0.47769415	520	313
PKN2	-0.037468194	0.393853673	0.47746441	520	520
TTY6	-0.037481077	0.393690948	0.47729583	520	4
APOA2	-0.037512631	0.39329257	0.47684152	520	149
PSPH	-0.037552161	0.392793829	0.47632275	520	520
TCP10	-0.037553495	0.392777008	0.47632275	520	36
WASF2	-0.037593093	0.392277811	0.47584009	520	520
CNOT8	-0.037612714	0.392030598	0.47562605	520	520
CLCNKA	-0.037629825	0.391815084	0.47542179	520	405
XBP1	-0.037630864	0.391801996	0.47542179	520	520
WBP1	-0.037635525	0.391743305	0.47542052	520	520
GGT3P	-0.037650724	0.391551956	0.4752169	520	519
OR5L1	-0.037652443	0.391530323	0.4752169	520	8
RGL4	-0.037675336	0.391242228	0.47492675	520	512
CACNA1F	-0.037690897	0.391046474	0.47480191	520	499
SNORA6	-0.037696063	0.390981491	0.47475315	520	79
C22orf36	-0.037711626	0.390785801	0.47454411	520	520
TERC	-0.037716745	0.390721439	0.47449453	520	385
TMEM89	-0.03771893	0.390693968	0.47448974	520	138
OR13F1	-0.037732601	0.390522137	0.47430962	520	17
GOSR1	-0.037769684	0.390056262	0.47377233	520	520
FAM47A	-0.037789464	0.389807897	0.47352771	520	90
MTUS1	-0.037789562	0.389806671	0.47352771	520	520
SNORA37	-0.03779475	0.389741545	0.47352771	520	14
C14orf169	-0.037820051	0.389424038	0.47320395	520	520
REG3A	-0.037823851	0.389376356	0.47317452	520	93
TAF7	-0.037837464	0.389205605	0.47305255	520	520
OR10P1	-0.037853031	0.389010392	0.47287229	520	40
C10orf78	-0.037862587	0.388890597	0.47278367	520	520
FAM155B	-0.037883043	0.388634216	0.47252896	520	504
CXorf50B	-0.037900026	0.388421442	0.47235571	520	232
NAA25	-0.037908354	0.388317128	0.47228582	520	520

SNORA44	-0.037938211	0.387943288	0.47188806	520	13
ZFAND1	-0.037940276	0.387917439	0.47188509	520	520
WVOX	-0.037943293	0.387879684	0.47186763	520	520
PRKCG	-0.037950791	0.387785837	0.47178192	520	385
CAST	-0.037989869	0.387296998	0.4712725	520	520
CUEDC2	-0.038010533	0.387038658	0.47104343	520	520
FGF3	-0.038026339	0.386841119	0.47083143	520	111
FAM189B	-0.038034073	0.386744494	0.47075793	520	520
SPATA16	-0.038054593	0.386488166	0.47054386	520	23
HBZ	-0.038056626	0.386462779	0.47054386	520	98
TAF1D	-0.038056707	0.38646177	0.47054386	520	520
IL17REL	-0.038073686	0.386249775	0.47042404	520	409
HPR	-0.038077535	0.386201717	0.47039392	520	178
FLVCR1	-0.038105312	0.385855071	0.47005689	520	520
TBKBP1	-0.038128763	0.38556256	0.46978569	520	520
DMRTC2	-0.038157655	0.385202376	0.46940356	520	103
TMEM33	-0.038161769	0.385151098	0.46936944	520	520
OR10A2	-0.038187876	0.384825832	0.4690581	520	32
IRF2BP1	-0.038198853	0.384689119	0.4689198	520	520
HIST1H2AB	-0.038223329	0.384384388	0.46857668	520	391
HIST2H2AB	-0.038241352	0.384160093	0.46840013	520	369
OR9Q1	-0.038249475	0.384059021	0.46837826	520	50
SPTLC1	-0.038263954	0.383878917	0.46818693	520	520
C21orf2	-0.038307946	0.383332024	0.46771796	520	520
CENPL	-0.03833755	0.382964263	0.46732579	520	520
LENG8	-0.038341041	0.38292091	0.46730117	520	520
DSG1	-0.038344917	0.382872781	0.46727072	520	520
NCAPH	-0.038347585	0.382839648	0.46727072	520	520
OR4F17	-0.038350815	0.382799545	0.46726618	520	3
OTX2	-0.038356766	0.382725666	0.46723257	520	197
ARSG	-0.038372789	0.382526773	0.46701803	520	520
HNF4A	-0.03839704	0.38222588	0.4667019	520	391
CNOT2	-0.038404248	0.382136485	0.46665456	520	520
TTY11	-0.038404517	0.382133147	0.46665456	520	5
FAM71B	-0.038430152	0.381815279	0.46637529	520	37
OR51M1	-0.038449959	0.381569802	0.46613865	520	26
GNAI1	-0.038466233	0.381368178	0.4659703	520	520
TAP2	-0.038482074	0.381171976	0.46578703	520	520
MT1IP	-0.038496528	0.380993007	0.46562476	520	53
NCRNA00203	-0.038498723	0.380965839	0.46561978	520	201
DMRT1	-0.038579371	0.37996826	0.46456949	520	346
LRRC20	-0.038592971	0.379800191	0.46439216	520	520
OR51I1	-0.03861671	0.379506936	0.46411802	520	63
AP3S1	-0.038648607	0.379113125	0.46369265	520	520
IRGC	-0.038666414	0.378893383	0.46348011	520	138
ATP12A	-0.038684776	0.378666876	0.46323114	520	491

NKAIN1	-0.038690666	0.378594238	0.46317038	520	518
SLC25A6	-0.038749619	0.377867641	0.46236562	520	520
UIMC1	-0.038796512	0.377290315	0.46173883	520	520
ATL2	-0.038807552	0.377154468	0.46163304	520	520
NEK5	-0.038813506	0.37708122	0.4615714	520	405
MCL1	-0.038843481	0.376712576	0.46115736	520	520
RRAGD	-0.038846514	0.376675292	0.46115736	520	520
PRO1768	-0.038860146	0.37650773	0.46098135	520	44
GAPDHS	-0.038889299	0.37614953	0.46066473	520	432
WHSC1	-0.038907621	0.375924525	0.46043504	520	520
OR2T33	-0.038914583	0.375839052	0.46035832	520	63
METTL1	-0.038925432	0.375705872	0.46025854	520	520
IL12A	-0.038957021	0.375318263	0.45991598	520	505
LOC285847	-0.038978787	0.375051329	0.45970063	520	98
MOS	-0.038992249	0.374886303	0.45955422	520	30
UMOD	-0.038996557	0.374833492	0.45951742	520	70
GLTSCR1	-0.039029478	0.374430126	0.45910666	520	520
GSTA5	-0.039053274	0.374138727	0.45883307	520	42
USP17	-0.039076326	0.37385658	0.45851494	520	26
WBSCR27	-0.039101219	0.373552045	0.45819718	520	516
ZCCHC16	-0.039104567	0.373511096	0.45817482	520	40
HIF3A	-0.03913667	0.373118603	0.45777691	520	486
IL15RA	-0.039141412	0.373060658	0.45773367	520	520
VSTM2B	-0.039147716	0.37298362	0.45766699	520	55
SLC45A4	-0.039265351	0.371547914	0.45601632	520	520
LYG2	-0.039266548	0.371533321	0.45601632	520	286
COMMD2	-0.039270794	0.371481571	0.45599041	520	520
KRTAP9-4	-0.039279719	0.371372796	0.45591239	520	135
OLFM1	-0.039293091	0.371209853	0.4557401	520	520
MSH3	-0.039296414	0.371169376	0.45571816	520	520
DEFB123	-0.039359078	0.370406447	0.45486453	520	11
KRT84	-0.039363564	0.37035188	0.45482522	520	466
CKAP2	-0.039379539	0.370157555	0.45461426	520	520
DIAPH1	-0.039403721	0.369863534	0.45428083	520	520
OR5M1	-0.039404494	0.369854133	0.45428083	520	7
DKFZp779M0652	-0.039417611	0.369694702	0.45415645	520	478
PROSC	-0.039446571	0.369342879	0.45375189	520	520
AGBL2	-0.039474035	0.369009411	0.45339746	520	518
SLC2A1	-0.039497372	0.368726201	0.45307709	520	520
WARS2	-0.039515928	0.3685011	0.45282809	520	520
HPD	-0.039586262	0.367648699	0.4518357	520	463
SLC9A9	-0.039608938	0.367374143	0.45155332	520	520
CD46	-0.039630258	0.367116116	0.45129119	520	520
LYSMD2	-0.039642536	0.366967564	0.45113608	520	520
SMPDL3B	-0.039645401	0.366932918	0.45112099	520	520
HS6ST3	-0.039661448	0.366738837	0.45093737	520	367

ZNF431	-0.03971975	0.366034273	0.45015385	520	520
KRTAP20-2	-0.039728925	0.365923466	0.45007202	520	7
ZNF519	-0.039751272	0.365653676	0.44979654	520	518
XPO7	-0.039758621	0.365564985	0.44974084	520	520
SYNCRIP	-0.039827252	0.364737324	0.44885953	520	520
TATDN1	-0.039876224	0.364147461	0.44816097	520	520
SESN1	-0.039884972	0.364042159	0.44805873	520	520
SVIP	-0.039895494	0.363915521	0.4479302	520	520
CCDC114	-0.039913554	0.363698232	0.44771741	520	513
KRT85	-0.03991371	0.363696351	0.44771741	520	339
LCE2D	-0.039923843	0.363574472	0.44761971	520	314
CD8B	-0.039942701	0.363347706	0.44736784	520	516
MGST1	-0.039989509	0.362785243	0.44670259	520	520
AMDHD2	-0.040013095	0.362502017	0.44640837	520	520
OR4D6	-0.040062431	0.361910055	0.44578829	520	18
FIS1	-0.040067777	0.36184594	0.44573655	520	520
ACOT12	-0.040077312	0.361731615	0.44562294	520	82
WDFY2	-0.040080623	0.361691923	0.44560127	520	520
HERC5	-0.040081706	0.361678943	0.44560127	520	520
OR4K2	-0.040090164	0.361577558	0.44551481	520	25
SNORD94	-0.040092012	0.361555411	0.44551475	520	94
GRAMD2	-0.040092647	0.361547795	0.44551475	520	520
WDR66	-0.040123006	0.361184053	0.44519318	520	520
KSR1	-0.04015152	0.36084263	0.44490833	520	520
CCDC109A	-0.040242472	0.359754916	0.44367573	520	520
MGC3771	-0.040254581	0.359610254	0.44352445	520	510
LOC284551	-0.040317334	0.358861162	0.44270887	520	248
GUCA2A	-0.040321078	0.3588165	0.44268086	520	88
TNK2	-0.040335275	0.35864719	0.44252613	520	520
RIMKLA	-0.040369392	0.358240493	0.44207841	520	499
NCRNA00159	-0.040371863	0.35821105	0.44206914	520	32
PMCHL1	-0.040372203	0.358206992	0.44206914	520	40
NIPA2	-0.040421134	0.357624243	0.44150709	520	520
ADHFE1	-0.040422512	0.357607848	0.44150709	520	518
NLRP13	-0.04043526	0.357456119	0.4413806	520	58
DGCR6L	-0.040436665	0.357439409	0.4413806	520	520
SNORA2A	-0.040447133	0.35731485	0.44126021	520	12
FGF20	-0.040458058	0.357184897	0.44115376	520	90
LOC729121	-0.040469075	0.357053864	0.44101894	520	13
PNPLA2	-0.040482912	0.356889348	0.44084274	520	520
RBCK1	-0.040484816	0.356866719	0.44084179	520	520
RASEF	-0.040484867	0.356866109	0.44084179	520	511
FCRL5	-0.040494373	0.356753117	0.44075546	520	501
RPN1	-0.040497816	0.356712195	0.44073191	520	520
ITIH5L	-0.040499497	0.356692219	0.44073191	520	480
MRGPRX3	-0.04052438	0.35639658	0.44042291	520	483

SCGB1D1	-0.040546325	0.356135983	0.44012785	520	13
KRT26	-0.040550122	0.356090911	0.44009912	520	9
LOC157381	-0.040553777	0.356047524	0.44007247	520	504
EGOT	-0.040555705	0.356024632	0.44007115	520	472
UBA3	-0.040560669	0.355965715	0.4400253	520	520
CREG1	-0.040601029	0.355486899	0.4394873	520	520
LOC91450	-0.040602457	0.355469966	0.4394873	520	517
BLVRA	-0.040621304	0.355246507	0.4392709	520	520
TFAP2B	-0.040631068	0.355130781	0.43915473	520	262
C15orf60	-0.040641459	0.355007655	0.43905323	520	146
ZFPL1	-0.040654989	0.354847362	0.438885	520	520
CTSE	-0.040689939	0.354433516	0.43842693	520	431
RTP2	-0.040710459	0.354190687	0.4382072	520	119
C18orf32	-0.040738215	0.353862391	0.43788164	520	520
C15orf50	-0.040741925	0.353818522	0.43785422	520	90
RALGPS2	-0.040755213	0.353661424	0.43768667	520	520
CBFA2T3	-0.040757136	0.353638693	0.4376854	520	520
C3orf77	-0.040806383	0.353056902	0.43709949	520	41
APOA5	-0.040825769	0.352828045	0.43684298	520	167
LOC284661	-0.040851987	0.352518692	0.43648676	520	52
ANTXRL	-0.040856557	0.352464789	0.43646028	520	65
LOC100271832	-0.040860812	0.352414597	0.43643827	520	114
PNPLA7	-0.040895309	0.352007887	0.43598815	520	520
KLF8	-0.04091972	0.35172027	0.43565867	520	520
B3GNTL1	-0.040950992	0.351352029	0.43522929	520	520
LOC100133545	-0.040954968	0.35130522	0.43519804	520	396
AMDHD1	-0.040979026	0.351022113	0.43490076	520	506
LOC100130148	-0.04100297	0.3507405	0.43460526	520	85
ZNF732	-0.041038651	0.350321101	0.43416562	520	447
C9orf96	-0.041042699	0.350273536	0.43413336	520	500
HIST1H2BH	-0.041061874	0.3500483	0.43388087	520	517
WFDC8	-0.041070419	0.349947957	0.43378316	520	20
KIF18A	-0.041096159	0.349645807	0.43346192	520	520
ZNF425	-0.041096255	0.349644676	0.43346192	520	520
PRR24	-0.041118572	0.349382845	0.43318918	520	520
PIM1	-0.041124307	0.349315578	0.43313241	520	520
UBE2R2	-0.041159412	0.348903998	0.4327019	520	520
SLC16A13	-0.041168143	0.348801685	0.43262348	520	520
TSLP	-0.041194812	0.348489287	0.43229394	520	520
OR11H4	-0.041198288	0.348448577	0.43227003	520	93
CLCN1	-0.04119881	0.34844247	0.43227003	520	509
NFU1	-0.041217689	0.348221442	0.43205846	520	520
CLDND2	-0.041262124	0.34770157	0.43147606	520	440
ACVR2A	-0.041276686	0.347531314	0.43129132	520	520
PLIN3	-0.041290222	0.347373091	0.4311215	520	520
PRSS50	-0.041291733	0.347355428	0.4311215	520	373

SNAR-A3	-0.041316751	0.347063128	0.43084288	520	4
TMEM208	-0.04136512	0.346498455	0.43023268	520	520
LOC348926	-0.041371645	0.346422323	0.43017981	520	520
KPNA7	-0.041390076	0.346207334	0.42993932	520	512
SMR3A	-0.041416547	0.345898719	0.42960898	520	65
OR7E37P	-0.041436677	0.345664147	0.42937053	520	164
DGCR9	-0.041442454	0.345596838	0.42931337	520	510
HPS6	-0.041444525	0.345572715	0.42930985	520	520
LOC440896	-0.041444565	0.345572253	0.42930985	520	334
BSCL2	-0.041490711	0.345034983	0.42880033	520	520
OR5B17	-0.041507338	0.344841536	0.42858634	520	6
CETN1	-0.041552517	0.344316231	0.42801261	520	30
DVWA	-0.041560326	0.344225476	0.42792617	520	478
OGFR	-0.04159431	0.34383074	0.42748816	520	520
C1orf51	-0.041648618	0.343200531	0.42678357	520	520
CD8A	-0.04172202	0.342349925	0.42580458	520	520
SNORA34	-0.041760409	0.341905593	0.42533064	520	51
OCEL1	-0.041779039	0.341690088	0.42511501	520	520
TBPL1	-0.041781139	0.34166581	0.42511103	520	520
ZBED5	-0.041827175	0.341133691	0.42455374	520	520
RPS6KA1	-0.041837649	0.341012693	0.42442935	520	520
TAAR1	-0.041893114	0.340372435	0.42373495	520	69
C19orf54	-0.04192355	0.340021425	0.42335239	520	520
ADAM6	-0.042009046	0.339036667	0.42225666	520	520
ZNF180	-0.042025473	0.338847663	0.42207341	520	520
PIGQ	-0.042049309	0.338573533	0.42181012	520	520
C4orf40	-0.04206998	0.338335927	0.42154014	520	120
KRT71	-0.042106065	0.337921389	0.42110172	520	386
BARHL1	-0.042129358	0.337653976	0.42079449	520	121
DDX11L2	-0.042151402	0.33740103	0.42053124	520	500
SNRPB2	-0.042155386	0.337355328	0.42052626	520	520
PRB3	-0.042184243	0.337024417	0.42016572	520	409
COX15	-0.042198062	0.336866016	0.41999421	520	520
KRTAP10-12	-0.042199765	0.336846502	0.41999421	520	47
RGR	-0.042212944	0.336695497	0.41983353	520	62
ACCN5	-0.042221862	0.336593337	0.4197321	520	76
KRT12	-0.042239052	0.336396468	0.41951255	520	211
EFCAB10	-0.04233816	0.335262904	0.41822824	520	501
ZG16	-0.042338168	0.335262819	0.41822824	520	152
C10orf35	-0.042358053	0.335035673	0.41804822	520	519
SNORA71A	-0.042371663	0.334880267	0.41788017	520	46
TTC29	-0.042380502	0.334779363	0.41778011	520	215
SH2D6	-0.042385843	0.334718394	0.41772988	520	289
RND3	-0.042404336	0.334507378	0.41754406	520	520
CSDA	-0.042463744	0.333830049	0.41675019	520	520
C1orf185	-0.042533972	0.333030497	0.41588078	520	14

STRA8	-0.042551114	0.332835522	0.41566304	520	179
FOXO4	-0.042569461	0.332626912	0.41542825	520	520
PRR23B	-0.042573163	0.332584839	0.41540143	520	70
RPAP2	-0.042575718	0.332555796	0.41539089	520	520
TMEM19	-0.042595039	0.332336247	0.41516809	520	520
FAM19A4	-0.042599323	0.332287569	0.415133	520	173
SLC22A10	-0.042668951	0.331497211	0.41419691	520	76
CABLES2	-0.042677206	0.331403586	0.41410559	520	520
KRTAP4-3	-0.042719998	0.33091853	0.41368322	520	7
OR2A2	-0.042723252	0.330881667	0.41368322	520	50
ARMC8	-0.042728071	0.330827072	0.41366719	520	520
UBD	-0.042772779	0.330320879	0.4131111	520	520
IMP4	-0.042802703	0.329982358	0.41271333	520	520
FADS6	-0.042859782	0.329337252	0.41198315	520	446
PRRT3	-0.042883127	0.329073645	0.41167893	520	520
MYADML	-0.042886142	0.329039609	0.41166189	520	164
C2orf73	-0.042905464	0.328821542	0.41141459	520	228
TMEM185A	-0.042920542	0.328651449	0.41122729	520	520
VAMP1	-0.042960764	0.328197961	0.41076182	520	520
UGT2B11	-0.042974805	0.328039753	0.4105893	520	63
GMPPB	-0.042980637	0.327974048	0.41053254	520	520
SNORA69	-0.042994095	0.327822474	0.41036829	520	4
PSMC2	-0.043010136	0.327641867	0.4102186	520	520
ARPC4	-0.043040348	0.327301877	0.40984382	520	520
3-Mar	-0.043111778	0.32649896	0.4089654	520	520
RFFL	-0.043120617	0.326399696	0.40889187	520	520
SNW1	-0.043143799	0.326139435	0.4086166	520	520
DAXX	-0.043222792	0.325253619	0.40757092	520	520
NFS1	-0.043287984	0.324523754	0.40669341	520	520
LEP	-0.043336646	0.323979635	0.40608724	520	407
C16orf81	-0.043336992	0.323975771	0.40608724	520	189
LRP8	-0.043358708	0.323733147	0.40585396	520	520
TAS2R16	-0.043386887	0.323418489	0.4054847	520	12
PDE12	-0.043387051	0.323416652	0.4054847	520	520
TRIM13	-0.04340416	0.323225707	0.4053186	520	520
PDK2	-0.04341497	0.323105103	0.40521777	520	520
CLGN	-0.043424419	0.322999693	0.40511077	520	484
CCAR1	-0.04342844	0.322954849	0.40507972	520	520
RBBP8	-0.043440214	0.322823561	0.40494024	520	520
ASB13	-0.04344239	0.322799293	0.40493499	520	520
TPRX1	-0.043449272	0.322722578	0.40489872	520	69
ZNF195	-0.043450723	0.3227064	0.40489872	520	520
PPBPL2	-0.043480361	0.322376139	0.40455517	520	35
NCRNA00032	-0.043521577	0.321917227	0.40402956	520	160
ATAD5	-0.043529507	0.321828987	0.40394396	520	520
C14orf68	-0.043538898	0.321724499	0.40383795	520	349

LPAR5	-0.043541637	0.321694033	0.40382484	520	520
FAT2	-0.043549767	0.321603606	0.40373647	520	520
ZCCHC6	-0.043566211	0.321420741	0.40355715	520	520
SPATA12	-0.043601602	0.321027425	0.40318885	520	505
ZNF642	-0.043618386	0.320841008	0.40297982	520	520
KRCC1	-0.043643195	0.320565581	0.40268405	520	520
HIST1H1A	-0.043652447	0.320462905	0.40260523	520	174
HIST1H2AH	-0.043680911	0.320147162	0.40223362	520	440
SPATA2L	-0.043712629	0.319795566	0.40184195	520	520
LY6G6F	-0.043717142	0.319745549	0.40180414	520	169
LCORL	-0.043727011	0.319636211	0.40169178	520	520
ZNRF4	-0.043775118	0.319103597	0.40107243	520	65
RNASEH2B	-0.043775361	0.319100906	0.40107243	520	520
SNORD10	-0.043827623	0.318522931	0.40041748	520	217
KLRAQ1	-0.043842115	0.318362786	0.40031599	520	520
ANKRD24	-0.043847513	0.31830315	0.40026596	520	515
ACAP1	-0.043891336	0.317819255	0.39975719	520	520
ZNF485	-0.043898188	0.317743645	0.39968702	520	520
ANXA2	-0.043930962	0.317382126	0.39930699	520	520
TRMT6	-0.04394264	0.317253372	0.39916991	520	520
CTXN1	-0.043949022	0.317183019	0.3991063	520	520
IMMT	-0.043955558	0.317110989	0.39906547	520	520
TBC1D3P2	-0.044018055	0.316422729	0.39832363	520	93
PRPF4	-0.044057224	0.315991873	0.39780609	520	520
PPP2R2C	-0.044069124	0.315861057	0.39769106	520	520
TBX10	-0.044073372	0.31581436	0.3976571	520	200
USP6	-0.044076348	0.315781656	0.39764075	520	519
TMPRSS5	-0.04408408	0.315696685	0.39755858	520	484
OR5AU1	-0.044125958	0.315236735	0.39707856	520	60
DLK2	-0.044145414	0.315023206	0.39683438	520	520
CXorf22	-0.044167775	0.314777903	0.39657492	520	216
SLC20A2	-0.044179945	0.314644449	0.39643156	520	520
C20orf165	-0.044198817	0.314437576	0.39619567	520	494
LRIT1	-0.044221937	0.314184256	0.39590122	520	33
PPIL6	-0.044224604	0.314155046	0.39588915	520	519
SNAPC5	-0.044253516	0.313838474	0.39551494	520	520
C2CD4A	-0.044257312	0.313796928	0.3954873	520	520
OR8H2	-0.044271488	0.313641797	0.39531649	520	5
ACSM2A	-0.044275381	0.313599204	0.39528751	520	152
MAPK11	-0.044275845	0.313594123	0.39528751	520	520
GBP2	-0.044282165	0.313524994	0.39524339	520	520
SNORD15A	-0.044288042	0.313460713	0.39518706	520	41
NUP107	-0.04429993	0.313330706	0.39504786	520	520
IFNW1	-0.044317615	0.313137371	0.39482879	520	100
LSM10	-0.044339631	0.312896805	0.39455389	520	520
KAT5	-0.044346974	0.312816598	0.39449833	520	520

CLPS	-0.044357356	0.312703207	0.39438	520	61
RALA	-0.044378628	0.312470982	0.39411177	520	520
OR8B8	-0.044387034	0.312379245	0.39402071	520	5
NPNT	-0.044398981	0.312248891	0.39388093	520	520
MAPKBP1	-0.044434264	0.311864128	0.3934448	520	520
ZNF799	-0.044437317	0.311830846	0.3934448	520	520
PI4KB	-0.044443496	0.311763501	0.39341631	520	520
KRT79	-0.044499095	0.31115796	0.39272591	520	506
OR13D1	-0.044504851	0.31109532	0.39267143	520	26
ACAP2	-0.044510541	0.311033394	0.39261784	520	520
APOL4	-0.044510872	0.311029793	0.39261784	520	520
KRTAP12-3	-0.044556936	0.310528823	0.39205455	520	15
SNORA39	-0.044566797	0.310421644	0.39194377	520	488
GPR25	-0.044596427	0.310099753	0.39156186	520	411
NR4A2	-0.044634786	0.30968336	0.39110956	520	520
WNT10A	-0.044717383	0.308788012	0.3901743	520	520
KDM4C	-0.044729018	0.308662024	0.39008844	520	520
CDC42SE2	-0.044797775	0.307918202	0.38927038	520	520
CARTPT	-0.044806392	0.30782507	0.38917705	520	57
ZMYND8	-0.044833477	0.307532442	0.38888023	520	520
CPN1	-0.044835014	0.307515843	0.38888023	520	171
ZNF740	-0.044892129	0.306899391	0.3881771	520	520
NCRNA00110	-0.044972504	0.306033285	0.38715447	520	205
NIPA1	-0.044980282	0.305949556	0.38707283	520	520
HMGB4	-0.044999032	0.305747782	0.38686611	520	25
ZNF512B	-0.045003781	0.305696688	0.38682573	520	520
PHF19	-0.045017835	0.305545518	0.38668297	520	520
HIST1H4F	-0.045039879	0.305308505	0.38643153	520	106
LIN28A	-0.045053905	0.305157772	0.38626499	520	170
CRYGB	-0.045063218	0.305057711	0.38618682	520	21
EFCAB3	-0.045074952	0.304931664	0.38605149	520	227
C1orf228	-0.045109717	0.304558434	0.38565161	520	506
CYB561D1	-0.045138508	0.304249565	0.3852847	520	520
FIGF	-0.045158716	0.3040329	0.38503451	520	479
YIF1B	-0.045185178	0.303749338	0.38472372	520	520
PHYHIP	-0.045274448	0.30279403	0.38356193	520	520
HNRNPH2	-0.045330882	0.302191134	0.3829185	520	520
NKX2-8	-0.045342446	0.302067692	0.38278613	520	500
KCNJ11	-0.045344516	0.302045599	0.38278219	520	517
CSAG2	-0.045345981	0.302029963	0.38278219	520	385
NUP43	-0.045355665	0.30192663	0.38267953	520	520
REG4	-0.045368652	0.301788076	0.38255201	520	310
DTX3L	-0.045421229	0.301227609	0.38193759	520	520
DDX1	-0.045436452	0.301065451	0.38175599	520	520
RAB5A	-0.045450574	0.30091509	0.38161333	520	520
REG1P	-0.045451222	0.300908184	0.38161333	520	21

RAD51L1	-0.045485447	0.300543971	0.38123859	520	520
PHIP	-0.045534034	0.300027425	0.3807031	520	520
FTCD	-0.045535239	0.300014626	0.3807031	520	384
SPAG7	-0.045549728	0.299860705	0.38053945	520	520
ZNF76	-0.045584196	0.299494761	0.38012289	520	520
OR2F2	-0.045600827	0.2993183	0.37994675	520	27
SLC25A44	-0.045602018	0.29930566	0.37994675	520	520
LOC286359	-0.045624229	0.299070096	0.37972731	520	30
ALDOB	-0.045644422	0.29885605	0.37947943	520	408
LOC642597	-0.045677965	0.298500716	0.3791715	520	71
AICDA	-0.045696662	0.298302769	0.37901742	520	355
SPAG11B	-0.045711932	0.298141173	0.37888187	520	57
MBLAC2	-0.045716137	0.298096682	0.37884921	520	520
NAA16	-0.045747475	0.297765262	0.37847571	520	520
C16orf55	-0.045761175	0.29762045	0.3783155	520	520
SEMG2	-0.045769708	0.297530277	0.37822472	520	215
FAM74A1	-0.045771034	0.297516271	0.37822472	520	36
DBX1	-0.045779041	0.297431676	0.37814706	520	94
GHRHR	-0.045780517	0.297416078	0.37814706	520	41
BFSP2	-0.045791827	0.297296622	0.37802302	520	406
OR7A10	-0.045795385	0.297259052	0.37799909	520	7
USP29	-0.045802571	0.297183177	0.37795027	520	44
C10orf41	-0.045807662	0.297129428	0.37790575	520	520
C16orf90	-0.045852242	0.296659053	0.37735511	520	171
ZNF638	-0.045852638	0.296654877	0.37735511	520	520
CTSL3	-0.045863292	0.296542531	0.37725449	520	39
SNX1	-0.045896349	0.296194151	0.37688262	520	520
GRIN1	-0.045968258	0.295437264	0.37596699	520	510
NCAPG2	-0.045968736	0.295432233	0.37596699	520	520
ARL17B	-0.045972333	0.295394411	0.37595991	520	433
HSP90AB4P	-0.045977363	0.295341523	0.37591633	520	390
C19orf77	-0.045977818	0.295336732	0.37591633	520	480
NR2E1	-0.045979042	0.295323867	0.37591633	520	450
BATF2	-0.045979229	0.295321906	0.37591633	520	520
RGS21	-0.046041533	0.294667322	0.3751766	520	20
SLC28A2	-0.046050105	0.294577339	0.37510941	520	123
SNORA52	-0.046055375	0.294522036	0.37506267	520	54
TMEM190	-0.046072601	0.294341287	0.37487985	520	359
OR51A7	-0.046078389	0.29428057	0.37482619	520	13
THG1L	-0.046091672	0.29414126	0.37469609	520	520
PEMT	-0.046108156	0.293968447	0.37449961	520	520
C6orf94	-0.046155629	0.293471135	0.37391331	520	225
CSN3	-0.046160632	0.293418753	0.37387019	520	133
MS4A12	-0.04619638	0.293044679	0.37346435	520	26
LAMB2L	-0.046245742	0.292528683	0.37287745	520	519
CALCOCO2	-0.046267714	0.29229919	0.37260848	520	520

CTPS	-0.046277049	0.292201729	0.37250779	520	520
C2CD2	-0.046323911	0.291712786	0.37195502	520	520
LHX3	-0.046362951	0.291305875	0.37150665	520	391
RABGAP1	-0.046363027	0.291305076	0.37150665	520	520
CDC25B	-0.046377002	0.291159518	0.37137241	520	520
DLEU2	-0.046387914	0.291045881	0.371269	520	520
CRLF3	-0.046396491	0.290956596	0.37117859	520	520
DKFZP434K028	-0.046397065	0.290950622	0.37117859	520	46
SMC6	-0.046408291	0.290833776	0.37106886	520	520
HNRNPH3	-0.046425096	0.290658925	0.37089271	520	520
HIST1H2AD	-0.046436719	0.290538034	0.37076191	520	419
QRFRP	-0.046437086	0.290534213	0.37076191	520	352
NUP54	-0.046442471	0.29047822	0.3707325	520	520
PATL2	-0.046442869	0.290474078	0.3707325	520	514
NLRC5	-0.046476499	0.29012453	0.37035142	520	520
CYP26A1	-0.046517248	0.289701371	0.36988149	520	432
CENPE	-0.046518369	0.28968974	0.36988149	520	520
OR10A5	-0.046544649	0.289417053	0.36958869	520	26
SNORA61	-0.04655875	0.289270812	0.36942534	520	96
C1orf98	-0.046579896	0.28905161	0.36916878	520	98
KLRC1	-0.046581664	0.289033286	0.36916876	520	509
IL7	-0.046597558	0.288868596	0.36900515	520	519
LOC653544	-0.046599717	0.288846228	0.36899996	520	48
FEZF2	-0.046652968	0.288294961	0.36834239	520	60
C1orf87	-0.046657986	0.288243057	0.36829941	520	107
C2orf50	-0.046670816	0.288110356	0.36815318	520	412
TMEM30C	-0.046675784	0.288058986	0.36813262	520	11
TBC1D13	-0.046703835	0.287769031	0.36781026	520	520
TMBIM4	-0.046756491	0.287225286	0.36720839	520	520
C1orf74	-0.046790849	0.286870868	0.36680179	520	520
LIPM	-0.046805237	0.286722535	0.36665863	520	311
SLC22A25	-0.046806605	0.286708441	0.36665863	520	249
FAM22A	-0.046822429	0.286545364	0.36647854	520	517
PSMB11	-0.046831735	0.286449493	0.36637917	520	125
CCDC23	-0.046853155	0.286228903	0.36612025	520	520
C1orf220	-0.046881325	0.285938973	0.36588866	520	473
FOXR1	-0.046887564	0.28587479	0.36582974	520	55
EZH1	-0.046927985	0.285459176	0.36536745	520	520
CAMKK1	-0.046934157	0.285395753	0.36530946	520	520
FAM194A	-0.04693979	0.285337872	0.36525856	520	390
OR51L1	-0.04695252	0.285207098	0.36511434	520	7
ISM2	-0.046967298	0.28505535	0.36494547	520	477
HOXA4	-0.047050499	0.284201969	0.36394313	520	511
HPYR1	-0.047058419	0.284120817	0.36386232	520	33
RABL2A	-0.047063395	0.284069853	0.36382015	520	520
ERO1L	-0.047079125	0.283908753	0.36370623	520	520

CLMN	-0.04709376	0.283758931	0.3635374	520	520
OR4F5	-0.047105551	0.283638255	0.36342897	520	32
MTL5	-0.047116113	0.283530196	0.3633136	520	520
OR10K2	-0.047171948	0.282959382	0.3626445	520	14
ZNF32	-0.047193894	0.282735235	0.36243314	520	520
GNRH2	-0.047202193	0.28265051	0.36234757	520	122
SNORA84	-0.047232629	0.282339916	0.36199543	520	23
PRAMEF22	-0.047256927	0.282092124	0.36172373	520	55
FAM27B	-0.047273872	0.281919399	0.36154823	520	33
GPR32	-0.047279986	0.281857094	0.36149131	520	78
FRG2B	-0.04735242	0.281119704	0.36068323	520	211
ALDH1A1	-0.047390352	0.280734069	0.36028015	520	520
ADAM30	-0.047433853	0.280292253	0.35975894	520	67
LRRC42	-0.047447279	0.280155988	0.35960693	520	520
C9orf89	-0.047475787	0.279866801	0.35932723	520	520
LOC729609	-0.047478575	0.279838529	0.35931381	520	47
CCT8L2	-0.04748043	0.27981972	0.35931254	520	83
CSHL1	-0.047557995	0.279034016	0.3583721	520	11
OR2H1	-0.047561804	0.278995471	0.35834542	520	50
OSGIN1	-0.047565201	0.278961098	0.35832409	520	520
BDNF	-0.047594152	0.278668264	0.35797075	520	520
PPP5C	-0.047634697	0.27825852	0.3575583	520	520
CARD18	-0.047638018	0.278224977	0.35753798	520	462
GPR115	-0.047645566	0.278148746	0.3574628	520	519
C1orf111	-0.047649653	0.278107476	0.35743254	520	336
BTBD10	-0.047664721	0.277955363	0.35725981	520	520
ZMAT1	-0.047669374	0.277908402	0.35722222	520	516
KRTAP9-9	-0.047699652	0.27760294	0.35692059	520	23
ASB17	-0.04770463	0.277552741	0.35690157	520	8
FAM74A4	-0.04771281	0.277470257	0.35681826	520	13
USP3	-0.047785965	0.276733416	0.35598422	520	520
OR6T1	-0.04780041	0.27658808	0.35581996	520	74
FAM111A	-0.047866322	0.275925554	0.35508092	520	520
TAS2R39	-0.047895243	0.275635204	0.3547752	520	27
IGFL1	-0.047982721	0.274758207	0.35375931	520	515
ST8SIA3	-0.048015906	0.274426017	0.35335416	520	93
ALDH1L1	-0.04804601	0.274124905	0.35303408	520	514
TEKT1	-0.048067501	0.273910082	0.35280248	520	129
GPNPAT1	-0.048071011	0.273875008	0.35277984	520	520
LOC100128842	-0.04807645	0.273820663	0.35273237	520	518
SETD1A	-0.048083787	0.273747357	0.35269298	520	520
FAM132A	-0.048135048	0.273235625	0.3520687	520	513
IFNA14	-0.048138843	0.273197764	0.35204242	520	12
GCNT2	-0.048187488	0.272712796	0.35148487	520	519
TMEM146	-0.048189857	0.272689193	0.35147692	520	138
TMEM84	-0.04820172	0.272571025	0.35134707	520	400

UBE2L3	-0.048226265	0.27232663	0.35112182	520	520
MEP1B	-0.048233709	0.272252537	0.35107119	520	251
FRMD1	-0.048252498	0.272065589	0.35087499	520	284
MYLIP	-0.048286852	0.271724007	0.350569	520	520
KRTAP4-11	-0.048322021	0.271374623	0.35014064	520	66
GPN2	-0.048324793	0.271347091	0.35012879	520	520
CTR9	-0.048327643	0.271318792	0.35012879	520	520
TTY14	-0.048333727	0.271258393	0.35008028	520	289
EID2	-0.048361573	0.27098206	0.34979081	520	520
ZNF398	-0.048374709	0.270851763	0.34966739	520	520
KIR2DL1	-0.048406172	0.270539869	0.34930946	520	293
CCL1	-0.048409373	0.270508148	0.34929087	520	274
FBXW12	-0.048413783	0.270464451	0.34927918	520	68
VTI1B	-0.048421542	0.270387592	0.34920229	520	520
FLJ10038	-0.048441273	0.270192197	0.34901701	520	520
CTSW	-0.048441286	0.27019206	0.34901701	520	520
BTNL3	-0.048488505	0.26972485	0.34848029	520	235
TFPT	-0.048653903	0.26809264	0.34650471	520	520
TFF3	-0.048661626	0.2680166	0.34642864	520	511
TNIP3	-0.048666338	0.267970205	0.34639087	520	520
OR51Q1	-0.048677681	0.267858553	0.34626874	520	78
OR4S1	-0.048709849	0.267542087	0.34590399	520	5
BIRC8	-0.048711291	0.26752791	0.34590399	520	58
NOP2	-0.04872187	0.267423894	0.3458177	520	520
SLC22A11	-0.048736537	0.267279726	0.34569778	520	373
C12orf32	-0.048738156	0.267263812	0.34569778	520	520
C1orf91	-0.048757089	0.267077802	0.3455031	520	520
DENND2C	-0.048785981	0.26679412	0.34520256	520	520
ANP32A	-0.048819443	0.26646583	0.34482204	520	520
B4GALNT3	-0.048880289	0.265869584	0.3441388	520	520
OR2AG1	-0.048887801	0.265796036	0.34406569	520	12
GABRA4	-0.048892297	0.265752018	0.3440308	520	256
THAP8	-0.048938621	0.265298833	0.34346617	520	520
CELF6	-0.048942143	0.265264391	0.34344364	520	518
KDM4DL	-0.048953751	0.265150931	0.3433325	520	122
UBA7	-0.048953892	0.265149553	0.3433325	520	520
TUBE1	-0.048978108	0.264912943	0.34307672	520	520
OR1A1	-0.04898863	0.264810186	0.34300974	520	21
BTBD18	-0.049004859	0.264651739	0.34287058	520	388
TBCE	-0.049012075	0.264581317	0.34280137	520	520
TPX2	-0.049029803	0.264408347	0.34259927	520	520
C10orf62	-0.049031829	0.264388577	0.34259567	520	213
DNAJC1	-0.049039785	0.264310983	0.34251714	520	520
TLL6	-0.049052612	0.264185909	0.34239907	520	260
TTY7	-0.049067587	0.264039944	0.3422847	520	12
C9orf70	-0.04907194	0.263997529	0.34226491	520	244

SIGMAR1	-0.049090782	0.263813967	0.34207092	520	520
CST9	-0.049093652	0.263786013	0.34205667	520	216
ADAM3A	-0.049129965	0.26343253	0.34164224	520	16
FAM21B	-0.049136161	0.263372249	0.34158603	520	520
C13orf30	-0.049155947	0.263179809	0.34138036	520	261
STAM	-0.049197959	0.262771516	0.3408946	520	520
SCAMP3	-0.049200724	0.262744661	0.3408817	520	520
C14orf178	-0.049215212	0.262603974	0.34072109	520	275
RP9P	-0.04922007	0.26255681	0.34068182	520	520
B3GALT6	-0.049224772	0.262511171	0.34064452	520	520
FLJ12825	-0.049234022	0.262421396	0.34054994	520	484
PPP1R12C	-0.04929465	0.261833493	0.33994015	520	520
C15orf39	-0.049323594	0.26155315	0.33961992	520	520
ORM2	-0.049365415	0.261148456	0.3392255	520	227
TRIP13	-0.049389787	0.260912806	0.33894123	520	520
TRIM24	-0.04940864	0.260730616	0.33874821	520	520
CSNK1G2	-0.049411637	0.260701667	0.33873242	520	520
ACOX1	-0.049413138	0.260687172	0.33873242	520	520
GSX2	-0.049427939	0.260544213	0.33865877	520	54
LOC344967	-0.049469868	0.26013955	0.33817638	520	520
BRD2	-0.049474364	0.260096188	0.33814181	520	520
FAM166B	-0.049497741	0.259870789	0.33791414	520	499
OR4D10	-0.049504276	0.259807797	0.33785402	520	39
ETS2	-0.049522085	0.259636203	0.33765772	520	520
PTH2	-0.049530956	0.259550761	0.33758508	520	13
USF2	-0.04953204	0.259540319	0.33758508	520	520
FABP9	-0.049547342	0.259392977	0.33744085	520	60
PROK1	-0.04956079	0.259263535	0.33732029	520	238
DPP7	-0.049581707	0.259062296	0.33708022	520	520
REEP1	-0.049651067	0.258395759	0.33629975	520	520
UGT2A3	-0.049660402	0.258306137	0.33620481	520	132
AMN1	-0.049723639	0.257699614	0.33548034	520	520
MRFAP1	-0.049784303	0.2571187	0.33476732	520	520
C17orf78	-0.049785446	0.257107761	0.33476732	520	151
FAM90A7	-0.049812403	0.256849922	0.33446056	520	167
C8orf12	-0.049815146	0.256823702	0.33444802	520	137
KCNK5	-0.049828689	0.256694241	0.33432261	520	520
A4GALT	-0.049841457	0.256572233	0.33418529	520	520
SMC5	-0.049874679	0.256254951	0.33379359	520	520
OR5K1	-0.049876226	0.256240179	0.33379359	520	67
OPN1MW	-0.049967025	0.255374442	0.33275413	520	52
OR4C13	-0.050006633	0.254997432	0.33230584	520	14
PCDH11Y	-0.050017492	0.25489414	0.33221417	520	116
WDR72	-0.050188384	0.253272373	0.33027124	520	512
MYBPHL	-0.050196164	0.253198704	0.33023924	520	446
CCDC9	-0.050220876	0.252964828	0.32997689	520	520

ZSWIM7	-0.050299232	0.252224257	0.32909602	520	520
SNORA67	-0.05031584	0.252067486	0.32893404	520	255
NKG7	-0.050324057	0.251989944	0.32887542	520	520
TMEM170A	-0.05034187	0.251821906	0.32867738	520	520
OR10J1	-0.050367499	0.251580269	0.32840452	520	16
UBQLN3	-0.050371343	0.251544038	0.32837848	520	21
STXBP3	-0.050398516	0.251288051	0.32808678	520	520
CYB5B	-0.050401754	0.251257559	0.32806821	520	520
OBFC1	-0.050410347	0.251176651	0.32798381	520	520
ANKRD20B	-0.050412263	0.25115862	0.3279815	520	461
NR6A1	-0.050423734	0.251050647	0.32786174	520	519
RNPEPL1	-0.050425334	0.251035587	0.32786174	520	520
OR13C9	-0.050437315	0.250922851	0.32775853	520	6
LOC255025	-0.050507804	0.250260307	0.3270414	520	9
CYHR1	-0.050541727	0.249941894	0.32673117	520	520
PRMT1	-0.050542224	0.249937232	0.32673117	520	520
WDR13	-0.050548378	0.2498795	0.32669197	520	520
IGLL1	-0.050596157	0.249431581	0.32614179	520	143
VPS4A	-0.05059755	0.249418537	0.32614179	520	520
HEATR7A	-0.050603858	0.249359444	0.32611715	520	520
OR52E8	-0.050638206	0.249037848	0.32573944	520	11
XKR6	-0.050655691	0.248874249	0.32556769	520	515
BLZF1	-0.05067391	0.248703865	0.32536591	520	520
OR6B2	-0.050673958	0.248703422	0.32536591	520	120
DGAT2	-0.050679024	0.248656055	0.32534558	520	520
ZNF786	-0.050693998	0.248516097	0.32520466	520	520
C14orf53	-0.050735466	0.248128798	0.32476107	520	9
ZSCAN10	-0.05074437	0.248045686	0.32467337	520	242
CDKL3	-0.050781523	0.247699128	0.3242408	520	520
KRTAP12-4	-0.050846161	0.247096981	0.32362065	520	21
RPS6KL1	-0.050857497	0.246991486	0.3235035	520	519
C19orf30	-0.050875464	0.246824353	0.32330559	520	47
LOC440354	-0.050883818	0.24674666	0.32323744	520	520
CNP	-0.050894846	0.246644132	0.3231325	520	520
MOAP1	-0.050927953	0.246336512	0.32277142	520	520
PSIP1	-0.05095079	0.246124477	0.32251455	520	520
KLK1	-0.050993214	0.245730919	0.32210351	520	517
RNASEL	-0.05104309	0.245268792	0.32153956	520	520
FAM47B	-0.051095082	0.244787698	0.32095059	520	26
PPIAL4E	-0.051110005	0.244649737	0.32081143	520	32
LOC115110	-0.051135457	0.244414561	0.32056558	520	519
RABEPK	-0.051138403	0.244387353	0.32055074	520	520
GRWD1	-0.051156503	0.244220218	0.32035236	520	520
METTL8	-0.051162561	0.244164299	0.32029984	520	520
ARHGAP23	-0.051189225	0.243918267	0.32001873	520	520
LMO7	-0.051196331	0.243852734	0.31995357	520	520

FAM184B	-0.051200262	0.243816487	0.31992683	520	437
FAM179A	-0.051222227	0.243614002	0.31970275	520	518
NUDT3	-0.051236165	0.243485576	0.31955501	520	520
BANF1	-0.051260714	0.243259501	0.31927909	520	520
CABP5	-0.051287007	0.243017527	0.31900302	520	72
PVRIG	-0.05130238	0.242876126	0.31883816	520	520
PRLHR	-0.051348288	0.242454203	0.3184294	520	31
FBLL1	-0.051393359	0.242040481	0.31809322	520	452
CDKN1A	-0.051402331	0.241958182	0.31800579	520	520
PES1	-0.051409087	0.241896219	0.3179658	520	520
IFI27L2	-0.051413446	0.241856252	0.31793399	520	520
MDFI	-0.051444035	0.241575899	0.31758615	520	520
IFRD1	-0.051447824	0.241541185	0.31758193	520	520
HULC	-0.051539899	0.24069876	0.31653622	520	173
C1orf204	-0.051567933	0.240442676	0.31622007	520	519
CELA2B	-0.05158651	0.240273082	0.31605887	520	78
KIAA1324	-0.051599143	0.240157798	0.31592783	520	520
CAPZA1	-0.05160302	0.240122432	0.31590192	520	520
C6orf35	-0.051621299	0.239955713	0.31570318	520	520
JMY	-0.051667524	0.239534478	0.31523125	520	520
HIST1H4E	-0.051668473	0.239525835	0.31523125	520	492
LENG1	-0.051704374	0.239199045	0.31487202	520	520
FAM120AOS	-0.051747639	0.238805649	0.31437469	520	520
OXCT1	-0.051768044	0.238620261	0.31415115	520	520
SCFD1	-0.051781809	0.238495267	0.31400709	520	520
PRDM14	-0.051786169	0.238455679	0.31397547	520	60
ARL4A	-0.051808601	0.238252097	0.3137279	520	520
SYMPK	-0.051816067	0.238184371	0.3136592	520	520
CSAG3	-0.051823654	0.238115558	0.31358906	520	486
SNORA14B	-0.051831738	0.238042253	0.313513	520	26
SLC38A9	-0.051861774	0.237770017	0.31319536	520	520
OPTC	-0.051886386	0.237547112	0.31297068	520	38
ZNF605	-0.051924075	0.237206056	0.31255459	520	520
TMEM57	-0.05196903	0.236799695	0.31208033	520	520
C17orf62	-0.051972824	0.236765423	0.31205556	520	520
LOC100272146	-0.051974242	0.236752617	0.31205556	520	520
OR14C36	-0.052009135	0.236437588	0.31166422	520	8
SMARCC2	-0.052098042	0.23563625	0.31068916	520	520
CEP152	-0.052134967	0.235304001	0.31033226	520	520
MAOB	-0.052146887	0.235196818	0.31021119	520	519
TBC1D10C	-0.052148344	0.235183715	0.31021119	520	520
SLC17A4	-0.052168197	0.235005284	0.3100194	520	51
DUS4L	-0.052169073	0.234997413	0.3100194	520	520
FLJ37307	-0.052179959	0.234899608	0.30992055	520	393
OR4C6	-0.052183699	0.234866014	0.3098965	520	128
PRSS48	-0.05218952	0.23481374	0.3098478	520	34

F9	-0.052190465	0.234805251	0.3098478	520	27
DDX20	-0.052215751	0.234578264	0.3095776	520	520
RAD51AP1	-0.052235339	0.234402525	0.30938617	520	520
CBX3	-0.052247784	0.234290922	0.30925911	520	520
LOC144438	-0.05226624	0.234125489	0.30908121	520	520
LOC402644	-0.05230481	0.233780018	0.30866555	520	58
ZNF354A	-0.052338645	0.233477251	0.30832637	520	520
CARD16	-0.052345544	0.233415557	0.30826508	520	520
CCDC7	-0.052353651	0.233343069	0.30818954	520	520
ZAP70	-0.052360965	0.233277683	0.30812336	520	520
C6orf127	-0.052368582	0.233209604	0.30805523	520	82
OTOL1	-0.052371103	0.233187073	0.30805523	520	17
ACSM2B	-0.052450331	0.232479836	0.30721039	520	82
RAX2	-0.052508561	0.231960998	0.30658505	520	71
TSPAN8	-0.052529365	0.231775838	0.30636041	520	431
MSTN	-0.052543267	0.231652158	0.306217	520	378
LRRC48	-0.052560328	0.231500449	0.30603652	520	520
OR4C45	-0.052563518	0.231472082	0.30601908	520	7
NUP188	-0.052583084	0.231298199	0.30580925	520	520
STX18	-0.052603543	0.231116467	0.30558901	520	520
MMP24	-0.052617522	0.230992362	0.30546498	520	520
LOC728643	-0.052623499	0.23093931	0.30541485	520	520
OXSRI	-0.052625411	0.230922339	0.30541244	520	520
LOC121838	-0.052631313	0.230869961	0.30536319	520	261
LHFPL3	-0.052638331	0.230807698	0.30530123	520	227
RANGRF	-0.052646754	0.230732981	0.30524208	520	520
SRCIN1	-0.052651184	0.23069369	0.30521013	520	520
COX7A2L	-0.052654476	0.230664499	0.30519153	520	520
FTMT	-0.052660469	0.230611357	0.30514124	520	9
OR13C2	-0.052686304	0.230382379	0.30487828	520	16
OR8D4	-0.052740261	0.229904672	0.30430601	520	13
PIGB	-0.05274098	0.229898304	0.30430601	520	520
NAT8	-0.052765303	0.229683197	0.30411268	520	327
C5orf34	-0.052773275	0.229612726	0.30403934	520	519
HEPACAM	-0.052842041	0.229005472	0.303295	520	201
STAU2	-0.052879429	0.22867579	0.30291805	520	520
TCEB3B	-0.052926501	0.228261191	0.30240858	520	226
TMEM223	-0.052930269	0.228228028	0.30240039	520	520
ZC3HC1	-0.05294739	0.228077375	0.30222463	520	520
NUDT9	-0.052966433	0.227909896	0.30206225	520	520
OR2T12	-0.052991714	0.227687697	0.30184712	520	6
FLJ10661	-0.052995614	0.227653429	0.30182154	520	514
PACRGL	-0.053049363	0.227181565	0.30121575	520	520
FBXO28	-0.053089251	0.226831849	0.30083119	520	520
SMEK1	-0.053093103	0.226798091	0.3008062	520	520
KRTAP10-7	-0.053100864	0.226730099	0.3007358	520	17

ANKRD20A3	-0.053106845	0.226677705	0.30068609	520	486
CCL14-CCL15	-0.053134491	0.22643566	0.30038478	520	67
OR10G7	-0.053145419	0.22634003	0.30027767	520	3
SNORA11	-0.053147204	0.226324417	0.30027767	520	12
OR2Z1	-0.053171952	0.22610797	0.30004877	520	41
VPS37A	-0.053190727	0.225943864	0.29987047	520	520
RP9	-0.053204699	0.225821797	0.29972819	520	520
S100A10	-0.053222113	0.225669715	0.29956578	520	520
TBC1D22A	-0.053249799	0.225428088	0.29926473	520	520
GJA10	-0.053262308	0.225318978	0.29913957	520	82
FBXO18	-0.053297232	0.225014538	0.29877474	520	520
HIST1H2BI	-0.053352549	0.224532938	0.29821382	520	346
CTDSPL	-0.053378226	0.224309637	0.29795649	520	520
ADAM2	-0.053433373	0.223827495	0.29739441	520	18
RPA1	-0.053497273	0.223276423	0.29668177	520	520
TFB2M	-0.053526737	0.223021225	0.2963622	520	520
NAT8B	-0.053531256	0.222982104	0.29632974	520	430
OR14A16	-0.053563191	0.222705778	0.29598203	520	12
HIGD1C	-0.053569397	0.222652102	0.29593019	520	10
TP63	-0.053591747	0.222458892	0.29571964	520	520
SCARNA23	-0.053622991	0.22218899	0.29539255	520	3
HOXA6	-0.05367921	0.221703939	0.294806	520	461
EPO	-0.053711907	0.221422177	0.2944896	520	465
LOC550112	-0.053723053	0.221326193	0.29440435	520	520
MED24	-0.053780903	0.220828466	0.29381624	520	520
KIAA0368	-0.053801331	0.220652896	0.29360202	520	520
BRF2	-0.053815292	0.220532968	0.29350055	520	520
SYT10	-0.053836225	0.22035323	0.29330005	520	161
FAM82B	-0.05385515	0.220190831	0.29310324	520	520
FNTB	-0.053881621	0.219963814	0.29285905	520	520
LOC440563	-0.053883327	0.21994919	0.29285892	520	412
IRAK2	-0.053903506	0.21977626	0.29266732	520	520
SLC25A22	-0.05393073	0.219543104	0.29241477	520	520
NKRF	-0.053974991	0.219164416	0.29194895	520	520
SNCG	-0.053993467	0.219006477	0.29181567	520	520
DOCK3	-0.054012422	0.218844533	0.29165771	520	519
AQP12B	-0.054015251	0.218820371	0.29164479	520	187
DSC3	-0.054029226	0.218701034	0.29156282	520	520
C13orf37	-0.054034367	0.218657146	0.29152358	520	520
GPR114	-0.054077848	0.218286208	0.29108677	520	517
ZNF658	-0.054131011	0.217833279	0.29055965	520	519
RPL23AP32	-0.054137651	0.217776761	0.29050348	520	291
OR10R2	-0.054144456	0.21771884	0.29044543	520	4
BCYRN1	-0.054176374	0.21744734	0.29012163	520	19
C15orf43	-0.054185797	0.217367234	0.29003394	520	25
GOLGA6D	-0.05420087	0.217239141	0.28988221	520	19

PWP2	-0.054280717	0.216561474	0.28909272	520	520
GGA2	-0.054284814	0.216526737	0.28906549	520	520
LOC100130238	-0.054332547	0.216122403	0.28859355	520	421
B9D1	-0.054388547	0.215648724	0.28808406	520	520
IL28B	-0.054411889	0.215451505	0.28783967	520	201
GPS1	-0.054420872	0.215375638	0.28775738	520	520
ADSSL1	-0.054420939	0.215375076	0.28775738	520	520
GRM7	-0.054452001	0.215112892	0.28748253	520	251
CCL28	-0.054452434	0.215109241	0.28748253	520	518
C17orf64	-0.054459737	0.215047632	0.28743341	520	281
STH	-0.054479097	0.214884376	0.28725328	520	17
ZNF83	-0.054516604	0.214568348	0.28692593	520	520
FGF11	-0.054533863	0.214423042	0.28675064	520	520
POP1	-0.054560611	0.214197976	0.28650667	520	520
GPR81	-0.054573336	0.214090969	0.28643028	520	455
TXK	-0.054596748	0.213894184	0.28619524	520	509
MPP3	-0.054601169	0.213857043	0.28616454	520	520
IFNA21	-0.054623403	0.213670299	0.28595261	520	68
TMEM151B	-0.054670831	0.213272362	0.28545794	520	511
ZNF408	-0.054714694	0.212904804	0.2849849	520	520
PROM1	-0.054767345	0.21246421	0.28448956	520	483
GLYAT	-0.054783592	0.212328391	0.28432658	520	204
RIOK2	-0.054789654	0.212277728	0.2842965	520	520
SLC11A2	-0.054803011	0.212166123	0.28418478	520	520
TRIM64	-0.054820709	0.212018323	0.28400568	520	21
RHOD	-0.054834493	0.211903258	0.2838704	520	520
VPS13A	-0.054842501	0.211836433	0.28383478	520	520
CDRT15P	-0.054842687	0.211834882	0.28383478	520	511
MTVR2	-0.05486676	0.211634079	0.28362286	520	199
DDR1	-0.054884545	0.211485822	0.28344301	520	520
KGFLP2	-0.05490484	0.211316724	0.28323521	520	520
OGT	-0.054909696	0.211276286	0.28319983	520	520
LRRIQ3	-0.054947429	0.210962206	0.28281643	520	509
APOL3	-0.054948663	0.210951938	0.28281643	520	520
PAX4	-0.055013203	0.21041552	0.28217734	520	29
STRADB	-0.055027859	0.210293846	0.28204247	520	520
C9orf128	-0.055029427	0.21028083	0.28204247	520	217
C7orf71	-0.055030812	0.210269336	0.28204247	520	202
LOC723809	-0.055043851	0.210161144	0.28192997	520	268
AANAT	-0.055085678	0.209814329	0.2815209	520	365
CXorf40B	-0.055106157	0.209644679	0.28131199	520	520
SRRM3	-0.055147319	0.20930398	0.28087352	520	520
TBC1D29	-0.05517224	0.209097906	0.2806334	520	113
AMZ2	-0.055173553	0.209087059	0.2806334	520	520
PLK1	-0.055213058	0.208760698	0.28023771	520	520
NKX6-2	-0.055230729	0.208614832	0.28009785	520	86

KRT14	-0.055231365	0.208609584	0.28009785	520	520
MTMR8	-0.055231951	0.208604752	0.28009785	520	497
PRAMEF12	-0.055263141	0.208347485	0.27984046	520	77
PIAS4	-0.055338483	0.207726974	0.2790916	520	520
CYP3A7	-0.055346694	0.207659432	0.27901944	520	348
ZNF117	-0.055436799	0.206919279	0.27811761	520	520
BANP	-0.055453278	0.206784119	0.27795447	520	520
FNDC8	-0.055496349	0.206431159	0.27753553	520	515
C6orf164	-0.055498776	0.206411285	0.27752732	520	507
CUTA	-0.055527047	0.206179858	0.27725313	520	520
SERF1A	-0.055563841	0.205878949	0.27688542	520	520
GSTM4	-0.055588843	0.20567466	0.27662913	520	520
ZNF581	-0.055611311	0.205491196	0.27640081	520	520
PRR23A	-0.055634489	0.205302061	0.27616483	520	112
POLD3	-0.055647145	0.205198839	0.27606281	520	520
OR6C65	-0.055697942	0.204784929	0.27554273	520	24
SBNO2	-0.055741282	0.20443226	0.27508656	520	520
PLCB3	-0.055781367	0.204106466	0.27468483	520	520
C5orf27	-0.055788279	0.204050323	0.2746276	520	473
PPP2R4	-0.055799728	0.203957364	0.27453914	520	520
HAUS1	-0.055813879	0.203842497	0.27440284	520	520
C9orf172	-0.055836058	0.203662575	0.27419255	520	511
HDGFRP2	-0.055850705	0.203543807	0.27405564	520	520
ADAL	-0.055852422	0.203529887	0.2740552	520	520
SLC22A18	-0.055879411	0.2033112	0.27377902	520	520
LRRRC8E	-0.055915864	0.20301609	0.27339988	520	520
CCDC19	-0.05591654	0.203010617	0.27339988	520	520
GLT6D1	-0.055921466	0.202970762	0.27337536	520	29
ADH4	-0.055927576	0.202921338	0.27332704	520	222
MGEA5	-0.055929152	0.202908592	0.27332704	520	520
SCARNA10	-0.055938563	0.202832489	0.27324657	520	417
CELF3	-0.055969351	0.202583644	0.2729816	520	142
STX6	-0.055970148	0.202577207	0.2729816	520	520
ZNF446	-0.055994561	0.202380052	0.27278017	520	520
LRRRC10	-0.056005615	0.202290831	0.27267814	520	65
ACTR3B	-0.056023991	0.202142568	0.27249651	520	520
ELAVL3	-0.056029093	0.202101417	0.27245925	520	255
MFSD3	-0.05605289	0.201909569	0.27221881	520	520
LCE3B	-0.056083794	0.201660617	0.27190135	520	40
AKR1E2	-0.056092872	0.201587527	0.27187552	520	515
CCDC71	-0.056124584	0.201332369	0.27156772	520	520
PLAGL2	-0.056125746	0.201323022	0.27156772	520	520
CRABP1	-0.056146033	0.201159919	0.27137142	520	498
SPATA3	-0.056156834	0.201073115	0.27127247	520	24
HIST1H4J	-0.056167608	0.200986561	0.27117384	520	520
SMARCA4	-0.056182954	0.200863325	0.2710257	520	520

EIF2S1	-0.05619719	0.200749047	0.27088963	520	520
CTRB1	-0.056229332	0.200491212	0.27057793	520	88
ZNF804B	-0.056236011	0.200437669	0.27052377	520	36
FLJ26850	-0.056269503	0.200169311	0.27017966	520	358
LOC647288	-0.056288506	0.200017162	0.27001045	520	520
SLC35A3	-0.056294459	0.199969518	0.2699642	520	520
RFC3	-0.056330329	0.199682603	0.26964908	520	520
NKX2-2	-0.056335285	0.199642986	0.26961363	520	247
FAM82A2	-0.056368374	0.199378626	0.26931073	520	520
NME1-NME2	-0.056410981	0.199038595	0.26888746	520	520
TAAR6	-0.056430008	0.198886881	0.26870051	520	17
OR52K1	-0.056431544	0.198874639	0.26870051	520	11
OR52R1	-0.0564316	0.198874192	0.26870051	520	30
C7orf50	-0.056437871	0.198824208	0.26866984	520	520
MBOAT2	-0.056447347	0.198748707	0.26858581	520	520
ZNF248	-0.056462401	0.198628791	0.26844175	520	520
SNX5	-0.056504326	0.198295115	0.26802673	520	520
MANBAL	-0.056506156	0.198280562	0.26802502	520	520
FLJ42627	-0.056525245	0.198128779	0.26785576	520	519
MTBP	-0.056552781	0.197909985	0.26757791	520	520
DVL1	-0.056621598	0.197363941	0.26689333	520	520
VN1R4	-0.056632269	0.19727937	0.26679686	520	14
FAM127B	-0.056647613	0.197157804	0.26665034	520	520
LY6G6E	-0.056649262	0.197144749	0.26665034	520	207
CCDC30	-0.056689265	0.196828099	0.26627587	520	520
OR1A2	-0.056698581	0.196754412	0.26622977	520	32
KLHL21	-0.056711136	0.196655128	0.26613114	520	520
ATP6V0E1	-0.056721933	0.196569783	0.2660335	520	520
GTPBP2	-0.056744329	0.196392842	0.26581187	520	520
WDR75	-0.056760093	0.196268364	0.26567906	520	520
LOC151300	-0.056762735	0.196247505	0.26566866	520	28
CHMP7	-0.056793644	0.196003619	0.26537413	520	520
KIR3DL1	-0.056801706	0.195940045	0.26532266	520	328
HYAL4	-0.056807952	0.1958908	0.26527482	520	449
TMC1	-0.056834247	0.195683584	0.26504761	520	439
SNORA45	-0.056877527	0.195342874	0.2646039	520	46
14-Sep	-0.056920465	0.195005276	0.26419985	520	112
MGC34034	-0.056973761	0.194586844	0.2636861	520	40
GALNT4	-0.056985105	0.194497864	0.26358323	520	520
CLUAP1	-0.057008586	0.194313781	0.26335146	520	520
LOC644669	-0.057014145	0.194270214	0.26331012	520	27
OR4A5	-0.057048688	0.193999687	0.2629788	520	10
FAM160A1	-0.057053632	0.19396099	0.26294402	520	520
KRTAP5-2	-0.057075287	0.19379156	0.262732	520	327
TXLNA	-0.057105774	0.193553213	0.2624618	520	520
ADH5	-0.057120612	0.193437283	0.26233988	520	520

LDHB	-0.057125018	0.193402868	0.26231085	520	520
OR51G1	-0.057148886	0.193216521	0.26209337	520	16
C5	-0.057165032	0.193090547	0.26194292	520	519
NCRNA00099	-0.05717271	0.193030657	0.2618941	520	118
UBE2G1	-0.057186805	0.192920747	0.2617626	520	520
APOF	-0.057200812	0.192811577	0.26164968	520	147
VPREB1	-0.057223395	0.192635657	0.26151655	520	36
CDK16	-0.057238124	0.192520979	0.26137847	520	520
GPR151	-0.05724358	0.192478512	0.26133841	520	72
LOC100192426	-0.057259337	0.192355909	0.26120712	520	48
C11orf71	-0.05727076	0.192267069	0.26110407	520	520
CYP24A1	-0.057316166	0.191914204	0.26067444	520	519
FAM122A	-0.057318956	0.191892538	0.26066567	520	520
NTSR2	-0.057348306	0.191664726	0.26039129	520	186
STK24	-0.057375523	0.191453647	0.26012205	520	520
YIPF4	-0.05737828	0.191432278	0.26011054	520	520
C10orf137	-0.057388245	0.191355039	0.26005817	520	520
ARHGAP32	-0.057405792	0.191219101	0.25989094	520	520
BTNL2	-0.057411425	0.19117547	0.25984915	520	123
ARHGAP19	-0.057416867	0.191133335	0.25982691	520	520
C18orf45	-0.057418054	0.191124142	0.25982691	520	520
TNFSF18	-0.05742025	0.191107141	0.25982634	520	466
KCNG4	-0.057438333	0.190967182	0.25965356	520	74
KIAA0226	-0.05745648	0.190826797	0.25949768	520	520
MTERF	-0.057471285	0.190712332	0.25935951	520	520
GP6	-0.057497279	0.190511463	0.25910381	520	469
KLK7	-0.057518366	0.190348637	0.258931	520	513
OR10H3	-0.057580624	0.189868486	0.25831645	520	13
NR2E3	-0.057583887	0.189843345	0.25829968	520	460
C17orf48	-0.057616122	0.189595115	0.25799675	520	520
C14orf148	-0.057616834	0.189589633	0.25799675	520	496
AURKA	-0.057618708	0.189575205	0.25799675	520	520
FAM187B	-0.057621065	0.189557068	0.25799675	520	172
EDC4	-0.057623864	0.189535528	0.25799675	520	520
CYLC2	-0.057634265	0.189455504	0.25792862	520	46
SAP30L	-0.057639271	0.189416998	0.25789361	520	520
HIST1H4H	-0.057678925	0.189112172	0.25749597	520	520
SPATA2	-0.057696154	0.188979841	0.25733317	520	520
MARK3	-0.057757546	0.188508871	0.25672652	520	520
KLHL12	-0.057771112	0.188404915	0.25667162	520	520
RGSL1	-0.057782067	0.188320994	0.25659197	520	239
SSSCA1	-0.057787437	0.188279874	0.25655328	520	520
STAG3L4	-0.057813483	0.188080498	0.2563509	520	520
SPINK13	-0.057860049	0.187724433	0.25592347	520	164
ISCA1P1	-0.057888298	0.187508675	0.2556752	520	520
MOCS2	-0.057913567	0.187315826	0.25542952	520	520

SPAM1	-0.057926141	0.187219925	0.25531601	520	50
AKR7A2	-0.057945377	0.187073273	0.25516779	520	520
PTBP1	-0.057976478	0.186836346	0.25489635	520	520
ZNF324B	-0.057978731	0.186819188	0.25489019	520	520
DRGX	-0.057992006	0.186718135	0.2547868	520	107
DCUN1D2	-0.058024561	0.186470484	0.25451776	520	520
NOD2	-0.058040347	0.186350484	0.25437119	520	520
MED16	-0.058078619	0.186059788	0.25404317	520	520
C7orf54	-0.058087015	0.185996063	0.25397336	520	450
SLC10A3	-0.058089179	0.185979643	0.25396814	520	520
FAM173B	-0.058106304	0.185849719	0.2538251	520	520
OR6A2	-0.058141484	0.18558303	0.25352955	520	55
HES4	-0.058164846	0.185406085	0.25332215	520	520
TAP1	-0.058194446	0.18518207	0.25305037	520	520
BCL2L2	-0.058214339	0.185031627	0.25286193	520	520
C3orf39	-0.058242266	0.184820583	0.25262488	520	520
TMEM139	-0.058277657	0.184553392	0.25231098	520	504
CRB2	-0.058288804	0.184469298	0.25223021	520	464
TCERG1	-0.058301181	0.184375947	0.25213676	520	520
OR52A4	-0.058302586	0.184365352	0.25213676	520	5
CIDECP	-0.058351421	0.183997409	0.25165324	520	520
DNAJB2	-0.058386705	0.183731896	0.25137535	520	520
OR5C1	-0.058405312	0.183591997	0.25120099	520	92
SNX16	-0.05840798	0.183571946	0.2511906	520	520
OR1F2P	-0.058421243	0.183472275	0.25107126	520	175
C11orf34	-0.058433245	0.183382125	0.25096492	520	169
CASP1	-0.058467195	0.183127275	0.25066719	520	520
OR4C15	-0.058476504	0.183057447	0.25060251	520	13
LOC494141	-0.058498053	0.182895868	0.25040143	520	155
ANK3	-0.058568942	0.182365081	0.24969169	520	520
KRTAP10-11	-0.058569646	0.182359817	0.24969169	520	33
ASL	-0.05858372	0.182254573	0.24957428	520	520
ACAD10	-0.058599857	0.182133962	0.24942605	520	520
WDR24	-0.058628377	0.181920942	0.24916818	520	520
PRSS54	-0.05863454	0.181874931	0.24912208	520	57
AQP7	-0.058646883	0.181782808	0.24901281	520	444
ABCC2	-0.058652935	0.181737659	0.24896788	520	519
C20orf85	-0.058661311	0.181675173	0.24889918	520	131
RHCE	-0.05866332	0.181660188	0.24889556	520	514
RAB35	-0.058698219	0.181400045	0.24857292	520	520
C21orf67	-0.058698572	0.181397419	0.24857292	520	520
LOC728743	-0.058736419	0.181115616	0.24823377	520	520
XRCC6	-0.05874919	0.181020598	0.24815505	520	520
C19orf50	-0.058749255	0.18102011	0.24815505	520	520
WWC1	-0.058759159	0.18094645	0.24811997	520	520
ISL2	-0.05876518	0.180901679	0.24809233	520	516

SLC26A8	-0.058855158	0.1802336	0.24726019	520	365
ANXA8L2	-0.058874432	0.180090733	0.24708101	520	520
HRNR	-0.058891615	0.179963438	0.24693996	520	514
VNN2	-0.059058284	0.178732139	0.2453673	520	519
SCOC	-0.059118301	0.178290283	0.24481071	520	520
KIF21A	-0.059126396	0.178230752	0.24475434	520	520
C10orf79	-0.059153491	0.178031589	0.24453876	520	512
USH1C	-0.05915514	0.178019472	0.24453876	520	321
ZNF396	-0.059173897	0.177881702	0.2443976	520	516
ANAPC10	-0.059175747	0.177868116	0.24439746	520	520
SLC16A6	-0.059196902	0.177712838	0.24420074	520	517
KCNV2	-0.059203532	0.177664197	0.24415054	520	379
XPNPEP1	-0.05921672	0.177567464	0.24403424	520	520
SLC17A2	-0.059236764	0.17742052	0.24384891	520	56
CCDC43	-0.059271434	0.177166569	0.24351648	520	520
AQP12A	-0.059279383	0.177108381	0.24346491	520	37
FASTKD5	-0.059292128	0.177015116	0.24335807	520	520
HESRG	-0.059303185	0.176934237	0.24326346	520	475
ZNF653	-0.059312769	0.176864154	0.24318369	520	520
TCOF1	-0.059323564	0.176785239	0.24312328	520	520
KIAA1524	-0.059337223	0.176685421	0.24302079	520	520
FOXG1	-0.059341196	0.176656393	0.24299744	520	295
C2orf49	-0.059342721	0.176645255	0.24299744	520	520
CECR4	-0.059367337	0.176465508	0.24278456	520	418
SLC44A2	-0.059380401	0.176370161	0.24266994	520	520
FAM9B	-0.059402451	0.176209334	0.2424652	520	26
C5orf56	-0.05940838	0.176166102	0.24242225	520	520
OR2A25	-0.059414121	0.176124254	0.24238121	520	227
KRT17	-0.059417057	0.176102858	0.2423683	520	520
GNAI3	-0.059436789	0.175959086	0.24223657	520	520
OR2AT4	-0.059450586	0.175858611	0.24214784	520	29
FEM1A	-0.059527687	0.175297929	0.24144176	520	520
CAPN3	-0.059530626	0.175276581	0.24142885	520	520
TSPAN14	-0.059601325	0.174763666	0.24078815	520	520
PRH2	-0.059617304	0.174647899	0.24064509	520	500
MOCOS	-0.059625026	0.17459197	0.24058447	520	520
ABCG8	-0.059634422	0.17452394	0.24050716	520	161
C9orf135	-0.059695761	0.174080289	0.23997778	520	105
IRGQ	-0.059707954	0.173992202	0.23987274	520	520
PMAIP1	-0.059708851	0.173985725	0.23987274	520	520
OR4D11	-0.059708957	0.173984961	0.23987274	520	21
LOC145837	-0.059717567	0.173922775	0.23982622	520	441
FKBP8	-0.059763112	0.173594129	0.23938941	520	520
ZNF37B	-0.059793914	0.173372128	0.23911598	520	520
C1orf65	-0.059804484	0.173295997	0.23902733	520	387
TPTE2	-0.059850272	0.17296648	0.23860547	520	307

CCDC83	-0.059860625	0.172892039	0.23851909	520	72
LOC282997	-0.059875049	0.172788365	0.23839238	520	520
C14orf182	-0.059890591	0.17267671	0.23825463	520	517
CCDC142	-0.059898	0.172623502	0.23819752	520	520
TRPV5	-0.059939319	0.172326989	0.23782092	520	128
DDX4	-0.059941149	0.172313866	0.23781908	520	168
UNK	-0.059947216	0.172270367	0.23777532	520	520
KIAA1841	-0.059964475	0.172146656	0.23762084	520	520
PITPNA	-0.059974098	0.172077708	0.23754192	520	520
DKFZP434H168	-0.059992154	0.171948395	0.23737967	520	29
HIST1H2BE	-0.060006744	0.171843954	0.23725173	520	520
TRIM15	-0.060007164	0.171840953	0.23725173	520	442
C6orf25	-0.060009101	0.171827088	0.23725173	520	429
ACTL6B	-0.060050154	0.171533498	0.23687176	520	83
C3orf74	-0.060060872	0.171456911	0.23678222	520	489
ZNF574	-0.060066874	0.171414037	0.23676698	520	520
HERC2P4	-0.060104555	0.171145029	0.23646487	520	352
SAA2	-0.060121465	0.171024409	0.23631441	520	520
C12orf12	-0.060140942	0.170885566	0.23613874	520	41
TCP10L2	-0.060153252	0.170797849	0.23603371	520	25
FBXO48	-0.060163934	0.170721763	0.23594473	520	520
EME2	-0.060199401	0.170469322	0.23562815	520	520
PC	-0.060207464	0.170411965	0.23556501	520	520
ALPK1	-0.060222795	0.170302964	0.23543048	520	520
ABHD12B	-0.060255748	0.170068832	0.23513905	520	484
KRT31	-0.060270135	0.169966686	0.23501394	520	515
ACTR10	-0.06031354	0.169658809	0.23462041	520	520
PSMA1	-0.060328081	0.169555752	0.23454224	520	520
C19orf51	-0.060381495	0.169177617	0.23409947	520	520
ARL6IP1	-0.060406555	0.16900043	0.23387034	520	520
SERPINI1	-0.060456012	0.168651144	0.23341902	520	520
DNAH8	-0.060504423	0.168309763	0.23297852	520	399
CSMD1	-0.060570841	0.167842257	0.23241116	520	427
ZNF337	-0.060583462	0.167753528	0.23230425	520	520
C13orf1	-0.06060112	0.167629445	0.23214836	520	520
RAD51AP2	-0.060603051	0.16761588	0.23214552	520	507
KRT1	-0.060640109	0.167355716	0.23181704	520	517
LOC255167	-0.060649176	0.167292108	0.23174485	520	460
IL28A	-0.060650636	0.167281869	0.23174485	520	211
JMJD5	-0.060669362	0.167150564	0.23158059	520	520
ROD1	-0.060685908	0.167034606	0.23145175	520	520
KCNJ14	-0.060690777	0.167000498	0.23143629	520	520
SIDT1	-0.060695094	0.166970261	0.23141029	520	519
COPG2	-0.060705401	0.166898079	0.23135796	520	520
LOC100131496	-0.060710007	0.166865825	0.23132915	520	482
CA14	-0.060715629	0.166826469	0.23129049	520	517

HIGD2B	-0.060737669	0.166672252	0.23109257	520	210
SEBOX	-0.060755378	0.166548415	0.23093675	520	51
SETDB1	-0.060756924	0.166537605	0.23093675	520	520
PLAC1L	-0.060768052	0.166459829	0.23084567	520	10
PAXIP1	-0.060768625	0.166455828	0.23084567	520	520
OR2T10	-0.060769596	0.166449039	0.23084567	520	18
TMSB4Y	-0.060773729	0.166420163	0.23083829	520	384
CDC4A8	-0.060805384	0.166199098	0.23057924	520	520
LCE2C	-0.060806287	0.166192797	0.23057924	520	343
MFSD11	-0.060848571	0.165897863	0.23020883	520	520
SPRR2G	-0.060853691	0.165862174	0.23017515	520	517
C6orf115	-0.060881398	0.165669158	0.22992311	520	520
C21orf88	-0.060893569	0.165584423	0.22982133	520	335
CNPY1	-0.060932736	0.165311966	0.22945897	520	193
FAM36A	-0.060945519	0.165223119	0.22935144	520	520
DSCR9	-0.060951498	0.165181577	0.22930956	520	485
HAVCR1	-0.060961922	0.165109165	0.2292406	520	244
C12orf69	-0.06096241	0.165105772	0.2292406	520	460
HNRPDL	-0.060986398	0.164939228	0.22906774	520	520
DAZAP2	-0.060993576	0.164889414	0.22901434	520	520
FAM113A	-0.061008845	0.164783495	0.22889876	520	520
RAB38	-0.061045466	0.164529666	0.22857766	520	520
F8A1	-0.061051959	0.16448469	0.22853092	520	520
SUPT7L	-0.061084224	0.164261338	0.22825206	520	520
ATAD2B	-0.061092911	0.164201243	0.22818428	520	520
TXNRD2	-0.061103035	0.164131231	0.2281027	520	520
PEX1	-0.06112368	0.163988521	0.22792008	520	520
HACL1	-0.061161355	0.163728337	0.22757415	520	520
LOC646813	-0.061187858	0.163545493	0.22736702	520	15
ACYP2	-0.061188908	0.163538251	0.22736702	520	520
FABP7	-0.061227412	0.163272892	0.22705066	520	420
C2CD2L	-0.061267879	0.162994353	0.22670476	520	520
OR5K2	-0.061327348	0.162585678	0.22621982	520	201
MAP3K14	-0.061348889	0.162437833	0.2260453	520	520
OMP	-0.061351309	0.162421228	0.2260378	520	158
FAM90A1	-0.061415917	0.161978447	0.22546827	520	510
POLR3E	-0.061424793	0.161917683	0.22539925	520	520
ZNF335	-0.061435894	0.16184172	0.22532462	520	520
CCNB1IP1	-0.061449732	0.161747057	0.22520837	520	520
DNMBP	-0.06149397	0.161444724	0.22481847	520	520
DUSP7	-0.061562001	0.16098062	0.22423413	520	520
FRMPD2L1	-0.0615999	0.160722508	0.22390553	520	16
CHRM1	-0.061645176	0.160414567	0.22353831	520	337
ZNF878	-0.061653629	0.160357121	0.2234737	520	448
TSC1	-0.061653799	0.160355971	0.2234737	520	520
ZNF564	-0.061695641	0.160071859	0.22312242	520	520

LEPROTL1	-0.061709851	0.159975458	0.22300347	520	520
DGKQ	-0.061726943	0.159859558	0.2228693	520	520
SCARNA22	-0.061759455	0.159639282	0.222581	520	13
KRTAP4-5	-0.061791286	0.159423842	0.22229599	520	11
GABARAPL2	-0.061796915	0.159385767	0.22225827	520	520
AVEN	-0.061826843	0.159183437	0.22199615	520	520
IFITM4P	-0.061827383	0.159179787	0.22199615	520	200
PRSS21	-0.061831353	0.159152964	0.22199504	520	489
TMCO1	-0.061833667	0.159137333	0.2219886	520	520
HES3	-0.061844284	0.159065616	0.22191926	520	3
MFSD2A	-0.061867625	0.158908046	0.22173011	520	520
OR11A1	-0.061881193	0.158816503	0.22161771	520	45
CASP3	-0.061896993	0.158709958	0.22148436	520	520
OTUD1	-0.061915719	0.158583744	0.22132355	520	520
MPI	-0.061920296	0.158552908	0.22129583	520	520
PDLIM2	-0.061927634	0.158503474	0.22124215	520	520
ARMC6	-0.062034149	0.157787285	0.22033399	520	520
STAT3	-0.062070897	0.157540762	0.22003546	520	520
LOC100132111	-0.062076992	0.1574999	0.21999363	520	466
ANKRD36	-0.06208105	0.157472702	0.21997087	520	520
KCNK10	-0.062126598	0.157167648	0.21957517	520	514
SLC22A5	-0.062138663	0.157086921	0.21950802	520	520
VTA1	-0.062167374	0.156894937	0.21925494	520	520
LOC100287704	-0.062199401	0.156680989	0.21898631	520	11
GP2	-0.06220584	0.156638001	0.2189414	520	180
S100A13	-0.06228983	0.156078095	0.21823443	520	520
NPIP	-0.062303848	0.155984794	0.2181191	520	520
FBXO5	-0.062309316	0.155948412	0.21808335	520	520
SNTN	-0.062337851	0.15575865	0.21786331	520	221
KIAA1257	-0.0623593	0.155616128	0.21767906	520	517
PISD	-0.062375132	0.15551099	0.21754708	520	520
OR2G6	-0.062438384	0.155091485	0.21699033	520	18
ICA1	-0.062438757	0.155089018	0.21699033	520	520
PLEKHG3	-0.062449125	0.155020333	0.21693594	520	520
ZNF645	-0.062528504	0.154495267	0.2162612	520	41
DNTT	-0.062531422	0.154475991	0.21624923	520	111
REXO1	-0.062536322	0.154443628	0.21621893	520	520
GGT8P	-0.062575799	0.154183067	0.21591412	520	413
C8orf80	-0.062610909	0.153951612	0.21561994	520	498
NEURL4	-0.062617776	0.153906377	0.21557156	520	520
CRTC2	-0.062686379	0.153454987	0.21498411	520	520
CEBPZ	-0.062693822	0.15340607	0.21493052	520	520
MSRA	-0.062701859	0.153353267	0.21487147	520	520
SHROOM2	-0.062706537	0.15332254	0.21484334	520	520
NEK11	-0.062707976	0.153313092	0.21484334	520	520
PCGF3	-0.062721548	0.153223973	0.21475	520	520

C4BPB	-0.062723998	0.153207889	0.21474238	520	322
PPP1R14B	-0.062771335	0.152897388	0.21432207	520	520
TTPA	-0.062775069	0.152872916	0.21430266	520	164
LRRC37A4	-0.062828215	0.15252492	0.21385943	520	519
NCRNA00029	-0.062882097	0.152172722	0.21339528	520	55
OR10X1	-0.062931372	0.151851179	0.212974	520	6
RGNEF	-0.062968256	0.151610833	0.2126517	520	520
TMEM213	-0.062986537	0.151491812	0.21249954	520	251
RNU4ATAC	-0.062993332	0.151447595	0.2124523	520	18
CRIP1	-0.063005725	0.151366966	0.21235396	520	520
ZNF771	-0.063016317	0.151298086	0.2123062	520	520
TBP	-0.063033568	0.151185947	0.21220336	520	520
KRTAP4-12	-0.063058316	0.151025186	0.21200723	520	49
C20orf79	-0.063062892	0.150995475	0.21198028	520	8
MAPKAP1	-0.063082136	0.150870573	0.21181968	520	520
RIC3	-0.063087229	0.150837536	0.21178804	520	505
OR1D2	-0.063096246	0.15077905	0.21172153	520	33
CELSR2	-0.063129186	0.150565538	0.21146504	520	520
EIF3H	-0.063131044	0.150553503	0.21146286	520	520
LRPPRC	-0.063171773	0.150289839	0.21112194	520	520
CBFA2T2	-0.06318203	0.150223499	0.21104345	520	520
CWH43	-0.063190359	0.150169638	0.21098248	520	481
RRP7A	-0.063194141	0.150145189	0.21096283	520	520
OPALIN	-0.063199037	0.150113542	0.21093306	520	80
SLC9A2	-0.063271771	0.149643985	0.21031723	520	511
OR5I1	-0.063284629	0.149561095	0.21021539	520	7
PDIA2	-0.063285798	0.149553558	0.21021539	520	465
PAX6	-0.06330116	0.149454573	0.2101096	520	519
C9orf116	-0.063302478	0.149446087	0.2101096	520	520
IFFO2	-0.063303785	0.149437663	0.2101096	520	520
IGLL3	-0.063381163	0.14893988	0.20947365	520	170
DPY19L2P4	-0.063402028	0.148805872	0.20931438	520	243
SPCS2	-0.06340561	0.14878287	0.20929662	520	520
TTC23L	-0.063448788	0.148505873	0.2089507	520	427
C17orf79	-0.063451934	0.148485702	0.20893689	520	520
MLLT10	-0.063457631	0.148449188	0.20890009	520	520
SMCR5	-0.063463383	0.148412328	0.2088628	520	270
GPI	-0.063466313	0.148393557	0.20885096	520	520
RFPL1S	-0.063467327	0.148387062	0.20885096	520	470
KRT20	-0.06351124	0.148105917	0.20848979	520	277
ANKRD29	-0.063570924	0.147724462	0.2080109	520	520
ABCB11	-0.06357477	0.147699908	0.20799085	520	404
GDEP	-0.063582332	0.147651632	0.20793739	520	31
SPDEF	-0.063595902	0.147565044	0.20784439	520	506
PMM1	-0.063609982	0.147475236	0.20773249	520	520
HIST1H2BL	-0.063614898	0.147443888	0.20770285	520	495

CHERP	-0.063629553	0.147350476	0.20758576	520	520
PDLIM1	-0.063646286	0.147243871	0.20747907	520	520
KRTAP1-3	-0.063646905	0.147239927	0.20747907	520	51
TMEM60	-0.063648006	0.147232916	0.20747907	520	520
VLDLR	-0.063707943	0.146851566	0.2069986	520	520
NTF4	-0.063713887	0.146813783	0.20695981	520	518
DUXA	-0.063749448	0.146587927	0.20669923	520	175
MMEL1	-0.063791236	0.146322863	0.2063399	520	448
WDR70	-0.063812849	0.146185908	0.20617561	520	520
NEU4	-0.063814242	0.146177088	0.20617561	520	477
SGSH	-0.063816693	0.146161562	0.20617011	520	520
CCDC37	-0.063885428	0.145726728	0.20562867	520	155
ADAM20	-0.063890771	0.145692966	0.20560981	520	466
VCX3A	-0.063893009	0.145678828	0.20560425	520	359
CASC2	-0.06390433	0.14560732	0.20551771	520	517
FAM83A	-0.06390697	0.145590652	0.20550857	520	520
LOC732275	-0.063943446	0.14536046	0.20522674	520	115
CCDC39	-0.06395989	0.145256779	0.20509472	520	510
PRPF38B	-0.063971973	0.145180626	0.20500155	520	520
SNORA22	-0.06400453	0.144975595	0.20472637	520	14
GZMA	-0.06403777	0.14476649	0.20444541	520	520
C19orf41	-0.064046371	0.144712421	0.20438336	520	61
GPX1	-0.064090747	0.144433706	0.20403259	520	520
ERICH1	-0.06409296	0.144419815	0.20402727	520	520
C10orf76	-0.064093236	0.144418088	0.20402727	520	520
SLC37A1	-0.064126672	0.144208371	0.2037571	520	520
QRSL1	-0.064152074	0.144049196	0.20356072	520	520
LIPN	-0.064190538	0.143808434	0.20329656	520	409
ATP2C2	-0.064237417	0.143515419	0.2029202	520	520
WARS	-0.064239429	0.143502852	0.2029202	520	520
AGXT2L2	-0.064273707	0.143288897	0.20267097	520	520
CHMP1B	-0.064301106	0.143118059	0.20245773	520	520
FAM115C	-0.06430139	0.143116288	0.20245773	520	520
DNAJA4	-0.064307738	0.143076726	0.20242767	520	520
DDIT3	-0.064311993	0.143050219	0.20240437	520	520
MYEOV	-0.064352316	0.142799169	0.20210588	520	520
OR6B3	-0.064360881	0.142745888	0.20205883	520	59
CLIP1	-0.064426271	0.142339601	0.20154032	520	520
KCNK18	-0.064437553	0.142269589	0.20145534	520	17
MDP1	-0.064472129	0.1420552	0.20116589	520	520
PGAM1	-0.064498901	0.141889368	0.20095928	520	520
DNAJA1	-0.064499121	0.141888006	0.20095928	520	520
PRR21	-0.064554402	0.141546056	0.20051529	520	62
NPPA	-0.064558977	0.141517785	0.20048933	520	356
CNNM3	-0.064580366	0.14138567	0.20033031	520	520
KIF2B	-0.064583657	0.141365352	0.20032968	520	33

CIT	-0.064647159	0.140973712	0.19978872	520	520
TXNDC6	-0.064676156	0.140795154	0.19957775	520	484
CDK4	-0.064712193	0.14057349	0.19930557	520	520
IMMP2L	-0.064717767	0.140539222	0.199271	520	520
WDR27	-0.064756175	0.140303311	0.19895049	520	520
NCRNA00107	-0.064811964	0.139961182	0.19852119	520	503
NAPSA	-0.064818705	0.139919884	0.19847658	520	508
MRPL15	-0.06485564	0.139693781	0.19816979	520	520
LOC149134	-0.064858636	0.139675457	0.19815774	520	469
UBAP1	-0.064913996	0.139337117	0.19771947	520	520
APOBEC1	-0.064927628	0.139253905	0.1976153	520	47
PTH2R	-0.064941286	0.139170566	0.19752483	520	373
GALT	-0.064966203	0.139018628	0.19733697	520	520
N4BP2L2	-0.064990999	0.138867556	0.19715028	520	520
FCER2	-0.06499492	0.138843681	0.19713026	520	439
SNORA40	-0.065003539	0.138791202	0.19706963	520	110
SLC7A13	-0.065015722	0.138717055	0.19700246	520	34
RRP15	-0.065018318	0.13870126	0.19699741	520	520
SETMAR	-0.065045975	0.138533058	0.19677237	520	520
C11orf65	-0.065048532	0.13851752	0.19676416	520	519
OTUB2	-0.065053763	0.138485723	0.19673285	520	520
GTF2F1	-0.065106872	0.138163262	0.19633009	520	520
CAMP	-0.065107335	0.138160452	0.19633009	520	471
L3MBTL2	-0.065157534	0.137856194	0.19592136	520	520
SNORD89	-0.065161692	0.137831011	0.19589938	520	21
TNK1	-0.065170354	0.137778573	0.19583865	520	520
LOC401127	-0.065193363	0.137639342	0.19566834	520	517
SMARCE1	-0.065240498	0.137354469	0.19530425	520	520
ZNF20	-0.065248738	0.137304717	0.19524769	520	520
LOC645332	-0.065252378	0.137282742	0.19523021	520	520
FAM129C	-0.065302174	0.136982392	0.19485806	520	474
OTX1	-0.065331211	0.13680749	0.19463672	520	520
HGFAC	-0.06534287	0.136737315	0.19456434	520	358
OR8B2	-0.065370613	0.136570433	0.19435431	520	25
FABP2	-0.065386353	0.136475819	0.19426079	520	105
ASPM	-0.065388716	0.136461618	0.19425429	520	520
UNC45A	-0.065406183	0.136356694	0.19411864	520	520
OR11G2	-0.065415971	0.136297928	0.19404868	520	18
OR10G3	-0.065430315	0.136211835	0.1939535	520	48
BYSL	-0.065431952	0.136202015	0.1939535	520	520
FLG	-0.065449149	0.136098864	0.1938337	520	520
OBFC2A	-0.065481388	0.135905651	0.19357477	520	520
CRISP1	-0.065486344	0.135875965	0.19355726	520	33
BCORL2	-0.065487542	0.135868792	0.19355726	520	292
OR2T3	-0.065505137	0.135763451	0.19342431	520	39
AHSA1	-0.065528014	0.13562658	0.19324296	520	520

OR10AG1	-0.065528048	0.13562638	0.19324296	520	7
OR2T35	-0.065585768	0.135281527	0.19281945	520	4
EML5	-0.065588296	0.135266435	0.19281156	520	520
HSD17B2	-0.065624219	0.135052173	0.19251976	520	519
DERL2	-0.065640437	0.134955523	0.19239559	520	520
LOC401010	-0.065657821	0.134851988	0.19226158	520	520
ATP6V1A	-0.06567044	0.134776871	0.19218166	520	520
EEF1A1	-0.06569221	0.134647349	0.19206488	520	520
ASCL3	-0.065694334	0.13463472	0.19206045	520	133
HIST1H4C	-0.065706876	0.134560154	0.19196766	520	427
CBWD5	-0.065708707	0.134549266	0.19196571	520	275
NR2C1	-0.065745243	0.134332241	0.1916832	520	520
TNP2	-0.065748467	0.134313101	0.19166945	520	13
DCDC2B	-0.065753552	0.134282918	0.19163994	520	147
PPP1R1C	-0.065861238	0.133645002	0.1908163	520	515
LOC100287718	-0.065885481	0.133501716	0.19064333	520	100
VHLL	-0.065899	0.133421858	0.19058645	520	134
KRTAP4-2	-0.065907375	0.133372411	0.19052932	520	63
C10orf53	-0.065957759	0.133075216	0.19015865	520	64
ING3	-0.065957878	0.133074514	0.19015865	520	520
ZNF565	-0.066038057	0.132602626	0.18959082	520	520
TRAPPC4	-0.066109021	0.132186051	0.18904884	520	520
GTF2F2	-0.066162413	0.131873295	0.18864168	520	520
CDC42EP1	-0.06617095	0.131823338	0.1885836	520	520
HIST1H2AA	-0.066191951	0.131700512	0.18842125	520	6
RPRM	-0.066248568	0.131369825	0.18802819	520	475
OR6Y1	-0.066250516	0.131358459	0.18802527	520	13
PAX2	-0.066259225	0.131307654	0.18796589	520	231
AP4B1	-0.066266419	0.131265696	0.18791917	520	520
EEF1D	-0.066281279	0.131179062	0.18780848	520	520
STX5	-0.066356013	0.130744029	0.18723882	520	520
PLGLB2	-0.066397856	0.130500944	0.18690397	520	517
AMAC1	-0.066420043	0.130372196	0.18673514	520	262
LOC100101938	-0.066457066	0.130157568	0.18647841	520	255
TSEN15	-0.066477712	0.130037999	0.18633359	520	520
CAPS	-0.066480149	0.130023893	0.18632661	520	520
OR13G1	-0.06648041	0.130022378	0.18632661	520	10
C1orf158	-0.066526948	0.129753201	0.18599158	520	106
RNASE7	-0.066599439	0.129334761	0.18545908	520	519
C8orf86	-0.06660911	0.129279018	0.18540413	520	63
LOC26102	-0.066686203	0.128835309	0.18480723	520	299
GLB1L3	-0.066753655	0.128448061	0.18427796	520	440
HBEGF	-0.06676032	0.128409849	0.18423625	520	520
THEM4	-0.066763338	0.128392545	0.18422453	520	520
USP43	-0.066786293	0.12826101	0.18404889	520	520
DTWD2	-0.066795591	0.12820776	0.18398557	520	520

NLRP14	-0.066814152	0.128101514	0.18384619	520	311
VWA3A	-0.06683853	0.12796207	0.18365913	520	306
SYCE1L	-0.066861828	0.127828916	0.18350506	520	518
FAM110C	-0.066898165	0.127621452	0.18327277	520	517
TTLL3	-0.06690989	0.12755457	0.18319162	520	520
COBLL1	-0.066910304	0.127552206	0.18319162	520	520
C1QTNF8	-0.066926468	0.127460044	0.18308194	520	112
RAD23B	-0.066934639	0.127413476	0.18302809	520	520
CCDC106	-0.066946935	0.127343419	0.18294049	520	520
CST9L	-0.067035277	0.126840985	0.18225765	520	109
TAAR2	-0.067043598	0.12679374	0.18220275	520	5
HAPLN2	-0.067106284	0.126438256	0.18175668	520	302
C3orf66	-0.067113097	0.126399667	0.18171417	520	56
HADHA	-0.067120942	0.126355243	0.18166325	520	520
C8orf47	-0.067125852	0.126327448	0.18163624	520	465
C11orf93	-0.067196302	0.125929129	0.18109499	520	515
CALB1	-0.067225469	0.125764507	0.18089133	520	484
CYP1A1	-0.067300033	0.125344424	0.1803257	520	380
CDC23	-0.067336202	0.125141043	0.18004595	520	520
C20orf185	-0.067346446	0.125083488	0.17997598	520	51
WAC	-0.067384814	0.1248681	0.1796789	520	520
DUSP1	-0.06740096	0.124777544	0.1795614	520	520
LYRM2	-0.067410446	0.124724372	0.1794977	520	520
FAM43A	-0.067416888	0.124688267	0.17945854	520	520
MPDU1	-0.067419335	0.124674558	0.17945162	520	520
C22orf42	-0.06746261	0.124432261	0.17912844	520	17
SLC6A16	-0.067525579	0.124080354	0.17864736	520	503
PQLC2	-0.067527942	0.124067166	0.17864113	520	520
OR2T6	-0.067549553	0.12394658	0.17849299	520	7
C12orf71	-0.067559229	0.12389262	0.17843282	520	290
GBA3	-0.067629488	0.123501346	0.17794077	520	308
MBTD1	-0.067662149	0.123319788	0.17769188	520	520
RC3H1	-0.067673487	0.123256805	0.17761382	520	520
IRAK4	-0.067713295	0.123035885	0.17734617	520	520
ELP3	-0.067714935	0.123026792	0.17734574	520	520
PLA2G2F	-0.067719014	0.123004174	0.17732581	520	499
C4orf51	-0.067721753	0.122988985	0.17731659	520	110
INTS5	-0.067751172	0.122825967	0.17710689	520	520
FAM71C	-0.067765274	0.122747882	0.17700696	520	45
DBX2	-0.067875554	0.122138592	0.17622916	520	270
SDF2	-0.067877767	0.122126387	0.17622416	520	520
CHST2	-0.067878156	0.122124241	0.17622416	520	520
NR1H2	-0.067887225	0.122074248	0.17617414	520	520
CEACAM22P	-0.067916343	0.121913829	0.17596782	520	253
NT5C3L	-0.067927416	0.121852872	0.17589243	520	520
SNORA38	-0.067944127	0.121760919	0.17578486	520	16

SRY	-0.067953899	0.12170717	0.17571985	520	272
RBM25	-0.068002731	0.121438872	0.17535759	520	520
TRMT5	-0.068020239	0.121342791	0.17524395	520	520
LOC728606	-0.068020824	0.12133958	0.17524395	520	184
TNP1	-0.068088046	0.120971226	0.17477191	520	17
SNORA46	-0.068094552	0.120935624	0.17474353	520	31
ZFAND2A	-0.068132697	0.120727042	0.17446889	520	520
SLC4A1AP	-0.068138716	0.120694153	0.17445713	520	520
GCNT7	-0.068146399	0.120652185	0.17440897	520	274
BRSK2	-0.068153174	0.120615185	0.17436798	520	478
RNF31	-0.068225135	0.120222737	0.17385049	520	520
KIF13B	-0.06825185	0.1200773	0.17367661	520	520
WDR92	-0.068290335	0.119868021	0.17341217	520	520
ZCRB1	-0.068303957	0.11979402	0.17331754	520	520
DCAF12	-0.068307785	0.119773229	0.1732999	520	520
LOC645323	-0.0683286	0.119660229	0.17316125	520	282
NPLOC4	-0.068395793	0.119296023	0.17267138	520	520
RBP2	-0.068413617	0.119199557	0.17255653	520	91
FAM50A	-0.06846815	0.118904792	0.17215498	520	520
PRKAR1B	-0.068469455	0.118897743	0.17215498	520	520
EXOC6	-0.068509392	0.118682247	0.17188169	520	520
ZBPB	-0.068522413	0.118612053	0.17179237	520	39
PNLDC1	-0.06853626	0.118537442	0.17170898	520	479
RNF34	-0.068550918	0.118458504	0.17160696	520	520
GPCPD1	-0.068562474	0.118396294	0.17152916	520	520
TNNI3	-0.068575452	0.118326466	0.17144031	520	475
VCP	-0.068625977	0.118054915	0.17109605	520	520
MT1X	-0.068655993	0.117893823	0.17087486	520	520
GPR55	-0.068675447	0.117789503	0.17073593	520	518
STEAP4	-0.068719567	0.117553191	0.17040565	520	520
OPN5	-0.068744501	0.117419808	0.17023677	520	161
AAAS	-0.068772219	0.117271671	0.17004645	520	520
KIAA0528	-0.068791437	0.117169042	0.16992208	520	520
TBCD	-0.068792061	0.117165711	0.16992208	520	520
HK2	-0.068812529	0.117056494	0.16978328	520	520
CEACAM3	-0.068819885	0.117017259	0.16973858	520	506
FSTL4	-0.068846573	0.116875006	0.16956152	520	515
TAS2R9	-0.06899346	0.116094479	0.16854554	520	19
ZNF596	-0.069058947	0.115747817	0.16807857	520	520
FBXL17	-0.069078558	0.115644161	0.16796433	520	520
NOTCH2NL	-0.069080846	0.11563207	0.16795887	520	520
WIPI2	-0.069125798	0.115394766	0.16765041	520	520
TMEM218	-0.069140098	0.115319359	0.16756261	520	520
IFNA10	-0.069143214	0.115302933	0.16755321	520	12
PNP	-0.06917919	0.115113406	0.16732603	520	520
OR4C16	-0.069188403	0.115064912	0.1672676	520	11

PAN2	-0.069200654	0.115000448	0.16718594	520	520
TIMM22	-0.069219943	0.114899013	0.16705052	520	520
HDAC10	-0.069226249	0.114865865	0.16701437	520	520
FAM81B	-0.069238138	0.11480339	0.16694761	520	206
ASCL4	-0.069243059	0.11477754	0.16692206	520	324
RLN3	-0.069256193	0.114708569	0.16683378	520	48
TIGD5	-0.069262854	0.114673603	0.16679792	520	520
OR51G2	-0.069268501	0.114643964	0.16677591	520	6
DEFB124	-0.06930732	0.114440391	0.16652782	520	49
ANP32E	-0.069326432	0.114340269	0.16640615	520	520
KCNJ4	-0.069370185	0.114111317	0.16610891	520	338
CD3D	-0.069391382	0.114000528	0.1659716	520	520
IL4R	-0.069426642	0.113816418	0.16571676	520	520
TBC1D2	-0.069439311	0.113750327	0.16565518	520	520
GZMM	-0.069444162	0.113725028	0.16564226	520	516
ST6GALNAC2	-0.069445871	0.113716112	0.16564124	520	520
OR5AK2	-0.069507474	0.113395244	0.16520966	520	9
LOC339568	-0.069523602	0.113311354	0.16509937	520	9
GABRA6	-0.069563308	0.113105035	0.16481066	520	35
DCAF10	-0.069568184	0.113079719	0.16478568	520	520
KCTD2	-0.069577183	0.11303301	0.16472952	520	520
MFN2	-0.069578598	0.113025664	0.16472952	520	520
GDPD4	-0.069596084	0.112934947	0.1646223	520	295
CLK2P	-0.069622767	0.112796628	0.16443256	520	520
TPH1	-0.069740266	0.112189117	0.1635706	520	396
TMEM63C	-0.069770166	0.112034935	0.16339306	520	520
C9orf82	-0.06978254	0.111971177	0.1633237	520	519
CITED4	-0.069799902	0.111881764	0.16320508	520	520
GTF2IRD2	-0.069840677	0.111672	0.16292267	520	520
SLC17A3	-0.069853502	0.111606083	0.16283828	520	98
HOXA7	-0.069883047	0.111454355	0.16264357	520	513
IL10RB	-0.069934116	0.111192473	0.16230527	520	520
OR2G3	-0.069954674	0.111087185	0.16216332	520	23
SAA1	-0.069962694	0.111046136	0.16211514	520	520
HJURP	-0.069984861	0.110932727	0.1619613	520	520
LOC150197	-0.069984881	0.110932625	0.1619613	520	457
FLG2	-0.069989	0.110911563	0.16195385	520	455
AKAP14	-0.070032098	0.110691374	0.16164404	520	194
COPS7B	-0.070092925	0.110381185	0.16120274	520	520
ACBD5	-0.070101847	0.110335749	0.16115973	520	520
C16orf92	-0.070109871	0.110294895	0.16111173	520	66
SLC6A4	-0.070142886	0.110126927	0.16090134	520	480
LOC100134368	-0.070157994	0.110050128	0.16082409	520	449
FAM163B	-0.070223415	0.109718069	0.16035331	520	188
NEFH	-0.070242516	0.109621266	0.1602322	520	518
TMEM14C	-0.070246094	0.109603139	0.16022893	520	520

DDX31	-0.070253476	0.109565752	0.16020912	520	520
MYPOP	-0.070258704	0.109539279	0.16018203	520	520
DENND1A	-0.070269754	0.109483339	0.16011184	520	520
C11orf67	-0.070276261	0.109450411	0.16008691	520	520
C14orf166B	-0.070287419	0.109393966	0.16001595	520	100
RPE65	-0.070310233	0.109278619	0.15987043	520	343
LOC730811	-0.070318639	0.109236144	0.15981988	520	30
CLN8	-0.070358314	0.109035848	0.15953841	520	520
OR11L1	-0.07035974	0.109028655	0.15953841	520	21
DPPA5	-0.070364601	0.109004132	0.15951515	520	40
NAT9	-0.070370835	0.108972696	0.15948073	520	520
ASNS	-0.070379223	0.108930403	0.15944197	520	520
MPV17L2	-0.070379784	0.108927578	0.15944197	520	520
CNTD2	-0.070397411	0.108838749	0.15934252	520	512
LYRM4	-0.0704308	0.108670648	0.15913108	520	520
PRICKLE3	-0.070456483	0.108541487	0.15897611	520	520
MANEAL	-0.070482404	0.10841125	0.15880889	520	520
ZNF711	-0.07050877	0.1082789	0.15863807	520	520
OTOR	-0.070520037	0.108222383	0.15856679	520	38
C1orf122	-0.07052433	0.108200854	0.15854676	520	520
NPHS2	-0.07054623	0.108091084	0.15839743	520	76
DGCR6	-0.070573081	0.107956621	0.15821414	520	520
FAM177B	-0.070577819	0.107932907	0.15820013	520	311
EIF5	-0.070583969	0.107902134	0.15816652	520	520
RBM11	-0.070599985	0.107822022	0.15806058	520	476
C14orf109	-0.070634019	0.107651942	0.1578342	520	520
ZNF586	-0.07064275	0.107608341	0.15778175	520	520
SLC26A4	-0.07066294	0.107507576	0.15764546	520	514
C14orf72	-0.070682252	0.107411263	0.15752714	520	515
ETNK2	-0.070688427	0.107380485	0.15749346	520	520
PFDN4	-0.070733129	0.107157858	0.15720124	520	520
COX11	-0.070734233	0.107152363	0.15720124	520	520
UMODL1	-0.070739516	0.107126078	0.15717749	520	410
BDNFOS	-0.070741981	0.107113817	0.15717094	520	517
CD55	-0.070757312	0.107037575	0.15707049	520	520
ADRB1	-0.070774867	0.106950324	0.15696531	520	505
ACCS	-0.070815014	0.106750997	0.15668417	520	520
C7orf33	-0.070831507	0.106669199	0.15657551	520	101
CDRT4	-0.070841033	0.106621976	0.15652898	520	520
SCARNA9	-0.070852293	0.106566175	0.15646984	520	489
ACOT11	-0.070871709	0.106470017	0.15635143	520	520
OR4D2	-0.070871714	0.10646999	0.15635143	520	7
KIAA0649	-0.070935732	0.10615342	0.15595465	520	520
TCEB3	-0.070937456	0.106144901	0.1559535	520	520
TTC35	-0.070949782	0.106084039	0.15587543	520	520
LOC649330	-0.070966597	0.106001055	0.15576485	520	514

DHX58	-0.070972745	0.105970724	0.15573834	520	520
OR4F6	-0.070976935	0.105950058	0.15572396	520	10
HLA-DOB	-0.070980635	0.105931816	0.15570849	520	520
TMCO5A	-0.070985188	0.105909366	0.15568684	520	60
LOC647859	-0.070991532	0.105878093	0.15565222	520	304
LOC390595	-0.071029412	0.105691505	0.15538925	520	511
ATF5	-0.071036179	0.105658204	0.15535161	520	520
FNBP4	-0.071044997	0.105614813	0.15529914	520	520
TRMT2B	-0.071058353	0.105549125	0.15521387	520	520
SLC25A4	-0.071088868	0.105399171	0.15501597	520	520
THSD1P1	-0.071118692	0.105252769	0.15481194	520	520
NOL4	-0.07121604	0.10477603	0.15416695	520	202
THUMPD3	-0.071224555	0.104734411	0.15411696	520	520
AGL	-0.071273251	0.104496652	0.15382322	520	520
FDX1	-0.071324137	0.104248657	0.15350299	520	520
ELP4	-0.071365808	0.104045919	0.15322684	520	520
LOC148145	-0.071387634	0.103939852	0.15308182	520	43
POTEC	-0.071432777	0.103720755	0.15279261	520	34
WDR5B	-0.071443716	0.103667715	0.1527368	520	520
LENEP	-0.07144851	0.103644478	0.15271372	520	202
TSPAN17	-0.071475398	0.103514229	0.1525664	520	520
CST11	-0.071506294	0.103364724	0.15236832	520	162
C7orf27	-0.071525475	0.103271991	0.15224276	520	520
DLX6AS	-0.071551292	0.103147282	0.15207003	520	501
NSMCE2	-0.071572324	0.103045776	0.1519426	520	520
EPHB3	-0.071610691	0.102860811	0.15170314	520	520
EI24	-0.071636438	0.102736831	0.15153319	520	520
CEP55	-0.071642698	0.102706707	0.15150911	520	520
GAGE10	-0.071644947	0.102695887	0.15150423	520	44
NCRNA00115	-0.071650271	0.102670272	0.15148807	520	520
DGCR14	-0.071692626	0.102466688	0.15122142	520	520
DNAH11	-0.071751143	0.102185941	0.15087335	520	493
LONP1	-0.071796849	0.101967086	0.15056124	520	520
FAM71A	-0.071802589	0.101939627	0.15053172	520	157
ONECUT1	-0.071821722	0.101848138	0.15040764	520	339
SNORA65	-0.071841323	0.101754482	0.15029134	520	77
HPS1	-0.071848602	0.101719724	0.15025101	520	520
EIF3B	-0.071916973	0.101393662	0.1498023	520	520
ARG1	-0.071917581	0.101390764	0.1498023	520	405
MLLT4	-0.071931308	0.101325403	0.14972339	520	520
SOX3	-0.071953846	0.101218155	0.14957588	520	39
PKNOX1	-0.07201887	0.100909252	0.14915219	520	520
BMS1P4	-0.072045413	0.100783373	0.1489989	520	517
DDX46	-0.072047928	0.100771455	0.1489922	520	520
IQCH	-0.072055106	0.100737437	0.14895283	520	520
PCF11	-0.072104269	0.100504693	0.14863048	520	520

XCL1	-0.072122739	0.100417368	0.14851223	520	515
C17orf104	-0.072122945	0.100416393	0.14851223	520	517
HNF4G	-0.072225058	0.099934687	0.14789346	520	460
HSFY2	-0.072278303	0.099684237	0.14755784	520	77
TMSB10	-0.072283354	0.099660504	0.14753354	520	520
ZNF140	-0.072291339	0.099622998	0.14748885	520	520
WDR47	-0.072329457	0.099444094	0.14726724	520	520
SIGLEC16	-0.072366399	0.09927096	0.14702164	520	496
PIK3R3	-0.072426571	0.09898946	0.14663705	520	520
CYB5A	-0.072461553	0.0988261	0.14640581	520	520
NSF	-0.072477954	0.098749586	0.14630321	520	520
SEPT7P2	-0.072488811	0.098698958	0.14623894	520	519
IFNGR1	-0.072492231	0.098683013	0.14622606	520	520
MTMR14	-0.072553029	0.098399935	0.14583876	520	520
CYP8B1	-0.072614418	0.09811476	0.14545886	520	440
FSCN2	-0.072614483	0.098114457	0.14545886	520	500
KLC3	-0.072615545	0.098109532	0.14545886	520	520
KRT37	-0.072638572	0.098002735	0.14533788	520	415
TMEM82	-0.072656781	0.097918349	0.14524243	520	81
WTAP	-0.072672058	0.0978476	0.14514817	520	520
LRP5L	-0.072697022	0.097732071	0.14498745	520	519
DEDD	-0.072700437	0.097716276	0.14498536	520	520
FOXQ1	-0.072707175	0.097685115	0.14494979	520	519
IL18RAP	-0.072718148	0.097634391	0.14488518	520	517
PLA2G6	-0.072734815	0.097557379	0.14480287	520	520
KRTAP9-8	-0.072773371	0.097379422	0.14456001	520	122
C7orf68	-0.072887358	0.09685481	0.14384477	520	520
CYB5R1	-0.07289166	0.096835053	0.14382602	520	520
OR6C76	-0.072910478	0.09674868	0.14370832	520	20
TMIGD2	-0.07292401	0.096686602	0.14362669	520	511
CRABP2	-0.072931453	0.096652475	0.14359715	520	520
STAP1	-0.072961225	0.096516052	0.14340503	520	505
LRRC37A	-0.072967425	0.096487659	0.14337341	520	520
C17orf28	-0.072968475	0.096482853	0.14337341	520	520
FLJ33360	-0.07297645	0.096446345	0.14333314	520	415
CTXN3	-0.073026074	0.096219428	0.14300645	520	409
RSPH1	-0.0730521	0.096100591	0.14284036	520	503
AMPD3	-0.073070453	0.096016856	0.14272642	520	520
GUCA1B	-0.073086037	0.095945802	0.14264183	520	520
USH2A	-0.073097111	0.095895341	0.14257732	520	417
CLYBL	-0.073190008	0.095472831	0.14198054	520	520
OR1N2	-0.073213323	0.095367028	0.14183366	520	44
C2orf82	-0.073241023	0.095241442	0.14165733	520	404
FIG4	-0.073271642	0.095102777	0.14146152	520	520
FGF21	-0.073278946	0.095069727	0.14142279	520	204
YWHAE	-0.07333414	0.094820245	0.14107249	520	520

NXT2	-0.073346598	0.094764008	0.14099922	520	520
RRN3P3	-0.073387637	0.094578938	0.14074463	520	520
CHRNA4	-0.073487192	0.09413118	0.14013002	520	276
KRT222	-0.073528814	0.093944485	0.13986242	520	520
CSE1L	-0.073555313	0.093825776	0.13971664	520	520
IDO2	-0.073618607	0.093542725	0.13931572	520	453
RAB40B	-0.073647401	0.093414185	0.13913456	520	520
MRAP2	-0.073682125	0.093259359	0.13891421	520	512
OR51V1	-0.073710201	0.093134329	0.13874848	520	22
C1orf174	-0.073729353	0.093049115	0.138642	520	520
KRT36	-0.07375656	0.092928166	0.1384925	520	404
KNDC1	-0.073805569	0.09271062	0.13818871	520	507
TMEM107	-0.073839613	0.092559739	0.13799442	520	520
TAAR8	-0.073860201	0.092468593	0.13787695	520	16
OR10T2	-0.073898356	0.092299857	0.13765786	520	9
OR51D1	-0.073943512	0.092100486	0.13737068	520	11
SCARNA15	-0.073955556	0.092047366	0.1373016	520	15
OR6W1P	-0.074015345	0.091784038	0.1369392	520	61
EPHA6	-0.074106023	0.091385817	0.13639553	520	338
NCRNA00161	-0.074106868	0.091382114	0.13639553	520	176
SAMD7	-0.074189226	0.091021644	0.13589223	520	51
S1PR4	-0.074196069	0.090991743	0.13586771	520	520
SLC22A18AS	-0.074199018	0.09097886	0.13585853	520	520
FOXP2	-0.074220538	0.090884894	0.13572826	520	502
AKR1D1	-0.074340944	0.090360576	0.13503525	520	237
C2orf56	-0.074386322	0.090163608	0.13475315	520	520
SLC25A1	-0.074436493	0.089946235	0.13445592	520	520
ATP4A	-0.0744448131	0.089895871	0.13440056	520	237
LOC145845	-0.074514071	0.089610943	0.13400438	520	53
CSN1S2A	-0.074520094	0.08958495	0.13397545	520	3
HIST1H4I	-0.074525226	0.089562812	0.13395227	520	457
RNH1	-0.074527234	0.089554149	0.13394925	520	520
ZNF480	-0.074562834	0.089400702	0.13375389	520	520
LOC153328	-0.074566976	0.089382864	0.13374266	520	469
DRAM2	-0.074579102	0.089330654	0.13368712	520	520
C15orf24	-0.074604	0.089223528	0.1335538	520	520
MST4	-0.074713617	0.088753114	0.13289899	520	520
MOSPD1	-0.074727196	0.088694982	0.13282264	520	520
CSRP2BP	-0.074728341	0.08869008	0.13282264	520	520
ECT2	-0.074736522	0.088655071	0.13279162	520	520
RAB37	-0.074751154	0.088592488	0.1327176	520	520
CIDEA	-0.074757475	0.088565461	0.13268697	520	437
NCRNA00185	-0.074783973	0.088452241	0.13254689	520	350
TEKT4	-0.074788721	0.088431964	0.13252636	520	471
OTUD5	-0.074789818	0.088427282	0.13252636	520	520
GHRH	-0.074804804	0.088363312	0.132453	520	82

GSTM2P1	-0.074837334	0.088224592	0.13226473	520	460
LIN37	-0.07484575	0.088188727	0.1322208	520	520
IFI44	-0.074942255	0.08777835	0.13164467	520	520
PSMA8	-0.074950973	0.087741352	0.13159898	520	276
CCDC109B	-0.074974377	0.087642094	0.13145988	520	520
TBR1	-0.074976031	0.08763508	0.13145914	520	179
OR2T4	-0.074982695	0.087606836	0.13142655	520	12
ESR2	-0.075007494	0.087501797	0.13128851	520	519
MTRF1	-0.07501298	0.08747857	0.13126342	520	520
RALBP1	-0.075115013	0.087047543	0.13064583	520	520
ZNF705D	-0.075130432	0.086982558	0.13055801	520	77
RPL9	-0.07513302	0.086971653	0.13055136	520	520
KIAA0391	-0.075166318	0.086831459	0.13035062	520	520
RAB18	-0.075177281	0.08678534	0.13029109	520	520
CLEC2A	-0.075197924	0.086698558	0.13018988	520	156
SLC25A16	-0.075200062	0.08668957	0.13018608	520	520
ANKRD39	-0.075235231	0.086541893	0.12998367	520	520
PAQR7	-0.075282218	0.086344902	0.12969745	520	520
LOC100129534	-0.075306447	0.086243466	0.12955474	520	517
P2RY4	-0.075370705	0.085974907	0.12918981	520	353
PDE6A	-0.075401956	0.08584454	0.12901314	520	490
PMS2L1	-0.075426517	0.085742197	0.12886894	520	520
GAS2L2	-0.075432424	0.085717596	0.12885117	520	458
HOXB7	-0.075439882	0.085686545	0.12882273	520	519
LOC728276	-0.075441658	0.085679151	0.12882219	520	14
CDC37L1	-0.07546416	0.085585525	0.12871981	520	520
REXO1L1	-0.075494577	0.085459104	0.12853926	520	170
EDC3	-0.075529662	0.085313464	0.12833935	520	520
RAB12	-0.075562259	0.085178329	0.12816475	520	520
ZBP1	-0.075562884	0.085175741	0.12816475	520	517
OR2Y1	-0.075575629	0.085122953	0.12810055	520	17
F2	-0.075591686	0.085056485	0.12801963	520	264
SH3BGRL2	-0.075618459	0.084945751	0.12786251	520	519
ANKS3	-0.075626917	0.084910794	0.12781943	520	520
OR4D5	-0.075655386	0.084793216	0.1276615	520	30
OSBP2	-0.075689534	0.084652351	0.12746845	520	520
ROPN1B	-0.075699138	0.08461277	0.12741836	520	399
KRTAP12-1	-0.075716244	0.084542304	0.12733127	520	34
SNORA48	-0.075716912	0.084539555	0.12733127	520	107
RFPL3S	-0.075729606	0.084487296	0.12728645	520	457
JOSD2	-0.075731175	0.084480836	0.12728623	520	520
DMRTA1	-0.075736554	0.084458703	0.12726239	520	497
C1orf146	-0.075740541	0.084442297	0.12724718	520	29
EDAR	-0.075755407	0.084381156	0.12716455	520	511
RPAP3	-0.075790751	0.084235936	0.12696467	520	520
CD79A	-0.07581748	0.084126247	0.12681831	520	519

ANP32C	-0.075823416	0.084101905	0.12679109	520	519
WFDC6	-0.075870691	0.083908225	0.12651802	520	56
KRTAP10-10	-0.075894705	0.083809981	0.12637933	520	33
OR1M1	-0.075908263	0.083754558	0.12630521	520	32
OR5M8	-0.075924307	0.083689005	0.12622523	520	16
OR9Q2	-0.075927349	0.083676581	0.12621593	520	13
PROP1	-0.075936718	0.083638326	0.12616767	520	91
FASTKD2	-0.075939599	0.083626566	0.12615937	520	520
UGT1A4	-0.075946842	0.083597007	0.12612421	520	180
C10orf81	-0.075949591	0.08358579	0.12611828	520	492
CNDP2	-0.075976197	0.083477283	0.12597947	520	520
C14orf86	-0.076007108	0.083351368	0.12580067	520	140
ARR3	-0.076030434	0.08325645	0.12567623	520	75
SLC9A8	-0.076085798	0.083031511	0.12534606	520	520
C1GALT1C1	-0.076110138	0.082932778	0.12520639	520	520
MRPL42P5	-0.076113365	0.082919693	0.12519601	520	453
CEBPE	-0.076139543	0.082813622	0.12504522	520	497
CYP4Z2P	-0.076165038	0.082710424	0.1249081	520	252
MTP18	-0.076173933	0.082674442	0.12486311	520	520
B3GNT4	-0.076194734	0.082590351	0.1247548	520	520
ZNF683	-0.07624944	0.082369524	0.1244492	520	514
GLIPR1L1	-0.076253889	0.082351585	0.12443142	520	130
TMEM154	-0.076267978	0.082294799	0.12435494	520	520
1-Sep	-0.076270465	0.082284779	0.12434912	520	520
FLJ13197	-0.076288419	0.082212472	0.12426779	520	514
FAM86A	-0.076307714	0.082134818	0.12415972	520	520
TMEM95	-0.076372016	0.081876459	0.12381558	520	150
IFNE	-0.076396682	0.081777531	0.12367525	520	479
EMX1	-0.076406446	0.081738397	0.12362534	520	509
RPL39L	-0.076424919	0.081664398	0.12353195	520	520
MTF1	-0.076487491	0.081414147	0.12320886	520	520
DUSP5P	-0.076514022	0.081308231	0.12305781	520	503
HTR1A	-0.076531561	0.08123827	0.12297961	520	13
LOC493754	-0.076537861	0.081213152	0.12295082	520	520
TCEB3C	-0.076540767	0.081201569	0.12294252	520	67
PRRT4	-0.076574807	0.081065976	0.12275566	520	516
RGMA	-0.076620845	0.080882886	0.12250601	520	520
C6orf226	-0.076629892	0.080846949	0.12246078	520	520
CYP2J2	-0.076634613	0.080828198	0.12244157	520	519
LOC150568	-0.07664565	0.080784378	0.12239358	520	64
ARHGEF35	-0.076647549	0.080776841	0.12239136	520	520
JMJD8	-0.076692547	0.080598399	0.12213444	520	520
ENPP7	-0.076692645	0.080598014	0.12213444	520	216
C9orf80	-0.076715699	0.080506714	0.12203709	520	520
MARS2	-0.076723624	0.080475352	0.12199872	520	520
UOX	-0.076755848	0.080347917	0.12181469	520	156

WNT16	-0.076759188	0.080334722	0.12180384	520	483
PCGF1	-0.076759434	0.080333746	0.12180384	520	520
C6orf146	-0.076771698	0.0802853	0.12174722	520	31
TEX12	-0.076773598	0.080277795	0.121745	520	316
HSD3B7	-0.076819822	0.080095414	0.12149582	520	520
CRYZL1	-0.076840338	0.080014574	0.12138233	520	520
C8orf76	-0.076893669	0.079804742	0.12108223	520	520
OR5D13	-0.076935619	0.079640003	0.12084137	520	6
OR8K5	-0.076966622	0.079518431	0.12068415	520	7
UBAC2	-0.076968774	0.079509998	0.12068044	520	520
MIA2	-0.077024994	0.079289945	0.12037362	520	148
GAL3ST2	-0.077030668	0.079267763	0.12035807	520	394
RPL29P2	-0.077057436	0.079163183	0.12021738	520	255
KCNRG	-0.077064379	0.079136076	0.12019432	520	518
AQP6	-0.077103332	0.078984137	0.11998163	520	481
HKDC1	-0.077112753	0.078947428	0.1199349	520	517
SYCP1	-0.077120411	0.078917594	0.11989861	520	107
OR1L6	-0.077153776	0.078787731	0.11971935	520	11
RNF220	-0.077154538	0.078784767	0.11971935	520	520
ZDHHC14	-0.077159435	0.078765719	0.11970524	520	520
C8orf77	-0.077169194	0.078727776	0.11966432	520	501
KCTD13	-0.077215981	0.078546072	0.11941514	520	520
CTBP2	-0.077314225	0.078165637	0.11889951	520	520
ACTL7A	-0.077341667	0.078059641	0.11875619	520	72
TRIM65	-0.077342034	0.078058222	0.11875619	520	520
SPANXN5	-0.077372629	0.077940183	0.1186013	520	125
ASMT	-0.077402037	0.077826864	0.1184378	520	359
GMPS	-0.077411942	0.077788725	0.1183887	520	520
EIF4E2	-0.077420551	0.077755592	0.11835545	520	520
KIAA1239	-0.077425909	0.077734973	0.11833369	520	462
SLC22A14	-0.077466239	0.077579931	0.11810659	520	404
KCTD19	-0.077506315	0.077426116	0.11788132	520	385
BLM	-0.077541275	0.077292138	0.11768622	520	520
CXorf30	-0.077552798	0.077248018	0.11762793	520	258
RBM15	-0.077556034	0.077235633	0.11761795	520	520
BTG1	-0.077602611	0.077057532	0.11738219	520	520
SLC10A4	-0.077611219	0.077024656	0.11734098	520	477
OR5T1	-0.0776165	0.077004488	0.11731912	520	8
IL29	-0.077659123	0.076841895	0.11708025	520	398
DDX58	-0.077689849	0.076724855	0.11691959	520	520
FAM72A	-0.077706854	0.076660144	0.1168298	520	519
C1orf103	-0.077779579	0.076383891	0.1164528	520	520
MUC6	-0.077802029	0.076298775	0.11633183	520	456
LOC100131551	-0.077833037	0.076181342	0.11617035	520	508
STX17	-0.077851869	0.076110094	0.11607926	520	520
SRCAP	-0.077855165	0.076097629	0.11606903	520	520

OR4C46	-0.077866321	0.076055454	0.11601348	520	11
ANXA10	-0.077958451	0.075707873	0.1155095	520	396
FUT9	-0.077989448	0.07559122	0.11534898	520	234
ODF2L	-0.078005694	0.07553014	0.11526449	520	520
RUNDC3A	-0.078046872	0.075375501	0.11503721	520	520
RAB11FIP4	-0.078048141	0.075370742	0.11503721	520	520
C22orf15	-0.07804937	0.075366131	0.11503721	520	407
PSMD10	-0.078127915	0.07507191	0.11463461	520	520
COX6B2	-0.078156083	0.074966623	0.1144825	520	520
MFSD8	-0.078172358	0.074905847	0.11439836	520	520
ACSM1	-0.078183638	0.074863745	0.11434272	520	485
S100G	-0.078199374	0.074805047	0.11426172	520	4
LOC399744	-0.078227615	0.074699795	0.11411824	520	520
SYBU	-0.078268398	0.074548011	0.11390362	520	520
LOC348840	-0.078306978	0.074404659	0.11371906	520	276
CDC42	-0.078311867	0.074386505	0.11369993	520	520
ISG15	-0.078323313	0.074344028	0.11364362	520	520
SLC10A2	-0.078344052	0.074267111	0.11355187	520	95
ZNF440	-0.078366075	0.074185503	0.11343569	520	520
RFT1	-0.0783943	0.074081022	0.11330171	520	520
TOPBP1	-0.07840788	0.074030793	0.11324207	520	520
ADARB2	-0.078414834	0.074005086	0.11321133	520	459
C1orf64	-0.078441708	0.073905796	0.11308518	520	247
IHH	-0.078441749	0.073905647	0.11308518	520	358
NCRNA00157	-0.078457169	0.073848727	0.11301501	520	59
BPHL	-0.07848923	0.073730492	0.11284263	520	520
MGC16025	-0.0785003	0.073689703	0.11280009	520	408
HOXD9	-0.078509257	0.073656713	0.11276395	520	520
NCOA5	-0.078519264	0.073619873	0.11271611	520	520
KEL	-0.078528723	0.07358506	0.11269546	520	462
STOM	-0.07857369	0.07341976	0.11246096	520	520
RABGEF1	-0.078577298	0.073406508	0.1124492	520	520
RMRP	-0.078581643	0.073390554	0.1124333	520	519
C3orf71	-0.078583031	0.07338546	0.1124333	520	520
PYY2	-0.078587865	0.073367714	0.11241539	520	509
C2orf57	-0.078593576	0.073346754	0.11239182	520	58
RNU11	-0.078609427	0.073288605	0.11233686	520	73
SNORA20	-0.078625275	0.073230501	0.11225754	520	37
GPRC5A	-0.078635799	0.073191941	0.11223525	520	520
SNORA5A	-0.078662079	0.073095717	0.11210085	520	52
LOC644165	-0.078676743	0.073042069	0.1120271	520	494
LOC285740	-0.078685795	0.07300897	0.11198485	520	142
ASTL	-0.078702034	0.072949621	0.11190233	520	452
UNC50	-0.078714181	0.072905252	0.11184278	520	520
LOC152024	-0.078724745	0.072866684	0.11179591	520	347
CFLAR	-0.078728144	0.072854277	0.1117901	520	520

SLC44A3	-0.078735721	0.072826629	0.11176468	520	520
HIST1H2BC	-0.078751845	0.07276782	0.11169993	520	520
FOXN4	-0.078755182	0.072755657	0.11168977	520	138
RPL21P44	-0.078792299	0.072620444	0.11149068	520	460
SLC22A8	-0.078812274	0.072547764	0.11138758	520	93
EIF3G	-0.078812297	0.072547682	0.11138758	520	520
C17orf81	-0.078851003	0.072407016	0.11120535	520	520
HSD11B1L	-0.078943151	0.072073027	0.1107177	520	520
FAM92A3	-0.078951902	0.072041376	0.11068594	520	69
BCL11B	-0.078975023	0.071957803	0.11056596	520	520
RAD54B	-0.078999687	0.071868738	0.11044594	520	520
G6PD	-0.079018054	0.071802471	0.11035252	520	520
PARP6	-0.079036783	0.071734948	0.11025715	520	520
OR52N4	-0.079043733	0.071709909	0.11022706	520	271
NKIRAS2	-0.07905854	0.071656577	0.11016188	520	520
RPS28	-0.079060104	0.071650947	0.11016162	520	519
PTPRCAP	-0.079063992	0.071636949	0.11014926	520	520
PRPF6	-0.079079429	0.071581397	0.11007987	520	520
ACTR3C	-0.079088432	0.071549018	0.11004686	520	520
KLRC3	-0.079097551	0.071516229	0.11001322	520	447
GFM1	-0.079158888	0.071296013	0.10969957	520	520
LOC392196	-0.079185683	0.071199985	0.10956853	520	86
TOR3A	-0.079192786	0.071174547	0.10954611	520	520
LOC595101	-0.07919695	0.071159639	0.10953989	520	519
OR2T11	-0.079201853	0.071142088	0.10952123	520	16
NOP14	-0.079259067	0.070937536	0.10921467	520	520
MSH2	-0.079264618	0.070917715	0.10919433	520	520
SH3BGRL3	-0.07926629	0.070911747	0.10919433	520	520
C16orf3	-0.079277925	0.070870219	0.1091562	520	379
C17orf93	-0.079308874	0.070759858	0.1090077	520	227
COMMD8	-0.079317738	0.070728274	0.10897569	520	520
FAR1	-0.079323809	0.070706651	0.1089507	520	520
UNC13D	-0.079326158	0.070698283	0.10894614	520	520
PSMD7	-0.079328906	0.070688498	0.10893938	520	520
ADAMTSL5	-0.079330112	0.070684206	0.10893938	520	520
XKR9	-0.079340035	0.07064888	0.10889497	520	517
MAP2K5	-0.079352596	0.070604187	0.1088344	520	520
GPR108	-0.07936739	0.070551576	0.10876162	520	520
SNORA21	-0.079367465	0.07055131	0.10876162	520	67
SNORD1C	-0.079438044	0.070300759	0.10840812	520	519
ZNF79	-0.079440051	0.070293645	0.10840543	520	520
NADK	-0.079441054	0.07029009	0.10840543	520	520
TSGA13	-0.079444234	0.070278821	0.10840543	520	58
DEPDC1	-0.07946455	0.070206851	0.10830472	520	520
TMEM102	-0.07947002	0.070187487	0.10828313	520	520
LOC100133612	-0.079476785	0.070163542	0.10825447	520	504

ZMIZ2	-0.079570575	0.06983225	0.10776806	520	520
OR10G8	-0.079586263	0.069776962	0.10769922	520	4
LRGUK	-0.079596622	0.069740474	0.10765115	520	480
CATSPER4	-0.079645339	0.069569083	0.10740303	520	82
TAS2R7	-0.079683899	0.06943367	0.10720218	520	10
C11orf86	-0.079754352	0.069186816	0.10687015	520	284
TLE3	-0.079754515	0.069186246	0.10687015	520	520
POM121L2	-0.079791483	0.069057005	0.10668598	520	181
VPS16	-0.07979681	0.069038396	0.10666541	520	520
SPZ1	-0.079798177	0.069033623	0.10666541	520	102
GPRC5D	-0.079817533	0.06896605	0.10656996	520	515
MAGI3	-0.079820963	0.068954084	0.10655964	520	520
SMAD3	-0.079848149	0.068859282	0.10642945	520	520
TDP1	-0.079884137	0.068733954	0.10626832	520	520
OR2G2	-0.079894718	0.068697139	0.10621955	520	22
SCARNA7	-0.079894842	0.068696709	0.10621955	520	330
DUSP5	-0.07989565	0.068693897	0.10621955	520	520
ITGB7	-0.079910073	0.068643745	0.10616141	520	520
C2orf53	-0.079930478	0.068572842	0.10605989	520	84
ARHGAP33	-0.079972033	0.068428636	0.10586933	520	520
LOC340357	-0.08000733	0.06830634	0.10571257	520	34
UFSP1	-0.080132447	0.067874289	0.10507617	520	520
FAM123C	-0.080141427	0.067843365	0.10504337	520	178
FASTKD3	-0.080177047	0.067720817	0.10487079	520	520
AHDC1	-0.080231827	0.067532708	0.10458752	520	520
MYNN	-0.080240368	0.067503414	0.10455018	520	520
KRTAP5-4	-0.080243334	0.067493248	0.10454247	520	135
RPS6KB1	-0.080293587	0.067321142	0.10430794	520	520
PNPLA1	-0.080300799	0.067296471	0.10427773	520	508
COG7	-0.080363292	0.067083016	0.10397893	520	520
SUCLA2	-0.080379129	0.067029008	0.10390321	520	520
CDY2B	-0.080401247	0.066953641	0.10379436	520	32
DDX5	-0.080420821	0.066887004	0.10369903	520	520
HTATIP2	-0.080439329	0.066824044	0.10361735	520	520
C1orf194	-0.08046012	0.066753378	0.10353962	520	168
RIPK1	-0.080529632	0.066517552	0.10319142	520	520
DNAJC2	-0.080535637	0.066497214	0.10317404	520	520
HMGB3L1	-0.080591881	0.066306953	0.10290259	520	283
LOC338651	-0.080607032	0.066255774	0.10283108	520	425
ENO1	-0.080610851	0.06624288	0.1028269	520	520
C15orf2	-0.08062558	0.066193171	0.10275765	520	97
FOXD4L3	-0.080666095	0.066056586	0.10255351	520	196
LSG1	-0.080682146	0.066002538	0.10248538	520	520
GLUL	-0.080778187	0.065679909	0.1020237	520	520
OR12D3	-0.080820834	0.06553706	0.1018175	520	28
OR56B1	-0.080827688	0.065514127	0.10178971	520	95

WDR37	-0.080861007	0.065402732	0.10162447	520	520
OR10C1	-0.080874897	0.065356341	0.10156021	520	14
ATP6V0D1	-0.080903258	0.065261701	0.10142096	520	520
NR0B2	-0.080910528	0.065237461	0.1013911	520	215
PAICS	-0.080919944	0.065206073	0.10135013	520	520
PANK1	-0.080930914	0.065169522	0.10130113	520	520
CYP51A1	-0.08093523	0.065155147	0.10128659	520	520
CRX	-0.080937978	0.065145994	0.10128017	520	175
OR5D16	-0.080967327	0.065048321	0.10114392	520	5
OR51S1	-0.080975223	0.065022063	0.10111089	520	5
TRIM42	-0.081037648	0.064814777	0.10081188	520	46
LOC100287227	-0.081063557	0.064728905	0.10068608	520	515
NEUROD2	-0.081107172	0.064584561	0.10048481	520	256
UGT1A3	-0.081113644	0.064563163	0.10045927	520	216
FUT5	-0.081233055	0.064169431	0.09989288	520	331
SLC25A18	-0.081233573	0.06416773	0.09989288	520	520
LOC100128573	-0.081259333	0.064083052	0.09977381	520	337
FBXO44	-0.0812705	0.064046375	0.09972441	520	520
BZRAP1	-0.081300487	0.063947966	0.09957887	520	519
PLSCR1	-0.081383536	0.063676072	0.09919378	520	520
KIR2DS4	-0.081402537	0.063613997	0.0991124	520	364
UNC13C	-0.081416368	0.063568846	0.0990497	520	262
TAS2R4	-0.081525532	0.063213399	0.09852632	520	376
NCF1B	-0.081528457	0.063203898	0.09851913	520	520
KLRC2	-0.081556558	0.063112675	0.09839975	520	495
DNA2	-0.081602818	0.062962739	0.09817759	520	520
VGFB	-0.081624251	0.062893373	0.09808817	520	511
PRR23C	-0.081652996	0.062800438	0.09795838	520	60
FAM92B	-0.081669585	0.062746858	0.09788238	520	402
C12orf41	-0.081679858	0.062713695	0.09784579	520	520
AIMP2	-0.081691748	0.062675333	0.0977935	520	520
KPRP	-0.081725993	0.062564947	0.09763637	520	507
C10orf75	-0.081746553	0.062498749	0.09754817	520	520
AXIN1	-0.081764012	0.062442581	0.09747559	520	520
ALPL2	-0.081788897	0.062362598	0.09735827	520	307
OR5AC2	-0.081795007	0.062342973	0.09733517	520	10
PRO0628	-0.081796093	0.062339484	0.09733517	520	295
CLDN25	-0.081898378	0.062011708	0.09684796	520	35
TMEM168	-0.08194127	0.061874684	0.09664894	520	520
EIF3F	-0.081956796	0.061825146	0.09657904	520	520
FASLG	-0.081992231	0.061712207	0.09641755	520	510
DEFB126	-0.08200666	0.061666268	0.09635325	520	246
SULT1E1	-0.082032535	0.061583955	0.09623955	520	483
FAM194B	-0.082074833	0.061449599	0.09605936	520	11
FAM150B	-0.082089661	0.061402553	0.09599326	520	456
BCAN	-0.082095543	0.0613839	0.09597898	520	507

GPR128	-0.082184682	0.061101792	0.09556011	520	282
CARKD	-0.082233015	0.060949276	0.09533637	520	520
C14orf104	-0.082257706	0.060871486	0.09522208	520	520
CHCHD2	-0.082265079	0.060848273	0.09519315	520	520
ACOT4	-0.082271859	0.060826932	0.09516715	520	520
EXOSC6	-0.08229816	0.060744208	0.09505248	520	520
KRT25	-0.082302729	0.060729848	0.09504476	520	97
FCRL4	-0.082341054	0.060609496	0.09487113	520	381
NANOG	-0.082345236	0.060596372	0.09485795	520	324
MT1H	-0.082355753	0.060563388	0.09481368	520	513
DLGAP1	-0.082394635	0.060441562	0.09463765	520	479
CDKL4	-0.082404428	0.060410914	0.09459701	520	212
GLA	-0.082409287	0.060395709	0.09458054	520	520
LOC100270804	-0.082413834	0.060381485	0.09456561	520	518
JMJD4	-0.082417878	0.060368835	0.09455315	520	520
DDC	-0.082484827	0.060159755	0.09423299	520	336
TCTE1	-0.082550612	0.059954897	0.0939194	520	286
HNRNPK	-0.08256156	0.059920859	0.09387337	520	520
DRG1	-0.08257065	0.05989261	0.09383641	520	520
WSB1	-0.082683591	0.059542548	0.0933097	520	520
SNHG5	-0.0826941	0.059510063	0.09326604	520	520
MAEA	-0.082716296	0.059441496	0.09316582	520	520
C21orf131	-0.082716491	0.059440893	0.09316582	520	34
C1orf43	-0.082783193	0.059235235	0.09287142	520	520
LARP1B	-0.082792772	0.05920575	0.09283241	520	520
IDH3G	-0.082797636	0.059190782	0.09281615	520	520
GABPB2	-0.082799601	0.059184738	0.09281389	520	520
POTEB	-0.082810347	0.059151684	0.09276927	520	30
ATF3	-0.082825757	0.059104311	0.09270219	520	520
AKR1C3	-0.082869931	0.058968684	0.09250386	520	520
LOC100129387	-0.082886823	0.05891689	0.0924298	520	520
SPPL2B	-0.082893114	0.058897612	0.09241393	520	520
HELQ	-0.082902531	0.058868762	0.09238304	520	520
ZNF10	-0.082912143	0.058839324	0.09234613	520	520
PFKL	-0.082978232	0.058637266	0.09204841	520	520
CCL20	-0.083030917	0.058476598	0.09181764	520	520
ZNF814	-0.08306678	0.058367439	0.09166766	520	520
FPGS	-0.083072642	0.058349613	0.0916468	520	520
UFSP2	-0.083174915	0.058039322	0.09119496	520	520
RIN1	-0.083179943	0.058024103	0.09117815	520	520
MARK2	-0.083181929	0.058018092	0.09117581	520	520
BPIL1	-0.083183167	0.058014347	0.09117581	520	245
UTP6	-0.083210508	0.057931659	0.09106127	520	520
HOXA9	-0.083228525	0.05787722	0.09098279	520	513
KIAA0125	-0.083255776	0.057794965	0.09086765	520	501
IRF7	-0.083346849	0.057520768	0.09047182	520	520

PSMD8	-0.083394821	0.057376772	0.09026646	520	520
IGBP1	-0.083415825	0.05731382	0.09017446	520	520
POLG2	-0.083475374	0.05713565	0.08991518	520	520
ZWILCH	-0.083782013	0.056225453	0.08854499	520	520
CRYGA	-0.083800572	0.056170754	0.08847267	520	7
VENTXP7	-0.083819175	0.056115967	0.08839544	520	98
RAF1	-0.083820137	0.056113135	0.08839544	520	520
SKIV2L2	-0.083833965	0.056072442	0.08834542	520	520
PTPRZ1	-0.083874296	0.055953896	0.0881931	520	520
NAE1	-0.083875677	0.055949841	0.0881931	520	520
SCML2	-0.083892328	0.055900964	0.08813034	520	518
C12orf40	-0.083894407	0.055894861	0.08812761	520	113
MLF1	-0.083946208	0.055743042	0.08790886	520	520
LCE3E	-0.083991369	0.05561096	0.08772801	520	504
CXorf66	-0.084001907	0.055580178	0.08768631	520	10
SNAR-G1	-0.08402712	0.055506588	0.08759762	520	20
EFHD2	-0.084057492	0.055418044	0.08747843	520	520
ARHGEF33	-0.084158007	0.05512585	0.08705127	520	499
H2AFV	-0.084181847	0.055056739	0.08694894	520	520
GFM2	-0.084188347	0.055037906	0.08692601	520	520
STK40	-0.084211253	0.054971586	0.08684847	520	520
CNDP1	-0.084224173	0.05493421	0.08679622	520	285
OR4D9	-0.084237795	0.054894824	0.08674759	520	56
SENP5	-0.084243557	0.054878172	0.08672807	520	520
KRTAP5-3	-0.084262125	0.054824536	0.08665689	520	86
KCTD15	-0.084291594	0.054739503	0.08652927	520	520
PLK4	-0.084312634	0.054678859	0.08644696	520	520
ASRGL1	-0.084362444	0.054535511	0.08623385	520	520
PRR15	-0.084390269	0.054455573	0.08612095	520	517
AGXT	-0.084413567	0.054388711	0.08602196	520	182
AATF	-0.084416672	0.054379807	0.08601462	520	520
NCRNA00086	-0.084464142	0.054243809	0.08582971	520	518
VRK2	-0.084465571	0.05423972	0.08582971	520	520
LOC284009	-0.084467726	0.054233552	0.08582971	520	305
SCML1	-0.084475655	0.054210868	0.08580125	520	520
SUMO1P3	-0.084485465	0.054182813	0.08576358	520	520
TMEM165	-0.084498548	0.054145416	0.08571111	520	520
NHLRC1	-0.084535302	0.054040472	0.08555171	520	520
LRRC31	-0.084539464	0.0540286	0.08553963	520	148
SPSB2	-0.084565567	0.053954185	0.08542852	520	520
PRM2	-0.08460289	0.05384793	0.08527367	520	28
ARMC10	-0.084607832	0.053833875	0.08525811	520	520
PARK7	-0.084619589	0.053800448	0.08521186	520	520
STIL	-0.084643215	0.053733325	0.08512561	520	520
TUBGCP2	-0.084662395	0.053678886	0.08504605	520	520
OR5M9	-0.084667404	0.053664677	0.08503022	520	7

HIST2H4A	-0.084669779	0.053657942	0.08502813	520	520
ELAVL1	-0.084677134	0.053637084	0.0850199	520	520
TMC4	-0.084678079	0.053634406	0.0850199	520	520
ZP3	-0.084689784	0.053601228	0.08498311	520	520
C17orf99	-0.084703701	0.053561804	0.08495282	520	512
SNORA38B	-0.084707242	0.053551778	0.08494478	520	10
TRMT61A	-0.08474582	0.053442637	0.08479834	520	520
KIAA1683	-0.084793757	0.053307275	0.08459022	520	518
CLRN2	-0.084798397	0.05329419	0.08457611	520	10
LOC619207	-0.084809892	0.05326178	0.08453133	520	516
TFDP1	-0.084829495	0.053206549	0.08445032	520	520
FSCB	-0.084854433	0.053136353	0.08435882	520	54
MGC26647	-0.084879834	0.053064936	0.08425871	520	13
C10orf47	-0.084888477	0.053040653	0.08423342	520	520
AARS2	-0.084889847	0.053036806	0.08423342	520	520
FCRL1	-0.084895471	0.053021011	0.08421549	520	392
SDHAP3	-0.084895709	0.053020342	0.08421549	520	520
SLC9A3	-0.084938337	0.052900751	0.08403772	520	516
APOBEC3B	-0.084986382	0.052766234	0.08384384	520	520
KRT82	-0.085002588	0.052720923	0.08377844	520	429
TSPAN19	-0.085002773	0.052720405	0.08377844	520	185
CHMP1A	-0.08500808	0.052705575	0.08376726	520	520
TMEM50B	-0.085009338	0.05270206	0.08376726	520	520
C1orf115	-0.08506755	0.052539623	0.08352448	520	520
OR8D2	-0.085083509	0.052495165	0.08346574	520	12
CSTL1	-0.085134924	0.052352143	0.08325803	520	318
TUT1	-0.085142635	0.052330721	0.08323053	520	520
SCGB1C1	-0.085165322	0.052267735	0.08314347	520	51
POLD4	-0.085176417	0.052236957	0.08310107	520	520
SFT2D1	-0.085188798	0.052202629	0.08305301	520	520
MOV10	-0.085193277	0.052190213	0.08303981	520	520
MAP7D2	-0.085210795	0.052141683	0.08297568	520	505
CCDC14	-0.085265493	0.051990394	0.08275452	520	520
IRF1	-0.085266187	0.051988479	0.08275452	520	520
SEPT7L	-0.085332009	0.051806915	0.08248852	520	220
APOL2	-0.085361724	0.051725121	0.08236479	520	520
WDR45	-0.085411463	0.051588451	0.08216663	520	520
ELOVL1	-0.085450502	0.051481394	0.08200907	520	520
LOC201651	-0.085497368	0.051353116	0.08182412	520	489
CNGB3	-0.085514438	0.05130646	0.0817627	520	452
LOC389458	-0.08554146	0.051232674	0.08166448	520	506
C14orf153	-0.085580103	0.051127311	0.08152231	520	520
CYTH1	-0.085582984	0.051119465	0.08151624	520	520
PGLYRP2	-0.085584975	0.051114042	0.08151404	520	425
SCRN3	-0.085591419	0.051096492	0.0814925	520	520
EP400NL	-0.085601833	0.051068143	0.0814556	520	520

C16orf48	-0.085621405	0.051014902	0.081401	520	520
MRGPRX2	-0.085654214	0.05092575	0.08127633	520	288
CHODL	-0.085706286	0.050784526	0.08107832	520	515
CAPN9	-0.085745272	0.050679007	0.08091626	520	361
PNKP	-0.085764691	0.050626515	0.08083885	520	520
SNHG4	-0.085816791	0.05048591	0.08062711	520	508
KIF24	-0.085828122	0.050455372	0.08058472	520	520
RANBP9	-0.085893071	0.050280636	0.08032473	520	520
OR5K4	-0.085915095	0.050221497	0.08023661	520	10
KLK14	-0.085930157	0.050181088	0.08019111	520	514
C10orf40	-0.085976081	0.050058043	0.08001351	520	32
SULT1C3	-0.086007838	0.049973106	0.07988407	520	54
FEZF1	-0.086092409	0.049747495	0.07953604	520	316
12-Sep	-0.086115333	0.049686489	0.0794511	520	153
C3orf75	-0.086135371	0.049633212	0.0793785	520	520
PWRN1	-0.086152365	0.049588068	0.07931259	520	54
SLC7A14	-0.086184984	0.049501511	0.07919299	520	193
PARP16	-0.08618836	0.049492559	0.07918495	520	520
MORN5	-0.086202088	0.049456175	0.07913302	520	162
ENGASE	-0.086280388	0.049249076	0.07881416	520	520
C9orf131	-0.086305521	0.049182755	0.07872052	520	449
HNRNPU	-0.086323694	0.049134844	0.07865008	520	520
CA11	-0.086454225	0.048791878	0.07813831	520	520
KLF1	-0.086458617	0.048780371	0.07812608	520	460
PPP1CB	-0.086484466	0.048712707	0.07802391	520	520
KRT6B	-0.086505271	0.0486583	0.07794915	520	520
PNMA3	-0.086515688	0.04863108	0.07791793	520	502
FCGBP	-0.086526101	0.048603881	0.07788054	520	520
FOXD4L5	-0.08665385	0.048271243	0.07736598	520	111
SAE1	-0.086697833	0.04815716	0.07718927	520	520
TMC6	-0.086708202	0.048130297	0.07715234	520	520
C14orf128	-0.086716975	0.04810758	0.07712206	520	520
CYP26C1	-0.086731451	0.048070115	0.07708038	520	250
PYDC1	-0.086780486	0.047943388	0.07688329	520	291
C18orf25	-0.086805876	0.047877878	0.07680878	520	520
GSTO2	-0.086854103	0.047753656	0.07661559	520	520
C3orf30	-0.086929713	0.047559442	0.07632221	520	151
RNF138	-0.086956412	0.047491018	0.07622454	520	520
ZFP36	-0.086973588	0.047447048	0.07616609	520	520
HELLS	-0.086987298	0.047411971	0.07611584	520	520
TRPM5	-0.087018389	0.047332509	0.07600037	520	307
FLYWCH1	-0.087050234	0.047251237	0.07588196	520	520
GGTLC1	-0.087074236	0.047190057	0.07579447	520	474
UCK2	-0.087082064	0.047170119	0.0757698	520	520
TIGD2	-0.087120535	0.047072234	0.07563064	520	520
ZNF157	-0.087129756	0.047048796	0.07559901	520	347

CUTC	-0.08715492	0.046984887	0.07550835	520	520
FN3K	-0.087158127	0.046976747	0.07550129	520	520
LCE3D	-0.087176771	0.046929453	0.07543129	520	515
E2F6	-0.087228577	0.04679824	0.07524438	520	520
PPARD	-0.08723743	0.04677585	0.07521437	520	520
HIST1H2AE	-0.087259018	0.046721286	0.07514072	520	519
EML6	-0.087262873	0.046711546	0.07513494	520	520
TCF15	-0.087274905	0.046681163	0.07511004	520	497
C17orf96	-0.087275945	0.046678538	0.07511004	520	520
PHACTR4	-0.0872921	0.046637773	0.0750522	520	520
FAM89A	-0.087334204	0.046531666	0.0748934	520	520
ITGAE	-0.087349925	0.046492101	0.07484764	520	520
TTC12	-0.087395685	0.046377095	0.07467442	520	520
SCRT1	-0.087425865	0.046301374	0.0745644	520	250
BLCAP	-0.087447132	0.046248079	0.07449048	520	520
TUBB2A	-0.087452949	0.046233512	0.07447296	520	520
ELAC1	-0.087460632	0.046214274	0.07445387	520	520
LOC340074	-0.087469338	0.046192485	0.07442471	520	177
LOC100144603	-0.08749493	0.046128486	0.07432754	520	520
WBP2	-0.087514277	0.046080151	0.07426152	520	520
RAB9BP1	-0.087540884	0.04601375	0.07416848	520	9
ATOX1	-0.087571143	0.045938331	0.07405664	520	520
SERPINC1	-0.087575897	0.045926493	0.07404348	520	461
LOC646471	-0.087599166	0.04586858	0.07395603	520	518
DNAJC30	-0.087605849	0.045851957	0.07393513	520	520
FOSB	-0.087639501	0.045768338	0.07381801	520	520
EXOSC10	-0.087642226	0.045761572	0.073813	520	520
MAPK15	-0.087652449	0.045736198	0.07377798	520	515
C2orf66	-0.087677949	0.045672957	0.07368186	520	432
NPHS1	-0.087720492	0.045567612	0.07351779	520	273
CCDC6	-0.087740538	0.045518045	0.0734437	520	520
METTL13	-0.087765682	0.045455937	0.07336109	520	520
USP30	-0.087783894	0.045410994	0.07329443	520	520
SLC25A37	-0.087787535	0.045402015	0.07329	520	520
IRF9	-0.087799459	0.045372616	0.07326181	520	520
NXNL1	-0.087802568	0.045364953	0.0732553	520	68
CLINT1	-0.087806884	0.045354316	0.07324399	520	520
ANKRD5	-0.087857843	0.045228896	0.07307656	520	520
AKR1C4	-0.087860324	0.045222796	0.07307256	520	141
SILV	-0.087891582	0.045146018	0.07296604	520	520
KLHDC3	-0.087895639	0.045136061	0.07296164	520	520
TMEM164	-0.087930236	0.045051223	0.07283034	520	520
MRPS28	-0.087961502	0.04497467	0.07271825	520	520
RNFT2	-0.087984832	0.044917619	0.07263183	520	520
OPA3	-0.088026561	0.044815724	0.07247287	520	520
TAS2R60	-0.088030664	0.044805718	0.0724625	520	281

PARP12	-0.088044394	0.044772241	0.07241417	520	520
MEI1	-0.08808858	0.044664649	0.07224595	520	519
LOC283761	-0.088116918	0.044595759	0.07215188	520	271
ABCC13	-0.088142702	0.044533158	0.07206216	520	174
MRPL3	-0.088208186	0.0443745	0.07183425	520	520
SNORA24	-0.088253289	0.044265499	0.0716693	520	83
MPL	-0.088266196	0.044234347	0.07162462	520	519
ADCK4	-0.088268645	0.044228439	0.0716208	520	520
TRIOBP	-0.088278397	0.044204916	0.07158846	520	520
VPS33A	-0.088321868	0.044100193	0.07143034	520	520
LYPLA2P1	-0.088322993	0.044097487	0.07143034	520	520
KRTAP10-9	-0.088344284	0.044046273	0.0713602	520	19
RNPEP	-0.08837289	0.043977546	0.07126603	520	520
CXCL1	-0.088391672	0.043932471	0.07120443	520	520
MTHFS	-0.088435968	0.043826316	0.07106094	520	520
G6PC	-0.088440129	0.043816354	0.0710505	520	140
MYBPC3	-0.088448734	0.043795763	0.07102282	520	494
HIST3H2A	-0.088509418	0.043650769	0.07080994	520	519
CASKIN1	-0.088510163	0.043648991	0.07080994	520	497
PRPF4B	-0.088518261	0.043629675	0.07078764	520	520
PET112L	-0.088541174	0.043575056	0.07071609	520	520
C2orf60	-0.08855481	0.043542579	0.07066907	520	520
ZNF780A	-0.088575842	0.043492526	0.0705992	520	520
CYP2A6	-0.088635952	0.043349742	0.0703901	520	228
RBM23	-0.088643399	0.04333208	0.07036748	520	520
BCL6	-0.088655252	0.04330398	0.07033278	520	520
CCDC79	-0.088678282	0.043249429	0.07024984	520	85
KRTAP5-6	-0.088713511	0.043166092	0.07012577	520	86
PRSS37	-0.08871654	0.043158934	0.07011979	520	133
FTSJ3	-0.088759747	0.043056923	0.06995969	520	520
BAIAP2L1	-0.088769253	0.043034507	0.06992891	520	520
EPN1	-0.088779177	0.043011116	0.06990216	520	520
YARS	-0.08879224	0.042980344	0.06985778	520	520
DLX6	-0.088796833	0.042969528	0.06984583	520	514
OR6V1	-0.088830608	0.042890065	0.06972791	520	19
OR4C3	-0.088840778	0.042866162	0.06969467	520	21
TRIM35	-0.088862849	0.042814326	0.06962162	520	520
NPPC	-0.088863709	0.042812309	0.06962162	520	289
EHMT2	-0.088876973	0.042781182	0.06958456	520	520
RLTPR	-0.088879767	0.042774628	0.06957951	520	520
SNF8	-0.08888734	0.042756869	0.06955623	520	520
OR4K5	-0.088897664	0.042732668	0.06953369	520	12
LOC100240735	-0.088907568	0.042709462	0.06950154	520	407
FIZ1	-0.088923464	0.042672239	0.06945218	520	520
VPREB3	-0.088980625	0.042538613	0.06924587	520	501
DSCC1	-0.08903052	0.042422259	0.06906204	520	520

PCDH1	-0.089032967	0.042416561	0.06905834	520	520
C17orf73	-0.089059804	0.042354096	0.06897335	520	46
ALOX15B	-0.089086379	0.042292319	0.06887831	520	519
LOC100134713	-0.089111851	0.042233177	0.0687931	520	520
DGCR10	-0.089127331	0.042197267	0.06874016	520	335
PSKH2	-0.089137008	0.042174833	0.06872027	520	41
BTBD11	-0.089229187	0.041961638	0.06839499	520	520
PBOV1	-0.089257244	0.041896928	0.06830056	520	41
TDG	-0.089348059	0.04168805	0.06798203	520	520
PLA2G10	-0.08936927	0.041639391	0.06790818	520	469
MGC29506	-0.089384292	0.041604959	0.06785751	520	519
PREB	-0.089403335	0.041561344	0.06779734	520	520
FAM169B	-0.089424745	0.041512353	0.06772838	520	121
C12orf50	-0.089431441	0.041497044	0.06771391	520	197
DHDPSL	-0.089434189	0.04149076	0.06770959	520	512
C9orf167	-0.089479893	0.041386391	0.06756114	520	520
SMPDL3A	-0.089484553	0.041375763	0.06754926	520	520
MYC	-0.089485301	0.041374057	0.06754926	520	520
SULT1A1	-0.089490889	0.041361314	0.06753661	520	520
SGSM2	-0.089550614	0.041225332	0.06734183	520	520
C22orf43	-0.089600946	0.041111027	0.06716056	520	337
METTL6	-0.089628167	0.04104932	0.06706518	520	520
HINT2	-0.089712096	0.040859555	0.06677138	520	520
HHLA3	-0.089743821	0.040788017	0.06666528	520	520
PRSS45	-0.089825648	0.04060399	0.06640756	520	180
PSMB9	-0.089827787	0.040599189	0.0664051	520	520
DTL	-0.089828184	0.040598299	0.0664051	520	520
PPP1R16A	-0.089846836	0.040556454	0.06634596	520	520
FOLR4	-0.089868233	0.040508497	0.06627289	520	96
MTHFSD	-0.089892907	0.040453253	0.06618788	520	520
SYNGR1	-0.089926742	0.040377603	0.06606946	520	520
LOC147727	-0.089929131	0.040372266	0.06606609	520	520
BUB1B	-0.089974922	0.040270085	0.06592028	520	520
ANKS6	-0.089977549	0.040264231	0.06591605	520	520
ANKS4B	-0.089981634	0.040255127	0.06590649	520	240
SCARNA16	-0.089996163	0.040222762	0.0658642	520	282
ZNF207	-0.090017218	0.0401759	0.06579815	520	520
BAD	-0.090023684	0.040161517	0.06577994	520	520
FANK1	-0.090041969	0.040120869	0.06572404	520	520
OR8B3	-0.090070912	0.040056599	0.06562942	520	6
LOC400027	-0.090100071	0.039991938	0.0655288	520	520
ZSWIM1	-0.090145393	0.039891609	0.06537503	520	520
OXA1L	-0.090145722	0.039890881	0.06537503	520	520
SAAL1	-0.090149381	0.039882792	0.06537121	520	520
C10orf91	-0.090178496	0.039818465	0.06527108	520	514
C1orf141	-0.090179898	0.039815369	0.06527108	520	67

C20orf107	-0.090208761	0.039751691	0.06517222	520	470
SEC14L3	-0.090230893	0.039702921	0.06509755	520	70
PDZD9	-0.090231588	0.039701389	0.06509755	520	280
TM4SF1	-0.0902415	0.039679565	0.06506984	520	520
LYSMD1	-0.090313485	0.039521366	0.06484205	520	520
SPINK2	-0.090328696	0.039488005	0.06479659	520	455
OR1D4	-0.090333199	0.039478135	0.06478694	520	83
TMEM99	-0.090373524	0.039389829	0.06465254	520	520
CYP2C8	-0.090381533	0.03937231	0.06463431	520	428
C5orf48	-0.090396739	0.039339068	0.064585	520	18
PYCR2	-0.090399348	0.039333366	0.0645809	520	520
LOC29034	-0.09043818	0.039248591	0.06444695	520	15
DYNC2LI1	-0.090474167	0.039170166	0.06432342	520	520
CHIC2	-0.090502414	0.039108703	0.06422771	520	520
SMCR7	-0.090522599	0.039064829	0.06416611	520	520
HAS3	-0.090551434	0.039002229	0.06406851	520	520
RSPH10B2	-0.090552167	0.039000639	0.06406851	520	463
CNPY2	-0.090592556	0.038913101	0.06394294	520	520
SMNDC1	-0.090593924	0.038910137	0.06394294	520	520
DLX5	-0.090615027	0.038864469	0.06387343	520	520
WNT8A	-0.090650883	0.038786977	0.06375127	520	55
MEAF6	-0.090670269	0.038745136	0.06369288	520	520
ATP11B	-0.090688118	0.038706644	0.0636348	520	520
C22orf39	-0.090756402	0.038559689	0.06340354	520	520
NAB1	-0.090770223	0.038530001	0.06335989	520	520
TMEM219	-0.0907828	0.038503005	0.06332582	520	520
C16orf11	-0.090791245	0.038484886	0.06330119	520	260
VPS28	-0.090811229	0.038442037	0.06324618	520	520
ACCN3	-0.090908089	0.038234933	0.06291572	520	516
AUP1	-0.090911739	0.038227147	0.06290804	520	520
TRMT112	-0.0909286	0.038191197	0.06285914	520	520
FGFR1OP	-0.090938781	0.038169505	0.06283369	520	520
SPCS1	-0.090971596	0.038099655	0.06272383	520	520
CCDC129	-0.090980524	0.03808067	0.06270281	520	244
GPBP1L1	-0.091009877	0.03801831	0.06260524	520	520
MUDENG	-0.091070572	0.037889636	0.06240864	520	520
ZNF620	-0.091255376	0.037500123	0.06180746	520	518
PIGH	-0.091278964	0.037450652	0.06173097	520	520
CELA3B	-0.091347187	0.03730788	0.06151575	520	106
DIP2A	-0.091442768	0.037108633	0.06120223	520	520
NFKBID	-0.091459651	0.037073531	0.06115434	520	520
RNF25	-0.091466363	0.037059585	0.06113634	520	520
IDO1	-0.091482558	0.037025953	0.06109085	520	520
OR4C12	-0.091531857	0.03692373	0.06093216	520	19
NWD1	-0.091550639	0.03688485	0.06087298	520	504
C4orf44	-0.09157284	0.036838935	0.06080218	520	486

ZMYND10	-0.091575219	0.036834017	0.06079904	520	516
TAS2R41	-0.091616664	0.036748444	0.0606727	520	32
SOCS1	-0.091621422	0.036738631	0.06066146	520	520
HBQ1	-0.091638227	0.03670399	0.06061419	520	216
DBNDD2	-0.09173919	0.036496445	0.06029119	520	520
FFAR1	-0.091779148	0.036414582	0.06016582	520	94
DLG1	-0.091804	0.036363746	0.06009167	520	520
FMO6P	-0.091833621	0.036303232	0.05999659	520	328
METTL3	-0.091852336	0.036265043	0.0599433	520	520
CCDC57	-0.091955847	0.036054441	0.05960496	520	520
LTV1	-0.091968156	0.036029465	0.05956856	520	520
LCE3A	-0.091982833	0.035999707	0.05952424	520	424
NKX6-3	-0.091988996	0.035987217	0.05950847	520	55
LMNA	-0.092018029	0.035928426	0.05941612	520	520
POU5F2	-0.092027497	0.035909272	0.05938932	520	209
TIPRL	-0.092053267	0.035857181	0.05930803	520	520
C6orf118	-0.092070076	0.035823239	0.05925675	520	226
NUP88	-0.092079929	0.035803355	0.05923141	520	520
CPLX1	-0.092083451	0.035796251	0.05922668	520	520
RAB7A	-0.092100965	0.035760935	0.05918768	520	520
LOC341056	-0.092121062	0.035720449	0.05912552	520	520
GSTTP2	-0.092213929	0.035533872	0.05883118	520	37
GATSL3	-0.092236221	0.035489208	0.05876689	520	520
TMEM55B	-0.092274685	0.035412256	0.05864909	520	520
FAM63A	-0.092309186	0.035343353	0.05855422	520	520
FGFR4	-0.092352194	0.035257622	0.05844099	520	520
DBNL	-0.092370726	0.035220733	0.05838947	520	520
WDR89	-0.092407673	0.03514729	0.05828686	520	520
LAMP3	-0.092415967	0.035130822	0.05827065	520	520
DGKE	-0.0924409	0.035081352	0.05819666	520	520
KNTC1	-0.092484929	0.03499414	0.05805676	520	520
INPP5B	-0.092551252	0.034863119	0.05784891	520	520
MIF	-0.092577053	0.03481226	0.05777403	520	520
LZIC	-0.092615281	0.034737024	0.05765391	520	520
C7orf53	-0.092632997	0.034702203	0.0576056	520	520
HSFX2	-0.092662141	0.034644987	0.05751536	520	520
FKSG73	-0.092699311	0.03457213	0.05740858	520	22
IGFBP2	-0.092740942	0.034490685	0.05728749	520	520
C3orf47	-0.092754165	0.03446485	0.05725401	520	520
FOS	-0.092758478	0.034456427	0.05724474	520	520
C1orf175	-0.092806437	0.034362883	0.05710344	520	517
TSIX	-0.092811029	0.034353937	0.05709328	520	336
C1orf83	-0.092905393	0.034170554	0.05681193	520	520
KIAA1712	-0.092930992	0.03412095	0.05673881	520	520
PCYOX1L	-0.09295597	0.034072607	0.0566718	520	520
KRTAP10-3	-0.092988931	0.034008905	0.05658049	520	24

MBD6	-0.092990338	0.034006188	0.05658049	520	520
RNASE13	-0.09299899	0.033989485	0.05656218	520	181
TSPAN6	-0.093019347	0.03395021	0.05650149	520	520
ERP27	-0.093019587	0.033949748	0.05650149	520	519
GUCY1B2	-0.093027461	0.033934567	0.05648847	520	466
SLC5A11	-0.093050302	0.033890565	0.05643017	520	375
CAPG	-0.093076874	0.033839436	0.05635434	520	520
LOC730101	-0.093092384	0.033809624	0.05630935	520	518
SCD	-0.093095524	0.03380359	0.05630395	520	520
RCOR1	-0.093103727	0.033787834	0.05628235	520	520
CXorf42	-0.09311167	0.033772584	0.05626625	520	520
UTP14A	-0.09317337	0.033654316	0.05607848	520	520
C18orf8	-0.093234777	0.033536962	0.05589216	520	520
CLDN1	-0.09325215	0.033503824	0.05584617	520	520
LOC407835	-0.093281367	0.033448158	0.0557626	520	520
CSRP2	-0.093370085	0.033279606	0.05549537	520	520
SPTBN5	-0.093375523	0.033269298	0.05548277	520	520
ALOX12P2	-0.09344849	0.033131253	0.05526626	520	515
PLA2G2E	-0.093451492	0.033125585	0.05526138	520	22
ZIM3	-0.093550908	0.032938315	0.05497626	520	96
PLA2G12A	-0.093552386	0.032935537	0.05497617	520	520
BRF1	-0.093615634	0.032816877	0.05478718	520	520
NCRNA00112	-0.093639994	0.032771272	0.0547201	520	23
HOXB13	-0.093640196	0.032770893	0.0547201	520	407
HS3ST4	-0.093643308	0.032765071	0.05471881	520	389
GLRX5	-0.093648736	0.032754919	0.05470639	520	520
FAM45A	-0.09367879	0.032698752	0.05462163	520	520
TFG	-0.093681081	0.032694474	0.054619	520	520
MAP3K9	-0.09371352	0.03263395	0.05452693	520	520
OR8H1	-0.093744532	0.032576178	0.05443942	520	8
OR2A4	-0.093775702	0.0325182	0.05435154	520	517
RAD17	-0.09379162	0.032488624	0.05430661	520	520
GALNTL5	-0.093821912	0.032432407	0.05421713	520	13
OR14I1	-0.093824105	0.032428341	0.05421483	520	31
YTHDC2	-0.093853448	0.03237397	0.05412842	520	520
TTC24	-0.093853973	0.032372998	0.05412842	520	440
PTOV1	-0.093858116	0.032365328	0.05412294	520	520
LOC388428	-0.09394045	0.032213216	0.05387751	520	56
ALAD	-0.093958374	0.032180184	0.05382673	520	520
SEPW1	-0.093977679	0.032144638	0.0537762	520	520
GNG8	-0.094039535	0.032030969	0.05359378	520	211
LOC388387	-0.094066992	0.031980625	0.05351513	520	96
C12orf52	-0.094071731	0.031971941	0.05350504	520	520
ATHL1	-0.094110255	0.031901433	0.05341364	520	520
GRIA4	-0.094120796	0.031882165	0.05338581	520	296
LOC100131193	-0.094146102	0.031835945	0.05331285	520	518

TOB1	-0.094152121	0.03182496	0.05329888	520	520
GCOM1	-0.09418312	0.031768439	0.05320864	520	518
ALDH2	-0.094217188	0.031706419	0.05310917	520	520
C6orf221	-0.094242493	0.03166042	0.05304094	520	148
KRTAP4-9	-0.094290365	0.031573553	0.0529086	520	46
CUL2	-0.094291917	0.03157074	0.05290828	520	520
C1orf61	-0.09430504	0.031546965	0.05287283	520	440
CDK2AP2	-0.094324076	0.031512504	0.05281946	520	520
CAPNS1	-0.09436133	0.031445159	0.05271973	520	520
EHHADH	-0.094366339	0.031436113	0.05270895	520	520
PIGL	-0.09436728	0.031434414	0.05270895	520	520
OR6S1	-0.094375062	0.031420366	0.05269131	520	38
RING1	-0.094515332	0.031168064	0.05228994	520	520
GALK1	-0.094532414	0.031137457	0.05224294	520	520
KRTAP10-4	-0.094540864	0.031122327	0.0522219	520	36
PIGP	-0.094585976	0.031041654	0.05209087	520	520
BAG5	-0.094601483	0.031013966	0.05204874	520	520
DPRXP4	-0.094607113	0.031003919	0.05203621	520	476
SNRNP48	-0.094627016	0.03096842	0.05198096	520	520
CDKN2AIP	-0.094682348	0.030869917	0.05182856	520	520
GLDC	-0.094699162	0.030840036	0.0517827	520	519
SLC22A6	-0.09475644	0.030738436	0.05162501	520	72
ADAMTS17	-0.094762417	0.030727851	0.05161583	520	520
RINL	-0.09476811	0.030717771	0.05160319	520	520
FLJ23867	-0.094792612	0.030674421	0.05153466	520	520
SCARNA2	-0.094828165	0.030611613	0.05143771	520	495
LOR	-0.094837681	0.030594819	0.05141378	520	426
STK16	-0.094843546	0.030584475	0.05140496	520	520
TOMM20	-0.094908352	0.030470358	0.05122597	520	520
ADCK2	-0.094909451	0.030468426	0.05122597	520	520
DCTN5	-0.094915275	0.030458188	0.05121405	520	520
NQO1	-0.094915984	0.030456943	0.05121405	520	520
SLC22A12	-0.094944813	0.030406314	0.05113962	520	59
MTFMT	-0.094970772	0.030360787	0.05107157	520	520
HNF1B	-0.094985387	0.030335182	0.05103276	520	277
PHYHD1	-0.094999569	0.030310352	0.05099524	520	520
MT3	-0.095038351	0.030242542	0.0508854	520	378
SCARNA18	-0.095045832	0.030229476	0.05087867	520	8
KRTAP4-8	-0.095056271	0.030211252	0.05085397	520	114
C4orf14	-0.095075144	0.030178329	0.05081127	520	520
DNAH3	-0.095084365	0.030162255	0.05078845	520	518
TTC39B	-0.095123908	0.030093405	0.05067675	520	520
FBXO27	-0.095133579	0.030076587	0.05065266	520	520
PIP5KL1	-0.095156467	0.030036817	0.05059413	520	520
FABP5	-0.095196542	0.029967289	0.05048546	520	520
BAX	-0.09520665	0.029949775	0.05046017	520	520

SPR	-0.095222152	0.029922931	0.05042758	520	520
DNAJB11	-0.095234152	0.029902166	0.0503968	520	520
ZBTB17	-0.095318376	0.029756766	0.05016851	520	520
MGC70857	-0.095327458	0.029741123	0.05014633	520	520
CABP7	-0.095338265	0.029722518	0.05011916	520	520
C6orf141	-0.095389489	0.029634472	0.04999577	520	517
C10orf125	-0.095398493	0.029619019	0.04997389	520	520
CFB	-0.095448639	0.029533081	0.04983306	520	520
DLGAP5	-0.095449771	0.029531142	0.04983306	520	520
NCRNA00158	-0.095509295	0.029429416	0.04967676	520	289
FABP12	-0.09552903	0.029395756	0.04962626	520	261
CYP4F11	-0.095542757	0.029372362	0.04959507	520	518
CIAPIN1	-0.095568962	0.029327746	0.04952803	520	520
CCL15	-0.095625502	0.029231683	0.04937407	520	196
C3orf33	-0.095644308	0.029199792	0.04932434	520	520
YSK4	-0.095661095	0.029171349	0.04928868	520	274
SERPINF2	-0.095698366	0.029108284	0.04919036	520	520
SIRT3	-0.09570012	0.02910532	0.04918948	520	520
TIFA	-0.095725428	0.029062568	0.04912134	520	520
PRKD2	-0.095743114	0.029032722	0.04907501	520	520
WNT3A	-0.095783682	0.028964365	0.04896767	520	518
C17orf95	-0.095807807	0.028923779	0.04890316	520	520
KLRK1	-0.095838303	0.028872546	0.04882472	520	519
CFTR	-0.095852894	0.028848061	0.04878741	520	387
WDR83	-0.09586074	0.028834901	0.04876925	520	520
PMPCB	-0.095926337	0.028725084	0.04859574	520	520
C9orf98	-0.095929278	0.028720169	0.0485915	520	518
BAIAP2L2	-0.095940956	0.028700659	0.04856664	520	520
OR5A2	-0.095950057	0.028685462	0.048545	520	9
KRT10	-0.095982076	0.028632053	0.04846275	520	520
TLR5	-0.096070405	0.028485158	0.04823436	520	520
POC1B	-0.096111555	0.028416946	0.04812694	520	520
EFNA5	-0.096122137	0.028399427	0.04810131	520	520
SNORA68	-0.096138288	0.028372707	0.04806816	520	36
EPX	-0.096144837	0.028361878	0.04805385	520	333
HAT1	-0.096175536	0.028311165	0.04797196	520	520
TADA2A	-0.096301657	0.028103638	0.04764033	520	520
CD2BP2	-0.096345602	0.028031636	0.04753027	520	520
OLAH	-0.096365943	0.027998362	0.04747784	520	417
USP15	-0.096400295	0.027942246	0.04738667	520	520
PRODH2	-0.096426925	0.027898811	0.04731698	520	51
ZFYVE27	-0.096440312	0.027876998	0.04728397	520	520
ZNF815	-0.096449193	0.027862535	0.04726394	520	520
TAGLN2	-0.09645424	0.027854318	0.04725742	520	520
AP1AR	-0.096504686	0.027772309	0.0471335	520	520
IKBKAP	-0.096564973	0.027674573	0.04698014	520	520

LOC100128811	-0.096567314	0.027670785	0.04697766	520	69
CRADD	-0.0965742	0.027659642	0.0469627	520	520
PIGZ	-0.096582867	0.027645621	0.04694285	520	520
LOC144742	-0.096585164	0.027641907	0.04694049	520	25
DNPEP	-0.096587037	0.027638878	0.0469393	520	520
CCDC115	-0.096597771	0.027621527	0.04691379	520	520
GPR126	-0.096606492	0.027607437	0.0468938	520	520
SAG	-0.096640857	0.027551974	0.04680748	520	71
C21orf54	-0.09669053	0.027471974	0.04667944	520	6
KCNS1	-0.096703051	0.027451841	0.04664916	520	483
PFDN1	-0.096706593	0.027446148	0.04664342	520	520
LOC284023	-0.096764973	0.027352456	0.04649595	520	520
RORC	-0.096774775	0.027336752	0.04647317	520	520
CCDC159	-0.096776376	0.027334188	0.04647273	520	520
TMEM126A	-0.096797591	0.027300229	0.04641891	520	520
LACTB2	-0.096835091	0.027240291	0.0463209	520	520
CXorf59	-0.096919898	0.027105156	0.04611055	520	147
CDK5RAP2	-0.096950393	0.027056706	0.04603201	520	520
LOC339240	-0.09698361	0.027004017	0.04594625	520	243
RNF170	-0.096984139	0.027003178	0.04594625	520	520
C6orf227	-0.096997127	0.0269826	0.04592531	520	286
OCM	-0.097052577	0.026894901	0.04578377	520	267
CDKN2A	-0.097089476	0.026836677	0.04569623	520	520
UPF2	-0.097109823	0.026804617	0.04565321	520	520
KIAA1804	-0.097140735	0.026755974	0.04557647	520	520
LOC100130557	-0.09714224	0.026753607	0.04557647	520	518
C2orf63	-0.097188961	0.026680238	0.04547209	520	520
ATF7IP2	-0.097196259	0.026668792	0.04545643	520	520
CDCA4	-0.097237115	0.026604798	0.04535502	520	520
OR9I1	-0.097277674	0.0265414	0.04525076	520	35
OR2T5	-0.097308401	0.026493457	0.04517496	520	27
PSME3	-0.097314946	0.026483254	0.04516309	520	520
PGGT1B	-0.097393278	0.026361412	0.04497813	520	520
LOC731779	-0.097442948	0.026284402	0.04486192	520	106
PPP1R13L	-0.097459274	0.026259133	0.04482638	520	520
USP7	-0.097526497	0.026155303	0.04466047	520	520
SF3B4	-0.097548004	0.02612216	0.04461521	520	520
OR5J2	-0.097564498	0.026096767	0.04457562	520	16
LCE1C	-0.097587855	0.026060842	0.0445218	520	491
NRN1L	-0.097594974	0.026049902	0.04450688	520	450
MRPS30	-0.097628142	0.02599898	0.04442741	520	520
SNORD97	-0.097666167	0.025940708	0.04433535	520	125
PARD6G	-0.09770674	0.025878655	0.04425055	520	520
TRIM16L	-0.097709596	0.025874292	0.04424809	520	520
ARFIP2	-0.097817002	0.025710664	0.04398319	520	520
HIST1H2AL	-0.09781996	0.025706169	0.04397923	520	490

IYD	-0.097840723	0.025674647	0.04392903	520	391
CCDC66	-0.097844161	0.02566943	0.04392383	520	520
OGFRL1	-0.097853201	0.025655717	0.04390409	520	520
UNKL	-0.097863054	0.025640779	0.04388225	520	520
TLX1	-0.097905188	0.025576985	0.0437805	520	357
POMT1	-0.097948402	0.025511697	0.04367616	520	520
BUD13	-0.097959829	0.025494456	0.04365406	520	520
D4S234E	-0.097977059	0.02546848	0.04361329	520	520
AGPAT5	-0.097994198	0.025442665	0.04357648	520	520
DTD1	-0.098017096	0.025408209	0.04352856	520	520
USP1	-0.098055388	0.025350679	0.04343738	520	520
RAPGEF3	-0.098059923	0.025343874	0.04342941	520	520
FAM133B	-0.098066196	0.025334463	0.04341697	520	520
RBMXL3	-0.098095254	0.025290904	0.04335338	520	36
POU2AF1	-0.098139437	0.025224799	0.04325845	520	519
POLH	-0.098157643	0.025197603	0.04322284	520	520
PPP1R8	-0.098162827	0.025189864	0.04321324	520	520
HDAC2	-0.098227071	0.025094124	0.04305632	520	520
PELP1	-0.09826038	0.02504461	0.04297868	520	520
FBXO42	-0.098266483	0.025035546	0.04296678	520	520
ALDOC	-0.098327066	0.024945733	0.04282358	520	520
IQCJ	-0.098354517	0.024905128	0.04276116	520	57
RALY	-0.098375598	0.024873984	0.04271496	520	520
SCRIB	-0.098391432	0.024850614	0.04268209	520	520
MKI67IP	-0.098399861	0.024838182	0.04266437	520	520
KLRB1	-0.098440298	0.024778612	0.0425693	520	516
PPIL2	-0.098446301	0.024769778	0.04255775	520	520
RPH3AL	-0.098468903	0.024736546	0.04250428	520	520
SLC22A23	-0.09850244	0.024687307	0.04242329	520	520
C11orf51	-0.098516426	0.024666797	0.04239527	520	520
C19orf2	-0.098520249	0.024661194	0.04238925	520	520
CCL25	-0.098562016	0.024600045	0.04228775	520	324
DNAJC5G	-0.09856303	0.024598562	0.04228775	520	97
PARP9	-0.098593812	0.024553582	0.04221868	520	520
PHF10	-0.098621134	0.024513718	0.04216092	520	520
ENKUR	-0.098705193	0.024391422	0.04196132	520	512
AKT1S1	-0.098706838	0.024389033	0.04196079	520	520
KCTD3	-0.098734902	0.024348324	0.04189433	520	520
RRP9	-0.098748078	0.024329231	0.04186505	520	520
L3MBTL4	-0.098753724	0.024321054	0.04185455	520	516
C18orf16	-0.098817761	0.024228474	0.04170234	520	164
LCE1B	-0.098873334	0.024148376	0.04156803	520	417
GPR113	-0.098957394	0.024027656	0.04136375	520	518
ORC2L	-0.099015866	0.02394399	0.0412479	520	520
SFRS12	-0.099016427	0.02394319	0.0412479	520	520
ZAR1	-0.099111044	0.023808343	0.04102473	520	195

ANKLE1	-0.099162781	0.023734887	0.04090515	520	518
GINS4	-0.099166694	0.023729339	0.04090258	520	520
POLR1E	-0.099172181	0.023721562	0.04089617	520	520
NHSL1	-0.099177415	0.023714146	0.04088688	520	520
KLK9	-0.099182641	0.023706742	0.04087761	520	510
DAND5	-0.099222533	0.023650296	0.04078377	520	443
ABHD14B	-0.099237292	0.023629442	0.04075129	520	520
TBL1Y	-0.099269611	0.02358383	0.04067611	520	252
SH3GL1	-0.099293555	0.023550089	0.04062834	520	520
ZNF879	-0.099329016	0.023500192	0.04054919	520	518
TH1L	-0.099362745	0.023452819	0.04047784	520	520
KRTAP17-1	-0.099369333	0.023443575	0.04046535	520	124
RTBDN	-0.099430972	0.023357245	0.04033015	520	457
SEPHS2	-0.099445673	0.023336695	0.04030502	520	520
ANKRD49	-0.099450671	0.023329713	0.04029641	520	520
HIST1H4B	-0.099534597	0.023212728	0.04010466	520	304
SLC22A13	-0.099541316	0.023203385	0.04009882	520	373
RCL1	-0.099591812	0.023133268	0.03998108	520	520
NPL	-0.099600074	0.023121813	0.0399647	520	520
NHEDC1	-0.099626158	0.02308568	0.03990567	520	507
ENHO	-0.099646267	0.023057859	0.039861	520	488
SLC10A6	-0.099697998	0.02298642	0.03974772	520	518
TMEM174	-0.099747289	0.022918528	0.03963712	520	33
DNAH9	-0.099756327	0.022906099	0.03961902	520	507
LOC643677	-0.099763679	0.022895993	0.03960494	520	471
FCRL2	-0.099767523	0.022890711	0.0395992	520	423
ARGFX	-0.099772448	0.022883943	0.03959128	520	154
TSG101	-0.099809346	0.022833302	0.03951345	520	520
KRTAP4-7	-0.099816212	0.022823888	0.03950055	520	51
COPS6	-0.099824297	0.02281281	0.03948476	520	520
POLR3F	-0.099889992	0.022722955	0.03934255	520	520
MTCP1NB	-0.099978207	0.022602781	0.03915149	520	520
MX1	-0.100006527	0.022564319	0.03908822	520	520
KIR3DL3	-0.100020333	0.022545588	0.03905913	520	166
OR10A7	-0.100024757	0.022539589	0.03905209	520	6
BREA2	-0.100026674	0.02253699	0.03905095	520	503
H1FNT	-0.10006817	0.022480793	0.03896362	520	251
AMBP	-0.100087313	0.022454911	0.03892545	520	353
TBL1X	-0.100183643	0.022325053	0.038707	520	520
CCDC138	-0.100221323	0.022274436	0.03862588	520	520
HARS2	-0.100289939	0.022182516	0.03848303	520	520
LOC647946	-0.100335465	0.02212171	0.03838745	520	490
HPGD	-0.100339995	0.022115667	0.03838027	520	520
FABP6	-0.100355979	0.022094358	0.03834659	520	511
ARHGEF3	-0.100406937	0.022026541	0.03823876	520	520
FAM170A	-0.100421835	0.022006749	0.03820769	520	169

ALG3	-0.100428597	0.02199777	0.03819539	520	520
ABTB1	-0.100487213	0.021920074	0.03806704	520	520
SOX14	-0.100489972	0.021916422	0.03806406	520	83
DDX54	-0.100517662	0.021879807	0.03800693	520	520
TP53TG1	-0.100562348	0.021820829	0.03791101	520	520
HSPB9	-0.100599488	0.021771915	0.03783255	520	469
PRMT5	-0.100610694	0.021757175	0.03781019	520	520
GOLGA7	-0.100639248	0.021719657	0.03774825	520	520
OOEP	-0.100672228	0.021676392	0.0376828	520	335
C12orf76	-0.100699773	0.021640315	0.03762332	520	520
TNFRSF17	-0.100706478	0.02163154	0.03761131	520	486
C14orf93	-0.100722202	0.021610977	0.0375788	520	520
UTP18	-0.100830248	0.02147013	0.03734677	520	520
MGC2889	-0.100836216	0.021462374	0.03733649	520	388
ITGA2B	-0.100836345	0.021462206	0.03733649	520	519
OTUD3	-0.100887651	0.021395626	0.03723001	520	520
SLC22A7	-0.10094894	0.021316326	0.03710163	520	67
RXFP4	-0.100999568	0.021251012	0.03699434	520	253
NCRNA00173	-0.101039191	0.021200017	0.03691831	520	496
PNOC	-0.101101656	0.02111984	0.03678822	520	495
BLMH	-0.101114494	0.021103394	0.03676593	520	520
DUSP8	-0.101268677	0.020906752	0.03643908	520	520
CCNI2	-0.101281076	0.020891009	0.03641479	520	513
SPATA19	-0.101366919	0.020782288	0.03623468	520	325
tAKR	-0.101409509	0.020728531	0.03614408	520	120
PIK3CB	-0.101409912	0.020728023	0.03614408	520	520
CHFR	-0.101415378	0.020721133	0.03613743	520	520
HIST1H3I	-0.101467666	0.020655321	0.03602577	520	348
SERINC4	-0.101489302	0.020628142	0.03598459	520	475
BST2	-0.101562888	0.020535936	0.03583614	520	520
NEURL3	-0.101567159	0.020530595	0.03582992	520	518
OR10H2	-0.10165515	0.020420835	0.03564454	520	120
SERPINB12	-0.101664469	0.02040924	0.03562738	520	452
SALL3	-0.101714918	0.020346572	0.03553337	520	262
SOAT2	-0.101732897	0.020324279	0.03549751	520	458
PFKFB2	-0.101749831	0.0203033	0.03546394	520	520
UBE2V2	-0.10177157	0.020276398	0.03542002	520	520
KIF15	-0.101796654	0.020245394	0.03536892	520	520
TAF1C	-0.101801337	0.020239609	0.03536188	520	520
FLRT1	-0.101811217	0.020227412	0.03534363	520	510
DUSP12	-0.10182644	0.020208631	0.03531388	520	520
MYO6	-0.101870069	0.020154888	0.03522302	520	520
TMEM117	-0.101935018	0.020075114	0.03508664	520	520
C22orf45	-0.101948636	0.020058422	0.03506051	520	437
TACC2	-0.101987274	0.02001113	0.03498088	520	520
SFT2D3	-0.101988737	0.020009341	0.03498078	520	520

INTS7	-0.10203515	0.019952664	0.03488775	520	520
TTC16	-0.102086725	0.019889847	0.03478696	520	456
TMUB1	-0.102151689	0.019810968	0.03465802	520	520
NXT1	-0.102179901	0.019776799	0.03460125	520	520
HP1BP3	-0.102244888	0.019698283	0.03448183	520	520
SPNS3	-0.102275756	0.019661084	0.03442269	520	513
RBP3	-0.10227599	0.019660802	0.03442269	520	254
SAMM50	-0.102352221	0.0195692	0.0342767	520	520
ATP6V1E1	-0.102399546	0.01951252	0.03418633	520	520
PMS1	-0.102410059	0.019499948	0.03417024	520	520
C17orf59	-0.102412646	0.019496855	0.03416779	520	520
LCE5A	-0.102418504	0.019489854	0.03416441	520	345
NCRNA00111	-0.102441942	0.019461864	0.03411833	520	61
TTC39C	-0.102456122	0.019444947	0.0340946	520	520
ADH1A	-0.102541099	0.019343837	0.03393207	520	189
KRT9	-0.102548063	0.019335571	0.03392052	520	518
THAP11	-0.102551599	0.019331374	0.03391611	520	520
UBE2G2	-0.102561367	0.019319787	0.03389873	520	520
TBC1D3G	-0.102597994	0.019276395	0.03382554	520	311
TMEM61	-0.102607471	0.019265182	0.0338088	520	510
NEUROD6	-0.102675017	0.019185422	0.03368055	520	17
CCDC87	-0.102706397	0.019148466	0.03362153	520	518
MDM2	-0.102749896	0.01909734	0.03354345	520	520
FGF8	-0.102833766	0.018999101	0.03338543	520	301
SEMA4B	-0.102862785	0.018965213	0.03332879	520	520
ZNF547	-0.102879878	0.018945276	0.03330246	520	519
ZXDC	-0.10292033	0.018898168	0.03322545	520	520
LOC253039	-0.102929325	0.018887706	0.03320995	520	520
SLC5A5	-0.102934586	0.01888159	0.03320209	520	472
MASP1	-0.102945833	0.018868521	0.033182	520	518
BAP1	-0.102955985	0.018856731	0.03316416	520	520
KRT76	-0.102969309	0.018841266	0.03313985	520	315
TMEM62	-0.102996423	0.018809831	0.03308745	520	520
SLC15A2	-0.103027134	0.01877428	0.03303068	520	520
OR6X1	-0.103028077	0.018773189	0.03303068	520	9
UCN3	-0.103033822	0.018766546	0.03302283	520	73
DEFB105A	-0.103042598	0.018756402	0.03301081	520	3
RETNLB	-0.103068427	0.018726572	0.03296688	520	160
CXADR	-0.103096784	0.018693872	0.03291506	520	520
CCT4	-0.103135106	0.018649758	0.03284312	520	520
RAB4A	-0.103230391	0.018540467	0.03266206	520	520
ASF1A	-0.10323941	0.018530151	0.03264674	520	520
C15orf23	-0.103258798	0.018507993	0.0326134	520	520
NRG4	-0.10334837	0.018405921	0.03243921	520	501
C7orf34	-0.103350468	0.018403535	0.03243784	520	114
AKR1B15	-0.10346518	0.018273547	0.03222563	520	513

FOXRED2	-0.103502101	0.01823188	0.03215777	520	520
CHMP6	-0.103554698	0.018172666	0.03205894	520	520
LIPJ	-0.103635917	0.018081558	0.03191217	520	198
SYCN	-0.103647358	0.018068755	0.03189516	520	81
SMG5	-0.103656647	0.018058368	0.03187961	520	520
ZNF414	-0.103666288	0.018047592	0.03186338	520	520
DSP	-0.103732959	0.017973224	0.03174042	520	520
TP53INP2	-0.103741417	0.017963808	0.03172717	520	520
HEMK1	-0.103746552	0.017958094	0.03172203	520	520
WDR12	-0.103754316	0.017949458	0.03170956	520	520
KPNA2	-0.103758254	0.017945078	0.0317046	520	520
RLN1	-0.103792685	0.017906829	0.03164534	520	323
OR4E2	-0.103799939	0.017898781	0.03163389	520	17
TIGD1	-0.103803644	0.01789467	0.03162939	520	520
LOC100132215	-0.103852038	0.017841063	0.0315457	520	518
SCAND1	-0.103888459	0.017800811	0.03148281	520	520
CLDND1	-0.103933737	0.01775088	0.03140552	520	520
SAFB2	-0.103957376	0.017724861	0.03136224	520	520
SPC24	-0.103968995	0.017712084	0.03134238	520	520
OR1I1	-0.103976643	0.017703678	0.03133026	520	25
TMEM120A	-0.103979592	0.017700438	0.03132727	520	520
BRMS1	-0.103985817	0.0176936	0.03131792	520	520
CR2	-0.103992923	0.017685797	0.03130686	520	445
CAPN8	-0.104006907	0.017670451	0.03128519	520	398
KRT6A	-0.10401338	0.017663351	0.03127536	520	520
IQCF1	-0.104031576	0.017643406	0.03124553	520	153
ANXA11	-0.10404716	0.01762634	0.03121805	520	520
GOLGA1	-0.104053873	0.017618993	0.03120778	520	520
HIST1H3C	-0.104099453	0.017569179	0.03112228	520	472
LOC285074	-0.104123564	0.017542878	0.03107842	520	520
SHB	-0.104164995	0.017497764	0.03100667	520	520
OPLAH	-0.10417534	0.017486516	0.03098946	520	520
MAP6D1	-0.104182033	0.017479242	0.03097929	520	520
C11orf82	-0.104245157	0.017410766	0.03086607	520	520
METT5D1	-0.104290363	0.017361871	0.03079022	520	520
KATNB1	-0.104297113	0.017354581	0.03078	520	520
MUC5B	-0.104298629	0.017352943	0.03078	520	499
ARHGEF38	-0.104310117	0.017340543	0.03076321	520	221
CBY1	-0.104366944	0.017279315	0.03066269	520	520
ISL1	-0.10439606	0.017248017	0.03060984	520	403
C11orf10	-0.10440645	0.017236861	0.03059274	520	520
LCE1E	-0.104436129	0.017205027	0.03054161	520	415
IL1R2	-0.104439367	0.017201557	0.03053814	520	520
PITPNC1	-0.104470046	0.017168712	0.03049057	520	520
SPO11	-0.1044808	0.01715721	0.03047283	520	24
RNF113A	-0.104505019	0.017131335	0.03042955	520	520

CASC1	-0.104536158	0.017098115	0.03037483	520	462
TSPAN10	-0.10453621	0.01709806	0.03037483	520	520
SF3A3	-0.104550389	0.017082952	0.0303543	520	520
KCTD5	-0.104560272	0.017072428	0.03034095	520	520
NEUROD1	-0.104563443	0.017069054	0.03033763	520	89
GPN3	-0.104651676	0.016975372	0.03018176	520	520
C2orf65	-0.104678151	0.016947349	0.0301346	520	496
NR1H4	-0.10469861	0.016925723	0.03010411	520	163
BRMS1L	-0.104742823	0.016879068	0.03002907	520	520
AADA4L4	-0.104747768	0.016873857	0.03002245	520	36
SAR1B	-0.104765205	0.016855494	0.02999243	520	520
STARD7	-0.104773568	0.016846692	0.02997941	520	520
C13orf34	-0.104793976	0.01682523	0.02994386	520	520
FER1L4	-0.104817277	0.016800757	0.02990294	520	519
ANXA7	-0.104823036	0.016794713	0.02989483	520	520
GPS2	-0.10482767	0.016789851	0.02989118	520	520
EPHX1	-0.104917813	0.016695518	0.02972876	520	520
KHDRBS1	-0.10493172	0.016681006	0.02970554	520	520
DPP10	-0.104933647	0.016678996	0.02970458	520	194
ADAM11	-0.104952553	0.016659287	0.02967497	520	518
C6orf222	-0.105006286	0.016603384	0.02958821	520	349
ATG7	-0.105011549	0.016597917	0.02958109	520	520
SLC6A10P	-0.105026331	0.016582571	0.02956157	520	520
ACSS1	-0.105069419	0.016537911	0.02948457	520	520
C8orf44	-0.105069749	0.016537569	0.02948457	520	520
PRMT7	-0.105088939	0.016517713	0.02945376	520	520
SCGB3A1	-0.105112744	0.016493111	0.0294151	520	463
CNOT6	-0.105131687	0.016473556	0.02938542	520	520
OR2B2	-0.105133232	0.016471963	0.02938518	520	69
SEMG1	-0.105150517	0.016454139	0.02935598	520	157
CBX4	-0.105168748	0.016435358	0.02932507	520	520
ANKRD13A	-0.105183931	0.016419732	0.02930237	520	520
ZBBX	-0.105199917	0.016403292	0.02927777	520	169
GZMH	-0.10522086	0.016381778	0.0292424	520	515
PHAX	-0.105250985	0.016350874	0.02918982	520	520
C1orf230	-0.105299866	0.016300837	0.02910565	520	182
UTP15	-0.105354874	0.01624469	0.02900796	520	520
NOS1AP	-0.105361269	0.016238174	0.0289989	520	519
DNMT3L	-0.105396618	0.016202195	0.02894233	520	136
RNF144B	-0.105428336	0.016169971	0.02889245	520	520
OSGEPL1	-0.105487459	0.016110055	0.02879049	520	520
C1orf168	-0.105501507	0.016095846	0.02876765	520	342
C20orf135	-0.105505806	0.016091501	0.02876243	520	520
DCLRE1A	-0.105527361	0.016069728	0.02872861	520	520
PROM2	-0.105530927	0.016066127	0.02872472	520	520
LOC400657	-0.105541607	0.01605535	0.028708	520	520

MSL2	-0.105569781	0.016026952	0.02865976	520	520
ACADSB	-0.10559137	0.016005221	0.02862344	520	520
SRPRB	-0.10563032	0.015966079	0.02855597	520	520
LHX9	-0.105676971	0.015919309	0.0284799	520	411
C3orf51	-0.105741523	0.015854792	0.02836951	520	62
DAK	-0.105757915	0.015838445	0.02834278	520	520
TFF1	-0.105776666	0.015819763	0.02831186	520	260
FLJ37453	-0.105781275	0.015815174	0.02830616	520	520
ABCD3	-0.10590416	0.015693255	0.02809792	520	520
DDX41	-0.105951804	0.015646208	0.02801617	520	520
C7orf64	-0.105960167	0.015637961	0.02800389	520	520
ANKRD32	-0.105980907	0.01561753	0.02796979	520	520
CEACAM8	-0.106000757	0.015597996	0.02793729	520	157
PPIG	-0.106043908	0.015555607	0.02786384	520	520
DFFA	-0.106069923	0.015530101	0.02782062	520	520
PSENFEN	-0.106099474	0.015501171	0.02777373	520	520
C1orf182	-0.10610752	0.015493303	0.0277621	520	508
GK	-0.106119848	0.015481254	0.02774544	520	520
SULT1B1	-0.106123987	0.015477211	0.02774066	520	448
RANBP3	-0.106159048	0.015442995	0.02768426	520	520
MDM4	-0.106161775	0.015440336	0.02768195	520	520
PIP	-0.106178247	0.015424287	0.02765659	520	236
MAP3K5	-0.106187707	0.015415077	0.0276465	520	520
CDC34	-0.106229881	0.015374073	0.02757787	520	520
HMGB1	-0.106255299	0.015349407	0.02753607	520	520
CNIH4	-0.106294613	0.015311323	0.0274702	520	520
POLR2G	-0.106314231	0.015292351	0.0274386	520	520
H2AFB1	-0.106320349	0.015286439	0.02743043	520	446
C10orf50	-0.106370738	0.015237818	0.02734562	520	188
LOC653113	-0.106379939	0.015228955	0.02733458	520	520
ILF2	-0.106388274	0.015220929	0.027327	520	520
CTRC	-0.106445695	0.015165743	0.02723324	520	311
C21orf99	-0.106447667	0.015163851	0.02723227	520	65
RIOK3	-0.106478902	0.015133909	0.02718576	520	520
SNX22	-0.106497471	0.015116133	0.02716109	520	520
PER2	-0.106555335	0.015060858	0.027069	520	520
RHBDD3	-0.106589216	0.015028575	0.02701339	520	520
TMC8	-0.106602739	0.015015707	0.02699266	520	520
BSND	-0.106651437	0.014969448	0.02691911	520	252
KRT38	-0.106704629	0.014919063	0.02683089	520	233
ATP8B1	-0.106716978	0.014907387	0.02681229	520	520
DRAP1	-0.106924186	0.014712666	0.02648569	520	520
IL25	-0.106938555	0.014699245	0.02646389	520	194
PRDM12	-0.106940433	0.014697492	0.0264631	520	440
DNLZ	-0.107007772	0.014634751	0.02636661	520	520
CTAGE5	-0.107008475	0.014634097	0.02636661	520	520

NFRKB	-0.107031264	0.014612919	0.02633198	520	520
ING4	-0.107034579	0.01460984	0.02632879	520	520
HN1L	-0.107048183	0.014597212	0.02631073	520	520
C17orf66	-0.107054644	0.014591218	0.02630228	520	272
LOC283999	-0.107056667	0.014589342	0.02630125	520	199
RPL3	-0.107076469	0.014570987	0.02627051	520	520
EDDM3B	-0.107101825	0.014547514	0.02623288	520	17
SS18L1	-0.107189837	0.014466295	0.02609576	520	520
LCN10	-0.107220331	0.014438247	0.02604982	520	497
RNF10	-0.107244909	0.014415676	0.02601143	520	520
AHCY	-0.107281545	0.014382088	0.02595314	520	520
TCP1	-0.10728278	0.014380958	0.02595314	520	520
C14orf34	-0.107283551	0.014380251	0.02595314	520	514
FAM153B	-0.107283916	0.014379918	0.02595314	520	289
RUFY1	-0.10731185	0.014354358	0.0259147	520	520
LOC400794	-0.107386503	0.014286245	0.02580097	520	98
GABRP	-0.107405085	0.014269336	0.02577497	520	510
ASAP1IT1	-0.107444152	0.014233843	0.02571555	520	59
TRIM17	-0.107444767	0.014233285	0.02571555	520	501
ZNF169	-0.107469117	0.014211202	0.02567924	520	520
SLC27A2	-0.107482061	0.014199476	0.02566495	520	518
HHLA2	-0.10748451	0.014197258	0.02566325	520	409
PPDPF	-0.107499641	0.014183563	0.02564079	520	520
TMEM147	-0.107528013	0.014157915	0.02559672	520	520
MCM6	-0.107583334	0.014108023	0.0255088	520	520
PPIAL4C	-0.107641875	0.014055395	0.02542048	520	520
PRSS12	-0.107672228	0.014028176	0.02537353	520	520
KRT6C	-0.107672781	0.01402768	0.02537353	520	520
DHX32	-0.107859368	0.013861381	0.02508534	520	520
BTNL9	-0.107871279	0.013850824	0.02507074	520	514
NCKIPSD	-0.107926247	0.013802197	0.02498945	520	520
IER5	-0.107938988	0.013790948	0.02497581	520	520
CRYGD	-0.107950097	0.013781146	0.02496478	520	25
ILF3	-0.107989388	0.013746526	0.02490655	520	520
CYP2A13	-0.10800015	0.013737058	0.02489163	520	111
DYDC1	-0.108006694	0.013731302	0.02488344	520	138
MCPH1	-0.108019478	0.013720066	0.02486531	520	520
TMEM27	-0.108105149	0.013644973	0.02473366	520	520
ANAPC13	-0.108111739	0.013639212	0.02472544	520	520
CLP1	-0.108113589	0.013637596	0.02472473	520	520
AK1	-0.10812458	0.013627993	0.02470954	520	520
EIF4EBP1	-0.108138419	0.01361591	0.02468986	520	520
ZNF557	-0.108141242	0.013613446	0.02468761	520	520
SSR4	-0.108166032	0.013591829	0.02465284	520	520
PARS2	-0.108174567	0.013584393	0.02464379	520	520
FDX1L	-0.10817838	0.013581073	0.02463998	520	520

DDX23	-0.108187898	0.013572787	0.02462938	520	520
KIAA0020	-0.108219997	0.013544876	0.02458316	520	520
BAK1	-0.108235218	0.013531658	0.02456138	520	520
ACBD4	-0.108297346	0.013477826	0.02447248	520	520
HIST1H2BG	-0.108325777	0.013453254	0.02443006	520	519
KRTAP10-6	-0.108348832	0.013433357	0.02439942	520	33
PLD6	-0.108349832	0.013432495	0.02439942	520	520
EPS15L1	-0.10837646	0.013409549	0.02436386	520	520
SPDYE6	-0.108453191	0.013343619	0.02425063	520	520
ANKK1	-0.10846598	0.013332658	0.02423508	520	518
NECAB3	-0.108487664	0.013314092	0.02420569	520	520
C4orf34	-0.10851366	0.013291864	0.02416746	520	520
BMP3	-0.108523801	0.013283202	0.02415389	520	410
CHCHD7	-0.108525806	0.013281489	0.02415295	520	520
RAC3	-0.108533005	0.013275344	0.02414396	520	520
MED19	-0.10853825	0.013270868	0.02413799	520	520
PGK2	-0.108554406	0.013257089	0.02411728	520	137
ZNF837	-0.108603021	0.013215704	0.0240485	520	519
PPP1CA	-0.108756691	0.013085635	0.02382257	520	520
COQ6	-0.108842053	0.013013871	0.02369834	520	520
GGTLC2	-0.10884268	0.013013346	0.02369834	520	520
IL18	-0.108862591	0.012996658	0.02367127	520	520
ESCO1	-0.108871406	0.012989275	0.02365996	520	520
KIAA1967	-0.108905523	0.012960739	0.02361225	520	520
ST20	-0.108943651	0.012928912	0.02355852	520	520
HSPA4	-0.109060275	0.01283199	0.02339037	520	520
IRF5	-0.109112246	0.012789005	0.02332256	520	520
TSNAX	-0.109118153	0.012784128	0.02331577	520	520
CCS	-0.109120657	0.012782061	0.02331411	520	520
SPINK6	-0.109140927	0.012765338	0.02328571	520	465
MON1A	-0.109151997	0.012756214	0.02327117	520	520
KRTCAP2	-0.109210095	0.012708421	0.02318608	520	520
UCMA	-0.109258209	0.012668961	0.02312665	520	25
SH2D1B	-0.109335181	0.012606058	0.02302016	520	506
SDR42E1	-0.109397803	0.012555086	0.02293269	520	520
EXO1	-0.109411627	0.012543858	0.02291487	520	520
KIAA1407	-0.109415017	0.012541106	0.02291192	520	520
CCDC77	-0.109462	0.01250302	0.02285269	520	520
SUN5	-0.109555306	0.012427687	0.02272736	520	5
TTC19	-0.109555599	0.012427451	0.02272736	520	520
PPIL1	-0.109568832	0.0124168	0.02271157	520	520
TPPP	-0.109713532	0.012300855	0.02251175	520	520
LOC389493	-0.109721329	0.012294634	0.0225024	520	370
ELP2P	-0.10973736	0.012281853	0.0224831	520	519
SREBF2	-0.109753351	0.012269117	0.02246182	520	520
KRT18	-0.109760692	0.012263273	0.02245316	520	520

TMEM37	-0.1097797	0.012248155	0.02242955	520	520
PRKCH	-0.109795223	0.01223582	0.02241103	520	520
PTCD1	-0.109831857	0.012206755	0.02236186	520	520
OR6P1	-0.109853208	0.012189843	0.02233494	520	6
HCRT	-0.109887196	0.012162964	0.02228974	520	38
C15orf44	-0.109912445	0.01214303	0.02225725	520	520
SYTL5	-0.109916991	0.012139445	0.02225271	520	505
GIGYF1	-0.109935121	0.012125153	0.02222853	520	520
ABCG5	-0.109950195	0.012113281	0.0222108	520	387
ECHDC1	-0.109950754	0.012112841	0.0222108	520	520
KHDC1L	-0.109956861	0.012108034	0.02220522	520	513
ZNF263	-0.109991185	0.012081051	0.02215775	520	520
CYB561	-0.110010845	0.01206562	0.02213146	520	520
SMN2	-0.110022578	0.012056419	0.0221166	520	520
HMG20B	-0.110096672	0.011998457	0.02201828	520	520
ZNF443	-0.110189799	0.011925956	0.02188723	520	519
NEIL3	-0.110203696	0.01191517	0.02187141	520	520
TUBA4A	-0.110211948	0.01190877	0.02186166	520	520
AEBP2	-0.11022676	0.011897289	0.02184257	520	520
C4BPA	-0.110234131	0.011891579	0.02183407	520	284
PCP4	-0.110249827	0.011879429	0.02181375	520	207
TERT	-0.110249895	0.011879376	0.02181375	520	501
AIM1	-0.110259427	0.011872003	0.02180409	520	520
UBLCP1	-0.110291916	0.011846901	0.02176393	520	520
SNORA26	-0.110297527	0.011842572	0.02175994	520	17
CHDH	-0.110303451	0.011838001	0.02175353	520	516
IRX3	-0.110314082	0.011829803	0.02174243	520	520
MBD3	-0.110328111	0.011818992	0.02172454	520	520
TPPP3	-0.11036305	0.011792107	0.02168302	520	520
ST7L	-0.110402144	0.011762088	0.02163177	520	520
ITPKA	-0.110416407	0.011751153	0.0216156	520	520
TNFRSF13B	-0.110431702	0.011739437	0.02159602	520	453
C22orf31	-0.110432314	0.011738968	0.02159602	520	451
LRCH4	-0.110448516	0.011726569	0.02157826	520	520
INTS3	-0.110493543	0.01169217	0.02151692	520	520
LRRC24	-0.110495664	0.011690552	0.02151591	520	506
TSN	-0.110524675	0.011668439	0.02147913	520	520
RSRC2	-0.110532918	0.011662163	0.0214715	520	520
LOC100130522	-0.110537953	0.01165833	0.0214664	520	511
C3orf34	-0.110541419	0.011655693	0.02146383	520	520
ARPC1A	-0.110545528	0.011652567	0.02146167	520	520
PTPRVP	-0.11062138	0.011594994	0.02136344	520	356
POR	-0.110623474	0.011593409	0.02136247	520	520
C6orf10	-0.110635161	0.011584562	0.02134812	520	412
L3MBTL	-0.110672134	0.011556612	0.0213044	520	520
ISCA2	-0.110699983	0.0115356	0.02126761	520	520

THAP10	-0.110796737	0.011462859	0.02113737	520	520
GJB1	-0.110886038	0.011396083	0.02102192	520	358
SLC5A1	-0.110975871	0.011329256	0.02090438	520	518
ACRV1	-0.110978716	0.011327145	0.0209024	520	492
ZNF513	-0.110987117	0.011320914	0.02089473	520	520
C20orf72	-0.111022975	0.011294354	0.02084952	520	520
OR7D4	-0.111023973	0.011293615	0.02084952	520	30
SLC5A8	-0.111041586	0.01128059	0.02083174	520	184
NYX	-0.111042898	0.01127962	0.02083174	520	95
CAPN1	-0.111097056	0.011239656	0.02075995	520	520
EFHA1	-0.111101498	0.011236383	0.02075581	520	520
EIF5AL1	-0.111106785	0.011232489	0.02075052	520	520
OR7G3	-0.111111446	0.011229057	0.02074608	520	16
PGAM5	-0.111118916	0.01122356	0.02073972	520	520
GGNBP2	-0.111232424	0.011140311	0.02059344	520	520
MTF2	-0.111249078	0.011128144	0.02057283	520	520
GPATCH4	-0.11126297	0.011118002	0.02055597	520	520
SOX2OT	-0.111264339	0.011117003	0.02055597	520	508
EIF3D	-0.111290784	0.011097723	0.02052224	520	520
AUH	-0.111298993	0.011091744	0.02051306	520	520
FLJ45340	-0.11137096	0.011039449	0.02042009	520	520
NUPL2	-0.111409285	0.011011689	0.02037435	520	520
GPR160	-0.111429076	0.010997378	0.02034974	520	520
C11orf9	-0.111450891	0.010981623	0.02032245	520	520
PSMD13	-0.111456167	0.010977815	0.02031727	520	520
ETHE1	-0.111473333	0.010965435	0.02029808	520	520
NKX2-6	-0.111540999	0.010916756	0.02021168	520	63
POLR2D	-0.111574365	0.010892823	0.02016923	520	520
PMS2L3	-0.111592153	0.010880082	0.02014749	520	520
OR2M7	-0.111661397	0.010830614	0.02005957	520	18
UNC119	-0.111683944	0.010814549	0.02003165	520	520
ABCA17P	-0.111685145	0.010813694	0.02003165	520	443
SFRS15	-0.111716847	0.010791144	0.01999381	520	520
SRRM5	-0.111780335	0.010746109	0.01991586	520	520
ALG13	-0.111783426	0.010743921	0.01991363	520	520
SOX13	-0.111806543	0.010727567	0.01988515	520	520
FAM153C	-0.111855399	0.010693077	0.01982669	520	147
APOBEC4	-0.111911888	0.010653322	0.01975661	520	128
OR3A4	-0.111916418	0.01065014	0.01975252	520	16
RNF151	-0.111948826	0.010627397	0.01971215	520	187
HCG27	-0.111958624	0.01062053	0.01970123	520	510
FLJ42393	-0.111973433	0.010610158	0.0196838	520	317
ATP6V0A4	-0.111989116	0.010599184	0.01966706	520	501
MGC72080	-0.112023785	0.010574959	0.01962572	520	520
GTF2H4	-0.112069787	0.010542892	0.01956981	520	520
KCNH4	-0.1121579	0.01048171	0.01946162	520	468

AKR1C2	-0.112173376	0.010470997	0.01944352	520	520
PGBD5	-0.112227576	0.010433554	0.01937578	520	520
C20orf106	-0.112244576	0.010421834	0.01935579	520	336
DNAJB13	-0.112262507	0.010409485	0.01933464	520	338
ADM2	-0.112286235	0.010393163	0.0193061	520	520
SP9	-0.112288297	0.010391746	0.01930525	520	409
RAB27B	-0.112369658	0.010335961	0.01920515	520	520
PAIP2	-0.112460496	0.010273992	0.01909353	520	520
POLR2K	-0.112482481	0.010259044	0.01906926	520	520
TSTA3	-0.112497873	0.01024859	0.01905159	520	520
C12orf10	-0.112502914	0.010245168	0.01904698	520	520
LCE3C	-0.112510284	0.010240167	0.01903951	520	208
CREB3L4	-0.112517436	0.010235317	0.01903393	520	520
NOB1	-0.112585349	0.010189357	0.01895371	520	520
TPPP2	-0.112632719	0.010157408	0.01889602	520	124
ZNF695	-0.112647863	0.010147213	0.0188788	520	505
SLC16A14	-0.112696206	0.010114728	0.01882183	520	520
GTF3C2	-0.112700601	0.010111178	0.01881808	520	520
RFNG	-0.11274765	0.010080262	0.01876636	520	520
C16orf73	-0.112786668	0.01005419	0.01871955	520	297
NPM3	-0.112792339	0.010050405	0.01871423	520	520
ARL8B	-0.112821936	0.010030675	0.01868094	520	520
C11orf73	-0.112874226	0.009995901	0.01862134	520	520
HTATSF1	-0.112884574	0.009989032	0.01861026	520	520
B3GAT2	-0.112894732	0.009982293	0.01859942	520	507
NEUROG1	-0.112897275	0.009980607	0.018598	520	143
GGNBP1	-0.112905308	0.009975282	0.0185898	520	112
CHP2	-0.112923721	0.009963085	0.01856878	520	488
HERC6	-0.112953421	0.009943439	0.01853388	520	520
BCAS1	-0.113017732	0.009901016	0.01845992	520	520
MUC2	-0.113064154	0.009870494	0.01840812	520	442
ZNF473	-0.113157109	0.009809628	0.018298	520	520
PCNAP1	-0.113158663	0.009808613	0.0182978	520	16
C2orf3	-0.113159771	0.009807889	0.0182978	520	520
ABO	-0.113229111	0.009762711	0.01821554	520	493
SGOL1	-0.113246461	0.009751435	0.01819618	520	520
RBMXL2	-0.113249225	0.00974964	0.01819452	520	153
NOX1	-0.113257662	0.009744162	0.01818598	520	380
GPR87	-0.113390815	0.00965807	0.01803531	520	520
LOC100133957	-0.113419175	0.009639821	0.0180029	520	514
MDH1B	-0.113485234	0.009597432	0.01792872	520	511
PEX16	-0.113554801	0.009552971	0.01785559	520	520
GHRLOS	-0.113568472	0.009544256	0.01784261	520	517
ABCA13	-0.113585393	0.009533478	0.01782411	520	518
GSR	-0.113596347	0.009526507	0.01781273	520	520
NT5C1B	-0.113679443	0.00947377	0.01771905	520	489

KIF18B	-0.113812245	0.009390027	0.01756894	520	520
SNORA10	-0.113813274	0.00938938	0.01756894	520	129
MESP1	-0.113820186	0.00938504	0.01756287	520	504
PTGR1	-0.113888362	0.009342325	0.01748618	520	520
TCF19	-0.113897425	0.00933666	0.0174772	520	520
RMND5A	-0.113946946	0.009305759	0.01742259	520	520
ZNF691	-0.113978292	0.009286245	0.01738767	520	520
DEAF1	-0.114003324	0.00927069	0.01736016	520	520
ANKRD57	-0.1140263	0.009256431	0.01733507	520	520
TPI1	-0.114035249	0.009250883	0.01732629	520	520
EGLN2	-0.114049256	0.009242205	0.01731164	520	520
MAMSTR	-0.114067258	0.009231062	0.01729398	520	520
SULT1A2	-0.114081379	0.00922233	0.01728083	520	517
ZAR1L	-0.114107763	0.009206035	0.01725351	520	162
CDKN2D	-0.114208926	0.009143791	0.01714323	520	520
MAZ	-0.114223481	0.009134867	0.01712968	520	520
BCL2L1	-0.114232662	0.009129241	0.01712232	520	520
STARD10	-0.114298873	0.009088763	0.01704957	520	520
LOC157627	-0.114300402	0.00908783	0.01704941	520	89
WDR38	-0.114330117	0.009069717	0.01701701	520	403
LYG1	-0.11440737	0.009022779	0.0169341	520	503
C19orf22	-0.114408223	0.009022262	0.0169341	520	520
CS	-0.114413473	0.00901908	0.01693145	520	520
UPK2	-0.114421551	0.009014186	0.01692384	520	503
CEACAM16	-0.114434764	0.009006186	0.01691197	520	280
MAPK10	-0.114437487	0.009004539	0.01691045	520	519
CCNA2	-0.114510047	0.008960728	0.01683288	520	520
SFRS18	-0.11454901	0.008937281	0.01679196	520	520
SRPK1	-0.114555109	0.008933616	0.01678664	520	520
HIST1H2AM	-0.11459569	0.008909262	0.01674556	520	517
MBLAC1	-0.114612419	0.008899239	0.01672828	520	520
GDI2	-0.114612604	0.008899128	0.01672828	520	520
NCF1	-0.114658621	0.008871612	0.0166814	520	520
CA10	-0.114729462	0.0088294	0.01660784	520	233
EXOSC1	-0.114735984	0.008825522	0.01660209	520	520
SLC25A11	-0.114778192	0.008800467	0.01655805	520	520
KLHDC7B	-0.114812314	0.008780257	0.01652157	520	520
DRG2	-0.114844047	0.0087615	0.01648935	520	520
HSPBAP1	-0.11484515	0.008760849	0.01648935	520	520
HIST1H2BD	-0.114866381	0.00874832	0.01646762	520	520
HMGN5	-0.114868451	0.008747099	0.01646686	520	520
NPEPL1	-0.114874042	0.008743803	0.01646219	520	520
HDHD2	-0.114924264	0.008714243	0.01641113	520	520
UQCC	-0.114937355	0.008706553	0.01639971	520	520
CEP72	-0.114944001	0.00870265	0.01639543	520	520
CNGA2	-0.115060118	0.008634727	0.01627354	520	19

KRTDAP	-0.115085349	0.008620031	0.01624736	520	515
RNF114	-0.115090968	0.008616761	0.01624272	520	520
C9orf117	-0.115092376	0.008615942	0.01624269	520	518
ACOT7	-0.115106086	0.008607969	0.01622918	520	520
CXorf41	-0.115144891	0.008585438	0.01618822	520	99
CAGE1	-0.115219422	0.00854231	0.0161084	520	510
C1orf56	-0.115295376	0.008498559	0.0160349	520	520
HIST1H3F	-0.115320212	0.008484296	0.01600948	520	465
HINFP	-0.115351354	0.008466442	0.01597729	520	520
UBA6	-0.115379292	0.008450453	0.01595159	520	520
B4GALT4	-0.115467576	0.008400105	0.01586398	520	520
HTR3D	-0.11547946	0.008393349	0.01585271	520	75
ALDH4A1	-0.115546474	0.008355338	0.01578535	520	520
VAV3	-0.115656142	0.008293463	0.01567727	520	520
ZNF101	-0.115714279	0.008260829	0.0156185	520	520
RHOF	-0.115742613	0.008244965	0.01558997	520	520
OASL	-0.115833855	0.008194066	0.01549664	520	520
KREMEN2	-0.115840757	0.008190227	0.01549083	520	520
SERTAD1	-0.115860073	0.008179492	0.01547343	520	520
MIF4GD	-0.116035418	0.008082617	0.01530165	520	520
ACAD8	-0.116097583	0.008048518	0.01524182	520	520
ZNF787	-0.1161248	0.00803363	0.01521605	520	520
MGMT	-0.11613886	0.008025948	0.01520293	520	520
RBM5	-0.116149775	0.008019989	0.01519307	520	520
LTF	-0.116178355	0.008004405	0.01516498	520	517
PLK5P	-0.116184632	0.008000986	0.01515992	520	289
GRK7	-0.116194766	0.007995469	0.01515089	520	480
C19orf76	-0.116216311	0.007983751	0.01513295	520	520
SMPD3	-0.11625673	0.007961808	0.0150942	520	520
ODC1	-0.116263555	0.007958108	0.0150886	520	520
ZNF416	-0.116277311	0.007950656	0.01507731	520	520
SAA4	-0.116295844	0.007940625	0.0150597	520	461
LOC729156	-0.116371648	0.007899716	0.01498776	520	428
C3orf26	-0.11639227	0.007888619	0.01496811	520	520
DLEU1	-0.116458278	0.007853194	0.01490791	520	520
LY6K	-0.116494328	0.007833907	0.0148755	520	520
RPP14	-0.11651329	0.007823778	0.01485766	520	520
SPDYE1	-0.116520933	0.0078197	0.01485272	520	517
KLK15	-0.116550137	0.007804131	0.01482733	520	189
OLA1	-0.116561465	0.0077981	0.01481727	520	520
IFNG	-0.116591086	0.007782349	0.01479013	520	485
CLVS1	-0.116622718	0.007765559	0.01475961	520	495
KCNMB3	-0.116664907	0.007743217	0.0147189	520	520
HAUS4	-0.116672457	0.007739224	0.01471372	520	520
GEMIN4	-0.116702217	0.007723506	0.01468522	520	520
MAGOHB	-0.11680278	0.007670603	0.01459564	520	520

CHCHD8	-0.116816358	0.007663484	0.01458347	520	520
NAA35	-0.116819516	0.00766183	0.0145817	520	520
UGT2A1	-0.116852482	0.007644575	0.01455161	520	271
SLC26A5	-0.116894512	0.007622627	0.0145112	520	261
CYP2S1	-0.116897064	0.007621296	0.01451004	520	520
TMEM68	-0.116924326	0.007607092	0.01448436	520	520
LOC391322	-0.116953669	0.007591831	0.0144594	520	406
NME3	-0.117005724	0.007564824	0.01441069	520	520
AURKC	-0.117078681	0.007527117	0.01434292	520	520
TULP1	-0.117157009	0.007486821	0.01426883	520	472
TCTE3	-0.117167208	0.007481588	0.01426021	520	520
TFAP2A	-0.117170264	0.007480021	0.01425857	520	520
C10orf28	-0.117200454	0.007464554	0.01423089	520	520
BCL2L14	-0.117216499	0.007456345	0.01421747	520	510
ZRSR2	-0.117247773	0.007440369	0.01418835	520	520
STOML3	-0.117270534	0.007428761	0.01416889	520	330
R3HCC1	-0.117318272	0.007404467	0.01412657	520	520
PSMA7	-0.117465595	0.00732994	0.013991	520	520
EXOSC4	-0.117468212	0.007328622	0.01398981	520	520
AQP2	-0.117483579	0.007320889	0.01397637	520	212
PLCH2	-0.11749197	0.007316669	0.01396963	520	520
HPRT1	-0.117522159	0.007301505	0.01394332	520	520
RASL11A	-0.117582512	0.007271274	0.01388691	520	520
BAT4	-0.11760776	0.00725866	0.01386413	520	520
LOC400759	-0.117679627	0.007222863	0.01380099	520	520
ACTL7B	-0.117704312	0.007210604	0.01378017	520	198
PKDREJ	-0.117707838	0.007208854	0.01377814	520	513
ACSBG1	-0.117719483	0.007203079	0.01376971	520	518
GOLPH3L	-0.117739555	0.007193133	0.013752	520	520
PAFAH2	-0.11780454	0.00716102	0.01369736	520	520
ANXA8	-0.117836718	0.007145166	0.01367032	520	520
IQCG	-0.117837051	0.007145001	0.01367032	520	520
ERAS	-0.11785035	0.007138458	0.01366525	520	295
C17orf61	-0.117868386	0.007129593	0.01365123	520	520
CDK11B	-0.11787828	0.007124735	0.01364322	520	520
AWAT1	-0.117901061	0.007113558	0.01362312	520	105
OSGEP	-0.117958589	0.007085404	0.01357049	520	520
ZNHIT1	-0.117998341	0.007066008	0.01353591	520	520
FAM84B	-0.118056856	0.007037544	0.01348266	520	520
CCDC108	-0.118225695	0.006955987	0.01333528	520	257
PPP1R3E	-0.118230964	0.006953456	0.01333217	520	520
TYMP	-0.118237188	0.006950466	0.0133285	520	520
SPINK9	-0.118244917	0.006946756	0.01332392	520	118
LOC145474	-0.118257698	0.006940624	0.01331343	520	208
MRPL21	-0.118260451	0.006939304	0.01331216	520	520
ACER1	-0.118288921	0.006925665	0.01328726	520	427

TBC1D26	-0.11833177	0.006905182	0.01325427	520	254
MGC16142	-0.118338904	0.006901777	0.01324899	520	519
FIP1L1	-0.118417053	0.006864577	0.0131826	520	520
C21orf119	-0.118497999	0.006826235	0.01311022	520	520
RARS	-0.118502382	0.006824164	0.01310749	520	520
CLDN8	-0.118502824	0.006823955	0.01310749	520	428
NPC1L1	-0.118521835	0.006814981	0.01309235	520	469
PSPN	-0.118529757	0.006811244	0.01308642	520	362
CACNA1B	-0.118537842	0.006807432	0.01308034	520	491
AGPAT2	-0.118601416	0.006777528	0.01302908	520	520
LHX4	-0.118719931	0.006722093	0.01292621	520	494
TMEM201	-0.118811894	0.006679358	0.01285016	520	520
PI4K2B	-0.118820525	0.00667536	0.01284492	520	520
PLA2G4A	-0.118832765	0.006669694	0.01283525	520	520
DGAT1	-0.118855564	0.00665915	0.01281863	520	520
TSPO2	-0.118871007	0.006652017	0.01280734	520	267
ALOX15	-0.118897688	0.00663971	0.01278609	520	491
ENTPD8	-0.118925328	0.006626981	0.01276401	520	428
PQLC1	-0.118968572	0.006607111	0.01272939	520	520
POMZP3	-0.119019683	0.006583695	0.01268913	520	520
MUC17	-0.119128529	0.006534076	0.01259951	520	220
CEP78	-0.119156314	0.006521463	0.0125776	520	520
KRT33B	-0.119175297	0.006512859	0.01256221	520	468
CBX8	-0.119217602	0.00649372	0.01252769	520	520
NCF1C	-0.119348422	0.006434856	0.01242363	520	519
PPP1R10	-0.119389377	0.006416526	0.01239062	520	520
HMGB3	-0.119396854	0.006413185	0.01238535	520	520
FAM58A	-0.119446706	0.006390947	0.01234359	520	520
CRIP3	-0.119452984	0.006388151	0.01233937	520	386
SFXN5	-0.119453461	0.006387939	0.01233937	520	520
ABHD10	-0.119563755	0.006339006	0.01225148	520	520
PAK4	-0.11964637	0.006302573	0.01218808	520	520
NARS	-0.119663343	0.006295111	0.01217598	520	520
ERI1	-0.119685117	0.006285551	0.01215982	520	520
C2orf71	-0.119718288	0.006271011	0.01213286	520	453
PM20D2	-0.119737677	0.006262526	0.01211761	520	520
KLK6	-0.119784663	0.006242007	0.01208175	520	514
C16orf61	-0.119793211	0.00623828	0.01207649	520	520
SDHD	-0.119858613	0.006209835	0.01202488	520	520
HIST1H3E	-0.119888264	0.006196978	0.01200114	520	520
CCDC96	-0.11989704	0.006193176	0.01199493	520	520
YEATS4	-0.119899112	0.006192279	0.01199434	520	520
RAP1GAP	-0.119926264	0.006180534	0.01197389	520	520
SNORA31	-0.119935691	0.006176461	0.01196715	520	94
OCM2	-0.119943108	0.006173258	0.0119621	520	85
CES8	-0.119954478	0.006168351	0.01195374	520	520

CG030	-0.120023039	0.006138835	0.01189768	520	520
FAM136B	-0.120026199	0.006137477	0.01189619	520	246
MRPL43	-0.120086114	0.006111793	0.01185324	520	520
KLK8	-0.120091633	0.006109431	0.01184981	520	517
CYTH2	-0.120093529	0.006108621	0.01184937	520	520
RNF149	-0.120124015	0.006095595	0.01182524	520	520
ZCCHC7	-0.120148281	0.006085244	0.01180744	520	520
KRT19	-0.120177509	0.006072798	0.01178442	520	518
UFD1L	-0.120182393	0.006070721	0.01178152	520	520
NFKBIA	-0.120185009	0.006069608	0.0117805	520	520
RPL8	-0.120198923	0.006063695	0.01177015	520	520
DSG3	-0.120205176	0.006061038	0.01176613	520	520
ZNF133	-0.120242157	0.006045351	0.01173681	520	520
EPS8L3	-0.120272165	0.006032649	0.01171666	520	203
ROM1	-0.120293212	0.006023754	0.01170276	520	520
LMO4	-0.120314664	0.0060147	0.01168742	520	520
GCAT	-0.120336391	0.006005542	0.01167188	520	520
AK7	-0.120353641	0.005998281	0.01166001	520	514
ARHGEF4	-0.120353801	0.005998213	0.01166001	520	520
HIST2H2AA3	-0.120364875	0.005993556	0.01165308	520	520
SCARNA1	-0.120366585	0.005992837	0.0116528	520	24
SR140	-0.120390586	0.005982754	0.01163544	520	520
KRTAP5-10	-0.120405756	0.00597639	0.01162448	520	261
N6AMT2	-0.120437605	0.005963047	0.01160047	520	520
LGTN	-0.120472233	0.00594857	0.01157342	520	520
GUCY2C	-0.120480025	0.005945317	0.01156821	520	471
RTKN2	-0.12052375	0.005927092	0.01153609	520	520
UGT1A6	-0.120540817	0.005919992	0.01152449	520	512
SNORA57	-0.120545385	0.005918092	0.01152198	520	221
AASDH	-0.120550175	0.005916102	0.01152026	520	520
MS4A1	-0.120569238	0.005908185	0.01150595	520	497
SSTR5	-0.120599346	0.0058957	0.01148386	520	399
SERPINB5	-0.120611157	0.005890809	0.01147655	520	520
INPP5E	-0.12066142	0.005870035	0.01143718	520	520
WDR33	-0.120669196	0.005866827	0.01143314	520	520
WDR45L	-0.120685956	0.005859919	0.01142078	520	520
FAM66D	-0.120697642	0.005855105	0.0114125	520	446
HMBS	-0.120743734	0.005836157	0.01137997	520	520
AKR1C1	-0.120802149	0.005812222	0.01133439	520	520
EXD1	-0.120882253	0.005779543	0.01127285	520	318
TMED6	-0.121044321	0.005713931	0.01115027	520	516
KRT39	-0.121082198	0.005698693	0.01112484	520	204
PRR14	-0.121162968	0.005666323	0.01106669	520	520
SOLH	-0.121295025	0.005613754	0.0109739	520	520
C6orf114	-0.121318352	0.005604514	0.0109569	520	520
OTP	-0.121336776	0.005597226	0.01094371	520	239

EFCAB4A	-0.121375634	0.005581882	0.01091794	520	520
ZDHHC3	-0.121379044	0.005580537	0.01091637	520	520
DNAI2	-0.121386493	0.005577601	0.01091169	520	400
TRIM38	-0.12139672	0.005573571	0.01090486	520	520
ZNF768	-0.121451721	0.005551947	0.01086571	520	520
LOC283332	-0.121495333	0.005534853	0.01083436	520	73
STK39	-0.121497522	0.005533997	0.01083374	520	520
CCNC	-0.121499431	0.00553325	0.01083333	520	520
UGT1A8	-0.121515475	0.005526975	0.01082315	520	300
BTBD6	-0.121566041	0.005507241	0.0107866	520	520
DMKN	-0.121638623	0.005479026	0.01073968	520	520
FAM71E2	-0.121643529	0.005477123	0.01073804	520	345
PMS2L4	-0.121670021	0.005466861	0.01072104	520	520
RPL31P11	-0.121681413	0.005462453	0.01071344	520	512
C20orf54	-0.12170666	0.005452695	0.01069535	520	520
RPPH1	-0.121740049	0.005439816	0.01067194	520	520
RASSF10	-0.121758457	0.005432727	0.01065929	520	519
PDAP1	-0.121830379	0.005405108	0.0106082	520	520
C7orf36	-0.121831171	0.005404805	0.0106082	520	520
RBMXL1	-0.121859814	0.005393841	0.01058814	520	520
CCT3	-0.121883949	0.005384619	0.0105721	520	520
C2orf76	-0.121895119	0.005380356	0.01056476	520	520
PDXDC2	-0.121966106	0.005353332	0.01051784	520	520
BAIAP3	-0.121983567	0.005346704	0.01050584	520	520
UBE2D3	-0.121990756	0.005343977	0.01050151	520	520
KRT74	-0.122009946	0.005336704	0.01048926	520	516
MS4A8B	-0.122010544	0.005336478	0.01048926	520	189
KBTBD3	-0.122011419	0.005336146	0.01048926	520	520
CD244	-0.122023626	0.005331525	0.01048214	520	518
LOC219347	-0.122044945	0.005323463	0.01046936	520	520
LY6G6D	-0.122089752	0.005306554	0.01043814	520	266
POMP	-0.122150625	0.00528366	0.01039615	520	520
WNK4	-0.122153266	0.005282669	0.01039521	520	515
C4orf7	-0.122174185	0.005274823	0.01038079	520	482
HIST1H3G	-0.122265364	0.005240748	0.01031876	520	509
C6orf57	-0.122273819	0.005237599	0.01031458	520	520
C7orf43	-0.122281283	0.00523482	0.01031011	520	520
TSGA10IP	-0.12228477	0.005233522	0.01030856	520	379
CAPN13	-0.122321086	0.005220022	0.01028595	520	435
SGTA	-0.122345894	0.005210819	0.01027087	520	520
PRC1	-0.122346772	0.005210493	0.01027087	520	520
TTK	-0.122380744	0.005197914	0.01024843	520	520
PHF11	-0.122478288	0.005161948	0.01018051	520	520
MBOAT1	-0.12257465	0.005126638	0.01011285	520	520
CPSF6	-0.122631202	0.005106017	0.01007611	520	520
ZACN	-0.122660375	0.005095408	0.01005616	520	332

TNIP2	-0.122689882	0.005084699	0.01003601	520	520
BCL7B	-0.122698506	0.005081572	0.01003082	520	520
STAT6	-0.122721334	0.005073305	0.01001842	520	520
C7orf57	-0.122744386	0.00506497	0.01000392	520	502
AARSD1	-0.122773795	0.005054353	0.00998491	520	520
VPS52	-0.122776371	0.005053424	0.00998405	520	520
ZNF721	-0.122782436	0.005051237	0.00998071	520	520
GDF9	-0.122930788	0.004998018	0.0098804	520	516
ARAP2	-0.12294134	0.004994252	0.00987489	520	520
BRD8	-0.12295116	0.004990749	0.00986893	520	520
LOC729082	-0.123097006	0.00493899	0.00977425	520	520
CD47	-0.123158681	0.004917248	0.00973504	520	520
PRR7	-0.123168486	0.004913799	0.00972917	520	520
TSC22D4	-0.123200557	0.004902535	0.00970782	520	520
GCET2	-0.123239438	0.00488891	0.00968274	520	520
WNT2B	-0.123240305	0.004888606	0.00968274	520	519
ZNHIT2	-0.123247899	0.004885949	0.00967878	520	404
OTUB1	-0.123296348	0.004869028	0.00964905	520	520
STMN1	-0.123311623	0.004863704	0.00963945	520	520
CIB3	-0.123317092	0.004861799	0.00963662	520	186
IQCD	-0.123346779	0.004851471	0.00961898	520	520
CASP9	-0.123516633	0.004792757	0.00950912	520	520
GPATCH1	-0.12354326	0.004783611	0.00949471	520	520
C11orf20	-0.123556499	0.00477907	0.0094885	520	500
METTL11A	-0.123560955	0.004777542	0.0094864	520	520
TRIM40	-0.123573865	0.004773118	0.00947948	520	229
POLE4	-0.123577743	0.00477179	0.00947947	520	520
SLU7	-0.123584083	0.00476962	0.00947626	520	520
EPHA8	-0.123601502	0.004763661	0.00946536	520	405
PHF7	-0.123605924	0.004762149	0.00946329	520	520
TSPAN1	-0.123607896	0.004761475	0.00946288	520	520
PRKAB1	-0.123639766	0.004750595	0.00944405	520	520
C6orf62	-0.123653073	0.004746059	0.00943596	520	520
STX4	-0.123669611	0.004740426	0.00942569	520	520
AVPI1	-0.12367893	0.004737255	0.00942125	520	520
RPL10	-0.123700854	0.004729802	0.00940735	520	520
CALHM1	-0.123753975	0.004711788	0.00937337	520	427
C17orf55	-0.123808701	0.004693294	0.00933842	520	512
BEX2	-0.123816986	0.0046905	0.00933379	520	518
TTC4	-0.123823727	0.004688228	0.00933018	520	520
STOX1	-0.123842361	0.004681952	0.00931861	520	518
MANSC1	-0.12388161	0.004668758	0.00929327	520	519
SLC35D2	-0.123892194	0.004665206	0.00928712	520	520
KIAA1370	-0.123919762	0.004655965	0.00926964	520	520
MLF2	-0.123933522	0.004651358	0.0092625	520	520
C1orf27	-0.123957694	0.004643276	0.00924803	520	520

P2RY2	-0.12401988	0.004622543	0.00920946	520	520
CLK4	-0.124046872	0.00461357	0.00919249	520	520
AGTPBP1	-0.124064377	0.004607759	0.00918182	520	520
FAM72D	-0.12412132	0.004588901	0.00914605	520	520
ITM2B	-0.124168373	0.004573372	0.0091178	520	520
NPM1	-0.124216093	0.00455767	0.0090883	520	520
GPSM2	-0.124283617	0.004535536	0.00904774	520	520
PRDX5	-0.12429091	0.004533152	0.00904388	520	520
FARSB	-0.124326845	0.004521417	0.00902315	520	520
GZMB	-0.124353252	0.004512812	0.00900776	520	520
GNL2	-0.12439651	0.004498747	0.00898057	520	520
CASP4	-0.124442256	0.004483917	0.00895274	520	520
ACN9	-0.124518289	0.004459365	0.0089046	520	520
P2RY11	-0.124528583	0.00445605	0.00889886	520	519
LOC606724	-0.124539378	0.004452576	0.0088928	520	520
HSPA1B	-0.124853711	0.004352497	0.0087024	520	520
C16orf88	-0.124855651	0.004351886	0.00870205	520	520
AP1S1	-0.124909349	0.004334996	0.00867085	520	520
BRCA1	-0.124933534	0.004327408	0.00865825	520	520
DDA1	-0.124996974	0.004307562	0.00862025	520	520
ERCC6L	-0.125033057	0.004296311	0.0086003	520	520
LEMD1	-0.1250829	0.004280813	0.00857098	520	518
DERA	-0.125109162	0.004272667	0.00855637	520	520
PODXL2	-0.125190308	0.004247587	0.00850783	520	520
KIAA1984	-0.125230237	0.004235295	0.00848405	520	492
SPAG6	-0.125230298	0.004235277	0.00848405	520	384
CDH24	-0.125271493	0.004222629	0.00846204	520	520
MFSD6L	-0.125342139	0.004201018	0.00841957	520	476
KATNAL2	-0.12536501	0.004194043	0.00840643	520	518
FAM164C	-0.125371188	0.004192161	0.00840433	520	519
ZNF389	-0.125389517	0.004186581	0.00839398	520	509
RFESD	-0.125391002	0.004186129	0.0083939	520	520
LOC642826	-0.125398221	0.004183933	0.00839034	520	520
TMPRSS12	-0.12542684	0.004175239	0.00837457	520	231
ZNF706	-0.125432627	0.004173483	0.00837271	520	520
C15orf61	-0.125483552	0.00415806	0.00834426	520	520
HIST1H2BO	-0.125506386	0.00415116	0.00833124	520	495
RNF145	-0.125517454	0.00414782	0.0083262	520	520
CNOT7	-0.125663296	0.004104031	0.00824404	520	520
EIF3I	-0.125692092	0.004095435	0.00822759	520	520
HNRNPA1L2	-0.125703448	0.004092049	0.00822161	520	520
HIST1H3D	-0.125732065	0.004083528	0.00820531	520	520
AIM2	-0.125773188	0.004071313	0.00818321	520	520
HDHD1A	-0.125835554	0.004052849	0.00814691	520	520
AMMECR1	-0.125847464	0.004049332	0.00814065	520	520
MYO15B	-0.125884519	0.004038407	0.0081195	520	520

FAM156A	-0.125891186	0.004036444	0.00811636	520	520
C12orf36	-0.125934875	0.004023602	0.00809296	520	480
HES2	-0.125969362	0.004013492	0.00807423	520	520
EIF5B	-0.125971383	0.0040129	0.00807385	520	520
EIF2B3	-0.125988979	0.004007751	0.0080659	520	520
LARP7	-0.125991717	0.00400695	0.0080651	520	520
XRCC1	-0.126021006	0.003998394	0.00804868	520	520
C16orf5	-0.126037129	0.003993691	0.00804127	520	520
AKD1	-0.126045399	0.003991281	0.00803837	520	520
OR10AD1	-0.126062452	0.003986315	0.00802998	520	132
MELK	-0.126126417	0.003967738	0.00799415	520	520
BECN1	-0.126128175	0.003967228	0.00799415	520	520
C17orf75	-0.126155707	0.003959257	0.00798025	520	520
TRAPPC6B	-0.126171586	0.003954667	0.0079718	520	520
PRIM1	-0.126191423	0.003948938	0.00796184	520	520
C19orf53	-0.126205754	0.003944805	0.0079543	520	520
MFF	-0.126267154	0.003927139	0.00792027	520	520
NCRNA00093	-0.126276215	0.003924538	0.00791581	520	261
GART	-0.126340221	0.00390621	0.00788042	520	520
PDCD7	-0.126341046	0.003905975	0.00788042	520	520
DNAJC25	-0.126342448	0.003905574	0.00788042	520	520
ZNF554	-0.126423407	0.003882506	0.00783731	520	520
RANBP10	-0.126468727	0.003869647	0.00781291	520	520
C4orf21	-0.126486169	0.003864708	0.00780372	520	520
CCDC28A	-0.126525562	0.003853574	0.0077828	520	520
OR52A1	-0.126616842	0.003827888	0.00773325	520	23
DBR1	-0.126623493	0.003826023	0.00773103	520	520
C19orf42	-0.126628774	0.003824542	0.00772881	520	520
TINF2	-0.126681268	0.003809852	0.00770298	520	520
AGPAT3	-0.126685488	0.003808674	0.00770137	520	520
ORMDL1	-0.126710148	0.003801792	0.00768823	520	520
CYP4A11	-0.126719032	0.003799316	0.00768399	520	293
TSSK6	-0.126751635	0.003790241	0.00766641	520	520
HGD	-0.126762656	0.003787178	0.00766098	520	394
GRSF1	-0.12681207	0.003773471	0.00763402	520	520
FCAMR	-0.1268199	0.003771303	0.0076304	520	319
CYP4A22	-0.126891485	0.003751537	0.00759193	520	105
CLNS1A	-0.126925093	0.003742289	0.00757474	520	520
TMEM187	-0.126952215	0.003734841	0.00756042	520	520
PPP1CC	-0.126968568	0.003730357	0.0075521	520	520
C19orf47	-0.126968646	0.003730335	0.0075521	520	520
SLC35A4	-0.127001375	0.003721375	0.00753619	520	520
GBA2	-0.127033756	0.00371253	0.00751903	520	520
LEKR1	-0.127075642	0.003701116	0.00749667	520	514
CYP2R1	-0.127118503	0.00368947	0.00747608	520	520
AZGP1	-0.127206649	0.003665622	0.00742925	520	511

MED25	-0.127238591	0.003657015	0.00741255	520	520
NCRNA00116	-0.127250914	0.0036537	0.00740657	520	520
C22orf27	-0.127262179	0.003650671	0.00740183	520	520
C9orf130	-0.127262455	0.003650597	0.00740183	520	520
RRH	-0.127351722	0.003626678	0.00735698	520	415
FLYWCH2	-0.127367227	0.003622538	0.00734932	520	520
PHF5A	-0.127387896	0.003617026	0.00734035	520	520
CD19	-0.127398787	0.003614125	0.0073352	520	489
DSCR6	-0.127429792	0.003605876	0.0073192	520	481
PSMC4	-0.127443128	0.003602334	0.00731274	520	520
XCL2	-0.127464209	0.00359674	0.00730212	520	514
MNX1	-0.127474789	0.003593936	0.00729716	520	450
MRI1	-0.127529269	0.003579527	0.00726937	520	520
CBWD3	-0.127542966	0.003575913	0.00726276	520	520
CIAO1	-0.127546896	0.003574877	0.00726139	520	520
FTSJ2	-0.12768619	0.003538317	0.0071893	520	520
POLR2E	-0.127712352	0.003531489	0.00717615	520	520
MRM1	-0.12777246	0.003515846	0.00714796	520	520
TMEM161A	-0.127780593	0.003513734	0.00714439	520	520
PLCD1	-0.127816394	0.003504451	0.00712624	520	520
PAK1IP1	-0.127838387	0.00349876	0.00711538	520	520
CUZD1	-0.127847103	0.003496507	0.00711152	520	511
SFRS17A	-0.127854183	0.003494677	0.00710851	520	520
SPINLW1	-0.127921946	0.003477213	0.00707441	520	120
ABHD3	-0.12792236	0.003477107	0.00707441	520	520
RPS6KA5	-0.127927315	0.003475833	0.00707375	520	520
NKAP	-0.127955061	0.003468707	0.00706067	520	520
PSORS1C3	-0.128010561	0.003454494	0.00703387	520	332
MTCP1	-0.128021142	0.00345179	0.00702908	520	520
EIF3J	-0.128037731	0.003447555	0.00702116	520	520
FAHD1	-0.128047465	0.003445073	0.00701681	520	520
SEC31B	-0.128093697	0.003433302	0.00699496	520	520
OXGR1	-0.128119324	0.003426794	0.0069824	520	477
C6orf124	-0.12813525	0.003422755	0.00697488	520	519
ZDHHC6	-0.128164082	0.003415453	0.00696141	520	520
RBM22	-0.128205466	0.003404998	0.0069415	520	520
NOS2	-0.128237206	0.003396999	0.00692659	520	514
FLJ25328	-0.128355586	0.003367247	0.00686871	520	76
TRIM25	-0.128357482	0.003366842	0.00686857	520	520
METTL10	-0.128379727	0.003361291	0.00685864	520	520
RNF43	-0.128386237	0.003359668	0.00685602	520	520
RPRML	-0.12840033	0.003356157	0.00684955	520	139
MIPEP	-0.128463343	0.0033405	0.00681828	520	520
NCRNA00183	-0.128531205	0.003323712	0.00678677	520	520
AKTIP	-0.128568773	0.003314451	0.00676991	520	520
C1orf201	-0.128583085	0.00331093	0.00676341	520	520

LYPD4	-0.128598976	0.003307023	0.00675611	520	125
TDRD5	-0.128604238	0.003305731	0.00675415	520	432
COG2	-0.128662183	0.003291527	0.00672693	520	520
RNASE12	-0.128663257	0.003291264	0.00672693	520	10
SUOX	-0.128852085	0.003245366	0.00663889	520	520
SMAP1	-0.128858119	0.003243908	0.00663658	520	520
GLYCTK	-0.128860357	0.003243368	0.00663615	520	520
PSMD14	-0.128860553	0.003243321	0.00663615	520	520
C1orf110	-0.128914132	0.003230411	0.006613	520	454
THAP9	-0.128994402	0.003211157	0.00657625	520	520
SCAPER	-0.129037079	0.003200963	0.00655671	520	520
SRMS	-0.12904776	0.003198417	0.00655282	520	478
SDC1	-0.129057218	0.003196163	0.00654887	520	520
RPL32P3	-0.129082627	0.003190116	0.00653714	520	520
PTGES	-0.129153474	0.00317331	0.00650337	520	520
MRPS27	-0.129197405	0.003162929	0.00648275	520	520
BARX2	-0.129199296	0.003162483	0.0064825	520	519
CHAC2	-0.129200723	0.003162146	0.00648246	520	519
TMEM129	-0.129201557	0.003161949	0.00648246	520	520
CPSF4	-0.129210596	0.003159818	0.00647967	520	520
ANKRD54	-0.129288838	0.003141423	0.00644326	520	520
SPAG5	-0.129349738	0.003127172	0.00641598	520	520
PBX4	-0.129411084	0.003112876	0.00638795	520	520
ABHD12	-0.129446385	0.003104677	0.00637178	520	520
C14orf119	-0.129467195	0.003099853	0.00636252	520	520
ACRC	-0.129548554	0.003081057	0.00632652	520	520
AK3	-0.12961726	0.003065265	0.00629538	520	520
KCNG3	-0.129648803	0.00305804	0.00628118	520	472
UCN	-0.129762224	0.003032186	0.00623061	520	483
RRM1	-0.129838053	0.003015013	0.00619785	520	520
CXorf58	-0.129890147	0.003003267	0.00617433	520	416
CCDC157	-0.129991993	0.002980422	0.00612924	520	520
BCDIN3D	-0.129994503	0.002979861	0.00612871	520	520
MYO3A	-0.130033978	0.00297105	0.00611184	520	448
RBM6	-0.130061223	0.002964983	0.00610185	520	520
TMEM81	-0.130093525	0.002957804	0.0060877	520	520
ZMYND17	-0.130159428	0.002943208	0.00605951	520	520
PLEKHG5	-0.130165825	0.002941794	0.00605722	520	520
TARBP1	-0.130175885	0.002939573	0.00605326	520	520
ARHGEF10L	-0.130176245	0.002939493	0.00605326	520	520
C17orf68	-0.130240532	0.002925334	0.00602579	520	520
LGALS9B	-0.130321352	0.002907621	0.00599236	520	497
SLC16A5	-0.130375477	0.002895814	0.00597047	520	520
RNF186	-0.130421191	0.002885875	0.00595059	520	176
SNORA63	-0.130423667	0.002885338	0.00595009	520	236
LIN7C	-0.130582579	0.002851035	0.00588236	520	520

CASR	-0.130612899	0.002844533	0.00587014	520	330
SLC34A2	-0.130731464	0.002819235	0.00581972	520	474
RBMX	-0.13073235	0.002819047	0.00581972	520	520
ZNF600	-0.130742842	0.002816818	0.00581592	520	520
SNORD22	-0.130782028	0.002808509	0.00579996	520	121
PVT1	-0.130792168	0.002806362	0.00579671	520	520
MKNK1	-0.130818506	0.002800794	0.0057858	520	520
HIST2H3C	-0.130823915	0.002799651	0.00578403	520	509
DNHD1	-0.130847365	0.002794704	0.005775	520	520
ACSBG2	-0.130929979	0.002777337	0.0057397	520	339
PDZK1P1	-0.1310005	0.002762589	0.00571039	520	505
KATNA1	-0.131008742	0.002760871	0.00570742	520	520
EPGN	-0.131041384	0.002754073	0.00569512	520	491
ADCK5	-0.131078251	0.002746413	0.00568103	520	520
REPIN1	-0.131109226	0.002739993	0.00566833	520	520
CINP	-0.131109768	0.00273988	0.00566833	520	520
NUPR1	-0.131129172	0.002735866	0.0056612	520	520
XAB2	-0.131183273	0.0027247	0.00563959	520	520
UBE2E1	-0.131189157	0.002723488	0.00563766	520	520
RIPPLY2	-0.131281981	0.002704435	0.00560052	520	212
PANK2	-0.131314911	0.002697705	0.00558773	520	520
FETUB	-0.131342076	0.002692165	0.00557682	520	475
AADAACL2	-0.131364633	0.002687572	0.00556845	520	388
C5orf43	-0.131385585	0.002683313	0.0055602	520	520
VSIG10	-0.131391181	0.002682176	0.00555842	520	520
FAM182B	-0.131412592	0.002677831	0.00554998	520	518
MPP7	-0.131421526	0.00267602	0.0055468	520	520
ALG14	-0.13146986	0.002666242	0.00552824	520	520
FOXD3	-0.131489509	0.002662276	0.00552058	520	481
C2orf85	-0.131575953	0.002644892	0.00548566	520	334
FOXRED1	-0.131587134	0.002642652	0.00548158	520	520
H3F3C	-0.131593406	0.002641395	0.00547954	520	520
UPP1	-0.131618329	0.002636408	0.00547032	520	520
C19orf45	-0.131667054	0.002626684	0.00545238	520	358
TM7SF3	-0.131743192	0.002611555	0.00542154	520	520
TIMM50	-0.131803199	0.002599686	0.00539801	520	520
DPH5	-0.131804467	0.002599436	0.00539801	520	520
AGPHD1	-0.13182685	0.002595022	0.00538999	520	519
KRTAP5-7	-0.131847037	0.002591047	0.00538229	520	151
RNF5	-0.131899839	0.002580676	0.00536295	520	520
SIM2	-0.131900144	0.002580616	0.00536295	520	520
ADH6	-0.131909957	0.002578693	0.00535994	520	342
LRRC4	-0.131918856	0.00257695	0.00535687	520	520
MYL6	-0.131920119	0.002576703	0.00535687	520	520
TRIM41	-0.131940633	0.002572689	0.00534967	520	520
CXorf65	-0.131949534	0.00257095	0.0053466	520	368

ARG2	-0.131978896	0.002565219	0.00533633	520	520
PIH1D2	-0.131987383	0.002563565	0.00533344	520	520
FBXL6	-0.131999643	0.002561177	0.00532957	520	520
ZUFSP	-0.132047077	0.002551956	0.00531148	520	520
SFT2D2	-0.132049463	0.002551493	0.00531148	520	520
CATSPERB	-0.132124705	0.002536932	0.00528294	520	494
HIST4H4	-0.132126178	0.002536647	0.00528289	520	520
STK19	-0.132357641	0.002492332	0.00519221	520	520
C20orf7	-0.132371419	0.002489716	0.00518783	520	520
HRH3	-0.13248481	0.002468286	0.0051453	520	301
MNAT1	-0.132654938	0.002436448	0.00508156	520	520
GDPD2	-0.132690972	0.002429752	0.00506917	520	511
KRT16	-0.132691896	0.002429581	0.00506917	520	520
PNRC2	-0.13270785	0.002426622	0.00506369	520	520
GNB2	-0.132712211	0.002425814	0.00506307	520	520
GUF1	-0.132753321	0.002418207	0.00504874	520	520
CDRT15	-0.132780035	0.002413276	0.00504053	520	60
AFMID	-0.132860234	0.002398527	0.0050118	520	520
TMEM59	-0.13293153	0.002385485	0.00498714	520	520
CYP3A4	-0.132995204	0.002373891	0.00496444	520	332
ABCA12	-0.13305061	0.002363845	0.00494548	520	520
HUS1B	-0.133069399	0.002360447	0.00493889	520	509
RDH12	-0.133106712	0.002353712	0.00492582	520	520
SGK2	-0.133146761	0.002346503	0.00491175	520	470
FAM117B	-0.13320527	0.002336007	0.0048908	520	520
GFER	-0.133219053	0.002333541	0.00488665	520	520
NCRNA00176	-0.133259963	0.002326235	0.00487185	520	519
ZNF846	-0.133330347	0.002313714	0.00484714	520	520
USP39	-0.133344419	0.002311218	0.00484342	520	520
NUP35	-0.13336349	0.002307839	0.00483735	520	520
PTPMT1	-0.133404631	0.002300565	0.0048231	520	520
PSMB5	-0.133432328	0.00229568	0.00481336	520	520
METAP2	-0.133488721	0.002285764	0.00479307	520	520
SNORA41	-0.133491843	0.002285216	0.00479242	520	16
FUK	-0.133496268	0.002284439	0.00479129	520	520
C19orf60	-0.133512277	0.002281633	0.0047859	520	520
CALML6	-0.133512368	0.002281617	0.0047859	520	384
TRPV6	-0.13355753	0.002273717	0.00477078	520	491
ISCU	-0.133568471	0.002271807	0.00476777	520	520
KIF9	-0.133594486	0.00226727	0.00475874	520	520
IFI27	-0.133698846	0.002249157	0.0047222	520	520
CFLP1	-0.133699147	0.002249105	0.0047222	520	360
TBC1D8	-0.133718808	0.002245707	0.00471643	520	520
FAM95B1	-0.133726597	0.002244362	0.0047141	520	508
CCDC76	-0.133730904	0.002243619	0.00471303	520	520
ALKBH3	-0.13378498	0.002234306	0.00469689	520	520

TRIM28	-0.13378921	0.002233579	0.00469585	520	520
KRT15	-0.133806856	0.002230549	0.00468997	520	520
CHMP5	-0.133834271	0.002225848	0.00468057	520	520
MRPL17	-0.133882566	0.00221759	0.00466418	520	520
MAP2K7	-0.133914536	0.002212138	0.00465368	520	520
CTAGE6	-0.133919449	0.002211302	0.00465273	520	500
C9orf43	-0.133930004	0.002209505	0.0046496	520	519
PPP1R1B	-0.133934562	0.00220873	0.00464894	520	467
S100A7A	-0.133964437	0.002203653	0.00463922	520	518
ACSF3	-0.133973163	0.002202173	0.00463659	520	520
DFNB59	-0.133973386	0.002202135	0.00463659	520	514
NFX1	-0.134072742	0.002185341	0.00460451	520	520
EDN2	-0.134123205	0.002176855	0.0045876	520	518
CHRNA10	-0.134153314	0.002171807	0.00457839	520	518
QRICH2	-0.134193159	0.002165143	0.00456482	520	520
C4orf43	-0.134355837	0.002138128	0.00451069	520	520
SF3A2	-0.134361567	0.002137182	0.00450917	520	520
GRIPAP1	-0.134388774	0.002132696	0.00450018	520	520
PSMD3	-0.134449628	0.002122693	0.00448094	520	520
TMEM211	-0.134458881	0.002121175	0.00447821	520	196
HNF1A	-0.134482955	0.002117233	0.00447129	520	518
ARPC5	-0.134499014	0.002114606	0.00446621	520	520
RTDR1	-0.134547406	0.00210671	0.00445	520	469
ZNF544	-0.134553052	0.00210579	0.00444852	520	520
TP53AIP1	-0.134608883	0.002096717	0.00443029	520	519
LOC388946	-0.134643013	0.002091189	0.00441999	520	44
NSUN7	-0.134682701	0.002084776	0.0044069	520	514
MCCC2	-0.13474901	0.002074103	0.00438526	520	520
HMGCL	-0.134801333	0.002065716	0.00436798	520	520
MRFAP1L1	-0.134814551	0.002063602	0.00436425	520	520
CCDC73	-0.134863392	0.002055809	0.00434886	520	519
TARS2	-0.134882495	0.002052768	0.00434334	520	520
FBXO22	-0.134902521	0.002049585	0.00433706	520	520
PTTG2	-0.134944064	0.002042995	0.00432448	520	518
CELP	-0.134963657	0.002039894	0.00431927	520	143
CHST9	-0.134995831	0.002034811	0.00430971	520	380
RETSAT	-0.135041523	0.002027613	0.00429688	520	520
KRTAP5-1	-0.135070746	0.002023021	0.00428805	520	389
CPNE6	-0.135110143	0.002016846	0.00427631	520	233
LOC100009676	-0.135141957	0.002011871	0.00426666	520	520
PHPT1	-0.135181099	0.002005767	0.00425461	520	520
GPD1L	-0.135237411	0.001997015	0.00423738	520	520
LOC220729	-0.135240525	0.001996532	0.0042368	520	520
CLEC2D	-0.135303967	0.001986715	0.00421685	520	520
KARS	-0.135336753	0.001981659	0.00420657	520	520
LYRM7	-0.135378947	0.00197517	0.00419367	520	520

MRPS23	-0.135404513	0.001971248	0.00418623	520	520
ALAS1	-0.135415252	0.001969602	0.00418317	520	520
ZAN	-0.13542025	0.001968837	0.00418199	520	471
ARHGAP4	-0.135470143	0.001961211	0.00416799	520	520
PDZD11	-0.135479169	0.001959834	0.00416594	520	520
TPI1P3	-0.135506312	0.0019557	0.00415803	520	428
PAIP2B	-0.135588303	0.001943259	0.00413245	520	520
BTBD16	-0.135675764	0.001930068	0.00410613	520	476
C9orf37	-0.135765486	0.001916621	0.00407881	520	520
IL1F7	-0.135794272	0.001912325	0.0040701	520	358
UGT1A9	-0.135826461	0.001907532	0.00406033	520	387
DOC2B	-0.135847448	0.001904413	0.00405411	520	515
TWF1	-0.135889566	0.001898167	0.00404167	520	520
APC2	-0.13593264	0.001891798	0.00402854	520	520
UPF3A	-0.135935833	0.001891327	0.00402796	520	520
SFRS13A	-0.135952109	0.001888926	0.00402327	520	520
DND1	-0.135999375	0.00188197	0.0040093	520	520
HRSP12	-0.136017439	0.001879318	0.0040045	520	520
IRF3	-0.136028773	0.001877656	0.00400138	520	520
RWDD3	-0.136117579	0.001864678	0.00397582	520	520
IFI16	-0.136147987	0.001860253	0.00396723	520	520
INSL6	-0.136162468	0.001858149	0.00396316	520	65
NR5A1	-0.13619566	0.001853334	0.00395331	520	411
ABCC5	-0.136224866	0.001849108	0.00394596	520	520
MYO1A	-0.136313714	0.001836304	0.00391947	520	444
RGL2	-0.136315062	0.001836111	0.00391947	520	520
CLEC2B	-0.136409059	0.001822655	0.00389363	520	520
SMC4	-0.136426452	0.001820175	0.00388875	520	520
ZNF830	-0.136428155	0.001819933	0.00388864	520	520
TMEM9B	-0.136428918	0.001819824	0.00388864	520	520
SLC25A14	-0.136429344	0.001819763	0.00388864	520	520
ASPSCR1	-0.136436956	0.001818679	0.0038872	520	520
SLC38A8	-0.136444049	0.001817669	0.00388545	520	224
ARRDC5	-0.136509702	0.001808348	0.00386676	520	463
SPRN	-0.13658011	0.001798401	0.0038459	520	520
FO XK2	-0.136584535	0.001797777	0.00384497	520	520
MBD1	-0.136631755	0.001791136	0.00383158	520	520
ZNF341	-0.136656616	0.001787648	0.00382493	520	520
BMS1P5	-0.136658069	0.001787445	0.0038249	520	519
CEP63	-0.136672082	0.001785482	0.00382111	520	520
CRYBB2	-0.136715052	0.001779475	0.00380866	520	485
CXCR2	-0.136726157	0.001777926	0.00380574	520	519
CLDN22	-0.136738872	0.001776154	0.00380235	520	51
RMI1	-0.136769464	0.001771896	0.00379364	520	520
CLIC1	-0.136779515	0.001770499	0.00379105	520	520
GPD2	-0.136792635	0.001768677	0.00378755	520	520

LDHC	-0.136801405	0.001767461	0.00378575	520	405
LOC284900	-0.136870005	0.001757969	0.00376622	520	520
UPK1A	-0.136892641	0.001754847	0.00375993	520	462
CCT7	-0.136908136	0.001752713	0.00375616	520	520
MPST	-0.136920939	0.001750952	0.00375278	520	520
ACTL8	-0.136924581	0.001750451	0.00375211	520	433
SYNGR4	-0.136927501	0.00175005	0.00375205	520	451
UBE2C	-0.137007494	0.001739086	0.00372973	520	520
GOLGA6L1	-0.137030958	0.001735882	0.00372366	520	450
HIST1H2BK	-0.137072507	0.001730222	0.0037123	520	520
GPKOW	-0.137100907	0.001726363	0.0037052	520	520
RSL1D1	-0.137113114	0.001724707	0.00370204	520	520
CISD2	-0.137123383	0.001723315	0.00369945	520	520
SYNGR2	-0.137126725	0.001722862	0.00369887	520	520
ATP6V1D	-0.137263195	0.001704462	0.00366288	520	520
PDZD3	-0.137276781	0.00170264	0.00365935	520	297
PRR5-ARHGAP8	-0.137282685	0.001701849	0.00365804	520	500
LRRRC8B	-0.137311533	0.001697988	0.00365013	520	520
ZNF330	-0.137397058	0.001686589	0.00362717	520	520
ASTE1	-0.13741717	0.001683918	0.00362182	520	520
EXOC3	-0.137418275	0.001683772	0.00362182	520	520
PRMT2	-0.137485904	0.001674821	0.00360379	520	520
SAPS2	-0.137513901	0.001671129	0.00359623	520	520
TBRG4	-0.13753857	0.001667881	0.00358962	520	520
U2AF1L4	-0.137580699	0.001662349	0.0035781	520	520
SERF2	-0.137695691	0.001647334	0.00354663	520	520
PSMC3	-0.137839284	0.001628758	0.00351104	520	520
ICAM4	-0.137886333	0.001622714	0.00349839	520	520
SLFNL1	-0.137919373	0.001618482	0.00348964	520	518
LSR	-0.137970072	0.001612007	0.00347605	520	520
SH2D3A	-0.137971174	0.001611867	0.00347605	520	520
CENPN	-0.138025489	0.001604957	0.0034627	520	520
PPHLN1	-0.138094172	0.001596259	0.00344523	520	520
GGA3	-0.138096547	0.001595959	0.00344513	520	520
LOC339674	-0.138099128	0.001595633	0.00344479	520	475
EMG1	-0.138152968	0.001588847	0.00343088	520	520
FIGNL1	-0.138170628	0.001586627	0.00342645	520	520
PPIE	-0.138217704	0.001580723	0.00341443	520	520
ZG16B	-0.138237383	0.001578261	0.00340984	520	510
TOMM40L	-0.138243908	0.001577445	0.00340845	520	520
STYXL1	-0.138248958	0.001576814	0.00340781	520	520
DGUOK	-0.138272463	0.001573881	0.00340184	520	520
SECTM1	-0.138312857	0.001568851	0.00339206	520	520
PRPF31	-0.138361232	0.001562847	0.00337944	520	520
ORC6L	-0.138409631	0.001556861	0.00336721	520	520
OR10H5	-0.138424476	0.001555029	0.00336434	520	168

GNG5	-0.13843112	0.00155421	0.00336292	520	520
FGFBP3	-0.13843459	0.001553782	0.00336272	520	519
KRTAP3-2	-0.138511696	0.001544306	0.00334329	520	154
FAM81A	-0.138539503	0.001540902	0.00333664	520	519
GMEB2	-0.138543765	0.001540381	0.00333586	520	520
DIO1	-0.138559054	0.001538512	0.00333218	520	413
CDC37	-0.13862603	0.001530353	0.00331557	520	520
MRS2P2	-0.138638943	0.001528784	0.00331253	520	512
MINK1	-0.138652221	0.001527173	0.00330975	520	520
LOC100131726	-0.138669706	0.001525053	0.00330587	520	514
C16orf93	-0.138704294	0.001520868	0.00329821	520	520
MEMO1	-0.13878025	0.001511715	0.00328013	520	520
CCDC18	-0.13878294	0.001511392	0.00327992	520	520
PPEF2	-0.138902878	0.001497045	0.00325004	520	147
MRPS35	-0.138952789	0.001491111	0.00323751	520	520
PL-5283	-0.138966397	0.001489497	0.0032347	520	520
LACE1	-0.138972936	0.001488722	0.00323372	520	520
ARL17A	-0.138987091	0.001487046	0.00323042	520	520
GTF2IP1	-0.139061151	0.001478303	0.00321316	520	520
C19orf18	-0.139089086	0.001475017	0.00320637	520	470
HIST1H2AJ	-0.139149811	0.001467899	0.00319192	520	452
RACGAP1	-0.139184296	0.00146387	0.00318351	520	520
COMMD6	-0.139201203	0.001461899	0.00318059	520	520
DNAJC5	-0.139208293	0.001461073	0.00317923	520	520
LLPH	-0.139255918	0.001455536	0.00316812	520	520
ECM1	-0.139275001	0.001453322	0.00316398	520	520
PASK	-0.139388577	0.001440213	0.00313646	520	520
C2orf68	-0.139461516	0.001431852	0.00311892	520	520
FAM151A	-0.139480986	0.001429628	0.00311441	520	450
LOC80054	-0.139487531	0.001428881	0.00311312	520	520
PRPS2	-0.139517909	0.001425418	0.00310625	520	520
HERC2P2	-0.139535116	0.001423461	0.00310232	520	520
ITPA	-0.139558693	0.001420782	0.00309715	520	520
B3GNT3	-0.139597407	0.001416394	0.00308792	520	520
WFDC2	-0.139643341	0.001411203	0.00307694	520	516
IGFALS	-0.139649416	0.001410518	0.00307577	520	450
GGA1	-0.139697297	0.001405128	0.00306435	520	520
SH3BP2	-0.139702319	0.001404564	0.00306345	520	520
TBC1D10B	-0.139777479	0.001396146	0.00304641	520	520
RPL13	-0.139796147	0.001394062	0.00304219	520	520
5-Mar	-0.139801453	0.00139347	0.00304131	520	520
CLK3	-0.139811227	0.00139238	0.00303984	520	520
DNAJA3	-0.139818377	0.001391584	0.00303843	520	520
MCM7	-0.139899253	0.001382604	0.00302078	520	520
TATDN3	-0.139926863	0.00137955	0.00301477	520	520
SLMO2	-0.139926931	0.001379543	0.00301477	520	520

PLRG1	-0.139969204	0.00137488	0.00300586	520	520
PARD6A	-0.139981429	0.001373534	0.00300325	520	520
ITSN2	-0.140002227	0.001371247	0.00299922	520	520
AHSA2	-0.140009339	0.001370466	0.00299784	520	520
PIGR	-0.140020322	0.00136926	0.00299585	520	508
WDSUB1	-0.140052872	0.001365693	0.00298837	520	520
PEX7	-0.140058058	0.001365126	0.00298745	520	520
LOC339047	-0.140164943	0.001353476	0.00296357	520	520
SYCP3	-0.140185435	0.001351253	0.00295966	520	251
FBXL8	-0.140186404	0.001351148	0.00295966	520	520
SEPHS1	-0.140192923	0.001350442	0.00295853	520	520
MIP	-0.140229317	0.001346505	0.00295055	520	431
RTP4	-0.140247813	0.001344508	0.00294649	520	520
FAM83H	-0.140249083	0.001344371	0.00294649	520	520
LYPD6B	-0.14035721	0.001332751	0.00292168	520	520
SAMD12	-0.140432007	0.001324768	0.00290513	520	519
HEXIM1	-0.140447374	0.001323133	0.00290217	520	520
SLC25A21	-0.140457908	0.001322014	0.00290003	520	498
ADRB2	-0.140466894	0.00132106	0.00289825	520	520
VPS33B	-0.140481169	0.001319545	0.00289525	520	520
MYO19	-0.140516461	0.001315807	0.00288736	520	520
AGMAT	-0.140557207	0.001311503	0.00287854	520	520
PHB2	-0.140617867	0.001305121	0.00286484	520	520
ARHGEF19	-0.140624032	0.001304474	0.00286374	520	520
UBC	-0.140632726	0.001303562	0.00286204	520	520
MAPK8IP2	-0.140717158	0.001294735	0.00284297	520	520
CDH16	-0.14072647	0.001293765	0.00284146	520	503
BGLAP	-0.140728259	0.001293578	0.00284136	520	520
GAMT	-0.140737842	0.001292581	0.00283948	520	520
VPS26A	-0.140739871	0.00129237	0.00283933	520	520
UBTF	-0.140771647	0.001289068	0.00283238	520	520
DDX56	-0.140869091	0.00127899	0.00281146	520	520
MRPL36	-0.140890312	0.001276805	0.00280758	520	520
HES1	-0.140892613	0.001276568	0.00280736	520	520
HIST1H3B	-0.140951543	0.001270519	0.00279528	520	454
RAET1L	-0.141033344	0.001262166	0.00277872	520	518
RAB4B	-0.141040766	0.001261411	0.00277736	520	520
BCL7C	-0.141049481	0.001260524	0.00277571	520	520
C10orf111	-0.141112722	0.001254109	0.00276249	520	503
FCHSD1	-0.141134153	0.001251942	0.00275802	520	520
LOC256880	-0.14114072	0.001251279	0.00275686	520	463
COPS5	-0.141228917	0.001242401	0.0027382	520	520
CENPQ	-0.141230366	0.001242255	0.00273818	520	520
PRPF3	-0.141283935	0.001236892	0.00272784	520	520
FAM100A	-0.141291875	0.001236099	0.00272639	520	520
NPRL2	-0.141295342	0.001235752	0.00272593	520	520

RWDD2B	-0.141322351	0.001233059	0.00272028	520	520
C9orf24	-0.141330643	0.001232233	0.00271876	520	500
DDTL	-0.141365773	0.001228739	0.00271164	520	520
COPS4	-0.141372285	0.001228092	0.00271051	520	520
AZI1	-0.141391829	0.001226154	0.00270653	520	520
LIN54	-0.141421226	0.001223243	0.00270099	520	520
SFI1	-0.141533134	0.001212221	0.00267812	520	520
SPHAR	-0.141542069	0.001211344	0.00267677	520	520
DHTKD1	-0.141577292	0.001207896	0.00266945	520	520
DEK	-0.141583743	0.001207266	0.00266864	520	520
LOC221442	-0.141654992	0.001200322	0.00265358	520	516
ATP5EP2	-0.141661566	0.001199683	0.00265246	520	520
SLFN13	-0.141665523	0.001199299	0.0026519	520	520
C14orf183	-0.141718794	0.001194135	0.00264135	520	86
MEF2B	-0.141729317	0.001193118	0.00263939	520	520
C15orf58	-0.141742753	0.00119182	0.00263681	520	520
NTS	-0.141766362	0.001189542	0.00263234	520	468
AGAP8	-0.141774754	0.001188733	0.00263084	520	518
HCG22	-0.141860109	0.001180537	0.00261385	520	473
SLC25A29	-0.141888493	0.001177823	0.00260813	520	520
MORN1	-0.141902925	0.001176445	0.00260565	520	520
CCBP2	-0.141913577	0.001175429	0.00260369	520	519
GNL3	-0.141982289	0.001168895	0.00258978	520	520
RPL19P12	-0.142061278	0.001161425	0.00257408	520	520
POLR3G	-0.142071232	0.001160486	0.00257228	520	520
MAPK3	-0.142071715	0.001160441	0.00257228	520	520
DKC1	-0.142079622	0.001159696	0.00257138	520	520
GM2A	-0.142080793	0.001159586	0.00257138	520	520
CLK2	-0.142088306	0.001158879	0.00257013	520	520
OR2A7	-0.142108207	0.001157007	0.00256655	520	520
LSS	-0.142110179	0.001156822	0.00256642	520	520
SLC15A1	-0.142184991	0.001149813	0.00255199	520	508
PLA2G4E	-0.14230374	0.001138768	0.00252943	520	512
RRP8	-0.142326293	0.001136682	0.00252507	520	520
LALBA	-0.142423236	0.001127753	0.00250606	520	80
NSUN4	-0.1424737	0.00112313	0.00249634	520	520
SDR9C7	-0.142487894	0.001121834	0.00249401	520	511
IMPDH2	-0.142491711	0.001121485	0.00249351	520	520
RPL28	-0.142506406	0.001120144	0.0024908	520	520
TYRO3	-0.1425646	0.001114848	0.00247985	520	520
MYO5C	-0.142656192	0.00110656	0.00246195	520	520
JUND	-0.14267162	0.00110517	0.0024594	520	520
C6orf129	-0.142675268	0.001104841	0.00245894	520	520
C7orf11	-0.1426785	0.00110455	0.00245884	520	520
MIOS	-0.14269192	0.001103342	0.00245642	520	520
C4orf6	-0.14271647	0.001101137	0.00245178	520	346

ACAD11	-0.142745977	0.001098491	0.00244643	520	520
RUNDC1	-0.142795951	0.001094023	0.00243675	520	520
NPAS1	-0.142810726	0.001092705	0.00243474	520	520
KDM2B	-0.142921455	0.001082876	0.00241405	520	520
SNORA76	-0.143003549	0.001075641	0.00239846	520	165
TYMS	-0.143025105	0.001073749	0.00239503	520	520
CDC42BPG	-0.143063194	0.001070413	0.00238812	520	520
YDJC	-0.143107194	0.001066571	0.00238034	520	520
ZCCHC9	-0.143115316	0.001065863	0.00237902	520	520
FAM174A	-0.143143156	0.001063441	0.00237414	520	520
C16orf74	-0.143144168	0.001063353	0.00237414	520	520
C6orf153	-0.143155506	0.001062367	0.00237227	520	520
TFR2	-0.143228315	0.001056061	0.00235897	520	520
C11orf92	-0.143240934	0.001054972	0.0023568	520	516
GNAT1	-0.143243003	0.001054793	0.00235666	520	276
PMS2L5	-0.143276677	0.001051891	0.00235091	520	520
LOC100270746	-0.14338263	0.001042809	0.00233195	520	520
TOM1L1	-0.143389877	0.001042191	0.00233108	520	520
GTPBP4	-0.143404206	0.001040968	0.00232861	520	520
MCM5	-0.143409686	0.001040502	0.00232782	520	520
SLC12A6	-0.14341483	0.001040063	0.0023271	520	520
CCDC124	-0.143481474	0.001034402	0.00231495	520	520
ADRM1	-0.143512707	0.001031758	0.00230954	520	520
ZER1	-0.14351821	0.001031293	0.00230901	520	520
DEFB103B	-0.143613165	0.001023297	0.00229162	520	478
HIATL2	-0.143613911	0.001023235	0.00229162	520	520
ASH2L	-0.14365878	0.001019477	0.00228357	520	520
DCAF4L1	-0.143726419	0.001013836	0.00227245	520	512
PPWD1	-0.143739276	0.001012767	0.00227031	520	520
C3orf58	-0.143803902	0.001007409	0.00225905	520	520
C10orf67	-0.143838675	0.001004537	0.00225336	520	501
RHPN1	-0.14386711	0.001002194	0.00224861	520	520
CSTF1	-0.143932356	0.000996838	0.00223734	520	520
LIN9	-0.143968225	0.000993904	0.0022315	520	520
SIP1	-0.144088154	0.000984153	0.00221034	520	520
TAS1R3	-0.144128708	0.000980876	0.00220347	520	519
SCAND2	-0.144135241	0.000980349	0.00220254	520	520
AGAP6	-0.144148024	0.000979319	0.00220047	520	520
SEPSECS	-0.144155668	0.000978703	0.00219933	520	520
ANKRA2	-0.144180925	0.000976671	0.00219525	520	520
DUS3L	-0.14430115	0.000967053	0.00217436	520	520
HEPACAM2	-0.144331233	0.00096466	0.00216922	520	303
CDC20	-0.144347754	0.000963348	0.00216651	520	520
LOC100128675	-0.144350807	0.000963106	0.00216621	520	210
GPR37	-0.144356004	0.000962694	0.00216552	520	518
EPB41	-0.144358993	0.000962457	0.00216523	520	520

SLC39A4	-0.144392613	0.000959795	0.00215973	520	520
CWC15	-0.144461809	0.000954337	0.0021484	520	520
WFDC12	-0.144486422	0.000952402	0.00214429	520	490
C1orf59	-0.144491833	0.000951978	0.00214357	520	520
BAT5	-0.14466576	0.000938417	0.00211444	520	520
SRP68	-0.144740713	0.000932628	0.00210258	520	520
PMS2	-0.144796089	0.000928372	0.00209369	520	520
PROZ	-0.144809544	0.000927341	0.00209183	520	383
DAP3	-0.144811723	0.000927174	0.00209169	520	520
SNX11	-0.144823288	0.000926288	0.00209016	520	520
GAK	-0.144830186	0.00092576	0.0020892	520	520
RPL30	-0.144888247	0.000921329	0.0020799	520	520
PEX3	-0.144893677	0.000920916	0.0020792	520	520
POU5F1	-0.144909702	0.000919697	0.00207668	520	517
NUDT7	-0.144929124	0.000918221	0.00207358	520	520
C10orf4	-0.144948209	0.000916774	0.00207054	520	520
ZNF274	-0.144956401	0.000916153	0.00206937	520	520
UFC1	-0.144987049	0.000913834	0.0020646	520	520
ALKBH7	-0.145029732	0.000910613	0.00205824	520	520
LOC100189589	-0.145054097	0.000908779	0.00205433	520	179
MED8	-0.145054606	0.000908741	0.00205433	520	520
C4orf33	-0.145125587	0.000903418	0.0020429	520	520
FAM166A	-0.145139702	0.000902363	0.00204097	520	270
HOXA5	-0.145203484	0.00089761	0.0020309	520	509
FGD3	-0.145240777	0.000894842	0.00202532	520	520
FLJ44606	-0.145273877	0.000892392	0.00202023	520	518
MACROD1	-0.145276258	0.000892216	0.00202006	520	520
HIST1H2AC	-0.145310843	0.000889662	0.00201518	520	520
CCDC53	-0.145321008	0.000888913	0.00201371	520	520
THAP7	-0.14532324	0.000888749	0.00201357	520	520
NMB	-0.145430199	0.000880902	0.00199669	520	520
FAM22G	-0.145447335	0.000879651	0.00199407	520	508
GEMIN6	-0.145542261	0.00087275	0.00197888	520	520
ZGLP1	-0.145585646	0.000869613	0.00197243	520	519
SUDS3	-0.145594869	0.000868948	0.00197114	520	520
C20orf114	-0.145602348	0.000868408	0.00197014	520	370
TK1	-0.145607677	0.000868024	0.00196949	520	520
SLC39A2	-0.145691053	0.000862034	0.00195656	520	517
TIMELESS	-0.14569444	0.000861792	0.00195623	520	520
C16orf53	-0.145775575	0.000856001	0.00194374	520	520
LCMT2	-0.145839145	0.00085149	0.00193371	520	520
FBF1	-0.145887888	0.000848045	0.00192611	520	520
PATE4	-0.145898976	0.000847263	0.00192498	520	105
POLR2L	-0.146007668	0.000839635	0.00190851	520	520
RPS3	-0.146055196	0.00083632	0.00190119	520	520
CCT6B	-0.146081175	0.000834512	0.00189751	520	520

EFNA3	-0.146093055	0.000833687	0.00189585	520	520
FZD9	-0.146122803	0.000831624	0.00189158	520	519
PCSK9	-0.146153736	0.000829484	0.00188693	520	520
ZGPAT	-0.146155639	0.000829353	0.00188684	520	520
NCAN	-0.146177735	0.000827827	0.00188358	520	387
RBM38	-0.146190303	0.000826961	0.00188182	520	520
NENF	-0.146206054	0.000825876	0.00187957	520	520
GTPBP10	-0.146238457	0.000823648	0.00187471	520	520
CMAS	-0.146291337	0.000820025	0.00186731	520	520
MTMR7	-0.146311644	0.000818638	0.00186436	520	520
STATH	-0.146434989	0.000810257	0.00184631	520	314
RDM1	-0.146472729	0.000807709	0.00184092	520	506
SSBP3	-0.14649099	0.000806478	0.00183833	520	520
LOC650368	-0.146524185	0.000804246	0.00183344	520	520
TOMM70A	-0.146599816	0.000799182	0.00182252	520	520
MARK1	-0.146602696	0.000798989	0.00182228	520	520
TELO2	-0.146612728	0.00079832	0.00182096	520	520
C6orf163	-0.146742381	0.000789715	0.00180195	520	515
PDHB	-0.146771958	0.000787764	0.00179771	520	520
KLF16	-0.146774027	0.000787628	0.00179771	520	520
MEA1	-0.146936195	0.000777012	0.00177457	520	520
SEH1L	-0.146981447	0.000774074	0.00176886	520	520
SCARNA12	-0.147015576	0.000771864	0.00176461	520	506
CYP1A2	-0.147027968	0.000771064	0.00176298	520	135
CDCA7	-0.147040769	0.000770237	0.00176149	520	520
C16orf13	-0.147069184	0.000768406	0.0017575	520	520
FAM104A	-0.147094041	0.000766807	0.00175404	520	520
C7orf44	-0.147111929	0.000765658	0.00175181	520	520
KISS1R	-0.147121978	0.000765014	0.00175054	520	438
INADL	-0.147328065	0.000751904	0.00172152	520	520
IER3IP1	-0.147331902	0.000751662	0.00172116	520	520
TRIM66	-0.147361569	0.000749793	0.00171707	520	520
DCAF11	-0.147573149	0.000736585	0.00168798	520	520
ATP5E	-0.147614264	0.000734044	0.00168253	520	520
RABGGTB	-0.147696194	0.000729004	0.00167204	520	520
C20orf111	-0.147706193	0.000728391	0.00167091	520	520
C5orf30	-0.147713984	0.000727914	0.00167019	520	520
PTRH1	-0.147742813	0.00072615	0.00166634	520	520
TSSC4	-0.147829577	0.000720867	0.00165478	520	520
NXPH4	-0.14783939	0.000720272	0.0016536	520	520
WFIKKN1	-0.147914044	0.000715758	0.00164361	520	514
IL17RC	-0.147915452	0.000715673	0.0016436	520	520
HSPA9	-0.147964506	0.000712721	0.0016372	520	520
PSMD12	-0.147980287	0.000711774	0.00163521	520	520
THOC6	-0.148035233	0.000708486	0.00162802	520	520
THYN1	-0.148117783	0.000703572	0.00161747	520	520

OR10H1	-0.148149211	0.000701709	0.00161337	520	270
C3orf19	-0.148397492	0.000687155	0.00158166	520	520
LGALS3	-0.148421518	0.000685762	0.00157905	520	520
HNRNPF	-0.148465231	0.000683233	0.0015734	520	520
SH3BP5L	-0.148477445	0.000682528	0.00157214	520	520
GKAP1	-0.148505097	0.000680935	0.00156865	520	518
SCGB1A1	-0.148573592	0.000677002	0.00156046	520	348
GEMIN8	-0.148736579	0.000667729	0.00153963	520	520
AKIRIN2	-0.14875128	0.000666899	0.00153789	520	520
MYBL2	-0.148778351	0.000665372	0.0015347	520	520
TP73	-0.148840048	0.000661904	0.0015276	520	520
NBR2	-0.148843335	0.00066172	0.00152735	520	520
ZNF770	-0.148853971	0.000661124	0.00152632	520	520
KRT73	-0.148876344	0.000659872	0.00152361	520	321
NSFL1C	-0.148900376	0.000658529	0.00152068	520	520
BPESC1	-0.14890634	0.000658197	0.00152009	520	98
CLDN3	-0.148917514	0.000657574	0.001519	520	460
PPIEL	-0.148951678	0.000655672	0.00151495	520	518
GSTK1	-0.148982204	0.000653977	0.00151121	520	520
KRT72	-0.149074172	0.000648896	0.00149998	520	332
DTNB	-0.14909552	0.000647722	0.00149761	520	520
UCKL1	-0.149219619	0.000640935	0.0014826	520	520
ELMOD3	-0.149368045	0.000632904	0.00146453	520	520
PDE4C	-0.149406033	0.000630864	0.00146014	520	516
FGF22	-0.149421203	0.000630051	0.00145859	520	240
SEPX1	-0.149435953	0.000629261	0.00145715	520	520
SLC29A2	-0.149444174	0.000628822	0.00145642	520	520
UNG	-0.149482741	0.000626763	0.00145231	520	520
PKP4	-0.149512506	0.000625178	0.00144898	520	520
SPIC	-0.149567124	0.000622279	0.00144259	520	196
TMEM116	-0.149574677	0.00062188	0.00144183	520	520
NUDT6	-0.149594261	0.000620844	0.00143959	520	520
MRPS17	-0.14963434	0.00061873	0.00143518	520	520
C6orf147	-0.149642266	0.000618312	0.00143438	520	514
ADCK1	-0.1496488	0.000617968	0.00143375	520	520
NMNAT1	-0.149706629	0.000614933	0.00142687	520	520
HSPD1	-0.149825201	0.000608752	0.00141302	520	520
TLE1	-0.149879825	0.000605924	0.00140661	520	520
ORC1L	-0.149901657	0.000604797	0.00140448	520	520
ASTN2	-0.149932987	0.000603183	0.00140106	520	520
GAST	-0.149974678	0.000601042	0.00139657	520	490
CROT	-0.14999602	0.000599949	0.00139419	520	520
UCHL5	-0.150018147	0.000598817	0.00139172	520	520
MIB2	-0.15008766	0.000595275	0.00138412	520	520
LOC100130274	-0.150093152	0.000594996	0.00138364	520	154
CUL3	-0.150122932	0.000593485	0.00138028	520	520

PLUNC	-0.150127468	0.000593255	0.00137991	520	209
TMEM205	-0.15012991	0.000593132	0.00137978	520	520
ADIPOR1	-0.150136343	0.000592806	0.00137918	520	520
C2orf24	-0.1501422	0.00059251	0.00137865	520	520
ECSIT	-0.150174292	0.000590888	0.00137519	520	520
ATAD3C	-0.1501981	0.000589687	0.00137256	520	520
DPM1	-0.150326429	0.000583256	0.00135837	520	520
FBXO34	-0.150383425	0.00058042	0.00135223	520	520
C12orf27	-0.150385561	0.000580314	0.00135214	520	177
SFRS11	-0.150488312	0.000575235	0.00134078	520	520
RSPH6A	-0.150502085	0.000574558	0.00133935	520	218
EIF5A	-0.150533093	0.000573035	0.00133596	520	520
HIST1H4A	-0.15053317	0.000573031	0.00133596	520	227
C5orf45	-0.150648783	0.000567386	0.00132386	520	520
TRPV4	-0.150689767	0.000565397	0.00131952	520	520
C8orf45	-0.150724539	0.000563715	0.0013159	520	519
PRPF19	-0.15075893	0.000562056	0.00131233	520	520
EIF2S3	-0.150762606	0.000561879	0.00131207	520	520
CDHR4	-0.150847403	0.000557809	0.00130302	520	415
ERMP1	-0.15085559	0.000557417	0.00130225	520	520
YPEL3	-0.150857341	0.000557333	0.00130221	520	520
BNIP1	-0.150975415	0.000551716	0.00128938	520	520
PTPN13	-0.151038155	0.000548752	0.00128275	520	520
MLST8	-0.151042871	0.00054853	0.00128238	520	520
MCM2	-0.151055179	0.00054795	0.00128118	520	520
SPRR4	-0.151125146	0.000544667	0.00127394	520	496
C12orf26	-0.151164439	0.000542832	0.00126994	520	520
DNAJC11	-0.15121409	0.00054052	0.00126468	520	520
DSC2	-0.151322273	0.000535515	0.00125327	520	520
LOC349114	-0.151345875	0.000534429	0.00125087	520	520
ZNF33B	-0.151417674	0.000531138	0.00124432	520	520
C1orf49	-0.151529361	0.000526055	0.00123313	520	236
NFYB	-0.15153266	0.000525906	0.00123292	520	520
RANBP1	-0.151536581	0.000525728	0.00123265	520	520
LETM1	-0.151559416	0.000524695	0.00123051	520	520
MAD2L1	-0.151583712	0.000523598	0.00122851	520	520
FAM3A	-0.151613682	0.000522248	0.00122563	520	520
RGS9BP	-0.151748599	0.000516209	0.0012123	520	508
CACNG3	-0.151825038	0.000512817	0.00120504	520	115
IL17RB	-0.151844808	0.000511943	0.00120341	520	520
B3GALT4	-0.15188993	0.000509953	0.00119901	520	520
C10orf110	-0.151896653	0.000509657	0.00119845	520	518
TPMT	-0.151907802	0.000509167	0.00119751	520	520
LOC440957	-0.151939949	0.000507756	0.00119454	520	520
ORC5L	-0.151940656	0.000507725	0.00119454	520	520
FAM41C	-0.151971708	0.000506365	0.00119168	520	520

C1orf52	-0.15199835	0.000505202	0.00118936	520	520
HIST1H2BJ	-0.152058182	0.000502597	0.00118365	520	520
KIAA0907	-0.152072281	0.000501985	0.00118234	520	520
LHFPL4	-0.152080384	0.000501634	0.00118165	520	317
TMEM222	-0.152186032	0.000497074	0.00117132	520	520
LHX2	-0.15220006	0.000496471	0.00117004	520	510
SPDYC	-0.152260988	0.000493862	0.0011643	520	293
MRPL44	-0.152308889	0.000491819	0.00115989	520	520
ATP1A1	-0.152350953	0.000490032	0.00115594	520	520
PEX11B	-0.15235683	0.000489783	0.00115549	520	520
CNGA1	-0.152369132	0.000489262	0.0011544	520	519
C18orf21	-0.152505713	0.000483509	0.00114149	520	520
DDX11	-0.152634519	0.000478141	0.00112948	520	520
DENND1C	-0.152647297	0.000477612	0.00112836	520	520
LANCL3	-0.1526572	0.000477202	0.00112766	520	519
ACTR5	-0.152709099	0.000475059	0.00112286	520	520
GTPBP5	-0.152737469	0.000473891	0.00112023	520	520
SOX15	-0.152747862	0.000473464	0.00111935	520	520
PDCD6	-0.152752985	0.000473253	0.00111905	520	520
CPOX	-0.152823198	0.000470378	0.00111284	520	520
BCAP31	-0.15293136	0.000465981	0.00110321	520	520
NOBOX	-0.152936337	0.00046578	0.00110286	520	111
HNRNPA2B1	-0.152990832	0.00046358	0.00109804	520	520
OAZ3	-0.153033114	0.00046188	0.00109431	520	520
SLC13A2	-0.15307423	0.000460232	0.00109075	520	356
MNS1	-0.153103371	0.000459067	0.00108825	520	519
GUCY2GP	-0.153127257	0.000458115	0.00108612	520	44
TMEM52	-0.153132787	0.000457895	0.00108572	520	520
WNK2	-0.153160972	0.000456774	0.00108319	520	515
TAC3	-0.153164218	0.000456645	0.00108301	520	259
C9orf46	-0.153176947	0.000456139	0.00108207	520	520
CETN2	-0.153192553	0.00045552	0.00108073	520	520
GOLT1A	-0.153237443	0.000453745	0.00107677	520	407
CPT2	-0.153259985	0.000452856	0.00107479	520	520
UBXN1	-0.153299936	0.000451283	0.00107131	520	520
PTGER1	-0.153308823	0.000450934	0.00107073	520	431
RDH10	-0.153353438	0.000449186	0.00106683	520	520
APOL1	-0.153391056	0.000447717	0.00106359	520	520
LRRC46	-0.153397696	0.000447458	0.00106323	520	519
KCNIP2	-0.153400348	0.000447355	0.00106311	520	519
LRSAM1	-0.153405769	0.000447143	0.00106273	520	520
FAM108A1	-0.153476308	0.000444404	0.00105672	520	520
TICAM1	-0.153502091	0.000443406	0.00105447	520	520
LOC93622	-0.153510018	0.0004431	0.00105387	520	520
TNFAIP2	-0.15353967	0.000441956	0.00105139	520	520
NCRNA00188	-0.153569379	0.000440813	0.00104892	520	520

AMT	-0.153587787	0.000440106	0.00104736	520	520
SUPT4H1	-0.153608214	0.000439323	0.00104562	520	520
TAF9	-0.153711575	0.000435379	0.0010366	520	520
CCNF	-0.153730786	0.000434649	0.00103511	520	520
SLC16A8	-0.1537772	0.000432892	0.00103117	520	510
GPR98	-0.153838296	0.000430589	0.00102629	520	520
SLC6A8	-0.153847495	0.000430243	0.00102574	520	520
KRT3	-0.153849634	0.000430162	0.00102574	520	481
PIGN	-0.153853994	0.000429999	0.00102549	520	520
VMA21	-0.153870467	0.00042938	0.00102413	520	520
OR5A1	-0.153952442	0.000426316	0.00101707	520	8
STAG3	-0.153964842	0.000425854	0.00101608	520	519
CXorf40A	-0.154065541	0.000422121	0.00100789	520	520
EPCAM	-0.154088153	0.000421287	0.00100602	520	520
SBF1P1	-0.154138052	0.000419452	0.00100176	520	514
ABC6	-0.15416128	0.000418601	0.00099984	520	520
MED30	-0.154184884	0.000417737	0.00099801	520	520
GNB2L1	-0.154189074	0.000417584	0.00099777	520	520
USP21	-0.154200476	0.000417167	0.00099689	520	520
PSMB8	-0.154201955	0.000417113	0.00099688	520	520
HAL	-0.15421777	0.000416536	0.00099574	520	508
CENPC1	-0.154228754	0.000416136	0.0009949	520	520
TRNP1	-0.154357655	0.000411465	0.0009842	520	520
GSTA2	-0.154372283	0.000410938	0.00098329	520	255
C4orf3	-0.154428556	0.000408916	0.00097903	520	520
DOM3Z	-0.15444363	0.000408376	0.00097785	520	520
C12orf74	-0.154470941	0.0004074	0.00097575	520	348
H1FX	-0.154503207	0.000406249	0.00097311	520	520
LOC729668	-0.154507788	0.000406085	0.00097283	520	255
A2LD1	-0.154532042	0.000405223	0.00097099	520	520
EPB41L1	-0.154535032	0.000405116	0.00097085	520	520
ARHGAP8	-0.154582517	0.000403433	0.00096705	520	519
ASPRV1	-0.154584318	0.000403369	0.00096701	520	520
TTF1	-0.154624008	0.000401967	0.00096376	520	520
GOLGA6L6	-0.154630166	0.000401749	0.00096336	520	474
TKT	-0.154650977	0.000401016	0.00096183	520	520
SET	-0.154687982	0.000399716	0.00095894	520	520
ATPBD4	-0.154710874	0.000398913	0.00095724	520	520
AADAC	-0.154722444	0.000398508	0.00095661	520	477
RG9MTD2	-0.154743156	0.000397784	0.0009551	520	520
PNPLA4	-0.154760642	0.000397174	0.00095386	520	520
FPGT	-0.15477463	0.000396686	0.00095281	520	520
MXI1	-0.154781906	0.000396433	0.00095242	520	520
LIPT1	-0.154815357	0.00039527	0.00094974	520	520
DLD	-0.154855986	0.000393861	0.00094647	520	520
ZNF75A	-0.154862019	0.000393652	0.00094608	520	520

URM1	-0.154898613	0.000392388	0.00094327	520	520
HIST1H4D	-0.154926674	0.000391422	0.00094105	520	433
B9D2	-0.154990602	0.000389228	0.00093611	520	520
KLHL17	-0.154991179	0.000389208	0.00093611	520	520
BICD2	-0.155011102	0.000388526	0.00093476	520	520
SRP14	-0.155055769	0.000387003	0.00093132	520	520
TC2N	-0.155062784	0.000386764	0.00093086	520	520
NCOA7	-0.15512476	0.000384661	0.0009259	520	520
TMEM91	-0.155126333	0.000384607	0.00092589	520	520
WHSC2	-0.155157942	0.000383539	0.00092342	520	520
RPSAP9	-0.155168469	0.000383183	0.00092268	520	520
FOXD4L2	-0.155228327	0.000381169	0.00091816	520	486
CISD3	-0.155285468	0.000379255	0.00091377	520	520
RASIP1	-0.155317342	0.000378192	0.00091131	520	520
PALB2	-0.155342653	0.000377349	0.00090939	520	520
FAM18B2	-0.155361289	0.00037673	0.00090805	520	520
SSH3	-0.155386158	0.000375905	0.00090634	520	520
C7orf59	-0.155404214	0.000375307	0.00090512	520	520
UGT2B28	-0.155415483	0.000374934	0.00090454	520	101
LY6G5B	-0.155511918	0.000371759	0.00089699	520	520
ZFP62	-0.155531868	0.000371105	0.00089552	520	520
ZNF232	-0.155550586	0.000370493	0.00089415	520	520
CDC26	-0.15555077	0.000370487	0.00089415	520	520
MPND	-0.155560744	0.000370161	0.00089356	520	520
MTO1	-0.155578821	0.000369571	0.00089224	520	520
FLJ11235	-0.155649272	0.00036728	0.00088722	520	515
IDI2	-0.155658187	0.000366991	0.00088665	520	520
RAD23A	-0.155724597	0.000364845	0.00088178	520	520
ACBD6	-0.155726143	0.000364795	0.00088177	520	520
HIST2H2AC	-0.155753212	0.000363923	0.00087977	520	520
UBE2A	-0.155766574	0.000363494	0.00087884	520	520
LYRM5	-0.15577656	0.000363173	0.00087838	520	520
ETAA1	-0.155790185	0.000362736	0.00087743	520	520
CYP4F8	-0.155792657	0.000362657	0.00087734	520	216
FMR1	-0.155850368	0.000360812	0.00087308	520	520
NDUFA4L2	-0.155852126	0.000360756	0.00087305	520	520
USE1	-0.155876381	0.000359983	0.00087129	520	520
COPZ1	-0.155914293	0.000358779	0.00086879	520	520
FAM192A	-0.155914619	0.000358768	0.00086879	520	520
NRL	-0.156033946	0.000355001	0.00086026	520	520
TPRG1L	-0.156086944	0.00035334	0.00085634	520	520
DECR1	-0.156125603	0.000352132	0.00085362	520	520
LOC150381	-0.156127832	0.000352063	0.00085355	520	520
C9orf123	-0.156251543	0.000348226	0.00084466	520	520
DDRK1	-0.156257155	0.000348053	0.00084434	520	520
PTPRH	-0.156292849	0.000346954	0.00084178	520	520

GAD2	-0.156312461	0.000346351	0.00084051	520	101
C9orf53	-0.156336033	0.000345628	0.00083886	520	298
IL17RE	-0.156353825	0.000345083	0.00083774	520	520
C12orf47	-0.156361551	0.000344847	0.00083727	520	520
CHP	-0.156371446	0.000344544	0.00083673	520	520
RPL13AP20	-0.156395058	0.000343824	0.00083508	520	520
RBM42	-0.156478737	0.000341281	0.00082941	520	520
WBSCR26	-0.156498418	0.000340686	0.00082806	520	475
CLDN10	-0.156519844	0.000340038	0.00082669	520	450
METAP1	-0.156520665	0.000340014	0.00082669	520	520
S1PR5	-0.156540273	0.000339422	0.00082539	520	520
MARVELD3	-0.156595364	0.000337766	0.00082176	520	520
C16orf70	-0.156596117	0.000337744	0.00082176	520	520
RPSAP58	-0.156599173	0.000337652	0.00082168	520	520
C20orf199	-0.156647852	0.000336196	0.00081843	520	520
PPIP5K1	-0.1566545	0.000335997	0.00081804	520	520
NOL10	-0.156660303	0.000335824	0.00081772	520	520
GUCA2B	-0.156689771	0.000334946	0.00081578	520	122
SKA1	-0.156744348	0.000333326	0.00081213	520	520
ZNF497	-0.156776556	0.000332373	0.0008102	520	520
GARNL3	-0.156778954	0.000332302	0.00081012	520	520
RPS25	-0.156799436	0.000331697	0.00080885	520	520
GCLC	-0.156862131	0.000329853	0.00080454	520	520
NEK2	-0.156865331	0.00032976	0.00080451	520	520
DAPK2	-0.156873279	0.000329527	0.00080404	520	520
CYP4F3	-0.156940404	0.000327565	0.00079945	520	513
TFDP2	-0.157021058	0.000325222	0.00079402	520	520
GBAP1	-0.157059303	0.000324116	0.00079151	520	520
DKFZp761E198	-0.15708006	0.000323518	0.00079014	520	520
FBXL19	-0.157084221	0.000323398	0.00078995	520	520
C1orf213	-0.157092927	0.000323147	0.00078952	520	520
APEH	-0.157117467	0.000322442	0.0007879	520	520
GUK1	-0.157121869	0.000322316	0.00078778	520	520
EPPK1	-0.157126509	0.000322182	0.00078755	520	520
TOMM7	-0.157184285	0.000320528	0.0007837	520	520
HSPA4L	-0.157215627	0.000319634	0.0007816	520	520
TRIT1	-0.157262684	0.000318297	0.00077862	520	520
TMEM70	-0.157296936	0.000317326	0.00077643	520	520
ZCCHC8	-0.157300643	0.000317221	0.00077627	520	520
SLC25A26	-0.157302281	0.000317175	0.00077625	520	520
C16orf42	-0.157333905	0.000316112	0.00077402	520	520
FKBP2	-0.157348979	0.000315857	0.00077359	520	520
C10orf113	-0.15737566	0.000315106	0.00077193	520	100
ERH	-0.157383645	0.000314881	0.00077148	520	520
HIST1H1B	-0.157387798	0.000314765	0.00077138	520	512
FANCA	-0.157389432	0.000314719	0.00077136	520	520

HINT3	-0.15742361	0.000313761	0.00076911	520	520
RPL13AP6	-0.157427905	0.00031364	0.00076891	520	520
LOC285629	-0.157454743	0.00031289	0.00076735	520	512
HIST1H3A	-0.15747183	0.000312413	0.00076627	520	417
PPP2R3B	-0.157547794	0.000310302	0.00076128	520	520
ATP6V0B	-0.157562616	0.000309891	0.00076036	520	520
ZRANB2	-0.157568565	0.000309727	0.00076005	520	520
PGLYRP4	-0.157599034	0.000308885	0.00075817	520	516
CENPK	-0.157713408	0.000305744	0.0007511	520	520
CWC27	-0.157741079	0.000304989	0.00074936	520	520
SH2B1	-0.15781893	0.000302873	0.00074441	520	520
CCBL1	-0.157838169	0.000302353	0.00074322	520	520
TOMM22	-0.15785414	0.000301921	0.00074225	520	520
RUVBL2	-0.157894874	0.000300823	0.00073964	520	520
DEPDC4	-0.157928564	0.000299917	0.00073759	520	519
NT5DC1	-0.157938576	0.000299648	0.00073702	520	520
SLC24A6	-0.157993671	0.000298174	0.00073366	520	520
FANCD2	-0.158094398	0.000295496	0.00072716	520	520
NAPB	-0.158164911	0.000293635	0.00072276	520	520
RALGAPA1	-0.158176646	0.000293326	0.00072209	520	520
YIPF1	-0.15819045	0.000292964	0.00072137	520	520
ZDHHC21	-0.15824656	0.000291494	0.00071784	520	520
NFE2L2	-0.158334815	0.000289196	0.00071253	520	520
VARS2	-0.158453065	0.000286143	0.00070527	520	520
NFKBIL2	-0.158465563	0.000285822	0.00070473	520	520
ACAT2	-0.158509427	0.000284698	0.00070213	520	520
TMEM14B	-0.158536003	0.000284019	0.00070063	520	520
C19orf70	-0.15856461	0.000283291	0.00069901	520	520
UCKL1AS	-0.158585456	0.000282761	0.00069778	520	520
PFN3	-0.158589067	0.000282669	0.00069764	520	86
ACP6	-0.158612696	0.000282069	0.00069633	520	520
RAN	-0.158724943	0.000279238	0.00068976	520	520
BLK	-0.158744735	0.000278741	0.00068871	520	488
RELL2	-0.158746864	0.000278688	0.00068866	520	520
NKX2-4	-0.158902939	0.000274801	0.00067939	520	102
TMPO	-0.158913022	0.000274552	0.00067886	520	520
PKLR	-0.159020182	0.000271916	0.0006725	520	414
RPL23P8	-0.159023979	0.000271823	0.00067235	520	520
HDAC11	-0.159055291	0.000271057	0.00067054	520	520
SLC16A11	-0.159096363	0.000270056	0.00066823	520	518
GIPC2	-0.159159472	0.000268524	0.00066468	520	517
RNF126P1	-0.159162113	0.00026846	0.00066461	520	509
EED	-0.159255111	0.000266218	0.00065938	520	520
ZDHHC18	-0.159267918	0.00026591	0.0006587	520	520
RRM2	-0.15930658	0.000264985	0.00065657	520	520
RPS5	-0.159317522	0.000264723	0.00065608	520	520

DYNLRB1	-0.159373254	0.000263395	0.00065294	520	520
DKFZP586I1420	-0.159376641	0.000263314	0.00065283	520	520
TRMT2A	-0.159392445	0.000262939	0.00065206	520	520
C19orf23	-0.159443267	0.000261735	0.00064915	520	519
SEMA4D	-0.159489496	0.000260645	0.00064669	520	520
FOXE3	-0.159490675	0.000260617	0.00064669	520	412
PIN1	-0.159518913	0.000259953	0.00064513	520	520
UPK1B	-0.159594087	0.000258193	0.000641	520	496
COBRA1	-0.15964606	0.000256983	0.00063823	520	520
SLCO6A1	-0.15966506	0.000256542	0.00063721	520	383
KRT27	-0.159720473	0.000255259	0.00063419	520	312
YJEFN3	-0.159748907	0.000254604	0.00063279	520	513
ZNF688	-0.159876598	0.000251679	0.00062575	520	520
KRT2	-0.159884796	0.000251492	0.00062536	520	470
CPT1B	-0.159910469	0.000250908	0.00062407	520	520
LETMD1	-0.159965606	0.000249658	0.00062111	520	520
ZCWPW1	-0.159997157	0.000248946	0.00061949	520	520
MGC16275	-0.160003257	0.000248808	0.00061923	520	520
PRPSAP1	-0.160034296	0.000248109	0.00061756	520	520
FAM182A	-0.160117264	0.00024625	0.00061324	520	348
C1orf106	-0.160228156	0.000243786	0.0006074	520	520
FABP5L3	-0.160260222	0.000243078	0.00060594	520	475
SST	-0.16033003	0.000241543	0.00060226	520	294
AMY1A	-0.160351257	0.000241078	0.00060117	520	444
TSSK3	-0.160413259	0.000239725	0.0005981	520	518
C1orf226	-0.160422543	0.000239523	0.00059767	520	520
CAMSAP1	-0.160448564	0.000238957	0.00059646	520	520
CLK1	-0.160493269	0.000237989	0.00059413	520	520
HSH2D	-0.160523899	0.000237327	0.00059263	520	520
PLEKHA7	-0.160615029	0.000235369	0.0005881	520	520
SEC1	-0.160660125	0.000234406	0.00058584	520	512
NUDT19	-0.160683977	0.000233898	0.00058472	520	520
C7orf30	-0.16069948	0.000233568	0.00058404	520	520
ANKRD34B	-0.160779633	0.000231871	0.00057994	520	369
ALG1L2	-0.16078519	0.000231754	0.00057972	520	331
SKA2	-0.160785421	0.000231749	0.00057972	520	520
CCDC78	-0.16080715	0.000231291	0.0005787	520	517
MKKS	-0.160861971	0.00023014	0.00057603	520	520
ACADVL	-0.160966631	0.000227956	0.00057071	520	520
PYGO2	-0.16097271	0.00022783	0.00057047	520	520
RPP30	-0.160992195	0.000227426	0.00056952	520	520
CCDC88C	-0.160994304	0.000227382	0.00056949	520	520
EDARADD	-0.161009789	0.000227061	0.00056886	520	520
ISG20	-0.161034279	0.000226555	0.0005677	520	520
SIRT6	-0.161090231	0.000225402	0.00056488	520	520
KIAA1671	-0.161136098	0.000224462	0.00056259	520	520

RNF135	-0.161140677	0.000224368	0.00056243	520	520
NOC2L	-0.161179086	0.000223583	0.00056067	520	520
LGALS9C	-0.161253128	0.000222078	0.00055696	520	519
RBM4	-0.161258226	0.000221974	0.00055677	520	520
STK11	-0.161293303	0.000221265	0.00055506	520	520
ALKBH4	-0.161294771	0.000221235	0.00055506	520	520
C3orf35	-0.161336856	0.000220387	0.000553	520	500
KIF11	-0.161344252	0.000220238	0.00055276	520	520
C9orf152	-0.161410531	0.000218909	0.00054956	520	457
MAST1	-0.161470041	0.000217722	0.00054679	520	520
WDR87	-0.161487208	0.000217381	0.000546	520	211
ERN2	-0.161492034	0.000217285	0.00054582	520	417
TBC1D22B	-0.161516872	0.000216792	0.00054472	520	520
C2orf55	-0.16151913	0.000216747	0.00054468	520	520
NUDT14	-0.161597554	0.000215199	0.00054099	520	520
KIR2DL4	-0.161658244	0.000214007	0.00053813	520	497
RNF187	-0.161667277	0.000213831	0.00053782	520	520
ABCF3	-0.161698208	0.000213226	0.00053643	520	520
POLE3	-0.161700084	0.00021319	0.00053641	520	520
FANCC	-0.161703326	0.000213127	0.00053631	520	520
MST1P9	-0.161706679	0.000213061	0.00053622	520	514
HMOX2	-0.16171788	0.000212843	0.00053573	520	520
METTL9	-0.161735539	0.000212499	0.00053494	520	520
HAUS3	-0.161763866	0.000211949	0.00053368	520	520
IKZF2	-0.161797955	0.000211289	0.00053229	520	520
PARP2	-0.161822091	0.000210822	0.00053124	520	520
INO80B	-0.161827149	0.000210725	0.00053106	520	520
KIFC2	-0.161827433	0.000210719	0.00053106	520	520
RASA4P	-0.161872123	0.000209858	0.00052921	520	520
STRADA	-0.161875421	0.000209795	0.00052912	520	520
ZFAND6	-0.161887356	0.000209566	0.00052861	520	520
SYT2	-0.161892814	0.000209461	0.00052841	520	514
TRAF4	-0.16193533	0.000208647	0.00052642	520	520
CLPP	-0.161947277	0.000208418	0.00052591	520	520
NCAPH2	-0.161951501	0.000208338	0.00052577	520	520
RACGAP1P	-0.161952602	0.000208317	0.00052577	520	515
NUDT22	-0.162064651	0.000206188	0.0005208	520	520
GJB4	-0.162082069	0.000205859	0.00052004	520	518
DBF4	-0.162104393	0.000205438	0.0005191	520	520
RPL15	-0.162108923	0.000205353	0.00051895	520	520
LPIN3	-0.162109161	0.000205348	0.00051895	520	520
RNF32	-0.162160212	0.000204389	0.00051665	520	520
FZD5	-0.162187538	0.000203877	0.00051555	520	520
TTC13	-0.162192153	0.00020379	0.00051539	520	520
PD XK	-0.162207805	0.000203498	0.00051485	520	520
CHMP4B	-0.1622351	0.000202989	0.00051375	520	520

DUSP28	-0.16224551	0.000202795	0.00051333	520	520
MST1R	-0.162384736	0.000200219	0.00050693	520	520
RWDD1	-0.16240904	0.000199772	0.00050587	520	520
MTCH2	-0.162457055	0.000198893	0.00050376	520	520
DYDC2	-0.162592099	0.000196438	0.00049805	520	376
TCP11	-0.162595072	0.000196385	0.00049798	520	422
PPIL3	-0.162618659	0.000195959	0.00049696	520	520
BRD7	-0.162657067	0.000195268	0.00049545	520	520
PLEKHM1	-0.16265949	0.000195224	0.00049541	520	520
LOC91316	-0.16270325	0.00019444	0.0004936	520	520
TRPM4	-0.162763793	0.000193359	0.00049092	520	520
ZNF839	-0.162804042	0.000192644	0.00048917	520	520
EFNA4	-0.1628854	0.000191205	0.00048564	520	520
C1orf112	-0.162986693	0.000189429	0.00048118	520	520
C6orf70	-0.163080383	0.000187799	0.00047729	520	520
SYNGR3	-0.163098812	0.00018748	0.00047659	520	519
GOT2	-0.163107937	0.000187322	0.00047625	520	520
PTPN3	-0.163136743	0.000186825	0.00047505	520	520
ZNF33A	-0.163139209	0.000186783	0.000475	520	520
TEPP	-0.163159121	0.00018644	0.00047425	520	424
SERPINB10	-0.163175898	0.000186151	0.00047358	520	426
KCTD6	-0.163242408	0.000185012	0.00047074	520	520
BCR	-0.163250212	0.000184879	0.00047052	520	520
SECISBP2	-0.163255472	0.000184789	0.00047035	520	520
CYP4F2	-0.163278614	0.000184394	0.0004694	520	397
GLTSCR2	-0.163285326	0.00018428	0.00046917	520	520
IFRD2	-0.163296499	0.00018409	0.00046875	520	520
PTCD3	-0.163306223	0.000183925	0.00046838	520	520
RPL22L1	-0.16331057	0.000183851	0.00046825	520	520
NOP56	-0.163453143	0.000181445	0.0004623	520	520
HARS	-0.163497426	0.000180704	0.00046059	520	520
SUZ12P	-0.163508028	0.000180527	0.00046019	520	520
SPATA24	-0.163591094	0.000179145	0.00045696	520	520
SGEF	-0.163677724	0.000177715	0.00045348	520	518
C11orf1	-0.163722652	0.000176977	0.00045172	520	520
MECR	-0.163777816	0.000176075	0.00044959	520	520
RAB3IP	-0.163778109	0.00017607	0.00044959	520	520
WDR16	-0.163814825	0.000175473	0.00044827	520	478
COG4	-0.163839599	0.00017507	0.00044736	520	520
FLJ40330	-0.163841078	0.000175046	0.00044736	520	510
FAM200B	-0.163893287	0.000174202	0.00044531	520	520
SLCO4A1	-0.163910492	0.000173924	0.00044471	520	520
MUTYH	-0.163928599	0.000173633	0.00044408	520	520
LPCAT4	-0.163943964	0.000173385	0.0004435	520	520
TMEM97	-0.163954888	0.00017321	0.00044311	520	520
IRX5	-0.164001043	0.00017247	0.00044133	520	520

S100A3	-0.164036425	0.000171905	0.00044	520	520
MUC16	-0.164038766	0.000171868	0.00043996	520	513
UBE2N	-0.164063174	0.000171479	0.00043913	520	520
RPIA	-0.164071532	0.000171346	0.00043896	520	520
ZFYVE21	-0.164112254	0.0001707	0.00043736	520	520
SLC25A19	-0.16415253	0.000170063	0.00043584	520	520
MRPL45	-0.164180615	0.000169621	0.00043476	520	520
TMEM177	-0.164212617	0.000169117	0.00043352	520	520
PEX11G	-0.164272693	0.000168177	0.00043116	520	520
GGH	-0.16427682	0.000168112	0.00043105	520	520
MUC13	-0.164376245	0.000166566	0.00042731	520	443
NCAPG	-0.164397422	0.000166239	0.00042658	520	520
AFTPH	-0.164419976	0.000165891	0.00042574	520	520
RNF181	-0.164440954	0.000165567	0.00042502	520	520
GPLD1	-0.164461829	0.000165246	0.00042425	520	493
CDH1	-0.164478556	0.00016499	0.00042375	520	520
RAB5B	-0.164495527	0.000164729	0.00042313	520	520
MTIF2	-0.164540389	0.000164044	0.00042143	520	520
KIAA1598	-0.164585383	0.000163358	0.00041977	520	520
LSM1	-0.164601688	0.000163111	0.00041924	520	520
FBRS	-0.16462339	0.000162782	0.00041851	520	520
NCRNA00114	-0.164625207	0.000162754	0.00041851	520	130
BCS1L	-0.164657819	0.000162261	0.00041754	520	520
C7orf55	-0.164662016	0.000162197	0.00041743	520	520
CSNK1A1	-0.164741685	0.000160999	0.0004145	520	520
TXNDC9	-0.164764246	0.000160661	0.00041368	520	520
DENR	-0.164785045	0.00016035	0.00041299	520	520
TIMM9	-0.164819233	0.00015984	0.00041173	520	520
MSLN	-0.164908161	0.000158521	0.00040859	520	517
DHPS	-0.164997388	0.000157207	0.00040541	520	520
NUDT18	-0.165046536	0.000156488	0.00040366	520	520
TUBBP5	-0.165095154	0.00015578	0.00040195	520	501
SGSM3	-0.165133922	0.000155217	0.00040064	520	520
RASGRP1	-0.165136189	0.000155185	0.00040061	520	520
EIF3M	-0.16520581	0.000154179	0.00039811	520	520
MST1	-0.165206416	0.00015417	0.00039811	520	520
BOLA1	-0.165235428	0.000153753	0.00039712	520	520
HSD17B4	-0.165235847	0.000153747	0.00039712	520	520
GRHPR	-0.165261258	0.000153383	0.00039626	520	520
TXNL4B	-0.165345456	0.000152181	0.00039326	520	520
C12orf44	-0.165461942	0.000150533	0.0003891	520	520
C19orf24	-0.165507039	0.000149899	0.00038751	520	520
MRS2	-0.165511713	0.000149834	0.00038739	520	520
NDUFC2	-0.165529276	0.000149588	0.0003868	520	520
MPPE1	-0.165543892	0.000149383	0.00038637	520	520
PGAP3	-0.165688387	0.000147377	0.00038143	520	520

OBFC2B	-0.165705408	0.000147142	0.00038087	520	520
ACY3	-0.165718751	0.000146958	0.00038044	520	516
NHP2L1	-0.165725116	0.000146871	0.00038026	520	520
CSTF2	-0.165756134	0.000146445	0.00037931	520	520
PPAPDC2	-0.165955001	0.00014374	0.00037259	520	520
ELOF1	-0.166008296	0.000143024	0.00037088	520	520
FAM96A	-0.166038084	0.000142624	0.00036989	520	520
MSGN1	-0.166050982	0.000142452	0.00036949	520	266
TMEM14A	-0.166104521	0.000141738	0.00036768	520	520
NME2	-0.166157653	0.000141033	0.0003659	520	520
ARFGAP2	-0.166162638	0.000140967	0.00036578	520	520
ABCA5	-0.16617938	0.000140745	0.00036525	520	520
IL17A	-0.16620696	0.000140381	0.0003644	520	351
NSA2	-0.16620868	0.000140359	0.00036439	520	520
MAD2L1BP	-0.166250516	0.000139808	0.00036305	520	520
NDRG2	-0.166287241	0.000139327	0.00036185	520	520
CXorf26	-0.166340602	0.00013863	0.00036018	520	520
POU4F1	-0.166342242	0.000138608	0.00036017	520	398
LGALS7B	-0.166375562	0.000138175	0.00035913	520	518
PRKX	-0.166379163	0.000138128	0.00035906	520	520
TTC15	-0.166433437	0.000137425	0.00035728	520	520
C6orf41	-0.166460824	0.000137072	0.00035645	520	511
ZNF534	-0.166471051	0.00013694	0.00035615	520	518
TEX10	-0.166482806	0.000136788	0.00035581	520	520
CEPT1	-0.166526522	0.000136227	0.00035444	520	520
GYS2	-0.166537517	0.000136086	0.00035412	520	332
CCDC11	-0.166543568	0.000136009	0.00035396	520	519
KRTAP5-5	-0.166546073	0.000135977	0.00035392	520	94
CDC45	-0.166583795	0.000135495	0.00035271	520	520
DNASE1L2	-0.166614129	0.000135109	0.00035189	520	516
CEACAM19	-0.166615027	0.000135097	0.00035189	520	520
LOC284578	-0.166616755	0.000135075	0.00035189	520	398
MORN2	-0.166687084	0.000134184	0.00034962	520	520
C3orf31	-0.166732708	0.000133608	0.00034822	520	520
C14orf147	-0.16675382	0.000133343	0.00034761	520	520
C2CD4D	-0.166767502	0.000133171	0.0003472	520	518
KCNK6	-0.166873277	0.00013185	0.00034394	520	520
EIF3IP1	-0.166892864	0.000131607	0.00034339	520	471
C2orf7	-0.166952591	0.000130868	0.00034155	520	520
TBL3	-0.167001247	0.000130269	0.00034003	520	520
MPHOSPH10	-0.167016833	0.000130077	0.00033957	520	520
RPSA	-0.167248182	0.000127267	0.00033267	520	520
KIAA0319	-0.167265742	0.000127056	0.00033216	520	501
FBXW4	-0.167314994	0.000126466	0.00033075	520	520
TDRD7	-0.167347759	0.000126075	0.00032981	520	520
CCDC34	-0.167371326	0.000125794	0.00032912	520	520

CD24	-0.167404269	0.000125403	0.00032814	520	520
PPIF	-0.167410627	0.000125328	0.00032798	520	520
UBE2MP1	-0.167567712	0.000123479	0.00032327	520	520
MFAP1	-0.167608778	0.000123	0.00032206	520	520
WDR18	-0.167615632	0.00012292	0.00032189	520	520
ATAD3A	-0.167619461	0.000122876	0.00032182	520	520
KRT23	-0.167655546	0.000122457	0.00032076	520	519
SPATA21	-0.167698212	0.000121963	0.00031955	520	146
PDCD4	-0.167743655	0.000121439	0.0003183	520	520
MFSD6	-0.167761105	0.000121238	0.00031782	520	520
RPS19BP1	-0.167844267	0.000120286	0.0003154	520	520
DNAJB1	-0.16790338	0.000119614	0.00031368	520	520
C12orf65	-0.167930155	0.000119311	0.00031301	520	520
ACBD7	-0.168025909	0.000118232	0.00031022	520	519
SERGEF	-0.168028081	0.000118208	0.00031019	520	520
KPTN	-0.168074157	0.000117692	0.00030892	520	520
PEX11A	-0.168095396	0.000117455	0.00030838	520	520
DCAF15	-0.168098049	0.000117425	0.00030834	520	520
SFRS1	-0.168115008	0.000117236	0.00030793	520	520
MMAA	-0.168194096	0.000116359	0.00030578	520	520
C1orf57	-0.168196328	0.000116334	0.00030576	520	520
FAM126B	-0.168208351	0.000116202	0.00030545	520	520
METTL5	-0.168246329	0.000115783	0.00030443	520	520
VILL	-0.168247112	0.000115775	0.00030443	520	520
MCRS1	-0.16826276	0.000115603	0.00030407	520	520
EPN2	-0.168363083	0.000114506	0.00030138	520	520
POLL	-0.168388209	0.000114232	0.00030074	520	520
NAPG	-0.16840467	0.000114054	0.00030031	520	520
MTMR1	-0.168460355	0.000113451	0.0002988	520	520
C1D	-0.168461384	0.00011344	0.0002988	520	520
NOL8	-0.168528496	0.000112718	0.00029707	520	520
PLD2	-0.16854655	0.000112525	0.00029663	520	520
GPATCH3	-0.168563526	0.000112343	0.00029619	520	520
HAP1	-0.16865739	0.000111343	0.00029371	520	519
IFI27L1	-0.168676827	0.000111137	0.00029321	520	520
FAM53B	-0.168678275	0.000111122	0.0002932	520	520
TUFT1	-0.168680585	0.000111098	0.00029318	520	520
BEST2	-0.168727006	0.000110607	0.000292	520	459
CEP76	-0.168742694	0.000110442	0.0002916	520	520
ANKMY1	-0.16875025	0.000110363	0.00029143	520	520
MTERFD3	-0.168817622	0.000109657	0.00028968	520	520
ETF1	-0.168828117	0.000109547	0.00028946	520	520
CROCC	-0.168834513	0.00010948	0.00028933	520	520
PNN	-0.168851681	0.000109301	0.00028889	520	520
RECQL4	-0.168903368	0.000108764	0.00028751	520	520
GSDMC	-0.169053588	0.000107216	0.00028357	520	520

RRP7B	-0.169078748	0.000106959	0.00028292	520	520
SEC14L5	-0.169166736	0.000106064	0.00028063	520	516
SHMT2	-0.169181752	0.000105912	0.00028026	520	520
FBXO24	-0.169252198	0.000105202	0.00027842	520	517
FAM165B	-0.169263844	0.000105085	0.00027815	520	520
CDK9	-0.169276934	0.000104953	0.00027785	520	520
POU5F1B	-0.169347878	0.000104244	0.00027603	520	520
TCEB1	-0.169424726	0.000103481	0.00027415	520	520
MKS1	-0.169466923	0.000103064	0.00027309	520	520
MED9	-0.169477601	0.000102959	0.00027284	520	520
SRD5A1	-0.169494407	0.000102793	0.00027244	520	520
UBE2K	-0.169494711	0.00010279	0.00027244	520	520
CCNH	-0.169516049	0.000102581	0.00027198	520	520
COPS3	-0.169533184	0.000102413	0.00027157	520	520
LYAR	-0.169535203	0.000102393	0.00027156	520	520
MEIG1	-0.169657452	0.000101201	0.00026854	520	363
EXOC1	-0.16966587	0.00010112	0.00026836	520	520
SLTM	-0.169706541	0.000100727	0.00026742	520	520
PWWP2B	-0.169707298	0.000100719	0.00026742	520	520
FAM153A	-0.169783892	1.00E-04	0.00026555	520	389
DEDD2	-0.169826927	9.96E-05	0.00026453	520	520
LMAN2	-0.169840866	9.94E-05	0.00026421	520	520
CD177	-0.169901937	9.89E-05	0.00026284	520	519
HRASLS	-0.169932674	9.86E-05	0.0002621	520	506
DHX34	-0.169938552	9.85E-05	0.00026199	520	520
PPP2R2D	-0.169943409	9.85E-05	0.0002619	520	520
EEF1G	-0.16996999	9.82E-05	0.00026127	520	520
LOC100132832	-0.170001097	9.79E-05	0.00026056	520	512
TAF10	-0.170041038	9.75E-05	0.00025963	520	520
RNF207	-0.170130456	9.67E-05	0.00025754	520	520
WDR59	-0.170171237	9.63E-05	0.00025661	520	520
SH3YL1	-0.170210369	9.60E-05	0.00025574	520	520
TTLL9	-0.170210899	9.60E-05	0.00025574	520	514
GFOD2	-0.170239777	9.57E-05	0.00025509	520	520
TTLL10	-0.170249209	9.56E-05	0.00025489	520	455
HAUS7	-0.170296135	9.52E-05	0.00025381	520	520
ATAD3B	-0.170377502	9.44E-05	0.00025187	520	520
NEIL1	-0.170395635	9.43E-05	0.00025146	520	520
SNORA7B	-0.170424621	9.40E-05	0.0002508	520	498
GOLGA6L10	-0.170479144	9.35E-05	0.00024955	520	520
C3orf42	-0.17051251	9.32E-05	0.00024882	520	518
VDAC1	-0.170528906	9.31E-05	0.00024849	520	520
PRDM13	-0.170551593	9.29E-05	0.00024805	520	389
GNMT	-0.170558199	9.28E-05	0.00024792	520	505
LOC100272228	-0.170612404	9.23E-05	0.0002467	520	519
UCK1	-0.170653822	9.20E-05	0.00024578	520	520

BOLA3	-0.170685397	9.17E-05	0.0002451	520	520
PPP2CB	-0.170692976	9.16E-05	0.00024495	520	520
TCTEX1D2	-0.170750025	9.11E-05	0.00024367	520	520
DHODH	-0.170761515	9.10E-05	0.00024344	520	520
TRIM14	-0.170764346	9.10E-05	0.0002434	520	520
RPS4X	-0.170775362	9.09E-05	0.00024318	520	520
KIAA0664P3	-0.17080451	9.06E-05	0.00024253	520	520
SORD	-0.170807784	9.06E-05	0.00024248	520	520
UPK3B	-0.170912312	8.97E-05	0.00024015	520	516
OVGP1	-0.170944809	8.94E-05	0.00023946	520	520
FLJ35024	-0.171061197	8.84E-05	0.00023694	520	505
LMNB1	-0.171094768	8.81E-05	0.00023624	520	520
CSK	-0.171119824	8.79E-05	0.00023576	520	520
SCAMP2	-0.171126246	8.79E-05	0.00023565	520	520
HMGCR	-0.171141771	8.77E-05	0.00023532	520	520
ANKRD37	-0.171173063	8.75E-05	0.00023468	520	520
TMEM85	-0.171178421	8.74E-05	0.00023459	520	520
FLJ45244	-0.171279503	8.66E-05	0.00023246	520	520
CDKN2AIPNL	-0.171330871	8.62E-05	0.00023146	520	520
C14orf184	-0.171398164	8.56E-05	0.00022999	520	304
AGAP7	-0.171403112	8.56E-05	0.00022991	520	518
TRPM6	-0.171414747	8.55E-05	0.00022969	520	517
ZIC2	-0.171447079	8.52E-05	0.000229	520	519
SLC10A1	-0.171455113	8.51E-05	0.00022885	520	221
SNX31	-0.171482789	8.49E-05	0.0002283	520	485
CDCA3	-0.17153625	8.45E-05	0.00022718	520	520
TDRG1	-0.171554802	8.43E-05	0.00022681	520	270
LOC100130987	-0.171579882	8.41E-05	0.00022629	520	517
NDUFS8	-0.17159246	8.40E-05	0.00022604	520	520
CCNE2	-0.171605835	8.39E-05	0.00022578	520	520
LOC143666	-0.171619555	8.38E-05	0.00022554	520	520
ZNF346	-0.171696863	8.32E-05	0.00022392	520	520
LOC400931	-0.171697044	8.32E-05	0.00022392	520	520
NCRNA00202	-0.171754388	8.27E-05	0.00022273	520	480
STAG3L3	-0.171779223	8.25E-05	0.00022225	520	520
FAM134C	-0.171792996	8.24E-05	0.00022202	520	520
NADSYN1	-0.171794262	8.24E-05	0.00022202	520	520
TBCC	-0.171826103	8.21E-05	0.00022137	520	520
THAP4	-0.171857121	8.19E-05	0.00022073	520	520
ZNF18	-0.171967098	8.10E-05	0.00021848	520	520
METTL2A	-0.172004502	8.07E-05	0.00021771	520	520
POLR2J	-0.172032789	8.05E-05	0.00021717	520	520
ADAD2	-0.172094116	8.00E-05	0.00021591	520	499
CCDC22	-0.172101726	8.00E-05	0.00021581	520	520
TRAPPC5	-0.172106831	7.99E-05	0.00021573	520	520
PWRN2	-0.172154551	7.95E-05	0.00021482	520	73

DECR2	-0.172213824	7.91E-05	0.00021365	520	520
MED31	-0.172233177	7.89E-05	0.00021327	520	520
BRIX1	-0.172244864	7.88E-05	0.00021306	520	520
KLHDC9	-0.172246929	7.88E-05	0.00021305	520	507
LOC100131434	-0.172279125	7.86E-05	0.00021244	520	519
KRTCAP3	-0.17229306	7.85E-05	0.00021218	520	520
ISOC2	-0.172469513	7.71E-05	0.00020871	520	520
TTC22	-0.172475511	7.71E-05	0.00020862	520	520
FASTK	-0.172487077	7.70E-05	0.00020841	520	520
C19orf56	-0.172490051	7.70E-05	0.00020838	520	520
SLC4A5	-0.172500272	7.69E-05	0.0002082	520	520
C7orf47	-0.17256671	7.64E-05	0.00020691	520	520
CAPN10	-0.172604435	7.61E-05	0.00020621	520	520
ANKRD13D	-0.172657343	7.57E-05	0.00020518	520	520
TAPT1	-0.172665903	7.57E-05	0.00020503	520	520
GRK6	-0.172694519	7.55E-05	0.00020449	520	520
AMH	-0.17272735	7.52E-05	0.00020389	520	487
C9orf119	-0.172745351	7.51E-05	0.00020356	520	520
EIF3CL	-0.172768616	7.49E-05	0.00020316	520	520
TTLL13	-0.172777272	7.49E-05	0.00020301	520	520
WDR76	-0.172781282	7.48E-05	0.00020296	520	520
TREH	-0.172822104	7.45E-05	0.00020221	520	176
MAPKSP1	-0.172851099	7.43E-05	0.00020169	520	520
ATP6V1C2	-0.17285281	7.43E-05	0.00020168	520	520
LOC388796	-0.172896816	7.40E-05	0.00020087	520	520
MZF1	-0.172983014	7.34E-05	0.00019933	520	520
MCM10	-0.173018052	7.31E-05	0.00019873	520	520
PPIAL4G	-0.17315129	7.22E-05	0.00019619	520	520
FARSA	-0.173237846	7.16E-05	0.00019459	520	520
SDCCAG3	-0.173257442	7.14E-05	0.00019424	520	520
WDR4	-0.173336064	7.09E-05	0.00019283	520	520
CRYGS	-0.173407957	7.04E-05	0.00019158	520	518
MAP7	-0.173455879	7.01E-05	0.00019074	520	520
TNFAIP8	-0.173470073	7.00E-05	0.0001905	520	520
FANCG	-0.173560101	6.94E-05	0.00018893	520	520
NUDT15	-0.173599601	6.91E-05	0.00018823	520	520
UBE2S	-0.173621678	6.89E-05	0.00018785	520	520
TRIP10	-0.173632672	6.89E-05	0.00018767	520	520
CLPX	-0.173650911	6.87E-05	0.00018736	520	520
NVL	-0.173655542	6.87E-05	0.0001873	520	520
OAS1	-0.173670486	6.86E-05	0.00018705	520	520
MKRN1	-0.173722361	6.83E-05	0.00018615	520	520
C1orf21	-0.173734542	6.82E-05	0.00018596	520	520
LOC338799	-0.173805139	6.77E-05	0.00018478	520	520
SAP30BP	-0.173809116	6.77E-05	0.00018473	520	520
NAGK	-0.173887708	6.72E-05	0.00018336	520	520

PRSS3	-0.173975055	6.66E-05	0.00018194	520	514
FN3KRP	-0.17399309	6.65E-05	0.00018165	520	520
NGLY1	-0.174032789	6.62E-05	0.00018096	520	520
POLR2F	-0.174057525	6.61E-05	0.00018055	520	520
UQCRC2	-0.174123087	6.56E-05	0.00017949	520	520
SMU1	-0.174151368	6.54E-05	0.00017902	520	520
FBXL15	-0.174168083	6.53E-05	0.00017875	520	520
MSLNL	-0.174177995	6.53E-05	0.0001786	520	220
PABPC1L	-0.174206833	6.51E-05	0.00017812	520	520
CCT8	-0.174218774	6.50E-05	0.00017798	520	520
RBBP6	-0.174252309	6.48E-05	0.00017742	520	520
CDC45	-0.17432844	6.43E-05	0.00017617	520	520
SPTBN2	-0.174338132	6.43E-05	0.00017602	520	520
GPR78	-0.174384786	6.40E-05	0.00017527	520	403
RAVER2	-0.174392048	6.39E-05	0.00017516	520	520
BCL2L10	-0.174392648	6.39E-05	0.00017516	520	512
DDB2	-0.174532316	6.30E-05	0.00017288	520	520
CBWD6	-0.174646618	6.23E-05	0.00017106	520	520
LRRC47	-0.174679018	6.21E-05	0.00017054	520	520
ETFB	-0.174819692	6.13E-05	0.00016826	520	520
MFSD4	-0.174902749	6.08E-05	0.00016691	520	520
LOC400891	-0.175053037	5.99E-05	0.00016457	520	262
ZNRF1	-0.175063368	5.98E-05	0.00016442	520	520
NUDC	-0.175191128	5.91E-05	0.00016247	520	520
RARRES3	-0.175279329	5.86E-05	0.00016113	520	520
MORC4	-0.175324901	5.83E-05	0.00016047	520	520
PPIAL4D	-0.175345257	5.82E-05	0.00016017	520	502
LOC729375	-0.175364052	5.81E-05	0.00015992	520	520
HIST1H1C	-0.175389774	5.79E-05	0.00015953	520	520
PFDN2	-0.175489408	5.74E-05	0.00015803	520	520
C1orf125	-0.175490226	5.74E-05	0.00015803	520	420
RDBP	-0.17552545	5.72E-05	0.00015751	520	520
PLAC8L1	-0.175604431	5.67E-05	0.00015631	520	439
CDKN2BAS	-0.17565833	5.64E-05	0.00015556	520	502
C8orf41	-0.17566802	5.64E-05	0.00015543	520	520
NRF1	-0.175686729	5.63E-05	0.00015519	520	520
CENPA	-0.175851524	5.53E-05	0.00015285	520	520
SERPINB8	-0.175877189	5.52E-05	0.00015252	520	520
SYPL1	-0.175895039	5.51E-05	0.00015229	520	520
TAF7L	-0.175979932	5.46E-05	0.00015103	520	476
PPM1G	-0.175993209	5.46E-05	0.00015086	520	520
ZNF44	-0.176034971	5.43E-05	0.00015029	520	520
FAM24B	-0.176069498	5.42E-05	0.00014984	520	518
DOC2A	-0.176147114	5.37E-05	0.00014879	520	495
PVRL1	-0.176172128	5.36E-05	0.00014844	520	520
LRRC26	-0.176183415	5.35E-05	0.0001483	520	335

ROGDI	-0.176213826	5.34E-05	0.00014787	520	520
SARS2	-0.176239228	5.33E-05	0.00014754	520	520
TGM6	-0.176297804	5.29E-05	0.00014676	520	312
BUB3	-0.176414236	5.23E-05	0.00014519	520	520
XRCC6BP1	-0.176486321	5.20E-05	0.00014424	520	520
C14orf179	-0.176520193	5.18E-05	0.00014377	520	520
C14orf129	-0.176544149	5.17E-05	0.00014345	520	520
KRT40	-0.176623172	5.13E-05	0.0001424	520	265
NOL11	-0.176658892	5.11E-05	0.00014192	520	520
SBSN	-0.176667365	5.10E-05	0.00014182	520	520
CIRBP	-0.176868844	5.00E-05	0.00013906	520	520
RPL13A	-0.176918124	4.98E-05	0.00013841	520	520
CYP4F22	-0.176922622	4.98E-05	0.00013837	520	516
SLC47A2	-0.176942772	4.97E-05	0.00013811	520	519
NOL3	-0.176946711	4.96E-05	0.00013808	520	520
BLOC1S2	-0.177198224	4.84E-05	0.00013484	520	520
SLC25A39	-0.177229053	4.83E-05	0.00013446	520	520
PNCK	-0.177259602	4.81E-05	0.00013409	520	515
GIPR	-0.177304982	4.79E-05	0.00013354	520	512
RPS26P11	-0.177324267	4.78E-05	0.0001333	520	432
LIM2	-0.177335354	4.77E-05	0.00013319	520	246
HMGCS1	-0.177356067	4.76E-05	0.00013297	520	520
VGLL1	-0.177371021	4.76E-05	0.00013281	520	497
C9orf173	-0.177391111	4.75E-05	0.00013256	520	275
PDCD2	-0.177396178	4.75E-05	0.00013251	520	520
SDHAF2	-0.177422283	4.73E-05	0.0001322	520	520
OVCA2	-0.177515468	4.69E-05	0.00013101	520	520
TRAFD1	-0.177619277	4.64E-05	0.00012969	520	520
QARS	-0.177659129	4.62E-05	0.00012925	520	520
SKP1	-0.177819179	4.55E-05	0.00012726	520	520
C12orf60	-0.177872842	4.52E-05	0.0001266	520	520
PLA2G4D	-0.177919745	4.50E-05	0.00012606	520	516
C13orf27	-0.177986721	4.47E-05	0.00012527	520	520
RNF126	-0.178072431	4.43E-05	0.00012425	520	520
DPCD	-0.178127536	4.41E-05	0.00012359	520	520
C14orf166	-0.178253183	4.35E-05	0.0001221	520	520
EME1	-0.178287092	4.34E-05	0.00012171	520	520
MTX2	-0.178362512	4.31E-05	0.00012083	520	520
TAF12	-0.178461707	4.26E-05	0.00011968	520	520
C1orf97	-0.178464146	4.26E-05	0.00011967	520	520
POLD1	-0.178488551	4.25E-05	0.00011941	520	520
TDH	-0.178571891	4.22E-05	0.00011851	520	441
NEDD8	-0.178628802	4.19E-05	0.0001179	520	520
FAM102A	-0.178631609	4.19E-05	0.00011788	520	520
SUV420H2	-0.178635847	4.19E-05	0.00011785	520	520
HPDL	-0.178659149	4.18E-05	0.00011759	520	520

TPD52L1	-0.178659419	4.18E-05	0.00011759	520	520
AP1G2	-0.178662099	4.18E-05	0.00011759	520	520
SNRNP40	-0.178684554	4.17E-05	0.00011734	520	520
C18orf22	-0.178690281	4.17E-05	0.00011729	520	520
CRCT1	-0.178792903	4.12E-05	0.00011613	520	513
GCFC1	-0.178861583	4.10E-05	0.00011539	520	520
DPM3	-0.178889428	4.08E-05	0.0001151	520	520
C19orf62	-0.179026421	4.03E-05	0.0001136	520	520
LY6G6C	-0.179061069	4.01E-05	0.00011322	520	518
RPS20	-0.179064197	4.01E-05	0.0001132	520	520
DCTN2	-0.179144397	3.98E-05	0.00011232	520	520
PTX4	-0.179378968	3.89E-05	0.00010977	520	294
ATG10	-0.179388403	3.88E-05	0.00010968	520	520
LOC100133331	-0.179392698	3.88E-05	0.00010965	520	520
ALOXE3	-0.179465594	3.85E-05	0.00010886	520	520
ERP44	-0.17946758	3.85E-05	0.00010885	520	520
NFKBIZ	-0.179505152	3.84E-05	0.00010845	520	520
SUB1	-0.17951793	3.83E-05	0.00010833	520	520
HN1	-0.179551124	3.82E-05	0.00010799	520	520
FAM125A	-0.179553728	3.82E-05	0.00010798	520	520
WRAP53	-0.179560955	3.82E-05	0.00010792	520	520
MAOA	-0.179582491	3.81E-05	0.00010771	520	520
FMO9P	-0.179720931	3.76E-05	0.00010627	520	399
FARS2	-0.179728426	3.75E-05	0.00010621	520	520
ESYT3	-0.179750085	3.74E-05	0.00010601	520	518
TMEM18	-0.179804045	3.72E-05	0.00010546	520	520
MEIS1	-0.179882456	3.69E-05	0.00010468	520	520
GPX2	-0.179886968	3.69E-05	0.00010465	520	519
PTS	-0.179897863	3.69E-05	0.00010455	520	520
UBE2CBP	-0.179959868	3.67E-05	0.00010391	520	520
E2F8	-0.179960213	3.67E-05	0.00010391	520	520
ODF3B	-0.180156824	3.59E-05	0.00010194	520	520
LOC25845	-0.180286035	3.55E-05	0.00010068	520	520
DAPP1	-0.180362016	3.52E-05	9.99E-05	520	520
C3orf24	-0.180388874	3.51E-05	9.97E-05	520	191
KRR1	-0.180403852	3.50E-05	9.96E-05	520	520
POLR1D	-0.180451423	3.49E-05	9.91E-05	520	520
CHMP4C	-0.180452033	3.49E-05	9.91E-05	520	519
PHB	-0.180452892	3.49E-05	9.91E-05	520	520
METTL4	-0.180525044	3.46E-05	9.85E-05	520	520
WBSCR16	-0.180571852	3.45E-05	9.81E-05	520	520
TACC3	-0.180593315	3.44E-05	9.79E-05	520	520
GTF2H5	-0.180644204	3.42E-05	9.75E-05	520	520
DCTPP1	-0.180655786	3.42E-05	9.74E-05	520	520
CD58	-0.180706482	3.40E-05	9.69E-05	520	520
CHCHD6	-0.18074682	3.38E-05	9.65E-05	520	520

LOC442454	-0.180761373	3.38E-05	9.64E-05	520	520
ADH1C	-0.180766046	3.38E-05	9.64E-05	520	436
CHCHD10	-0.180861619	3.34E-05	9.55E-05	520	520
NKX2-3	-0.180901727	3.33E-05	9.51E-05	520	406
POLD2	-0.180918122	3.33E-05	9.50E-05	520	520
HNRNPH1	-0.180958975	3.31E-05	9.47E-05	520	520
OR7E91P	-0.18098864	3.30E-05	9.44E-05	520	487
C8orf40	-0.181098388	3.27E-05	9.33E-05	520	520
PIPSL	-0.181162885	3.24E-05	9.27E-05	520	520
PARD3	-0.181178855	3.24E-05	9.26E-05	520	520
SC4MOL	-0.181225814	3.22E-05	9.22E-05	520	520
HS3ST1	-0.181244509	3.22E-05	9.21E-05	520	520
C1orf50	-0.181257596	3.21E-05	9.20E-05	520	520
LOC648740	-0.181300624	3.20E-05	9.16E-05	520	465
P2RX2	-0.181416509	3.16E-05	9.06E-05	520	316
CLDN17	-0.181510248	3.13E-05	8.97E-05	520	398
PCSK4	-0.181574781	3.11E-05	8.92E-05	520	519
SLC22A20	-0.181585937	3.11E-05	8.91E-05	520	519
ACOX3	-0.181587798	3.11E-05	8.91E-05	520	520
LOC284100	-0.181629611	3.09E-05	8.87E-05	520	448
FOXH1	-0.181678412	3.08E-05	8.83E-05	520	500
RAE1	-0.181679924	3.08E-05	8.83E-05	520	520
ANAPC11	-0.181687165	3.07E-05	8.83E-05	520	520
MIIP	-0.181695005	3.07E-05	8.82E-05	520	520
MRPL48	-0.181753036	3.05E-05	8.77E-05	520	520
WEE1	-0.181756917	3.05E-05	8.77E-05	520	520
LCT	-0.18176498	3.05E-05	8.76E-05	520	345
PCK2	-0.181766942	3.05E-05	8.76E-05	520	520
EIF4E	-0.181798401	3.04E-05	8.74E-05	520	520
RER1	-0.181802875	3.04E-05	8.73E-05	520	520
NKPD1	-0.181813375	3.04E-05	8.73E-05	520	520
RBX1	-0.181830838	3.03E-05	8.71E-05	520	520
MPHOSPH6	-0.181875777	3.02E-05	8.67E-05	520	520
MRPS18B	-0.181880329	3.01E-05	8.67E-05	520	520
DDT	-0.181938585	3.00E-05	8.63E-05	520	520
SMC1B	-0.181992326	2.98E-05	8.58E-05	520	472
SNAPC4	-0.182010033	2.97E-05	8.57E-05	520	520
NDUFV1	-0.182011142	2.97E-05	8.57E-05	520	520
RPL18A	-0.182040972	2.97E-05	8.54E-05	520	520
LUC7L	-0.182052736	2.96E-05	8.54E-05	520	520
CDC6	-0.182106868	2.95E-05	8.49E-05	520	520
FAM83D	-0.182108309	2.94E-05	8.49E-05	520	520
CISD1	-0.182162133	2.93E-05	8.45E-05	520	520
RPS23	-0.182174962	2.92E-05	8.44E-05	520	520
TESK2	-0.18219202	2.92E-05	8.42E-05	520	520
COMMD1	-0.182221952	2.91E-05	8.40E-05	520	520

PCBD1	-0.182256443	2.90E-05	8.37E-05	520	520
ATP6V0A1	-0.18230719	2.89E-05	8.33E-05	520	520
CWC25	-0.182308283	2.88E-05	8.33E-05	520	520
C19orf52	-0.182335696	2.88E-05	8.31E-05	520	520
NDUFA3	-0.1823394	2.88E-05	8.31E-05	520	520
TAF5	-0.18235875	2.87E-05	8.29E-05	520	520
REM2	-0.182368624	2.87E-05	8.29E-05	520	518
MTHFD2L	-0.182452068	2.84E-05	8.22E-05	520	520
MCM3	-0.182590993	2.80E-05	8.11E-05	520	520
ZNF767	-0.182736862	2.76E-05	8.00E-05	520	520
LIPE	-0.182739491	2.76E-05	8.00E-05	520	520
PAQR4	-0.182749383	2.76E-05	7.99E-05	520	520
GTPBP3	-0.182757062	2.75E-05	7.98E-05	520	520
WNT4	-0.182900291	2.71E-05	7.87E-05	520	520
TMEM86B	-0.182919633	2.71E-05	7.86E-05	520	520
GLO1	-0.182969484	2.70E-05	7.82E-05	520	520
PIGF	-0.183016347	2.68E-05	7.78E-05	520	520
NIF3L1	-0.183037762	2.68E-05	7.77E-05	520	520
PPP4R1	-0.183049441	2.67E-05	7.76E-05	520	520
YBX2	-0.183059992	2.67E-05	7.75E-05	520	487
NUP210	-0.183177938	2.64E-05	7.66E-05	520	520
MCTS1	-0.183194438	2.63E-05	7.65E-05	520	520
UBL7	-0.183297032	2.61E-05	7.57E-05	520	520
LOC148413	-0.183403513	2.58E-05	7.49E-05	520	520
EZR	-0.183420054	2.57E-05	7.48E-05	520	520
TRIM50	-0.183445047	2.57E-05	7.46E-05	520	415
MRPS10	-0.183464588	2.56E-05	7.45E-05	520	520
GRPEL1	-0.183550431	2.54E-05	7.39E-05	520	520
CIB1	-0.183568364	2.53E-05	7.37E-05	520	520
XK	-0.183759059	2.48E-05	7.23E-05	520	518
HIP1R	-0.183806284	2.47E-05	7.20E-05	520	520
PRIMA1	-0.18385673	2.46E-05	7.17E-05	520	516
RPL37	-0.183990412	2.43E-05	7.07E-05	520	520
SNAPIN	-0.184005897	2.42E-05	7.06E-05	520	520
CASZ1	-0.184049622	2.41E-05	7.03E-05	520	520
CDKN3	-0.18412395	2.39E-05	6.98E-05	520	520
TADA1	-0.184136851	2.39E-05	6.97E-05	520	520
EWSR1	-0.184137535	2.39E-05	6.97E-05	520	520
ZNF394	-0.184254933	2.36E-05	6.89E-05	520	520
KIF2C	-0.184258312	2.36E-05	6.89E-05	520	520
FAM135A	-0.184291345	2.35E-05	6.87E-05	520	520
FAM54A	-0.184300519	2.35E-05	6.86E-05	520	520
SPDYE7P	-0.184300662	2.35E-05	6.86E-05	520	512
LOC729991	-0.184319098	2.34E-05	6.85E-05	520	520
ATG4A	-0.184329065	2.34E-05	6.84E-05	520	520
ETFDH	-0.184411947	2.32E-05	6.79E-05	520	520

DSN1	-0.184609788	2.27E-05	6.66E-05	520	520
SNHG10	-0.184636941	2.27E-05	6.64E-05	520	520
TDP2	-0.184662278	2.26E-05	6.62E-05	520	520
PDDC1	-0.184723644	2.25E-05	6.58E-05	520	520
UTP3	-0.184732658	2.25E-05	6.58E-05	520	520
SCGB2A1	-0.184736064	2.24E-05	6.58E-05	520	301
PLA2G4F	-0.184785743	2.23E-05	6.54E-05	520	519
LOC100130933	-0.184787498	2.23E-05	6.54E-05	520	371
RTN3	-0.184816366	2.23E-05	6.53E-05	520	520
RPL31	-0.184828733	2.22E-05	6.52E-05	520	520
ORAI1	-0.184890932	2.21E-05	6.48E-05	520	520
SERAC1	-0.184899363	2.21E-05	6.47E-05	520	520
DHFR	-0.184966143	2.19E-05	6.43E-05	520	520
PLS1	-0.184966299	2.19E-05	6.43E-05	520	520
C12orf45	-0.185086003	2.16E-05	6.35E-05	520	520
ASNA1	-0.185144085	2.15E-05	6.32E-05	520	520
LOC441294	-0.185285626	2.12E-05	6.23E-05	520	520
SAMD1	-0.185302073	2.12E-05	6.22E-05	520	520
TXNDC17	-0.185351528	2.11E-05	6.19E-05	520	520
RSL24D1	-0.185376456	2.10E-05	6.17E-05	520	520
AURKB	-0.185397815	2.10E-05	6.16E-05	520	520
ERAL1	-0.185425327	2.09E-05	6.14E-05	520	520
CSPG5	-0.185501703	2.07E-05	6.10E-05	520	518
TOM1L2	-0.185604215	2.05E-05	6.04E-05	520	520
KCMF1	-0.185617627	2.05E-05	6.03E-05	520	520
CDC42EP4	-0.185718032	2.03E-05	5.97E-05	520	520
POLR2J3	-0.185725759	2.02E-05	5.96E-05	520	520
REXO4	-0.185773932	2.01E-05	5.94E-05	520	520
EIF2B4	-0.185857131	2.00E-05	5.89E-05	520	520
LOC286002	-0.185989703	1.97E-05	5.81E-05	520	355
NSMCE1	-0.186000474	1.97E-05	5.80E-05	520	520
COPE	-0.186030108	1.96E-05	5.79E-05	520	520
EPB41L4B	-0.186107054	1.95E-05	5.74E-05	520	520
ATP6V1F	-0.186126048	1.94E-05	5.73E-05	520	520
PFKFB1	-0.186186342	1.93E-05	5.70E-05	520	505
KIAA0895L	-0.186311646	1.90E-05	5.63E-05	520	520
RUSC1	-0.18638684	1.89E-05	5.59E-05	520	520
C15orf55	-0.186440223	1.88E-05	5.55E-05	520	330
C21orf70	-0.18653526	1.86E-05	5.50E-05	520	520
PPM1N	-0.186549803	1.86E-05	5.50E-05	520	520
MLX	-0.186568847	1.85E-05	5.49E-05	520	520
MED11	-0.186629045	1.84E-05	5.46E-05	520	520
PRINS	-0.186672011	1.83E-05	5.43E-05	520	475
TLK2	-0.186689084	1.83E-05	5.42E-05	520	520
SAFB	-0.186749566	1.82E-05	5.39E-05	520	520
C14orf162	-0.186772907	1.81E-05	5.38E-05	520	451

C7orf46	-0.186866268	1.80E-05	5.33E-05	520	518
PSRC1	-0.186877118	1.79E-05	5.32E-05	520	520
PAFAH1B3	-0.186912867	1.79E-05	5.31E-05	520	520
LOC728554	-0.18692383	1.79E-05	5.30E-05	520	520
CNKS3	-0.187043186	1.76E-05	5.24E-05	520	520
PGLS	-0.1870628	1.76E-05	5.23E-05	520	520
TRPT1	-0.18707466	1.76E-05	5.22E-05	520	520
AKAP8L	-0.187121505	1.75E-05	5.20E-05	520	520
GRIN2C	-0.187142654	1.75E-05	5.19E-05	520	520
KCTD9	-0.187245332	1.73E-05	5.14E-05	520	520
ZNF395	-0.187264803	1.72E-05	5.13E-05	520	520
STRC	-0.187318614	1.71E-05	5.10E-05	520	492
CHKB-CPT1B	-0.18736171	1.71E-05	5.08E-05	520	520
STOML2	-0.187363753	1.70E-05	5.08E-05	520	520
TEX264	-0.18737585	1.70E-05	5.07E-05	520	520
NME1	-0.187450791	1.69E-05	5.04E-05	520	520
PGP	-0.187531531	1.67E-05	5.00E-05	520	520
HDAC3	-0.18755463	1.67E-05	4.99E-05	520	520
ZIC5	-0.187571213	1.67E-05	4.98E-05	520	512
PLEKHG4	-0.187645256	1.65E-05	4.94E-05	520	520
TUBAL3	-0.187655286	1.65E-05	4.94E-05	520	517
CARD17	-0.187715003	1.64E-05	4.91E-05	520	483
C19orf6	-0.187724785	1.64E-05	4.90E-05	520	520
CYP4X1	-0.187759862	1.64E-05	4.88E-05	520	518
TOE1	-0.187775659	1.63E-05	4.88E-05	520	520
C1orf126	-0.187777166	1.63E-05	4.88E-05	520	517
SIRT5	-0.187784325	1.63E-05	4.87E-05	520	520
HEXIM2	-0.18780917	1.63E-05	4.86E-05	520	520
IDH2	-0.187814579	1.63E-05	4.86E-05	520	520
BUD31	-0.187865338	1.62E-05	4.84E-05	520	520
C8orf74	-0.187874602	1.62E-05	4.83E-05	520	55
GINS1	-0.188076218	1.58E-05	4.74E-05	520	520
CSTF3	-0.188091152	1.58E-05	4.73E-05	520	520
TXN2	-0.188145885	1.57E-05	4.70E-05	520	520
PLAC4	-0.188169085	1.57E-05	4.69E-05	520	507
NOL7	-0.188180673	1.56E-05	4.69E-05	520	520
TBC1D3C	-0.188191522	1.56E-05	4.68E-05	520	481
SIGIRR	-0.188198741	1.56E-05	4.68E-05	520	520
DHRS3	-0.188217314	1.56E-05	4.67E-05	520	520
LOC645676	-0.188218567	1.56E-05	4.67E-05	520	520
TOP3B	-0.188287723	1.55E-05	4.64E-05	520	520
HDCC2	-0.188305548	1.54E-05	4.63E-05	520	520
GBX1	-0.188347044	1.54E-05	4.61E-05	520	119
AGR3	-0.188350994	1.54E-05	4.61E-05	520	281
MAP2K2	-0.188469891	1.52E-05	4.56E-05	520	520
KIAA0114	-0.188518183	1.51E-05	4.54E-05	520	520

LRRFIP2	-0.188520641	1.51E-05	4.54E-05	520	520
C11orf31	-0.18856827	1.50E-05	4.51E-05	520	520
NIPSNAP3A	-0.188570644	1.50E-05	4.51E-05	520	520
FLJ45445	-0.188672629	1.48E-05	4.47E-05	520	520
CMPK1	-0.188715074	1.48E-05	4.45E-05	520	520
DDX25	-0.188720136	1.48E-05	4.45E-05	520	273
PLSCR2	-0.188724492	1.48E-05	4.45E-05	520	288
PLEKHN1	-0.188727818	1.48E-05	4.44E-05	520	520
ATP5L2	-0.188748291	1.47E-05	4.44E-05	520	490
ZADH2	-0.18877448	1.47E-05	4.42E-05	520	520
NUF2	-0.188793149	1.47E-05	4.42E-05	520	520
ESCO2	-0.188854531	1.46E-05	4.39E-05	520	520
ADRBK1	-0.18893309	1.44E-05	4.36E-05	520	520
TRABD	-0.188960863	1.44E-05	4.34E-05	520	520
ACIN1	-0.189028547	1.43E-05	4.31E-05	520	520
ACY1	-0.189095245	1.42E-05	4.29E-05	520	520
C11orf80	-0.189168546	1.41E-05	4.26E-05	520	520
LSM6	-0.189185936	1.41E-05	4.25E-05	520	520
HR	-0.189218857	1.40E-05	4.24E-05	520	520
SFRS8	-0.189269268	1.39E-05	4.22E-05	520	520
RPL26	-0.189290832	1.39E-05	4.21E-05	520	520
UPB1	-0.189377049	1.38E-05	4.17E-05	520	480
PSPC1	-0.189489745	1.36E-05	4.12E-05	520	520
CCDC160	-0.189553406	1.35E-05	4.10E-05	520	331
FAM71E1	-0.189577198	1.35E-05	4.09E-05	520	520
SNHG6	-0.189578831	1.35E-05	4.09E-05	520	520
HCN3	-0.189618173	1.34E-05	4.07E-05	520	520
ALDOA	-0.189642772	1.34E-05	4.06E-05	520	520
POLDIP2	-0.189666704	1.34E-05	4.05E-05	520	520
PRAP1	-0.189679422	1.33E-05	4.05E-05	520	466
ATPAF2	-0.18974609	1.32E-05	4.02E-05	520	520
CRIP1	-0.18982623	1.31E-05	3.99E-05	520	520
IQCB1	-0.189845086	1.31E-05	3.98E-05	520	520
PPP6C	-0.189855841	1.31E-05	3.97E-05	520	520
INE2	-0.189872056	1.31E-05	3.97E-05	520	396
SNHG11	-0.189888011	1.30E-05	3.96E-05	520	520
RPUSD3	-0.189890679	1.30E-05	3.96E-05	520	520
KRT32	-0.189919289	1.30E-05	3.95E-05	520	468
TF	-0.189957682	1.29E-05	3.93E-05	520	515
IDH3B	-0.19002241	1.29E-05	3.91E-05	520	520
TIMM17A	-0.190056445	1.28E-05	3.89E-05	520	520
LGI3	-0.190074367	1.28E-05	3.89E-05	520	514
FAM72B	-0.190127531	1.27E-05	3.87E-05	520	520
NT5C2	-0.190190169	1.26E-05	3.84E-05	520	520
RHOXF1	-0.190283009	1.25E-05	3.81E-05	520	272
SNRNP	-0.19031841	1.25E-05	3.79E-05	520	520

FAM13AOS	-0.190323929	1.24E-05	3.79E-05	520	519
UGT1A7	-0.190354748	1.24E-05	3.78E-05	520	401
FXN	-0.190373976	1.24E-05	3.77E-05	520	520
FAM111B	-0.190405658	1.23E-05	3.76E-05	520	520
NME2P1	-0.190407107	1.23E-05	3.76E-05	520	520
CCT6P1	-0.190429356	1.23E-05	3.75E-05	520	520
CLTA	-0.190443028	1.23E-05	3.75E-05	520	520
C1QBP	-0.190536534	1.22E-05	3.71E-05	520	520
MRPL34	-0.190563827	1.21E-05	3.70E-05	520	520
TFAP2C	-0.190565159	1.21E-05	3.70E-05	520	520
DGCR8	-0.190574568	1.21E-05	3.70E-05	520	520
C6orf223	-0.19059863	1.21E-05	3.69E-05	520	515
CCDC146	-0.190604413	1.21E-05	3.69E-05	520	520
RPS2	-0.190611759	1.21E-05	3.68E-05	520	520
C17orf86	-0.190613921	1.21E-05	3.68E-05	520	520
HIRIP3	-0.190692568	1.20E-05	3.65E-05	520	520
ZMAT5	-0.190744966	1.19E-05	3.64E-05	520	520
SASS6	-0.190797778	1.18E-05	3.62E-05	520	520
PDCL2	-0.191040586	1.15E-05	3.53E-05	520	245
FAM96B	-0.191064872	1.15E-05	3.52E-05	520	520
IK	-0.191077063	1.15E-05	3.51E-05	520	520
TRIP6	-0.191111638	1.14E-05	3.50E-05	520	520
KLK10	-0.191147021	1.14E-05	3.49E-05	520	519
CTU1	-0.191167385	1.14E-05	3.48E-05	520	520
RPS26	-0.191208054	1.13E-05	3.47E-05	520	520
WFDC5	-0.191238227	1.13E-05	3.46E-05	520	516
RPS3A	-0.191294581	1.12E-05	3.44E-05	520	520
RHBDL1	-0.191306554	1.12E-05	3.43E-05	520	520
ZNF77	-0.191469608	1.10E-05	3.38E-05	520	520
C12orf54	-0.191476848	1.10E-05	3.37E-05	520	516
RPS11	-0.191478434	1.10E-05	3.37E-05	520	520
SLED1	-0.191489976	1.10E-05	3.37E-05	520	425
HRAS	-0.191529788	1.09E-05	3.36E-05	520	520
UBL4A	-0.191550852	1.09E-05	3.35E-05	520	520
ENDOU	-0.191556907	1.09E-05	3.35E-05	520	513
9-Mar	-0.191559962	1.09E-05	3.35E-05	520	520
FLJ39653	-0.191574942	1.09E-05	3.34E-05	520	520
BMP7	-0.191611376	1.08E-05	3.33E-05	520	520
POLA2	-0.191620871	1.08E-05	3.33E-05	520	520
C17orf65	-0.191630052	1.08E-05	3.33E-05	520	520
SCAI	-0.191645615	1.08E-05	3.32E-05	520	520
COIL	-0.191660716	1.08E-05	3.32E-05	520	520
C1orf116	-0.191697876	1.07E-05	3.30E-05	520	520
RPL12	-0.191707537	1.07E-05	3.30E-05	520	520
TMEM160	-0.191723322	1.07E-05	3.30E-05	520	520
EFS	-0.19174246	1.07E-05	3.29E-05	520	520

FAM32A	-0.191761775	1.07E-05	3.28E-05	520	520
NGDN	-0.191806184	1.06E-05	3.27E-05	520	520
CORO2A	-0.191807505	1.06E-05	3.27E-05	520	520
GLTPD2	-0.191854006	1.06E-05	3.25E-05	520	319
THEM5	-0.191857258	1.06E-05	3.25E-05	520	517
SUMO1	-0.191871432	1.05E-05	3.25E-05	520	520
TOP1P2	-0.19190764	1.05E-05	3.24E-05	520	517
TRADD	-0.191916578	1.05E-05	3.23E-05	520	520
NT5C3	-0.191985101	1.04E-05	3.21E-05	520	520
GCGR	-0.192021427	1.04E-05	3.20E-05	520	425
JAGN1	-0.192115807	1.03E-05	3.17E-05	520	520
MRPL32	-0.192124672	1.03E-05	3.17E-05	520	520
ZNF367	-0.192124747	1.03E-05	3.17E-05	520	520
TMEM106C	-0.192130597	1.02E-05	3.16E-05	520	520
FAM122B	-0.192183853	1.02E-05	3.15E-05	520	520
DYNLT1	-0.192252846	1.01E-05	3.13E-05	520	520
PFDN5	-0.192266365	1.01E-05	3.12E-05	520	520
HCG26	-0.192268062	1.01E-05	3.12E-05	520	520
UXT	-0.192291331	1.01E-05	3.11E-05	520	520
PKN3	-0.192313422	1.00E-05	3.11E-05	520	520
PRDX6	-0.192316778	1.00E-05	3.11E-05	520	520
DPM2	-0.192337973	1.00E-05	3.10E-05	520	520
NCK1	-0.192401776	9.95E-06	3.08E-05	520	520
RFC5	-0.19242604	9.93E-06	3.07E-05	520	520
TMEM161B	-0.192482021	9.87E-06	3.06E-05	520	520
AP2S1	-0.192502789	9.84E-06	3.05E-05	520	520
FGF17	-0.192508301	9.84E-06	3.05E-05	520	342
SNUPN	-0.192565393	9.78E-06	3.03E-05	520	520
RPLP2	-0.192640849	9.70E-06	3.01E-05	520	520
C3orf10	-0.19264288	9.70E-06	3.01E-05	520	520
AP1S3	-0.19276453	9.57E-06	2.97E-05	520	520
GJB3	-0.192772944	9.56E-06	2.97E-05	520	520
NDUFAF2	-0.192826655	9.50E-06	2.95E-05	520	520
DDX51	-0.192853722	9.48E-06	2.94E-05	520	520
ARF5	-0.192867885	9.46E-06	2.94E-05	520	520
EPHB6	-0.192894397	9.43E-06	2.93E-05	520	520
ATXN7L2	-0.192922561	9.41E-06	2.92E-05	520	520
LGALS4	-0.192930038	9.40E-06	2.92E-05	520	470
INPP5J	-0.192981513	9.35E-06	2.91E-05	520	520
HSCB	-0.192981638	9.35E-06	2.91E-05	520	520
RPUSD2	-0.19301981	9.31E-06	2.89E-05	520	520
FBRSL1	-0.193042419	9.28E-06	2.89E-05	520	520
DOT1L	-0.193060749	9.27E-06	2.88E-05	520	520
LRFN2	-0.193174186	9.15E-06	2.85E-05	520	431
LGALS7	-0.19320425	9.12E-06	2.84E-05	520	520
LIME1	-0.193211244	9.11E-06	2.84E-05	520	520

TRNAU1AP	-0.193232276	9.09E-06	2.84E-05	520	520
KRT5	-0.193241936	9.08E-06	2.83E-05	520	520
FLOT2	-0.193248477	9.08E-06	2.83E-05	520	520
PLAC8	-0.193248935	9.08E-06	2.83E-05	520	520
RHOT2	-0.193278043	9.05E-06	2.82E-05	520	520
PITPNM3	-0.193280379	9.05E-06	2.82E-05	520	520
BCL2L12	-0.193314166	9.01E-06	2.81E-05	520	520
MYL12B	-0.193369861	8.96E-06	2.80E-05	520	520
TLCD1	-0.193376372	8.95E-06	2.80E-05	520	520
C5orf44	-0.193379229	8.95E-06	2.79E-05	520	520
RBM39	-0.193383226	8.95E-06	2.79E-05	520	520
ACOT13	-0.19343145	8.90E-06	2.78E-05	520	520
C1orf104	-0.19348337	8.85E-06	2.77E-05	520	520
TUBB4	-0.193517381	8.82E-06	2.76E-05	520	520
GCDH	-0.193532235	8.80E-06	2.75E-05	520	520
ECE2	-0.193643565	8.70E-06	2.72E-05	520	520
C15orf42	-0.193647271	8.69E-06	2.72E-05	520	520
NPW	-0.193739393	8.61E-06	2.69E-05	520	510
MRPL40	-0.193795206	8.55E-06	2.68E-05	520	520
ENTPD2	-0.19380192	8.55E-06	2.68E-05	520	520
TPRA1	-0.193905878	8.45E-06	2.65E-05	520	520
OCA2	-0.193944322	8.42E-06	2.64E-05	520	446
FAM46B	-0.194006181	8.36E-06	2.62E-05	520	520
C12orf73	-0.194022588	8.34E-06	2.62E-05	520	520
MRPL11	-0.194033437	8.33E-06	2.61E-05	520	520
TRAPPC2L	-0.194227643	8.16E-06	2.56E-05	520	520
OR2B6	-0.194296591	8.10E-06	2.54E-05	520	366
ELF5	-0.194409161	8.00E-06	2.51E-05	520	464
TTC9B	-0.194426222	7.98E-06	2.51E-05	520	305
FBXO45	-0.194433467	7.98E-06	2.51E-05	520	520
NAA38	-0.194449107	7.96E-06	2.51E-05	520	520
SPC25	-0.194457157	7.96E-06	2.50E-05	520	520
TNFRSF13C	-0.194593784	7.84E-06	2.47E-05	520	513
TROAP	-0.194594577	7.84E-06	2.47E-05	520	520
AGAP11	-0.194608246	7.83E-06	2.46E-05	520	518
RAB14	-0.194621187	7.82E-06	2.46E-05	520	520
ABI1	-0.194665327	7.78E-06	2.45E-05	520	520
VPS72	-0.194713313	7.74E-06	2.44E-05	520	520
NDUFB8	-0.194845905	7.63E-06	2.41E-05	520	520
TFAP4	-0.194878168	7.60E-06	2.40E-05	520	520
C15orf48	-0.194931801	7.55E-06	2.38E-05	520	520
MRPL18	-0.194947703	7.54E-06	2.38E-05	520	520
AGR2	-0.194979293	7.51E-06	2.37E-05	520	518
FKBP4	-0.194995455	7.50E-06	2.37E-05	520	520
RIBC1	-0.195020564	7.48E-06	2.36E-05	520	520
RXRA	-0.195115075	7.40E-06	2.34E-05	520	520

EIF1AX	-0.19511554	7.40E-06	2.34E-05	520	520
RPL23	-0.195216127	7.32E-06	2.32E-05	520	520
NDUFB9	-0.195221556	7.32E-06	2.32E-05	520	520
SPINK8	-0.195226468	7.31E-06	2.31E-05	520	85
KLHDC4	-0.195235645	7.31E-06	2.31E-05	520	520
SGK494	-0.195300345	7.25E-06	2.30E-05	520	520
TTLL12	-0.195324581	7.24E-06	2.29E-05	520	520
TMEM101	-0.195352011	7.21E-06	2.29E-05	520	520
VTI1A	-0.195376599	7.19E-06	2.28E-05	520	520
NUDT16L1	-0.195387346	7.19E-06	2.28E-05	520	520
PEX14	-0.195393377	7.18E-06	2.28E-05	520	520
TLX1NB	-0.195459893	7.13E-06	2.26E-05	520	264
LOC285359	-0.195493444	7.10E-06	2.25E-05	520	520
NARF	-0.195501124	7.10E-06	2.25E-05	520	520
ATP6V1G1	-0.195548368	7.06E-06	2.24E-05	520	520
CROCCL1	-0.195558312	7.05E-06	2.24E-05	520	520
F11R	-0.195631178	7.00E-06	2.22E-05	520	520
MAMDC4	-0.195638858	6.99E-06	2.22E-05	520	520
C5orf39	-0.19567658	6.96E-06	2.21E-05	520	520
DEPDC1B	-0.195710874	6.93E-06	2.20E-05	520	520
ZCCHC17	-0.195743713	6.91E-06	2.20E-05	520	520
UNC13B	-0.195794742	6.87E-06	2.19E-05	520	520
STX10	-0.195835944	6.84E-06	2.18E-05	520	520
AAMP	-0.195840328	6.84E-06	2.17E-05	520	520
BCL10	-0.195925217	6.77E-06	2.16E-05	520	520
DCTN3	-0.196048778	6.68E-06	2.13E-05	520	520
GLB1L2	-0.196051605	6.68E-06	2.13E-05	520	518
TOMM20L	-0.196130962	6.62E-06	2.11E-05	520	420
PCOTH	-0.1962177	6.56E-06	2.09E-05	520	514
DIABLO	-0.196299386	6.50E-06	2.07E-05	520	520
ASS1	-0.196314702	6.49E-06	2.07E-05	520	520
ZNF648	-0.196338041	6.47E-06	2.06E-05	520	216
CDC25C	-0.196387817	6.44E-06	2.05E-05	520	520
SELO	-0.196419225	6.41E-06	2.05E-05	520	520
SLC44A4	-0.196582503	6.30E-06	2.01E-05	520	518
DBP	-0.196589163	6.29E-06	2.01E-05	520	520
CPSF3L	-0.196610086	6.28E-06	2.01E-05	520	520
METTL12	-0.19664335	6.26E-06	2.00E-05	520	520
INTS9	-0.196662379	6.24E-06	2.00E-05	520	520
HNRNPC	-0.196665874	6.24E-06	1.99E-05	520	520
IL17C	-0.196694859	6.22E-06	1.99E-05	520	388
MED27	-0.196724445	6.20E-06	1.98E-05	520	520
GPR89C	-0.196755259	6.18E-06	1.98E-05	520	520
EIF1	-0.196756791	6.18E-06	1.98E-05	520	520
XKRX	-0.196813237	6.14E-06	1.96E-05	520	520
P2RY1	-0.196815996	6.14E-06	1.96E-05	520	520

AKR1B10	-0.196849392	6.11E-06	1.96E-05	520	518
CHADL	-0.196937024	6.06E-06	1.94E-05	520	520
PRSS16	-0.196944424	6.05E-06	1.94E-05	520	520
TRPV1	-0.196955158	6.04E-06	1.94E-05	520	520
AKAP8	-0.19703228	5.99E-06	1.92E-05	520	520
RPF2	-0.197047999	5.98E-06	1.92E-05	520	520
MSH5	-0.197091544	5.95E-06	1.91E-05	520	520
S100A6	-0.197118616	5.94E-06	1.90E-05	520	520
ORMDL2	-0.197125338	5.93E-06	1.90E-05	520	520
TBC1D7	-0.197165499	5.90E-06	1.89E-05	520	520
RABL3	-0.197232136	5.86E-06	1.88E-05	520	520
KIAA1875	-0.19725508	5.85E-06	1.88E-05	520	505
ELMO3	-0.197264393	5.84E-06	1.87E-05	520	520
FAM173A	-0.197266269	5.84E-06	1.87E-05	520	520
IKBKB	-0.197275538	5.83E-06	1.87E-05	520	520
PSMB10	-0.197285676	5.83E-06	1.87E-05	520	520
CYP2W1	-0.197353811	5.78E-06	1.86E-05	520	496
HSD17B7P2	-0.197430791	5.73E-06	1.84E-05	520	520
E2F1	-0.197582128	5.64E-06	1.81E-05	520	520
NKIRAS1	-0.197669307	5.58E-06	1.80E-05	520	520
CCDC61	-0.197709503	5.56E-06	1.79E-05	520	520
C4orf27	-0.197761112	5.53E-06	1.78E-05	520	520
RAG1AP1	-0.19778285	5.51E-06	1.78E-05	520	520
RANGAP1	-0.197784997	5.51E-06	1.78E-05	520	520
ZDHHC11	-0.197819661	5.49E-06	1.77E-05	520	518
RBM10	-0.197833323	5.48E-06	1.77E-05	520	520
C9orf125	-0.197847968	5.47E-06	1.77E-05	520	520
IKBKE	-0.197857102	5.47E-06	1.76E-05	520	520
POP4	-0.197866506	5.46E-06	1.76E-05	520	520
C22orf41	-0.197937487	5.42E-06	1.75E-05	520	506
HDDC3	-0.197951286	5.41E-06	1.75E-05	520	520
METRNL	-0.198007169	5.38E-06	1.74E-05	520	520
PRKRIP1	-0.1980838	5.33E-06	1.72E-05	520	520
TEX15	-0.198110676	5.32E-06	1.72E-05	520	334
RFWD2	-0.198150841	5.29E-06	1.71E-05	520	520
SPA17	-0.198210025	5.26E-06	1.70E-05	520	520
TAF6L	-0.198216402	5.25E-06	1.70E-05	520	520
SH3RF2	-0.198249446	5.23E-06	1.69E-05	520	520
IL1F8	-0.198260989	5.23E-06	1.69E-05	520	465
NPIPL3	-0.19826642	5.22E-06	1.69E-05	520	520
FLJ33630	-0.198414267	5.14E-06	1.66E-05	520	520
CDK10	-0.198423296	5.13E-06	1.66E-05	520	520
DMAP1	-0.198438454	5.12E-06	1.66E-05	520	520
PRPF40B	-0.198506172	5.09E-06	1.65E-05	520	520
NDUFB2	-0.198550184	5.06E-06	1.64E-05	520	520
IL17F	-0.198578619	5.04E-06	1.64E-05	520	220

C10orf57	-0.198578804	5.04E-06	1.64E-05	520	520
TGM5	-0.198668694	4.99E-06	1.62E-05	520	515
ARL16	-0.198674591	4.99E-06	1.62E-05	520	520
C11orf16	-0.198695493	4.98E-06	1.62E-05	520	360
HIGD2A	-0.198717502	4.97E-06	1.61E-05	520	520
ZNF138	-0.198755804	4.95E-06	1.61E-05	520	520
C15orf21	-0.198798336	4.92E-06	1.60E-05	520	520
VSIG8	-0.198884453	4.88E-06	1.58E-05	520	513
MYST1	-0.198888198	4.87E-06	1.58E-05	520	520
BRP44L	-0.198896505	4.87E-06	1.58E-05	520	520
RPLP1	-0.198899075	4.87E-06	1.58E-05	520	520
CBR1	-0.198968077	4.83E-06	1.57E-05	520	520
WASH2P	-0.198995416	4.82E-06	1.57E-05	520	520
MYEOV2	-0.198996279	4.81E-06	1.57E-05	520	520
IL22	-0.199000588	4.81E-06	1.57E-05	520	168
CYB5R2	-0.19917525	4.72E-06	1.54E-05	520	520
PTMA	-0.19919252	4.71E-06	1.54E-05	520	520
GALNT12	-0.199212323	4.70E-06	1.53E-05	520	520
MRPS2	-0.199244858	4.68E-06	1.53E-05	520	520
HSBP1	-0.199268606	4.67E-06	1.52E-05	520	520
RPL4	-0.199272749	4.67E-06	1.52E-05	520	520
SKA3	-0.199283686	4.66E-06	1.52E-05	520	520
FAM185A	-0.19940451	4.60E-06	1.50E-05	520	520
ATF4	-0.199445934	4.58E-06	1.50E-05	520	520
AFG3L2	-0.19945811	4.57E-06	1.49E-05	520	520
C2orf47	-0.199571309	4.51E-06	1.48E-05	520	520
ZNF782	-0.199618032	4.49E-06	1.47E-05	520	520
AGFG2	-0.199639249	4.48E-06	1.47E-05	520	520
KIFC1	-0.19970329	4.45E-06	1.46E-05	520	520
GPBP1	-0.199722387	4.44E-06	1.45E-05	520	520
SLC8A2	-0.199727523	4.44E-06	1.45E-05	520	488
C19orf33	-0.199728217	4.44E-06	1.45E-05	520	520
HSPC159	-0.199756054	4.42E-06	1.45E-05	520	520
TEKT5	-0.199759218	4.42E-06	1.45E-05	520	392
LEO1	-0.199796656	4.40E-06	1.44E-05	520	520
PIK3C2B	-0.199926651	4.34E-06	1.42E-05	520	520
GOLGA8B	-0.199966064	4.32E-06	1.42E-05	520	520
HOXB1	-0.199989484	4.31E-06	1.41E-05	520	274
HPSE	-0.200003292	4.30E-06	1.41E-05	520	520
RND1	-0.200112151	4.25E-06	1.39E-05	520	520
GALR3	-0.200143403	4.23E-06	1.39E-05	520	203
MRPS14	-0.200194358	4.21E-06	1.38E-05	520	520
PLEKHF2	-0.200203525	4.20E-06	1.38E-05	520	520
CNOT10	-0.200260712	4.18E-06	1.37E-05	520	520
KRTAP5-8	-0.200305406	4.16E-06	1.37E-05	520	299
EEF1E1	-0.200306632	4.16E-06	1.37E-05	520	520

MASTL	-0.200379511	4.12E-06	1.36E-05	520	520
PGM2	-0.200417029	4.10E-06	1.35E-05	520	520
NOC4L	-0.200485715	4.07E-06	1.34E-05	520	520
MRPL2	-0.20053134	4.05E-06	1.33E-05	520	520
HYAL1	-0.200567191	4.04E-06	1.33E-05	520	520
RPS6	-0.200596536	4.02E-06	1.33E-05	520	520
BCL3	-0.20063785	4.00E-06	1.32E-05	520	520
CFD	-0.200653004	4.00E-06	1.32E-05	520	520
DTNBP1	-0.200731035	3.96E-06	1.31E-05	520	520
MYB	-0.200759777	3.95E-06	1.30E-05	520	520
MEPCE	-0.200759912	3.95E-06	1.30E-05	520	520
MRPL28	-0.200779532	3.94E-06	1.30E-05	520	520
NUDT12	-0.200802491	3.93E-06	1.30E-05	520	520
HYLS1	-0.200813529	3.92E-06	1.30E-05	520	520
CBR4	-0.200832136	3.92E-06	1.29E-05	520	520
TRMT1	-0.200838527	3.91E-06	1.29E-05	520	520
CYC1	-0.200903421	3.89E-06	1.28E-05	520	520
WDR52	-0.200912506	3.88E-06	1.28E-05	520	520
MVD	-0.200983518	3.85E-06	1.27E-05	520	520
NUSAP1	-0.200985489	3.85E-06	1.27E-05	520	520
WDR73	-0.201035839	3.83E-06	1.27E-05	520	520
GHITM	-0.201082861	3.81E-06	1.26E-05	520	520
ZMAT2	-0.201119034	3.79E-06	1.26E-05	520	520
RAET1G	-0.201173708	3.77E-06	1.25E-05	520	520
ZBTB7A	-0.2012863	3.72E-06	1.23E-05	520	520
VAPA	-0.201311295	3.71E-06	1.23E-05	520	520
C9orf86	-0.201374219	3.68E-06	1.22E-05	520	520
PXMP4	-0.201382366	3.68E-06	1.22E-05	520	520
ZNF266	-0.20138496	3.68E-06	1.22E-05	520	520
POLQ	-0.201483556	3.64E-06	1.21E-05	520	520
SNRPC	-0.201490481	3.64E-06	1.21E-05	520	520
C6orf52	-0.201541378	3.61E-06	1.20E-05	520	509
ZNF90	-0.201584421	3.60E-06	1.20E-05	520	520
C1orf14	-0.201615154	3.58E-06	1.19E-05	520	119
ANAPC5	-0.201742341	3.53E-06	1.18E-05	520	520
PPP1R14D	-0.201943621	3.45E-06	1.15E-05	520	366
ETV7	-0.201982981	3.44E-06	1.15E-05	520	520
GSTA1	-0.202141431	3.38E-06	1.13E-05	520	414
LELP1	-0.202286481	3.32E-06	1.11E-05	520	144
GRHL2	-0.202311254	3.31E-06	1.11E-05	520	519
C12orf70	-0.202312541	3.31E-06	1.11E-05	520	519
SETD6	-0.202464002	3.25E-06	1.09E-05	520	520
PLBD1	-0.202486049	3.25E-06	1.09E-05	520	520
LNX1	-0.202547754	3.22E-06	1.08E-05	520	520
KCNE2	-0.202551064	3.22E-06	1.08E-05	520	504
AES	-0.202644351	3.19E-06	1.07E-05	520	520

RUVBL1	-0.202657426	3.18E-06	1.07E-05	520	520
C18orf55	-0.202673506	3.18E-06	1.06E-05	520	520
ANKRD19	-0.202695071	3.17E-06	1.06E-05	520	520
SYT8	-0.202779803	3.14E-06	1.05E-05	520	517
LPAR2	-0.202827211	3.12E-06	1.05E-05	520	520
GLI4	-0.202853998	3.11E-06	1.04E-05	520	520
MRPS31	-0.202870519	3.11E-06	1.04E-05	520	520
TRAPPC2P1	-0.202880121	3.10E-06	1.04E-05	520	520
MED26	-0.202921652	3.09E-06	1.04E-05	520	520
NUBP2	-0.202936972	3.08E-06	1.03E-05	520	520
ARL4D	-0.203092475	3.03E-06	1.02E-05	520	520
FNTA	-0.203134739	3.01E-06	1.01E-05	520	520
NPB	-0.203310491	2.95E-06	9.93E-06	520	499
LOC388955	-0.203343586	2.94E-06	9.90E-06	520	520
GPT	-0.203412638	2.92E-06	9.82E-06	520	520
FUNDC1	-0.203434475	2.91E-06	9.80E-06	520	520
ANKRD35	-0.203443741	2.91E-06	9.79E-06	520	520
NUBP1	-0.203540142	2.88E-06	9.69E-06	520	520
HAGH	-0.203615287	2.85E-06	9.61E-06	520	520
STAR	-0.203621474	2.85E-06	9.60E-06	520	520
FAM186A	-0.203633792	2.85E-06	9.59E-06	520	468
ANKHD1	-0.203658976	2.84E-06	9.57E-06	520	520
NPM2	-0.203718233	2.82E-06	9.51E-06	520	516
ANKZF1	-0.203766556	2.80E-06	9.46E-06	520	520
MTA3	-0.203791708	2.80E-06	9.44E-06	520	520
CSH2	-0.203831678	2.78E-06	9.40E-06	520	84
PIGY	-0.203863864	2.77E-06	9.36E-06	520	520
LMAN1L	-0.203930062	2.75E-06	9.30E-06	520	271
MALAT1	-0.204067117	2.71E-06	9.16E-06	520	520
MIOX	-0.204134642	2.69E-06	9.09E-06	520	382
TMPRSS13	-0.20417475	2.68E-06	9.05E-06	520	519
CHST4	-0.204209479	2.67E-06	9.01E-06	520	387
NFYC	-0.204256489	2.65E-06	8.97E-06	520	520
PSMC1	-0.204257706	2.65E-06	8.97E-06	520	520
ACADS	-0.204425458	2.60E-06	8.81E-06	520	520
GIN1	-0.204457393	2.59E-06	8.78E-06	520	520
ZNF833	-0.204555779	2.56E-06	8.68E-06	520	520
SUV39H1	-0.204560589	2.56E-06	8.68E-06	520	520
MRPS26	-0.20460948	2.55E-06	8.63E-06	520	520
ECT2L	-0.204633241	2.54E-06	8.61E-06	520	517
PIM3	-0.204655953	2.53E-06	8.59E-06	520	520
C21orf57	-0.204751375	2.50E-06	8.50E-06	520	520
NMNAT3	-0.204770484	2.50E-06	8.48E-06	520	520
GNRHR	-0.204821097	2.48E-06	8.44E-06	520	511
SEMA3F	-0.204823006	2.48E-06	8.44E-06	520	520
UBE2B	-0.204862322	2.47E-06	8.40E-06	520	520

ASCL2	-0.204868858	2.47E-06	8.40E-06	520	520
CCDC84	-0.204900127	2.46E-06	8.37E-06	520	520
IL20RB	-0.204941667	2.45E-06	8.33E-06	520	520
GSTA3	-0.205029539	2.43E-06	8.25E-06	520	286
DPCR1	-0.205039257	2.42E-06	8.24E-06	520	315
BIRC5	-0.205053825	2.42E-06	8.23E-06	520	520
PSMD6	-0.205061293	2.42E-06	8.22E-06	520	520
PHLDA2	-0.205187252	2.38E-06	8.11E-06	520	520
SRD5A3	-0.205196764	2.38E-06	8.10E-06	520	520
FAM131C	-0.205218185	2.37E-06	8.09E-06	520	518
OGDHL	-0.205226577	2.37E-06	8.08E-06	520	508
MAPKAPK5	-0.205260456	2.36E-06	8.05E-06	520	520
NFKBIL1	-0.20530648	2.35E-06	8.01E-06	520	520
IL23A	-0.205326074	2.34E-06	7.99E-06	520	520
ANAPC4	-0.20533383	2.34E-06	7.99E-06	520	520
RBMX2	-0.205364685	2.33E-06	7.96E-06	520	520
POLR3B	-0.205415763	2.32E-06	7.92E-06	520	520
NSUN5	-0.205471429	2.30E-06	7.87E-06	520	520
IP6K2	-0.205471866	2.30E-06	7.87E-06	520	520
PDCD2L	-0.205556685	2.28E-06	7.80E-06	520	520
YY1AP1	-0.205573269	2.28E-06	7.79E-06	520	520
C14orf143	-0.205608863	2.27E-06	7.76E-06	520	520
DTYMK	-0.205672455	2.25E-06	7.70E-06	520	520
ZNF324	-0.20572336	2.24E-06	7.66E-06	520	520
KLRG2	-0.205790686	2.22E-06	7.60E-06	520	518
CAMTA1	-0.205833224	2.21E-06	7.57E-06	520	520
LAS1L	-0.205859179	2.20E-06	7.55E-06	520	520
ZNF326	-0.205885062	2.20E-06	7.53E-06	520	520
REEP6	-0.205910782	2.19E-06	7.51E-06	520	520
REV1	-0.205913652	2.19E-06	7.51E-06	520	520
PPM1J	-0.205925	2.19E-06	7.50E-06	520	520
HSPBP1	-0.205944388	2.18E-06	7.49E-06	520	520
PIGU	-0.205984733	2.17E-06	7.45E-06	520	520
COX19	-0.205985884	2.17E-06	7.45E-06	520	520
PRR19	-0.206021938	2.16E-06	7.42E-06	520	520
PDCD10	-0.206038425	2.16E-06	7.41E-06	520	520
UCHL3	-0.206139248	2.13E-06	7.33E-06	520	520
SNHG7	-0.206213081	2.11E-06	7.27E-06	520	520
H2AFJ	-0.206236364	2.11E-06	7.25E-06	520	520
LOC440356	-0.206277117	2.10E-06	7.22E-06	520	399
SCRN2	-0.206284568	2.10E-06	7.21E-06	520	520
C15orf17	-0.206335074	2.09E-06	7.17E-06	520	520
RG9MTD3	-0.20634858	2.08E-06	7.16E-06	520	520
VPS45	-0.206368159	2.08E-06	7.15E-06	520	520
FRAT1	-0.206386842	2.07E-06	7.14E-06	520	520
DAPL1	-0.206460773	2.05E-06	7.08E-06	520	508

ZBTB5	-0.206489159	2.05E-06	7.06E-06	520	520
TSEN34	-0.206502903	2.04E-06	7.05E-06	520	520
FAM108B1	-0.206513033	2.04E-06	7.04E-06	520	520
VSNL1	-0.206525985	2.04E-06	7.03E-06	520	520
SETD4	-0.206561291	2.03E-06	7.00E-06	520	520
SYCE2	-0.206561488	2.03E-06	7.00E-06	520	512
FRMD8	-0.206627842	2.02E-06	6.95E-06	520	520
PPOX	-0.206631525	2.01E-06	6.95E-06	520	520
CDK5RAP1	-0.206688219	2.00E-06	6.91E-06	520	520
DMRTA2	-0.206707043	2.00E-06	6.89E-06	520	425
TRIM16	-0.206731395	1.99E-06	6.88E-06	520	520
HSD17B1	-0.206799016	1.98E-06	6.82E-06	520	520
SLC9A4	-0.206897549	1.95E-06	6.75E-06	520	405
FOXD4L6	-0.206915738	1.95E-06	6.74E-06	520	469
NDUFA9	-0.206964254	1.94E-06	6.70E-06	520	520
PSMB6	-0.206975186	1.94E-06	6.69E-06	520	520
RPS13	-0.207008181	1.93E-06	6.67E-06	520	520
KRT80	-0.207075941	1.91E-06	6.62E-06	520	520
RNF167	-0.207129304	1.90E-06	6.58E-06	520	520
APBB3	-0.207136265	1.90E-06	6.58E-06	520	520
GPR62	-0.207176319	1.89E-06	6.55E-06	520	463
CCDC45	-0.207221851	1.88E-06	6.52E-06	520	520
TSR2	-0.20726625	1.87E-06	6.48E-06	520	520
SEC61B	-0.207341862	1.85E-06	6.43E-06	520	520
DDX55	-0.207358336	1.85E-06	6.42E-06	520	520
DNAJC28	-0.207483271	1.82E-06	6.33E-06	520	520
EPHA10	-0.207638125	1.79E-06	6.22E-06	520	503
SLC48A1	-0.207723405	1.77E-06	6.16E-06	520	520
KRI1	-0.207787212	1.76E-06	6.12E-06	520	520
PLEKHG6	-0.207883616	1.74E-06	6.06E-06	520	520
FANCI	-0.207898807	1.74E-06	6.05E-06	520	520
RPL14	-0.207947321	1.73E-06	6.01E-06	520	520
ZNF205	-0.207959621	1.73E-06	6.01E-06	520	520
CHMP4A	-0.208048999	1.71E-06	5.94E-06	520	520
MOSC1	-0.208129206	1.69E-06	5.89E-06	520	520
TMEM180	-0.208194245	1.68E-06	5.85E-06	520	520
YTHDC1	-0.208399266	1.64E-06	5.72E-06	520	520
MRTO4	-0.208409543	1.64E-06	5.72E-06	520	520
C14orf142	-0.208512986	1.62E-06	5.65E-06	520	520
FBXW10	-0.208514068	1.62E-06	5.65E-06	520	498
TMEM30B	-0.20852017	1.62E-06	5.65E-06	520	520
RPTN	-0.208541061	1.61E-06	5.64E-06	520	506
ZBTB42	-0.208654326	1.59E-06	5.57E-06	520	520
WDR62	-0.20865928	1.59E-06	5.56E-06	520	520
CCDC155	-0.208722052	1.58E-06	5.53E-06	520	240
TMCO4	-0.2088404	1.56E-06	5.45E-06	520	520

TRMU	-0.208846694	1.55E-06	5.45E-06	520	520
IL26	-0.208967532	1.53E-06	5.38E-06	520	359
SRP9	-0.209045967	1.52E-06	5.33E-06	520	520
GSTA4	-0.209080946	1.51E-06	5.31E-06	520	520
SMCP	-0.20910071	1.51E-06	5.30E-06	520	279
C17orf89	-0.209149609	1.50E-06	5.27E-06	520	520
EXOSC2	-0.209179477	1.50E-06	5.25E-06	520	520
MDH2	-0.209211352	1.49E-06	5.24E-06	520	520
CDKN2C	-0.209248153	1.48E-06	5.21E-06	520	520
TBC1D3H	-0.209288424	1.48E-06	5.19E-06	520	515
DNTTIP2	-0.209311446	1.47E-06	5.18E-06	520	520
PLLP	-0.20936585	1.46E-06	5.15E-06	520	520
APOA1BP	-0.209413038	1.45E-06	5.12E-06	520	520
PSMD9	-0.209477696	1.44E-06	5.09E-06	520	520
PXMP2	-0.209503182	1.44E-06	5.07E-06	520	520
GPHA2	-0.209511422	1.44E-06	5.07E-06	520	257
UBA5	-0.209517561	1.44E-06	5.07E-06	520	520
PUS1	-0.209527359	1.44E-06	5.06E-06	520	520
IL22RA1	-0.209608175	1.42E-06	5.01E-06	520	520
WHAMM	-0.209660205	1.41E-06	4.99E-06	520	520
NDUFV3	-0.209671326	1.41E-06	4.98E-06	520	520
VRK3	-0.209694929	1.41E-06	4.97E-06	520	520
TXNL1	-0.209725298	1.40E-06	4.95E-06	520	520
SLC4A9	-0.209741924	1.40E-06	4.94E-06	520	392
CRIPAK	-0.209774633	1.39E-06	4.92E-06	520	520
LOC399815	-0.209794085	1.39E-06	4.91E-06	520	488
EAF2	-0.209820257	1.39E-06	4.90E-06	520	520
ZNF598	-0.20984491	1.38E-06	4.88E-06	520	520
TFAP2E	-0.209861384	1.38E-06	4.88E-06	520	520
ACOT8	-0.209878441	1.38E-06	4.87E-06	520	520
TSGA10	-0.210001522	1.36E-06	4.80E-06	520	520
GADD45GIP1	-0.210111261	1.34E-06	4.74E-06	520	520
FAM83F	-0.210138969	1.34E-06	4.73E-06	520	520
CDK3	-0.210284472	1.31E-06	4.65E-06	520	520
C14orf1	-0.210309288	1.31E-06	4.64E-06	520	520
GLE1	-0.210400337	1.29E-06	4.59E-06	520	520
CCDC17	-0.210553717	1.27E-06	4.51E-06	520	519
C21orf71	-0.210567794	1.27E-06	4.50E-06	520	378
AQP5	-0.210628494	1.26E-06	4.47E-06	520	483
QTRT1	-0.210711931	1.25E-06	4.43E-06	520	520
RIBC2	-0.210787493	1.24E-06	4.39E-06	520	518
SENP8	-0.210836275	1.23E-06	4.37E-06	520	520
ZNF700	-0.210855906	1.23E-06	4.36E-06	520	520
HMX2	-0.210979165	1.21E-06	4.30E-06	520	285
ZSCAN16	-0.211093748	1.19E-06	4.24E-06	520	520
TRIM26	-0.211168056	1.18E-06	4.20E-06	520	520

SLBP	-0.211223261	1.17E-06	4.18E-06	520	520
MYCL1	-0.211331113	1.16E-06	4.13E-06	520	520
ORC4L	-0.211412021	1.15E-06	4.09E-06	520	520
NQO2	-0.211453221	1.14E-06	4.07E-06	520	520
C16orf63	-0.211470261	1.14E-06	4.06E-06	520	520
C1orf212	-0.211497263	1.14E-06	4.05E-06	520	520
GTF2IRD1	-0.211520605	1.13E-06	4.04E-06	520	520
NCRNA00219	-0.211532814	1.13E-06	4.03E-06	520	520
TEDDM1	-0.211555982	1.13E-06	4.02E-06	520	291
GDA	-0.211588443	1.12E-06	4.01E-06	520	482
LOC100128788	-0.211602725	1.12E-06	4.00E-06	520	518
PADI1	-0.211622208	1.12E-06	4.00E-06	520	516
NDUFAF4	-0.211695678	1.11E-06	3.96E-06	520	520
FAM160B2	-0.211758689	1.10E-06	3.94E-06	520	520
TMEM159	-0.211834629	1.09E-06	3.90E-06	520	520
TRA2A	-0.211902652	1.08E-06	3.87E-06	520	520
TUBA1C	-0.211932214	1.08E-06	3.86E-06	520	520
HRK	-0.211993048	1.07E-06	3.83E-06	520	422
ZBTB7C	-0.21199838	1.07E-06	3.83E-06	520	520
SFXN2	-0.212087133	1.06E-06	3.80E-06	520	520
CPNE7	-0.212110036	1.06E-06	3.79E-06	520	520
RNPS1	-0.2121629	1.05E-06	3.76E-06	520	520
CSNK2B	-0.212199038	1.05E-06	3.75E-06	520	520
BCKDHA	-0.212303868	1.03E-06	3.70E-06	520	520
EEFSEC	-0.212317011	1.03E-06	3.70E-06	520	520
C12orf48	-0.212368302	1.02E-06	3.68E-06	520	520
FDPSL2A	-0.212538054	1.00E-06	3.61E-06	520	519
C9orf163	-0.212600609	9.96E-07	3.58E-06	520	511
SOX2	-0.212606259	9.95E-07	3.58E-06	520	520
TMEM11	-0.212667303	9.88E-07	3.55E-06	520	520
C6orf130	-0.212701595	9.84E-07	3.54E-06	520	520
DGKA	-0.212739416	9.80E-07	3.52E-06	520	520
MRPL9	-0.212754838	9.78E-07	3.52E-06	520	520
FBXW5	-0.212805879	9.72E-07	3.50E-06	520	520
C11orf52	-0.212812436	9.71E-07	3.50E-06	520	519
NDUFA11	-0.212870553	9.64E-07	3.47E-06	520	520
SF3B5	-0.212935939	9.57E-07	3.45E-06	520	520
DDX49	-0.213003069	9.49E-07	3.42E-06	520	520
AFG3L1	-0.213073961	9.41E-07	3.39E-06	520	520
LYPLA2	-0.213141283	9.34E-07	3.37E-06	520	520
REPS1	-0.213204932	9.26E-07	3.34E-06	520	520
DOHH	-0.21326716	9.20E-07	3.32E-06	520	520
GPRIN2	-0.213347733	9.11E-07	3.29E-06	520	517
GLMN	-0.213394883	9.06E-07	3.27E-06	520	520
CGN	-0.213440988	9.01E-07	3.25E-06	520	520
CLN3	-0.213503277	8.94E-07	3.23E-06	520	520

C6orf108	-0.213690674	8.74E-07	3.16E-06	520	520
C12orf34	-0.21370267	8.73E-07	3.16E-06	520	520
SNHG8	-0.213758833	8.67E-07	3.14E-06	520	520
RBBP7	-0.213766514	8.66E-07	3.13E-06	520	520
CCDC154	-0.213820916	8.60E-07	3.11E-06	520	472
PRCC	-0.213841763	8.58E-07	3.11E-06	520	520
IVL	-0.213846768	8.58E-07	3.10E-06	520	519
VBP1	-0.213857356	8.57E-07	3.10E-06	520	520
SPNS2	-0.213989886	8.43E-07	3.05E-06	520	520
ROMO1	-0.214010611	8.41E-07	3.05E-06	520	520
WDR61	-0.214063661	8.36E-07	3.03E-06	520	520
NTHL1	-0.214086181	8.33E-07	3.02E-06	520	520
ZC3H12A	-0.214192308	8.23E-07	2.99E-06	520	520
HAUS8	-0.214209723	8.21E-07	2.98E-06	520	520
GALR2	-0.214225393	8.19E-07	2.98E-06	520	512
EIF4A3	-0.214306464	8.11E-07	2.95E-06	520	520
C14orf79	-0.21445019	7.97E-07	2.90E-06	520	520
RAB11FIP1	-0.214477381	7.95E-07	2.89E-06	520	520
NUP85	-0.214489958	7.94E-07	2.89E-06	520	520
TUSC2	-0.214511023	7.92E-07	2.88E-06	520	520
STXBP2	-0.214599196	7.83E-07	2.85E-06	520	520
RPP25	-0.214604108	7.83E-07	2.85E-06	520	520
VRK1	-0.214712664	7.73E-07	2.81E-06	520	520
HDAC8	-0.21475992	7.68E-07	2.80E-06	520	520
STUB1	-0.21482242	7.62E-07	2.78E-06	520	520
PAF1	-0.214830277	7.62E-07	2.78E-06	520	520
S100A7	-0.214912222	7.54E-07	2.75E-06	520	518
C10orf54	-0.214922626	7.53E-07	2.75E-06	520	520
DHDH	-0.214933701	7.52E-07	2.75E-06	520	520
PLEKHG7	-0.214990626	7.47E-07	2.73E-06	520	454
GLOD5	-0.215116301	7.36E-07	2.69E-06	520	271
TCEB2	-0.215120443	7.35E-07	2.69E-06	520	520
LSM2	-0.215188566	7.29E-07	2.67E-06	520	520
KCP	-0.215215384	7.27E-07	2.66E-06	520	520
MRPL51	-0.215236671	7.25E-07	2.65E-06	520	520
THAP3	-0.215345968	7.16E-07	2.62E-06	520	520
WDR74	-0.215347913	7.15E-07	2.62E-06	520	520
VSIG2	-0.215475475	7.04E-07	2.58E-06	520	495
ADK	-0.21551073	7.01E-07	2.57E-06	520	520
MRPL41	-0.21551457	7.01E-07	2.57E-06	520	520
FAU	-0.215543416	6.99E-07	2.56E-06	520	520
C1orf66	-0.215715384	6.84E-07	2.51E-06	520	520
PEF1	-0.215754989	6.81E-07	2.50E-06	520	520
JTB	-0.215843122	6.74E-07	2.47E-06	520	520
FOXE1	-0.215849348	6.73E-07	2.47E-06	520	519
PILRB	-0.216017185	6.59E-07	2.42E-06	520	520

EPB49	-0.216308954	6.36E-07	2.34E-06	520	520
TFB1M	-0.216353556	6.33E-07	2.33E-06	520	520
NPEPPS	-0.216359022	6.33E-07	2.33E-06	520	520
MORN3	-0.216419792	6.28E-07	2.31E-06	520	518
NDUFA4	-0.216456722	6.25E-07	2.30E-06	520	520
HEXDC	-0.21646708	6.24E-07	2.30E-06	520	520
UTP11L	-0.216477889	6.23E-07	2.30E-06	520	520
HNRNPD	-0.216501187	6.22E-07	2.29E-06	520	520
AAGAB	-0.216512486	6.21E-07	2.29E-06	520	520
CHTF18	-0.216663986	6.10E-07	2.25E-06	520	520
GSTZ1	-0.216664105	6.09E-07	2.25E-06	520	520
C1orf131	-0.216674082	6.09E-07	2.25E-06	520	520
TMEM134	-0.216768643	6.02E-07	2.22E-06	520	520
ESPN	-0.216802742	5.99E-07	2.21E-06	520	520
LSM12	-0.216821017	5.98E-07	2.21E-06	520	520
LSMD1	-0.216856854	5.95E-07	2.20E-06	520	520
APRT	-0.216857797	5.95E-07	2.20E-06	520	520
GRID2IP	-0.216863946	5.95E-07	2.20E-06	520	493
METT11D1	-0.216871419	5.94E-07	2.20E-06	520	520
COQ5	-0.216931101	5.90E-07	2.18E-06	520	520
RPS18	-0.216962643	5.88E-07	2.17E-06	520	520
ARMC5	-0.216992311	5.86E-07	2.17E-06	520	520
LOC388789	-0.216998575	5.85E-07	2.17E-06	520	520
PPP1R3D	-0.217010482	5.84E-07	2.16E-06	520	520
NUDT2	-0.217024924	5.83E-07	2.16E-06	520	520
SPINT2	-0.217041012	5.82E-07	2.16E-06	520	520
C9orf78	-0.217164476	5.73E-07	2.13E-06	520	520
KLHDC7A	-0.217183166	5.72E-07	2.12E-06	520	427
SLC5A10	-0.217183789	5.72E-07	2.12E-06	520	519
RBM14	-0.217241734	5.68E-07	2.11E-06	520	520
NMI	-0.217333142	5.62E-07	2.08E-06	520	520
PGLYRP3	-0.217360495	5.60E-07	2.08E-06	520	513
ACAA1	-0.217373616	5.59E-07	2.08E-06	520	520
LOC441869	-0.21738426	5.58E-07	2.07E-06	520	520
C2orf64	-0.217466921	5.53E-07	2.05E-06	520	520
TCAM1P	-0.217493724	5.51E-07	2.05E-06	520	436
HIGD1A	-0.21755244	5.47E-07	2.03E-06	520	520
KCNK1	-0.217565148	5.46E-07	2.03E-06	520	520
RPL29	-0.217569323	5.46E-07	2.03E-06	520	520
RPA3	-0.217577233	5.45E-07	2.03E-06	520	520
IKBKG	-0.217591091	5.44E-07	2.02E-06	520	520
NAA10	-0.217600487	5.44E-07	2.02E-06	520	520
CMC1	-0.21763485	5.41E-07	2.01E-06	520	520
HSD11B2	-0.21766211	5.39E-07	2.01E-06	520	520
SAT1	-0.217736923	5.35E-07	1.99E-06	520	520
EXOSC8	-0.21775787	5.33E-07	1.99E-06	520	520

TNFRSF18	-0.217764693	5.33E-07	1.98E-06	520	520
TMIE	-0.217774771	5.32E-07	1.98E-06	520	519
C9orf9	-0.217817249	5.29E-07	1.97E-06	520	520
CYP2F1	-0.217819076	5.29E-07	1.97E-06	520	264
ZFR2	-0.217864316	5.26E-07	1.96E-06	520	406
CCDC130	-0.217903526	5.24E-07	1.95E-06	520	520
CD9	-0.218092891	5.12E-07	1.91E-06	520	520
MCEE	-0.218161382	5.07E-07	1.89E-06	520	520
ATP5A1	-0.218212322	5.04E-07	1.88E-06	520	520
NDUFS6	-0.218214684	5.04E-07	1.88E-06	520	520
PTRH2	-0.218228422	5.03E-07	1.88E-06	520	520
ESRP1	-0.218275334	5.00E-07	1.87E-06	520	519
SDHAF1	-0.218284173	5.00E-07	1.87E-06	520	520
TST	-0.218411866	4.92E-07	1.84E-06	520	520
DDX39	-0.218425986	4.91E-07	1.84E-06	520	520
RWDD4A	-0.218485592	4.88E-07	1.83E-06	520	520
LIG1	-0.218592964	4.81E-07	1.80E-06	520	520
EHF	-0.218605884	4.80E-07	1.80E-06	520	519
CEMP1	-0.218651452	4.78E-07	1.79E-06	520	520
INA	-0.218652479	4.78E-07	1.79E-06	520	449
ZNF593	-0.218755313	4.72E-07	1.77E-06	520	520
CLTB	-0.218778863	4.70E-07	1.76E-06	520	520
TSEN2	-0.218784746	4.70E-07	1.76E-06	520	520
ASB6	-0.218806316	4.69E-07	1.76E-06	520	520
ABHD11	-0.218932588	4.61E-07	1.73E-06	520	520
LOC100128822	-0.219012247	4.57E-07	1.72E-06	520	520
RNF222	-0.219028616	4.56E-07	1.71E-06	520	512
C14orf176	-0.219029141	4.56E-07	1.71E-06	520	520
LASS3	-0.219051691	4.55E-07	1.71E-06	520	520
KCNK7	-0.219086578	4.53E-07	1.70E-06	520	520
MYO1H	-0.219117522	4.51E-07	1.70E-06	520	499
PEBP1	-0.2191216	4.51E-07	1.70E-06	520	520
PTK6	-0.219132057	4.50E-07	1.69E-06	520	520
RPL17	-0.219134494	4.50E-07	1.69E-06	520	520
PLAC2	-0.219157698	4.49E-07	1.69E-06	520	520
ARGLU1	-0.219168768	4.48E-07	1.69E-06	520	520
NAPRT1	-0.219175292	4.48E-07	1.69E-06	520	520
RPS12	-0.219192887	4.47E-07	1.68E-06	520	520
SH3D20	-0.219258698	4.43E-07	1.67E-06	520	520
AKR7L	-0.219269847	4.43E-07	1.67E-06	520	517
MGC57346	-0.21928574	4.42E-07	1.67E-06	520	520
KLF3	-0.21928734	4.42E-07	1.67E-06	520	520
CALML3	-0.219462065	4.32E-07	1.63E-06	520	520
PRR13	-0.219532998	4.28E-07	1.62E-06	520	520
UBXN11	-0.219546985	4.28E-07	1.61E-06	520	520
C21orf129	-0.21956005	4.27E-07	1.61E-06	520	412

TRAF2	-0.219617625	4.24E-07	1.60E-06	520	520
RPL5	-0.219698037	4.20E-07	1.59E-06	520	520
TMEM93	-0.219731777	4.18E-07	1.58E-06	520	520
PPP1R13B	-0.219788171	4.15E-07	1.57E-06	520	520
SLC23A1	-0.219824781	4.13E-07	1.56E-06	520	503
NCRNA00105	-0.219989474	4.05E-07	1.53E-06	520	520
AMY2A	-0.220033393	4.03E-07	1.52E-06	520	269
UBE2I	-0.220040823	4.02E-07	1.52E-06	520	520
SPIRE2	-0.220072131	4.01E-07	1.52E-06	520	520
FTLP10	-0.220150581	3.97E-07	1.50E-06	520	78
HRASLS2	-0.220245486	3.92E-07	1.49E-06	520	513
MOBK13	-0.220309499	3.89E-07	1.48E-06	520	520
OAZ1	-0.220338979	3.88E-07	1.47E-06	520	520
AMIGO3	-0.22041229	3.84E-07	1.46E-06	520	520
SERPIN4	-0.220424617	3.84E-07	1.46E-06	520	520
FOXJ1	-0.22063765	3.74E-07	1.42E-06	520	436
TRIP4	-0.220688055	3.71E-07	1.41E-06	520	520
SFRS6	-0.220725366	3.69E-07	1.41E-06	520	520
LOC202781	-0.220797366	3.66E-07	1.39E-06	520	520
ALKBH2	-0.220799185	3.66E-07	1.39E-06	520	520
PSMC6	-0.220805887	3.66E-07	1.39E-06	520	520
EXOSC9	-0.220858822	3.63E-07	1.38E-06	520	520
RNF7	-0.220888944	3.62E-07	1.38E-06	520	520
VPS4B	-0.220970714	3.58E-07	1.37E-06	520	520
LOC100132287	-0.221003357	3.57E-07	1.36E-06	520	520
GIYD2	-0.221003731	3.57E-07	1.36E-06	520	520
GET4	-0.221063488	3.54E-07	1.35E-06	520	520
C20orf11	-0.221086307	3.53E-07	1.35E-06	520	520
SRA1	-0.221096376	3.53E-07	1.35E-06	520	520
AGER	-0.221154962	3.50E-07	1.34E-06	520	520
PSMB1	-0.221246068	3.46E-07	1.32E-06	520	520
NDC80	-0.221287049	3.45E-07	1.32E-06	520	520
C16orf79	-0.221287695	3.44E-07	1.32E-06	520	519
NRARP	-0.221306321	3.44E-07	1.32E-06	520	520
TLX3	-0.221342985	3.42E-07	1.31E-06	520	216
MRPS24	-0.221577071	3.32E-07	1.27E-06	520	520
NDUFS2	-0.221598252	3.31E-07	1.27E-06	520	520
RUFY3	-0.221614056	3.31E-07	1.27E-06	520	520
SGPP2	-0.221747699	3.25E-07	1.25E-06	520	520
RIOK1	-0.221914701	3.19E-07	1.22E-06	520	520
TRIM31	-0.222023588	3.14E-07	1.21E-06	520	502
LDHD	-0.222171094	3.08E-07	1.19E-06	520	520
TOR2A	-0.222175829	3.08E-07	1.19E-06	520	520
HSF4	-0.222217812	3.07E-07	1.18E-06	520	520
SCYL3	-0.222299853	3.04E-07	1.17E-06	520	520
CCNB1	-0.22231374	3.03E-07	1.17E-06	520	520

RPL27A	-0.222341195	3.02E-07	1.16E-06	520	520
LYPD5	-0.222413043	2.99E-07	1.15E-06	520	520
ECH1	-0.222447261	2.98E-07	1.15E-06	520	520
CYP4Z1	-0.222543603	2.94E-07	1.14E-06	520	329
TLX2	-0.222568316	2.93E-07	1.13E-06	520	422
MED4	-0.222670917	2.90E-07	1.12E-06	520	520
ZPBP2	-0.222823261	2.84E-07	1.10E-06	520	127
ZNF212	-0.222888285	2.82E-07	1.09E-06	520	520
JUNB	-0.22288987	2.82E-07	1.09E-06	520	520
SYCP2	-0.222948156	2.80E-07	1.08E-06	520	519
DONSON	-0.222977251	2.79E-07	1.08E-06	520	520
SNRPD2	-0.222989134	2.78E-07	1.08E-06	520	520
CXXC1	-0.223032301	2.77E-07	1.07E-06	520	520
CHCHD4	-0.223037204	2.77E-07	1.07E-06	520	520
RPUSD1	-0.223044938	2.76E-07	1.07E-06	520	520
SQRDL	-0.223064173	2.76E-07	1.07E-06	520	520
PSORS1C2	-0.223274858	2.69E-07	1.04E-06	520	510
PSMG3	-0.22334656	2.66E-07	1.03E-06	520	520
ILKAP	-0.223440676	2.63E-07	1.02E-06	520	520
LOC728758	-0.223461145	2.62E-07	1.02E-06	520	520
AACSL	-0.22347725	2.62E-07	1.02E-06	520	444
RNF8	-0.223539453	2.60E-07	1.01E-06	520	520
C1orf63	-0.223565622	2.59E-07	1.01E-06	520	520
INO80E	-0.223601878	2.58E-07	1.00E-06	520	520
ZNF589	-0.223626656	2.57E-07	9.98E-07	520	520
TIMM17B	-0.223662941	2.56E-07	9.94E-07	520	520
DDX12	-0.223693723	2.55E-07	9.90E-07	520	520
C9orf100	-0.223749942	2.53E-07	9.84E-07	520	520
PRSS36	-0.223896821	2.48E-07	9.66E-07	520	520
LOC150776	-0.223926576	2.47E-07	9.63E-07	520	520
LOC100133161	-0.223956531	2.46E-07	9.60E-07	520	519
C19orf73	-0.223960156	2.46E-07	9.60E-07	520	520
VSIG10L	-0.223971111	2.46E-07	9.58E-07	520	520
SLC23A3	-0.223982291	2.46E-07	9.57E-07	520	514
PRDM15	-0.223985644	2.46E-07	9.57E-07	520	520
TRIM74	-0.224052838	2.43E-07	9.49E-07	520	442
BRAP	-0.224069566	2.43E-07	9.48E-07	520	520
GABRE	-0.224087201	2.42E-07	9.46E-07	520	520
NANS	-0.224088416	2.42E-07	9.46E-07	520	520
RFXANK	-0.224140168	2.41E-07	9.40E-07	520	520
DNAJC17	-0.224144261	2.41E-07	9.40E-07	520	520
C1orf31	-0.224177085	2.40E-07	9.36E-07	520	520
ARHGEF37	-0.224205867	2.39E-07	9.33E-07	520	520
ANKRD16	-0.224211364	2.39E-07	9.33E-07	520	520
RPL19	-0.224222498	2.38E-07	9.32E-07	520	520
CLN6	-0.224350577	2.34E-07	9.18E-07	520	520

EPB41L4A	-0.224380328	2.34E-07	9.14E-07	520	520
GINS2	-0.22440851	2.33E-07	9.11E-07	520	520
DNAJC8	-0.224441579	2.32E-07	9.08E-07	520	520
PSMB2	-0.22452348	2.29E-07	8.99E-07	520	520
SCNM1	-0.2246814	2.25E-07	8.82E-07	520	520
ARL6IP4	-0.224774819	2.22E-07	8.71E-07	520	520
PDF	-0.224850187	2.20E-07	8.64E-07	520	520
RBP7	-0.224850495	2.20E-07	8.64E-07	520	520
RALGDS	-0.224869865	2.20E-07	8.62E-07	520	520
PDCD5	-0.224876678	2.19E-07	8.62E-07	520	520
KIN	-0.224876695	2.19E-07	8.62E-07	520	520
LOC100129637	-0.224891266	2.19E-07	8.60E-07	520	520
CTAGE9	-0.224966784	2.17E-07	8.52E-07	520	520
ZNF511	-0.225121542	2.13E-07	8.37E-07	520	520
PSMD4	-0.225133591	2.12E-07	8.36E-07	520	520
CUL9	-0.225188532	2.11E-07	8.30E-07	520	520
ALDH5A1	-0.225205951	2.10E-07	8.28E-07	520	520
CCNB2	-0.225242648	2.09E-07	8.25E-07	520	520
TOMM40	-0.225267324	2.09E-07	8.22E-07	520	520
B3GNT6	-0.225311728	2.08E-07	8.18E-07	520	367
RPLP0	-0.225434495	2.04E-07	8.06E-07	520	520
SUSD4	-0.225580139	2.01E-07	7.91E-07	520	520
LOC100127888	-0.225597955	2.00E-07	7.90E-07	520	480
C6orf47	-0.225675977	1.98E-07	7.82E-07	520	520
AGAP4	-0.225685167	1.98E-07	7.82E-07	520	520
THUMPD2	-0.225755543	1.96E-07	7.75E-07	520	520
CCNL2	-0.225800487	1.95E-07	7.71E-07	520	520
MAP3K8	-0.225901311	1.93E-07	7.61E-07	520	520
LOC440461	-0.225930669	1.92E-07	7.59E-07	520	499
ROBLD3	-0.225932019	1.92E-07	7.59E-07	520	520
SERPINB3	-0.225935362	1.92E-07	7.59E-07	520	518
TREX2	-0.225951496	1.91E-07	7.57E-07	520	517
C19orf46	-0.225988747	1.90E-07	7.54E-07	520	486
NPFF	-0.226040506	1.89E-07	7.49E-07	520	516
CASP10	-0.226052149	1.89E-07	7.48E-07	520	520
WDR49	-0.226084098	1.88E-07	7.45E-07	520	350
PSD4	-0.226095896	1.88E-07	7.44E-07	520	520
GLOD4	-0.226125358	1.87E-07	7.42E-07	520	520
RAD51C	-0.226158037	1.86E-07	7.39E-07	520	520
LOC100128191	-0.226179573	1.86E-07	7.37E-07	520	520
PSMC3IP	-0.226210481	1.85E-07	7.34E-07	520	520
TIMM10	-0.226287959	1.83E-07	7.27E-07	520	520
TARBP2	-0.22631658	1.83E-07	7.25E-07	520	520
PIN4	-0.2263279	1.82E-07	7.24E-07	520	520
C8orf73	-0.226390175	1.81E-07	7.19E-07	520	520
NEBL	-0.226398509	1.81E-07	7.18E-07	520	520

FBXO6	-0.226402019	1.81E-07	7.18E-07	520	520
MED6	-0.226425122	1.80E-07	7.16E-07	520	520
THOC4	-0.226494629	1.79E-07	7.10E-07	520	520
CDAN1	-0.226509584	1.78E-07	7.09E-07	520	520
SNHG9	-0.226539135	1.77E-07	7.07E-07	520	520
CRISP3	-0.226549269	1.77E-07	7.06E-07	520	436
ATG4B	-0.226629254	1.75E-07	6.99E-07	520	520
TMEM199	-0.226844055	1.71E-07	6.81E-07	520	520
ALOX12	-0.22684895	1.71E-07	6.80E-07	520	519
UQCRB	-0.226864496	1.70E-07	6.79E-07	520	520
SLC16A9	-0.226875127	1.70E-07	6.78E-07	520	520
S100A2	-0.226916381	1.69E-07	6.75E-07	520	520
POLE	-0.22716666	1.64E-07	6.55E-07	520	520
RPS16	-0.227265616	1.62E-07	6.47E-07	520	520
DHRS9	-0.227323795	1.61E-07	6.43E-07	520	520
ACTR6	-0.227386822	1.59E-07	6.38E-07	520	520
GPR109A	-0.227430807	1.58E-07	6.34E-07	520	520
CDCA2	-0.227433187	1.58E-07	6.34E-07	520	520
MTG1	-0.227584713	1.55E-07	6.22E-07	520	520
MAX	-0.227664185	1.54E-07	6.16E-07	520	520
TMCO6	-0.227718517	1.53E-07	6.12E-07	520	520
HAUS5	-0.227719086	1.53E-07	6.12E-07	520	520
TMEM69	-0.227720498	1.53E-07	6.12E-07	520	520
HNRNPA3P1	-0.227722403	1.53E-07	6.12E-07	520	520
GEMIN7	-0.227874624	1.50E-07	6.01E-07	520	520
PARL	-0.227955407	1.48E-07	5.95E-07	520	520
ATP13A5	-0.228013417	1.47E-07	5.91E-07	520	382
CCDC90A	-0.22804865	1.46E-07	5.88E-07	520	520
SPDYE8P	-0.228083904	1.46E-07	5.86E-07	520	520
ERP29	-0.228106683	1.45E-07	5.84E-07	520	520
TTYH1	-0.228122703	1.45E-07	5.83E-07	520	517
NLRP9	-0.228316909	1.41E-07	5.69E-07	520	430
PUSL1	-0.228321088	1.41E-07	5.69E-07	520	520
ESPL1	-0.228558123	1.37E-07	5.53E-07	520	520
CYP2D7P1	-0.228573324	1.37E-07	5.52E-07	520	517
TOLLIP	-0.228611306	1.36E-07	5.49E-07	520	520
C9orf16	-0.228767377	1.33E-07	5.39E-07	520	520
FUS	-0.228829437	1.32E-07	5.35E-07	520	520
C5orf60	-0.228882014	1.31E-07	5.31E-07	520	277
C15orf41	-0.22888731	1.31E-07	5.31E-07	520	520
MRPS6	-0.229118181	1.27E-07	5.16E-07	520	520
C8orf59	-0.229134009	1.27E-07	5.15E-07	520	520
EIF2B1	-0.229144655	1.27E-07	5.15E-07	520	520
C9orf69	-0.229311097	1.24E-07	5.04E-07	520	520
LSM7	-0.229371839	1.23E-07	5.00E-07	520	520
ANAPC16	-0.229417037	1.23E-07	4.98E-07	520	520

CEBPD	-0.229428931	1.22E-07	4.97E-07	520	520
THOP1	-0.229478964	1.22E-07	4.94E-07	520	520
SDR39U1	-0.229538914	1.21E-07	4.90E-07	520	520
RPS10P7	-0.229560586	1.20E-07	4.89E-07	520	520
WDR77	-0.229587751	1.20E-07	4.88E-07	520	520
ARMC7	-0.229598393	1.20E-07	4.87E-07	520	520
BCMO1	-0.229691736	1.18E-07	4.81E-07	520	485
CDC7	-0.229814626	1.16E-07	4.74E-07	520	520
PMS2L11	-0.229827546	1.16E-07	4.74E-07	520	520
ARSH	-0.22983328	1.16E-07	4.73E-07	520	319
MYH14	-0.229855611	1.16E-07	4.72E-07	520	520
RAD54L	-0.229863203	1.16E-07	4.72E-07	520	520
LOC440944	-0.22987914	1.15E-07	4.71E-07	520	520
GRAMD4	-0.229907157	1.15E-07	4.70E-07	520	520
ANKRD56	-0.230020118	1.13E-07	4.63E-07	520	518
LIAS	-0.230085645	1.12E-07	4.59E-07	520	520
RABEP2	-0.230123006	1.12E-07	4.57E-07	520	520
GLS2	-0.230212873	1.11E-07	4.52E-07	520	520
MINA	-0.230244692	1.10E-07	4.51E-07	520	520
C4orf19	-0.230300831	1.09E-07	4.47E-07	520	512
UQCR11	-0.230426034	1.08E-07	4.40E-07	520	520
PSMA2	-0.230448544	1.07E-07	4.39E-07	520	520
ACP1	-0.230524692	1.06E-07	4.35E-07	520	520
TTC18	-0.230528262	1.06E-07	4.35E-07	520	520
BRP44	-0.230579289	1.05E-07	4.32E-07	520	520
FAM128B	-0.230616139	1.05E-07	4.30E-07	520	520
SELK	-0.230650434	1.04E-07	4.28E-07	520	520
IGSF9	-0.230668074	1.04E-07	4.28E-07	520	520
EBNA1BP2	-0.230676396	1.04E-07	4.27E-07	520	520
USP6NL	-0.230727851	1.03E-07	4.25E-07	520	520
SNX24	-0.230762351	1.03E-07	4.23E-07	520	520
PSME2	-0.230812818	1.02E-07	4.20E-07	520	520
BTG3	-0.230894292	1.01E-07	4.16E-07	520	520
CCDC24	-0.230918605	1.01E-07	4.15E-07	520	520
DCTN6	-0.230960148	1.00E-07	4.13E-07	520	520
TTC32	-0.23101667	9.95E-08	4.10E-07	520	520
PICK1	-0.231030762	9.94E-08	4.09E-07	520	520
ATP6V0C	-0.23104609	9.92E-08	4.09E-07	520	520
AMY2B	-0.231134161	9.80E-08	4.04E-07	520	518
TRAPPC2	-0.231206195	9.71E-08	4.01E-07	520	520
FAIM	-0.231251142	9.65E-08	3.98E-07	520	520
RPL10A	-0.231260085	9.64E-08	3.98E-07	520	520
UBE2T	-0.231317683	9.57E-08	3.95E-07	520	520
PYROXD1	-0.23132715	9.56E-08	3.95E-07	520	520
NXF1	-0.231341537	9.54E-08	3.94E-07	520	520
RGS12	-0.23146447	9.39E-08	3.88E-07	520	520

HAX1	-0.231481431	9.37E-08	3.87E-07	520	520
PGD	-0.231528197	9.31E-08	3.85E-07	520	520
RPL38	-0.231532255	9.31E-08	3.85E-07	520	520
RCC1	-0.231558197	9.28E-08	3.84E-07	520	520
PKP3	-0.231572427	9.26E-08	3.83E-07	520	520
IL1F10	-0.231574555	9.26E-08	3.83E-07	520	462
LOC283404	-0.231752526	9.04E-08	3.74E-07	520	506
CEL	-0.232012666	8.74E-08	3.62E-07	520	520
DHRS7B	-0.232043029	8.70E-08	3.61E-07	520	520
LAGE3	-0.232098959	8.64E-08	3.59E-07	520	520
TOMM5	-0.232108737	8.63E-08	3.58E-07	520	520
RPL27	-0.232120801	8.62E-08	3.58E-07	520	520
CORT	-0.232217597	8.51E-08	3.54E-07	520	495
HNRNPA3	-0.232287089	8.43E-08	3.51E-07	520	520
UBQLN4	-0.232299534	8.42E-08	3.50E-07	520	520
HS3ST6	-0.232305991	8.41E-08	3.50E-07	520	451
GK5	-0.232363275	8.35E-08	3.47E-07	520	520
GOLGA8A	-0.232400247	8.31E-08	3.46E-07	520	520
SURF1	-0.232411119	8.29E-08	3.45E-07	520	520
MRPL55	-0.232414629	8.29E-08	3.45E-07	520	520
SNHG3	-0.232473209	8.23E-08	3.43E-07	520	520
RPS9	-0.232664291	8.02E-08	3.35E-07	520	520
SLC6A9	-0.23267538	8.01E-08	3.34E-07	520	520
H2AFY	-0.23268188	8.00E-08	3.34E-07	520	520
DHCR24	-0.232710233	7.97E-08	3.33E-07	520	520
WASH5P	-0.232715068	7.97E-08	3.33E-07	520	520
C21orf33	-0.232746922	7.94E-08	3.31E-07	520	520
SAP18	-0.232855823	7.82E-08	3.27E-07	520	520
CENPH	-0.232997389	7.68E-08	3.21E-07	520	520
DOLPP1	-0.233029396	7.65E-08	3.20E-07	520	520
NAPA	-0.233029934	7.65E-08	3.20E-07	520	520
ARHGEF5	-0.233033072	7.64E-08	3.20E-07	520	520
LYNX1	-0.233066333	7.61E-08	3.19E-07	520	520
NFIA	-0.233098327	7.58E-08	3.17E-07	520	520
AKR1A1	-0.233131819	7.54E-08	3.16E-07	520	520
CDK7	-0.23314275	7.53E-08	3.16E-07	520	520
CHAF1B	-0.233217022	7.46E-08	3.13E-07	520	520
LILRP2	-0.233245718	7.43E-08	3.12E-07	520	427
CCDC60	-0.233433922	7.25E-08	3.04E-07	520	243
TMEM203	-0.233457028	7.23E-08	3.03E-07	520	520
RAB10	-0.233507982	7.18E-08	3.02E-07	520	520
GTF2E2	-0.233526342	7.16E-08	3.01E-07	520	520
NDUFAF1	-0.233608225	7.08E-08	2.98E-07	520	520
C2orf79	-0.233617307	7.08E-08	2.98E-07	520	520
C1orf69	-0.23370367	7.00E-08	2.94E-07	520	520
PKP1	-0.233906992	6.81E-08	2.87E-07	520	520

RFC4	-0.233947558	6.77E-08	2.85E-07	520	520
SIAH2	-0.233963316	6.76E-08	2.85E-07	520	520
TCN1	-0.233985736	6.74E-08	2.84E-07	520	506
AACS	-0.234126367	6.62E-08	2.79E-07	520	520
PLP2	-0.234346474	6.43E-08	2.71E-07	520	520
SOD1	-0.234377681	6.40E-08	2.70E-07	520	520
MRPL24	-0.234494757	6.30E-08	2.66E-07	520	520
PPAN	-0.234546547	6.26E-08	2.65E-07	520	520
NAT1	-0.234609048	6.21E-08	2.62E-07	520	520
TMEM191A	-0.234636751	6.18E-08	2.62E-07	520	520
ZNF672	-0.23466953	6.16E-08	2.61E-07	520	520
SLC25A33	-0.234741436	6.10E-08	2.58E-07	520	520
CDC123	-0.234929919	5.95E-08	2.52E-07	520	520
GLTPD1	-0.23498019	5.91E-08	2.50E-07	520	520
PPA1	-0.235011883	5.88E-08	2.49E-07	520	520
H2AFX	-0.23508196	5.83E-08	2.47E-07	520	520
FUT1	-0.235128515	5.79E-08	2.46E-07	520	520
C17orf56	-0.235135672	5.79E-08	2.46E-07	520	520
NUP50	-0.235168483	5.76E-08	2.45E-07	520	520
ING5	-0.235207035	5.73E-08	2.43E-07	520	520
C21orf81	-0.235361283	5.62E-08	2.39E-07	520	295
CES2	-0.235362367	5.62E-08	2.39E-07	520	520
SERBP1	-0.235415161	5.58E-08	2.37E-07	520	520
FBXO9	-0.235445738	5.55E-08	2.36E-07	520	520
NCRNA00201	-0.235521081	5.50E-08	2.34E-07	520	520
PRRG4	-0.235588585	5.45E-08	2.32E-07	520	520
HNRNPL	-0.235595742	5.44E-08	2.32E-07	520	520
GTF3C6	-0.235609578	5.43E-08	2.32E-07	520	520
VPS25	-0.235620325	5.43E-08	2.31E-07	520	520
ST14	-0.235628328	5.42E-08	2.31E-07	520	520
NIT1	-0.235665931	5.39E-08	2.30E-07	520	520
RAD51	-0.235696645	5.37E-08	2.29E-07	520	520
LOC100130015	-0.235718203	5.36E-08	2.28E-07	520	518
MRPL14	-0.23575561	5.33E-08	2.27E-07	520	520
MRPL13	-0.235830694	5.28E-08	2.25E-07	520	520
PRPF39	-0.235838602	5.27E-08	2.25E-07	520	520
C1orf161	-0.235840367	5.27E-08	2.25E-07	520	515
WDR90	-0.235860834	5.25E-08	2.25E-07	520	520
ACAP3	-0.235871616	5.25E-08	2.24E-07	520	520
TAF11	-0.235917835	5.21E-08	2.23E-07	520	520
CHEK2	-0.235917867	5.21E-08	2.23E-07	520	520
KRTAP5-9	-0.235981041	5.17E-08	2.21E-07	520	447
IMMP1L	-0.236007767	5.15E-08	2.20E-07	520	520
HSD17B7	-0.236016772	5.15E-08	2.20E-07	520	520
SPRR2B	-0.236079625	5.10E-08	2.18E-07	520	506
C15orf56	-0.236378025	4.90E-08	2.10E-07	520	430

VNN1	-0.23638075	4.90E-08	2.10E-07	520	520
PCYT2	-0.236458528	4.85E-08	2.08E-07	520	520
CAPN12	-0.236538532	4.80E-08	2.06E-07	520	520
PPCS	-0.236604025	4.76E-08	2.04E-07	520	520
C1orf113	-0.236709334	4.69E-08	2.01E-07	520	520
MRPL42	-0.236763591	4.66E-08	2.00E-07	520	520
SULT1A3	-0.236787556	4.64E-08	1.99E-07	520	520
PPAP2C	-0.23680753	4.63E-08	1.99E-07	520	520
GMDS	-0.236865441	4.59E-08	1.97E-07	520	520
CCDC85C	-0.23692999	4.55E-08	1.96E-07	520	520
LOC148709	-0.236982569	4.52E-08	1.95E-07	520	483
MCCC1	-0.237067694	4.47E-08	1.93E-07	520	520
TIMM44	-0.237083155	4.46E-08	1.92E-07	520	520
EPN3	-0.237115073	4.44E-08	1.91E-07	520	519
HMSD	-0.237122205	4.44E-08	1.91E-07	520	496
ACPP	-0.237123092	4.44E-08	1.91E-07	520	520
TAF15	-0.237419187	4.27E-08	1.84E-07	520	520
MRPS7	-0.237420295	4.26E-08	1.84E-07	520	520
HDGF	-0.237469392	4.24E-08	1.83E-07	520	520
MRPS33	-0.237481822	4.23E-08	1.83E-07	520	520
LOC401052	-0.237535995	4.20E-08	1.82E-07	520	520
ZC3H8	-0.237553059	4.19E-08	1.81E-07	520	520
RPL32	-0.23762399	4.15E-08	1.80E-07	520	520
SCNN1G	-0.237635003	4.14E-08	1.79E-07	520	518
POC1A	-0.237655193	4.13E-08	1.79E-07	520	520
B3GNT8	-0.237824342	4.04E-08	1.75E-07	520	520
RPL37A	-0.237846299	4.03E-08	1.75E-07	520	520
PINX1	-0.237885853	4.01E-08	1.74E-07	520	520
STK38	-0.237966276	3.96E-08	1.72E-07	520	520
WDR5	-0.237998337	3.95E-08	1.71E-07	520	520
AIPL1	-0.238051707	3.92E-08	1.70E-07	520	336
GNRHR2	-0.238088056	3.90E-08	1.69E-07	520	520
CCDC94	-0.238365029	3.76E-08	1.63E-07	520	520
SLC27A4	-0.238365257	3.76E-08	1.63E-07	520	520
PCP2	-0.238433247	3.72E-08	1.62E-07	520	461
POLR1C	-0.238546867	3.66E-08	1.60E-07	520	520
SDHAP2	-0.238587379	3.64E-08	1.59E-07	520	520
RPL26L1	-0.238618555	3.63E-08	1.58E-07	520	520
EGFL8	-0.238626648	3.63E-08	1.58E-07	520	520
PARD6B	-0.238758	3.56E-08	1.55E-07	520	520
SPRYD4	-0.238859241	3.51E-08	1.53E-07	520	520
VDAC3	-0.238892014	3.50E-08	1.53E-07	520	520
UPF3B	-0.238902085	3.49E-08	1.53E-07	520	520
SFRS9	-0.23904265	3.43E-08	1.50E-07	520	520
BRCC3	-0.239044713	3.43E-08	1.50E-07	520	520
KHK	-0.239188467	3.36E-08	1.47E-07	520	520

EEF1B2	-0.239212815	3.35E-08	1.47E-07	520	520
GLRX3	-0.23927697	3.32E-08	1.45E-07	520	520
SEC11C	-0.239302886	3.31E-08	1.45E-07	520	520
FOXD4L1	-0.23930909	3.31E-08	1.45E-07	520	516
HCCS	-0.239433412	3.25E-08	1.43E-07	520	520
TIAL1	-0.239512702	3.22E-08	1.41E-07	520	520
DNASE1	-0.239634838	3.16E-08	1.39E-07	520	520
PKMYT1	-0.239653834	3.15E-08	1.39E-07	520	520
FEN1	-0.239760725	3.11E-08	1.37E-07	520	520
RPL41	-0.23978	3.10E-08	1.36E-07	520	520
CDT1	-0.239880168	3.06E-08	1.35E-07	520	520
ATP5G3	-0.239963586	3.02E-08	1.33E-07	520	520
C18orf56	-0.239971228	3.02E-08	1.33E-07	520	520
NOSIP	-0.240136053	2.95E-08	1.30E-07	520	520
UQCR10	-0.240183922	2.94E-08	1.30E-07	520	520
HMGA1	-0.240202985	2.93E-08	1.29E-07	520	520
C2orf48	-0.240237085	2.91E-08	1.29E-07	520	509
ATRIP	-0.240246675	2.91E-08	1.29E-07	520	520
HBXIP	-0.240251321	2.91E-08	1.29E-07	520	520
DHRS4	-0.240264166	2.90E-08	1.28E-07	520	520
MOBKL2C	-0.2402939	2.89E-08	1.28E-07	520	520
XRCC3	-0.240312877	2.88E-08	1.28E-07	520	520
USP20	-0.2403329	2.88E-08	1.27E-07	520	520
SSU72	-0.240490659	2.82E-08	1.25E-07	520	520
GNA15	-0.240536714	2.80E-08	1.24E-07	520	520
NR1I3	-0.240539741	2.80E-08	1.24E-07	520	520
C12orf62	-0.240543936	2.80E-08	1.24E-07	520	520
C6orf162	-0.24055716	2.79E-08	1.24E-07	520	520
C3orf57	-0.240586841	2.78E-08	1.23E-07	520	515
CHCHD5	-0.240644003	2.76E-08	1.22E-07	520	520
TGM7	-0.240692828	2.74E-08	1.21E-07	520	283
LOC152217	-0.240765188	2.71E-08	1.20E-07	520	520
RPS14	-0.241125093	2.58E-08	1.15E-07	520	520
PIGA	-0.241155424	2.57E-08	1.14E-07	520	520
OSBPL2	-0.24116208	2.57E-08	1.14E-07	520	520
CHAC1	-0.241238528	2.54E-08	1.13E-07	520	520
RCC2	-0.241307288	2.52E-08	1.12E-07	520	520
ATP1B3	-0.241311778	2.52E-08	1.12E-07	520	520
PRPF18	-0.241581215	2.43E-08	1.08E-07	520	520
NEAT1	-0.241607837	2.42E-08	1.08E-07	520	520
SOX21	-0.241656632	2.40E-08	1.07E-07	520	515
NCRNA00204B	-0.24165695	2.40E-08	1.07E-07	520	498
GAR1	-0.241669882	2.40E-08	1.07E-07	520	520
MXD1	-0.241671786	2.40E-08	1.07E-07	520	520
NLRX1	-0.24168267	2.39E-08	1.07E-07	520	520
DUSP22	-0.241712004	2.38E-08	1.07E-07	520	520

LYRM1	-0.241813299	2.35E-08	1.05E-07	520	520
HTR3B	-0.241886765	2.33E-08	1.04E-07	520	219
MTHFR	-0.241890904	2.33E-08	1.04E-07	520	520
HMGB2	-0.241949545	2.31E-08	1.03E-07	520	520
OTOP2	-0.241962221	2.30E-08	1.03E-07	520	450
BIK	-0.241998346	2.29E-08	1.03E-07	520	520
PSMB3	-0.242017671	2.29E-08	1.02E-07	520	520
E4F1	-0.242028308	2.28E-08	1.02E-07	520	520
DHRS4L2	-0.242076003	2.27E-08	1.02E-07	520	520
ATP5L	-0.242160431	2.24E-08	1.01E-07	520	520
FKBP3	-0.242221273	2.22E-08	9.98E-08	520	520
C20orf134	-0.242221375	2.22E-08	9.98E-08	520	520
SFRS7	-0.242226507	2.22E-08	9.98E-08	520	520
MTIF3	-0.242238083	2.22E-08	9.96E-08	520	520
ANAPC2	-0.242254878	2.21E-08	9.94E-08	520	520
MRPL53	-0.242331749	2.19E-08	9.84E-08	520	520
PQBP1	-0.242362498	2.18E-08	9.80E-08	520	520
DUT	-0.242402496	2.17E-08	9.76E-08	520	520
ADAT3	-0.242473138	2.15E-08	9.67E-08	520	520
ALDH9A1	-0.242521224	2.13E-08	9.61E-08	520	520
PHLPP1	-0.242539395	2.13E-08	9.58E-08	520	520
PSAT1	-0.24255869	2.12E-08	9.56E-08	520	520
LOC541473	-0.24259306	2.11E-08	9.52E-08	520	512
PSME1	-0.242599738	2.11E-08	9.51E-08	520	520
C19orf25	-0.242702693	2.08E-08	9.39E-08	520	520
PGBD2	-0.242705602	2.08E-08	9.39E-08	520	520
CCNE1	-0.242733319	2.07E-08	9.35E-08	520	520
NFKBIB	-0.242834545	2.04E-08	9.22E-08	520	520
EMD	-0.242987528	2.00E-08	9.04E-08	520	520
CENPM	-0.243017444	1.99E-08	9.01E-08	520	520
TIMM8A	-0.243053446	1.98E-08	8.96E-08	520	520
C9orf6	-0.243068516	1.98E-08	8.95E-08	520	520
FKBP6	-0.24314046	1.96E-08	8.87E-08	520	432
RAB40C	-0.243260351	1.93E-08	8.73E-08	520	520
ZNF576	-0.243599819	1.84E-08	8.35E-08	520	520
CPEB3	-0.243684872	1.82E-08	8.26E-08	520	520
C16orf91	-0.243775559	1.79E-08	8.16E-08	520	520
KRT33A	-0.243880456	1.77E-08	8.05E-08	520	418
OFD1	-0.243975118	1.75E-08	7.95E-08	520	520
C9orf114	-0.244104715	1.71E-08	7.82E-08	520	520
TUBG1	-0.244208244	1.69E-08	7.71E-08	520	520
COQ9	-0.244437124	1.64E-08	7.48E-08	520	520
FBXO22OS	-0.244440552	1.64E-08	7.48E-08	520	520
RPAIN	-0.244601273	1.60E-08	7.32E-08	520	520
RPL13AP3	-0.244674684	1.58E-08	7.25E-08	520	520
C2orf34	-0.244687466	1.58E-08	7.24E-08	520	520

MTA2	-0.244911316	1.53E-08	7.03E-08	520	520
LOC642846	-0.244967213	1.52E-08	6.97E-08	520	520
DHRS4L1	-0.245078038	1.50E-08	6.87E-08	520	520
TTC1	-0.245171918	1.48E-08	6.78E-08	520	520
ILVBL	-0.245190578	1.48E-08	6.77E-08	520	520
C11orf85	-0.245209634	1.47E-08	6.75E-08	520	211
FASTKD1	-0.245313222	1.45E-08	6.66E-08	520	520
NDUFS4	-0.245332878	1.45E-08	6.64E-08	520	520
LOC100216545	-0.245365067	1.44E-08	6.61E-08	520	520
FBXW9	-0.245484702	1.42E-08	6.51E-08	520	520
CCDC25	-0.245515618	1.41E-08	6.48E-08	520	520
IL1F5	-0.245517828	1.41E-08	6.48E-08	520	519
LOC127841	-0.245518631	1.41E-08	6.48E-08	520	279
C11orf83	-0.24561706	1.39E-08	6.40E-08	520	520
FAM183A	-0.245683376	1.38E-08	6.34E-08	520	514
AIFM1	-0.245733959	1.37E-08	6.30E-08	520	520
ISY1	-0.245743199	1.37E-08	6.29E-08	520	520
LINS1	-0.245779303	1.36E-08	6.26E-08	520	520
CPSF3	-0.245820946	1.35E-08	6.23E-08	520	520
DUS2L	-0.24585744	1.34E-08	6.20E-08	520	520
CAPN14	-0.245901044	1.34E-08	6.17E-08	520	515
LOC100134229	-0.245901366	1.34E-08	6.17E-08	520	520
SLC25A25	-0.245915726	1.33E-08	6.16E-08	520	520
KIAA0664	-0.245961102	1.33E-08	6.12E-08	520	520
MBD4	-0.245975712	1.32E-08	6.11E-08	520	520
PAQR6	-0.245999589	1.32E-08	6.09E-08	520	520
RPS17	-0.24603655	1.31E-08	6.06E-08	520	520
TRAIP	-0.246174768	1.29E-08	5.95E-08	520	520
CDS1	-0.246235393	1.28E-08	5.91E-08	520	520
MRPL4	-0.246357389	1.25E-08	5.81E-08	520	520
PP14571	-0.246410783	1.24E-08	5.77E-08	520	479
DBNDD1	-0.246415118	1.24E-08	5.77E-08	520	520
CCDC153	-0.246506914	1.23E-08	5.70E-08	520	520
FAM158A	-0.246542918	1.22E-08	5.67E-08	520	520
RNF39	-0.246742802	1.19E-08	5.52E-08	520	520
PLEKHM1P	-0.24677077	1.18E-08	5.50E-08	520	520
HTR3A	-0.246933203	1.16E-08	5.38E-08	520	448
TUBB4Q	-0.246942954	1.16E-08	5.38E-08	520	448
POU2F3	-0.246970911	1.15E-08	5.36E-08	520	519
ABCA7	-0.246986735	1.15E-08	5.35E-08	520	520
PHOSPHO2	-0.247002631	1.15E-08	5.34E-08	520	520
SH3BP1	-0.247016931	1.14E-08	5.33E-08	520	520
NDUFA5	-0.247053366	1.14E-08	5.30E-08	520	520
SLC6A14	-0.247136114	1.12E-08	5.24E-08	520	515
RPL7A	-0.247159587	1.12E-08	5.23E-08	520	520
WBSCR22	-0.247204996	1.11E-08	5.20E-08	520	520

CYP2E1	-0.247253599	1.11E-08	5.16E-08	520	519
MOB2	-0.24751482	1.07E-08	4.98E-08	520	520
GEN1	-0.247571952	1.06E-08	4.95E-08	520	520
LCMT1	-0.247632632	1.05E-08	4.91E-08	520	520
PLXNB1	-0.247643947	1.05E-08	4.90E-08	520	520
FBXL16	-0.247724499	1.04E-08	4.85E-08	520	520
CKS1B	-0.247767284	1.03E-08	4.83E-08	520	520
OSTalpha	-0.247779474	1.03E-08	4.82E-08	520	520
WDR85	-0.247964427	1.00E-08	4.70E-08	520	520
SPATA5L1	-0.248102049	9.82E-09	4.61E-08	520	520
VPS37B	-0.248126208	9.78E-09	4.60E-08	520	520
SUV39H2	-0.248182078	9.71E-09	4.57E-08	520	520
PRELID1	-0.248274831	9.58E-09	4.51E-08	520	520
EXOSC7	-0.248291324	9.56E-09	4.50E-08	520	520
C9orf85	-0.248307375	9.54E-09	4.49E-08	520	520
NDUFS5	-0.248323428	9.52E-09	4.48E-08	520	520
SFRS16	-0.248381655	9.44E-09	4.45E-08	520	520
TIMM8B	-0.248387334	9.43E-09	4.45E-08	520	520
SDHAP1	-0.248597733	9.15E-09	4.32E-08	520	520
UBL5	-0.248611169	9.14E-09	4.31E-08	520	520
APITD1	-0.248686552	9.04E-09	4.27E-08	520	520
BLNK	-0.248814337	8.88E-09	4.20E-08	520	520
COMMD3	-0.24888813	8.79E-09	4.15E-08	520	520
USH1G	-0.24906046	8.58E-09	4.06E-08	520	517
PPIA	-0.249218041	8.39E-09	3.98E-08	520	520
MYO5B	-0.249270511	8.32E-09	3.95E-08	520	520
MUC15	-0.249301676	8.29E-09	3.93E-08	520	510
JUP	-0.249356892	8.22E-09	3.90E-08	520	520
PCNA	-0.249423366	8.15E-09	3.87E-08	520	520
FOXD4	-0.249500567	8.06E-09	3.83E-08	520	516
PDRG1	-0.249517222	8.04E-09	3.82E-08	520	520
C17orf106	-0.249523887	8.03E-09	3.81E-08	520	520
C8orf38	-0.249807458	7.71E-09	3.67E-08	520	520
MRPS21	-0.249826663	7.69E-09	3.66E-08	520	520
PSMB4	-0.249882386	7.63E-09	3.64E-08	520	520
DCST1	-0.249925038	7.59E-09	3.61E-08	520	373
LYPLAL1	-0.249934922	7.58E-09	3.61E-08	520	520
RTN4IP1	-0.24997201	7.54E-09	3.59E-08	520	520
C8G	-0.250027232	7.48E-09	3.57E-08	520	491
MRPL16	-0.25008116	7.42E-09	3.54E-08	520	520
MST1P2	-0.250199541	7.30E-09	3.49E-08	520	519
SIVA1	-0.250217968	7.28E-09	3.48E-08	520	520
RAB9A	-0.250322554	7.17E-09	3.43E-08	520	520
ALDH16A1	-0.250338222	7.15E-09	3.42E-08	520	520
C12orf56	-0.250364976	7.13E-09	3.41E-08	520	511
BCAS2	-0.250456482	7.04E-09	3.37E-08	520	520

RPL34	-0.250488	7.00E-09	3.35E-08	520	520
FAM128A	-0.250489308	7.00E-09	3.35E-08	520	520
C1orf53	-0.250504583	6.99E-09	3.35E-08	520	520
ARSF	-0.250517292	6.97E-09	3.34E-08	520	343
FANCE	-0.250583397	6.91E-09	3.31E-08	520	520
ATP5J2	-0.250638472	6.86E-09	3.29E-08	520	520
RPL23A	-0.25065986	6.83E-09	3.28E-08	520	520
TIAF1	-0.250686559	6.81E-09	3.27E-08	520	520
MACC1	-0.250796156	6.70E-09	3.22E-08	520	520
TIAM1	-0.250806285	6.69E-09	3.22E-08	520	520
WASH3P	-0.250893038	6.61E-09	3.18E-08	520	520
NAIF1	-0.250980005	6.53E-09	3.14E-08	520	520
ZDHHHC23	-0.250999709	6.51E-09	3.13E-08	520	520
ZFAND2B	-0.251027008	6.49E-09	3.12E-08	520	520
C16orf59	-0.251076532	6.44E-09	3.10E-08	520	520
SYT14L	-0.251131097	6.39E-09	3.08E-08	520	253
PMS2L2	-0.251202805	6.33E-09	3.05E-08	520	520
UBA52	-0.251333201	6.21E-09	2.99E-08	520	520
TIMM13	-0.251355025	6.19E-09	2.98E-08	520	520
CEACAM6	-0.251584245	5.99E-09	2.89E-08	520	518
CCDC88B	-0.251619971	5.96E-09	2.88E-08	520	520
CCNO	-0.251635455	5.95E-09	2.87E-08	520	520
ABHD5	-0.251784075	5.82E-09	2.81E-08	520	520
PIF1	-0.251795023	5.81E-09	2.81E-08	520	520
MARVELD2	-0.251800768	5.81E-09	2.81E-08	520	520
PACSIN3	-0.251821211	5.79E-09	2.80E-08	520	520
LRRC45	-0.251827681	5.79E-09	2.80E-08	520	520
C17orf90	-0.251880494	5.74E-09	2.78E-08	520	520
ABLIM1	-0.251944706	5.69E-09	2.76E-08	520	520
ZNF385A	-0.251958307	5.68E-09	2.75E-08	520	520
RNASEH2A	-0.251976633	5.66E-09	2.75E-08	520	520
GAS5	-0.252117352	5.55E-09	2.70E-08	520	520
NOP10	-0.252189728	5.49E-09	2.67E-08	520	520
SCNN1D	-0.252289088	5.42E-09	2.63E-08	520	520
SPAG17	-0.252332709	5.38E-09	2.62E-08	520	517
SRP19	-0.252335366	5.38E-09	2.62E-08	520	520
RPS8	-0.252359954	5.36E-09	2.61E-08	520	520
PYCARD	-0.252384312	5.34E-09	2.60E-08	520	520
EIF2B5	-0.252531027	5.23E-09	2.55E-08	520	520
GPR37L1	-0.252665557	5.13E-09	2.50E-08	520	510
TMX2	-0.253002904	4.89E-09	2.39E-08	520	520
MBD2	-0.25302507	4.87E-09	2.38E-08	520	520
GJB5	-0.253031512	4.87E-09	2.38E-08	520	520
TMEM186	-0.253068529	4.84E-09	2.37E-08	520	520
AKR7A3	-0.253147216	4.79E-09	2.34E-08	520	519
ZWINT	-0.253200467	4.75E-09	2.32E-08	520	520

CENPT	-0.253333995	4.66E-09	2.28E-08	520	520
SF4	-0.253504103	4.55E-09	2.23E-08	520	520
L2HGDH	-0.25351257	4.54E-09	2.22E-08	520	520
TAZ	-0.253534098	4.53E-09	2.22E-08	520	520
RPS6KB2	-0.253535427	4.53E-09	2.22E-08	520	520
CHAF1A	-0.25361004	4.48E-09	2.19E-08	520	520
H2AFZ	-0.253680248	4.43E-09	2.17E-08	520	520
INTS10	-0.253757974	4.38E-09	2.15E-08	520	520
EPHX2	-0.253858516	4.32E-09	2.12E-08	520	520
SERPINB11	-0.253941068	4.27E-09	2.10E-08	520	456
BRI3BP	-0.253944736	4.27E-09	2.10E-08	520	520
NAA20	-0.253956599	4.26E-09	2.09E-08	520	520
FAM83C	-0.254038073	4.21E-09	2.07E-08	520	520
C17orf58	-0.254131824	4.15E-09	2.04E-08	520	520
C21orf58	-0.25434684	4.03E-09	1.98E-08	520	520
ZNRD1	-0.254381907	4.01E-09	1.97E-08	520	520
ZDHHC12	-0.254489871	3.94E-09	1.95E-08	520	520
GAS8	-0.25454108	3.92E-09	1.93E-08	520	520
SDHC	-0.254581792	3.89E-09	1.92E-08	520	520
EIF2S2	-0.254646706	3.86E-09	1.91E-08	520	520
LDLRAP1	-0.254699481	3.83E-09	1.89E-08	520	520
PNPO	-0.254707066	3.82E-09	1.89E-08	520	520
MRPL52	-0.254736976	3.81E-09	1.88E-08	520	520
SGK1	-0.254880954	3.73E-09	1.85E-08	520	520
SLC25A41	-0.254882183	3.73E-09	1.85E-08	520	442
GALE	-0.254926603	3.70E-09	1.83E-08	520	520
SNRPE	-0.255032386	3.65E-09	1.81E-08	520	520
MRPL1	-0.255052407	3.64E-09	1.80E-08	520	520
LMTK3	-0.255139349	3.59E-09	1.78E-08	520	520
KLK12	-0.255273034	3.52E-09	1.75E-08	520	507
POF1B	-0.255291326	3.51E-09	1.74E-08	520	520
LPAR6	-0.255385193	3.46E-09	1.72E-08	520	520
EXD3	-0.255426287	3.44E-09	1.71E-08	520	520
SERP1	-0.255437531	3.44E-09	1.71E-08	520	520
NDUFA10	-0.2555219	3.40E-09	1.69E-08	520	520
CCDC101	-0.255527622	3.39E-09	1.69E-08	520	520
HNRNPM	-0.255554782	3.38E-09	1.68E-08	520	520
CCNL1	-0.255609114	3.35E-09	1.67E-08	520	520
PRR22	-0.255653764	3.33E-09	1.66E-08	520	520
ALDH3B2	-0.255664833	3.33E-09	1.66E-08	520	520
CPLX3	-0.255685302	3.32E-09	1.65E-08	520	361
MRPS12	-0.256068681	3.14E-09	1.57E-08	520	520
TPD52	-0.256100736	3.12E-09	1.56E-08	520	520
CRYM	-0.256389547	2.99E-09	1.50E-08	520	506
PRSS22	-0.25641331	2.98E-09	1.49E-08	520	519
TPRKB	-0.256450427	2.97E-09	1.49E-08	520	520

MTPAP	-0.256462113	2.96E-09	1.48E-08	520	520
NAA50	-0.256481744	2.95E-09	1.48E-08	520	520
LOC151009	-0.256545046	2.93E-09	1.47E-08	520	520
C11orf48	-0.256572489	2.91E-09	1.46E-08	520	520
SUPV3L1	-0.256600847	2.90E-09	1.46E-08	520	520
TMEM111	-0.256667119	2.87E-09	1.44E-08	520	520
UBXN8	-0.256716919	2.85E-09	1.43E-08	520	520
LOC388152	-0.256732956	2.85E-09	1.43E-08	520	520
CTAGE4	-0.25676468	2.83E-09	1.43E-08	520	517
CDK5RAP3	-0.256951053	2.76E-09	1.39E-08	520	520
H3F3B	-0.256955429	2.76E-09	1.39E-08	520	520
DDX28	-0.257122954	2.69E-09	1.36E-08	520	520
C17orf69	-0.257131475	2.69E-09	1.36E-08	520	520
MSMB	-0.257270195	2.63E-09	1.33E-08	520	485
GLRX2	-0.257369511	2.59E-09	1.31E-08	520	520
PERP	-0.257455638	2.56E-09	1.30E-08	520	520
SERPINI2	-0.257497223	2.55E-09	1.29E-08	520	212
PPP2R2A	-0.257507174	2.54E-09	1.29E-08	520	520
C1orf159	-0.257536326	2.53E-09	1.28E-08	520	520
KLK13	-0.257683667	2.48E-09	1.26E-08	520	517
SNRNP25	-0.257758313	2.45E-09	1.24E-08	520	520
KLK11	-0.257945397	2.38E-09	1.21E-08	520	518
C1orf135	-0.258065095	2.34E-09	1.19E-08	520	520
RBM17	-0.258136614	2.32E-09	1.18E-08	520	520
SLURP1	-0.258228564	2.29E-09	1.16E-08	520	508
GIN3	-0.258266949	2.27E-09	1.16E-08	520	520
FRG1	-0.258324328	2.25E-09	1.15E-08	520	520
BTF3L4	-0.258325762	2.25E-09	1.15E-08	520	520
GCHFR	-0.258348241	2.25E-09	1.15E-08	520	520
TOMM6	-0.258411054	2.23E-09	1.14E-08	520	520
RIPK4	-0.258444951	2.22E-09	1.13E-08	520	520
MRPL30	-0.258473799	2.21E-09	1.13E-08	520	520
C3orf23	-0.258508133	2.19E-09	1.12E-08	520	520
THOC3	-0.258548703	2.18E-09	1.11E-08	520	520
PRICKLE4	-0.258632621	2.15E-09	1.10E-08	520	519
IZUMO1	-0.258665994	2.14E-09	1.10E-08	520	401
HSPA14	-0.258668376	2.14E-09	1.10E-08	520	520
FOXA1	-0.258697177	2.13E-09	1.09E-08	520	519
RALGPS1	-0.258771335	2.11E-09	1.08E-08	520	520
UQCRC1	-0.258810432	2.10E-09	1.07E-08	520	520
NUDCD2	-0.25890253	2.07E-09	1.06E-08	520	520
GPR143	-0.258909902	2.07E-09	1.06E-08	520	519
HADH	-0.259068349	2.02E-09	1.04E-08	520	520
TRIM29	-0.259148998	2.00E-09	1.02E-08	520	520
PI3	-0.259149291	2.00E-09	1.02E-08	520	520
FAM25A	-0.259342072	1.94E-09	9.98E-09	520	506

RPF1	-0.259450881	1.91E-09	9.84E-09	520	520
ADAT2	-0.259517392	1.89E-09	9.76E-09	520	520
NT5C	-0.259544561	1.88E-09	9.72E-09	520	520
TACO1	-0.259576353	1.87E-09	9.68E-09	520	520
SSBP1	-0.259685862	1.84E-09	9.53E-09	520	520
BOLA2	-0.259712915	1.84E-09	9.50E-09	520	520
MTX1	-0.259732007	1.83E-09	9.48E-09	520	520
BCO2	-0.259914186	1.78E-09	9.23E-09	520	520
ISOC1	-0.260208082	1.71E-09	8.85E-09	520	520
UBE2J2	-0.260237053	1.70E-09	8.81E-09	520	520
RPL36AL	-0.26025181	1.70E-09	8.80E-09	520	520
GBP6	-0.26027916	1.69E-09	8.77E-09	520	520
SURF6	-0.260429776	1.65E-09	8.58E-09	520	520
C14orf138	-0.260537264	1.63E-09	8.46E-09	520	520
PPP2CA	-0.260546992	1.62E-09	8.45E-09	520	520
C17orf53	-0.260695659	1.59E-09	8.28E-09	520	520
FOXN1	-0.260929668	1.53E-09	8.01E-09	520	516
FAF1	-0.260931525	1.53E-09	8.00E-09	520	520
NUAK2	-0.260972858	1.52E-09	7.96E-09	520	520
SNRNP70	-0.261393281	1.43E-09	7.49E-09	520	520
EPHA1	-0.261396004	1.43E-09	7.49E-09	520	520
ADPRHL2	-0.261408729	1.43E-09	7.48E-09	520	520
IQCC	-0.261470566	1.42E-09	7.41E-09	520	520
AMD1	-0.261484028	1.41E-09	7.40E-09	520	520
MRPL27	-0.261560434	1.40E-09	7.32E-09	520	520
SPSB3	-0.261590379	1.39E-09	7.29E-09	520	520
C14orf181	-0.261772789	1.35E-09	7.11E-09	520	520
EAPP	-0.261861895	1.34E-09	7.02E-09	520	520
SPRR1B	-0.261893595	1.33E-09	6.99E-09	520	520
COX8A	-0.262053612	1.30E-09	6.83E-09	520	520
CKB	-0.262091852	1.29E-09	6.80E-09	520	520
RPA2	-0.262236714	1.26E-09	6.65E-09	520	520
EXOSC3	-0.262348731	1.24E-09	6.55E-09	520	520
RNPC3	-0.26236944	1.24E-09	6.53E-09	520	520
FAM104B	-0.262901884	1.14E-09	6.05E-09	520	520
PPP4C	-0.262962736	1.13E-09	5.99E-09	520	520
C9orf95	-0.263122647	1.11E-09	5.86E-09	520	520
TMPRSS11F	-0.263133462	1.10E-09	5.85E-09	520	501
FLAD1	-0.263134508	1.10E-09	5.85E-09	520	520
ATP5G2	-0.263148372	1.10E-09	5.84E-09	520	520
GNRH1	-0.263241683	1.09E-09	5.77E-09	520	519
POLR3K	-0.263260506	1.08E-09	5.76E-09	520	520
LOC100288778	-0.263299691	1.08E-09	5.73E-09	520	520
BCAT2	-0.263326717	1.07E-09	5.71E-09	520	520
PMPCA	-0.263460332	1.05E-09	5.60E-09	520	520
RPP40	-0.263485552	1.05E-09	5.58E-09	520	520

CKS2	-0.263506307	1.04E-09	5.56E-09	520	520
LCN12	-0.263520338	1.04E-09	5.55E-09	520	420
C8orf55	-0.263536322	1.04E-09	5.54E-09	520	520
IPPK	-0.263542137	1.04E-09	5.54E-09	520	520
CCDC150	-0.263575462	1.03E-09	5.51E-09	520	520
HOOK1	-0.263747949	1.01E-09	5.38E-09	520	520
UBE2M	-0.263766371	1.00E-09	5.37E-09	520	520
CYP3A5	-0.263779306	1.00E-09	5.36E-09	520	519
ALDH3A2	-0.263820059	9.96E-10	5.33E-09	520	520
COX17	-0.263857152	9.90E-10	5.30E-09	520	520
STYK1	-0.263897869	9.84E-10	5.27E-09	520	520
C6orf192	-0.263943877	9.77E-10	5.24E-09	520	520
GPR109B	-0.263978593	9.72E-10	5.21E-09	520	520
TBX6	-0.264005023	9.68E-10	5.19E-09	520	520
C11orf35	-0.264023205	9.66E-10	5.18E-09	520	519
POP5	-0.264127822	9.50E-10	5.10E-09	520	520
LARP4B	-0.264163844	9.45E-10	5.08E-09	520	520
FAM110A	-0.264207028	9.39E-10	5.05E-09	520	520
BCL2L15	-0.264237272	9.35E-10	5.03E-09	520	510
RPS24	-0.264249606	9.33E-10	5.02E-09	520	520
PDCL3	-0.26434958	9.19E-10	4.95E-09	520	520
RPL36	-0.26436968	9.16E-10	4.93E-09	520	520
NDUFA6	-0.264390802	9.14E-10	4.92E-09	520	520
LRIT3	-0.264425986	9.09E-10	4.89E-09	520	477
ODF4	-0.264441335	9.07E-10	4.88E-09	520	183
NDUFB11	-0.264520682	8.96E-10	4.83E-09	520	520
SERPIN2	-0.264589534	8.87E-10	4.78E-09	520	518
DKK4	-0.264860035	8.51E-10	4.59E-09	520	366
SPDYA	-0.264953123	8.39E-10	4.54E-09	520	517
KEAP1	-0.265013179	8.32E-10	4.50E-09	520	520
SLC25A3	-0.265206535	8.08E-10	4.38E-09	520	520
BCL11A	-0.265264516	8.01E-10	4.34E-09	520	520
PBK	-0.265279873	7.99E-10	4.33E-09	520	520
ZNF219	-0.265301377	7.96E-10	4.32E-09	520	520
DUOX1	-0.265579633	7.63E-10	4.15E-09	520	520
C2orf15	-0.265581724	7.63E-10	4.15E-09	520	518
ELOVL7	-0.265607752	7.60E-10	4.13E-09	520	520
NDUFB10	-0.265633238	7.57E-10	4.12E-09	520	520
KCTD1	-0.265672148	7.53E-10	4.09E-09	520	520
SLC4A11	-0.265754778	7.43E-10	4.05E-09	520	520
MIDN	-0.265793496	7.39E-10	4.02E-09	520	520
PTPN2	-0.265852499	7.32E-10	3.99E-09	520	520
RPS21	-0.266101572	7.05E-10	3.84E-09	520	520
UPK3BL	-0.266113583	7.04E-10	3.84E-09	520	519
ITPKC	-0.266161693	6.99E-10	3.81E-09	520	520
HNRNPA1	-0.266264766	6.88E-10	3.76E-09	520	520

RPS19	-0.266454226	6.68E-10	3.65E-09	520	520
HDAC1	-0.266477305	6.66E-10	3.64E-09	520	520
PTGR2	-0.26659884	6.54E-10	3.58E-09	520	520
CEP70	-0.266609699	6.53E-10	3.57E-09	520	520
TMPRSS2	-0.266663525	6.47E-10	3.54E-09	520	508
DNASE1L3	-0.267176529	5.99E-10	3.28E-09	520	519
IL1F9	-0.267199136	5.97E-10	3.27E-09	520	519
MRRF	-0.267228912	5.94E-10	3.26E-09	520	520
TIMM16	-0.267234806	5.93E-10	3.26E-09	520	520
CDC25A	-0.267260117	5.91E-10	3.25E-09	520	520
RPS27	-0.267260381	5.91E-10	3.25E-09	520	520
FAM25B	-0.267269686	5.90E-10	3.24E-09	520	486
GSS	-0.267400575	5.79E-10	3.18E-09	520	520
SLC25A5	-0.267407259	5.78E-10	3.18E-09	520	520
LENG9	-0.26750449	5.69E-10	3.14E-09	520	520
RNMTL1	-0.267508321	5.69E-10	3.14E-09	520	520
LEAP2	-0.267565478	5.64E-10	3.11E-09	520	485
ZNF784	-0.267723373	5.51E-10	3.04E-09	520	520
NSUN5P2	-0.267758334	5.48E-10	3.02E-09	520	520
TMEM141	-0.267764637	5.47E-10	3.02E-09	520	520
ZNF789	-0.267787822	5.45E-10	3.01E-09	520	520
ENOSF1	-0.267799422	5.44E-10	3.01E-09	520	520
PSMB7	-0.267848223	5.40E-10	2.99E-09	520	520
TJP2	-0.268056195	5.23E-10	2.90E-09	520	520
TMEM171	-0.268069234	5.22E-10	2.89E-09	520	520
SEMA4A	-0.268183079	5.13E-10	2.84E-09	520	520
NAP1L4	-0.268198366	5.12E-10	2.84E-09	520	520
MRPL54	-0.268353783	5.00E-10	2.77E-09	520	520
HOPX	-0.268433199	4.94E-10	2.74E-09	520	520
NUDT1	-0.268473727	4.91E-10	2.73E-09	520	520
TBCA	-0.268637282	4.79E-10	2.66E-09	520	520
CWF19L1	-0.268648333	4.78E-10	2.66E-09	520	520
MRPL12	-0.26866756	4.76E-10	2.65E-09	520	520
CARD14	-0.268711977	4.73E-10	2.63E-09	520	520
AIMP1	-0.268731567	4.72E-10	2.63E-09	520	520
SFRS12IP1	-0.268761109	4.70E-10	2.62E-09	520	520
AP1M2	-0.268899105	4.60E-10	2.57E-09	520	520
ABT1	-0.268971599	4.55E-10	2.54E-09	520	520
COQ7	-0.269110262	4.45E-10	2.49E-09	520	520
SFN	-0.269213833	4.38E-10	2.45E-09	520	520
APOO	-0.269432302	4.24E-10	2.37E-09	520	520
PLEKHH1	-0.26964636	4.10E-10	2.30E-09	520	520
SNHG12	-0.269676797	4.08E-10	2.29E-09	520	520
LRDD	-0.269758419	4.03E-10	2.26E-09	520	520
MED7	-0.26978125	4.01E-10	2.26E-09	520	520
MRPL37	-0.269855641	3.97E-10	2.23E-09	520	520

RPS15	-0.270067646	3.84E-10	2.16E-09	520	520
SCNN1B	-0.27019558	3.77E-10	2.12E-09	520	516
MYL5	-0.270256688	3.73E-10	2.10E-09	520	520
ARPC3	-0.270388886	3.65E-10	2.06E-09	520	520
MRPL23	-0.270484051	3.60E-10	2.03E-09	520	520
FAM195A	-0.27056518	3.56E-10	2.01E-09	520	520
APEX2	-0.27060051	3.54E-10	2.00E-09	520	520
PSMG4	-0.270741604	3.46E-10	1.96E-09	520	520
EIF6	-0.270879091	3.39E-10	1.92E-09	520	520
CDRT1	-0.27090409	3.37E-10	1.91E-09	520	520
RPL36A	-0.270954741	3.35E-10	1.89E-09	520	520
LOC284632	-0.271019577	3.31E-10	1.88E-09	520	324
CCDC72	-0.271063386	3.29E-10	1.86E-09	520	520
RECQL5	-0.271110082	3.27E-10	1.85E-09	520	520
MLF1IP	-0.271138526	3.25E-10	1.84E-09	520	520
SMAD5OS	-0.271331815	3.16E-10	1.79E-09	520	520
STARD5	-0.271790871	2.94E-10	1.67E-09	520	520
C15orf40	-0.271815096	2.93E-10	1.67E-09	520	520
SLC2A8	-0.272098559	2.80E-10	1.60E-09	520	520
TEC	-0.272100519	2.80E-10	1.60E-09	520	520
LTA4H	-0.272130349	2.79E-10	1.59E-09	520	520
CACYBP	-0.272140485	2.78E-10	1.59E-09	520	520
HMG2	-0.272160556	2.78E-10	1.58E-09	520	520
NIT2	-0.272304445	2.71E-10	1.55E-09	520	520
MCAT	-0.272374545	2.69E-10	1.53E-09	520	520
SNHG1	-0.272389284	2.68E-10	1.53E-09	520	520
PSMG1	-0.272433383	2.66E-10	1.52E-09	520	520
MITD1	-0.272527615	2.62E-10	1.50E-09	520	520
D2HGDH	-0.272579468	2.60E-10	1.49E-09	520	520
PIH1D1	-0.272582628	2.60E-10	1.49E-09	520	520
FFAR2	-0.272628493	2.58E-10	1.48E-09	520	519
CYP4B1	-0.272723449	2.54E-10	1.46E-09	520	486
NDUFA13	-0.272750755	2.53E-10	1.45E-09	520	520
FGFBP1	-0.272779521	2.52E-10	1.45E-09	520	520
KAT2A	-0.272796395	2.51E-10	1.44E-09	520	520
GPR172B	-0.272929843	2.46E-10	1.41E-09	520	520
RPS15A	-0.272972231	2.45E-10	1.41E-09	520	520
ETV2	-0.273226174	2.35E-10	1.35E-09	520	520
ZNF552	-0.273493302	2.25E-10	1.30E-09	520	520
MDH1	-0.273609977	2.21E-10	1.28E-09	520	520
POLB	-0.273626652	2.21E-10	1.28E-09	520	520
AURKAIP1	-0.273757536	2.16E-10	1.25E-09	520	520
KIAA1522	-0.273797301	2.15E-10	1.24E-09	520	520
TUFM	-0.273858381	2.13E-10	1.23E-09	520	520
MRPL50	-0.273991585	2.09E-10	1.21E-09	520	520
ZYG11A	-0.274272539	2.00E-10	1.16E-09	520	496

CEBPG	-0.274278612	1.99E-10	1.16E-09	520	520
ZNF524	-0.27427947	1.99E-10	1.16E-09	520	520
SCEL	-0.274331656	1.98E-10	1.15E-09	520	520
RBM34	-0.274340563	1.97E-10	1.15E-09	520	520
FAAH	-0.274558151	1.91E-10	1.11E-09	520	520
CBWD2	-0.274687106	1.87E-10	1.09E-09	520	520
MRPS11	-0.274753435	1.85E-10	1.08E-09	520	520
PTGES3	-0.274789626	1.84E-10	1.07E-09	520	520
RPS10	-0.274985078	1.78E-10	1.04E-09	520	520
C9orf45	-0.275066912	1.76E-10	1.03E-09	520	520
LOC100271831	-0.275240843	1.71E-10	1.00E-09	520	514
GTF2B	-0.275265474	1.71E-10	1.00E-09	520	520
NSUN5P1	-0.275525026	1.64E-10	9.62E-10	520	520
YOD1	-0.275622186	1.61E-10	9.48E-10	520	520
FBL	-0.27568826	1.60E-10	9.38E-10	520	520
TRIAP1	-0.275711809	1.59E-10	9.35E-10	520	520
BLVRB	-0.275761466	1.58E-10	9.28E-10	520	520
NDUFB7	-0.275922805	1.54E-10	9.05E-10	520	520
MAT2A	-0.276084605	1.50E-10	8.83E-10	520	520
LSM4	-0.276155471	1.48E-10	8.74E-10	520	520
CTRL	-0.276245919	1.46E-10	8.62E-10	520	520
MRPL35	-0.276256326	1.46E-10	8.60E-10	520	520
PTTG3P	-0.276277682	1.45E-10	8.58E-10	520	520
ZCCHC10	-0.276598298	1.38E-10	8.17E-10	520	520
ALOX12B	-0.27700338	1.30E-10	7.67E-10	520	517
A2ML1	-0.277056149	1.29E-10	7.61E-10	520	518
MFSD5	-0.277076578	1.28E-10	7.59E-10	520	520
OCLN	-0.277191469	1.26E-10	7.46E-10	520	520
SFPQ	-0.277401424	1.22E-10	7.22E-10	520	520
CBWD1	-0.277431933	1.21E-10	7.19E-10	520	520
CALML4	-0.27754191	1.19E-10	7.07E-10	520	520
NMRAL1	-0.277717968	1.16E-10	6.88E-10	520	520
PSTK	-0.277797626	1.14E-10	6.80E-10	520	520
C9orf140	-0.277980187	1.11E-10	6.60E-10	520	520
NACAP1	-0.27801443	1.10E-10	6.57E-10	520	520
REC8	-0.278110139	1.09E-10	6.48E-10	520	520
STRBP	-0.278122065	1.08E-10	6.47E-10	520	520
PDHA1	-0.278191098	1.07E-10	6.40E-10	520	520
PCCB	-0.278313945	1.05E-10	6.29E-10	520	520
ASF1B	-0.278420841	1.03E-10	6.19E-10	520	520
BIN3	-0.27860436	1.00E-10	6.02E-10	520	520
HNRNPAB	-0.279005604	9.42E-11	5.66E-10	520	520
C1orf156	-0.27907504	9.31E-11	5.60E-10	520	520
HSDL2	-0.279083417	9.30E-11	5.59E-10	520	520
PIGX	-0.279130985	9.23E-11	5.55E-10	520	520
NR2C2AP	-0.279138555	9.22E-11	5.54E-10	520	520

RPL18	-0.279320016	8.95E-11	5.39E-10	520	520
SF3B14	-0.279374326	8.88E-11	5.35E-10	520	520
CDK1	-0.279472715	8.74E-11	5.28E-10	520	520
SERPINB13	-0.279531578	8.66E-11	5.23E-10	520	520
PFDN6	-0.279609188	8.55E-11	5.17E-10	520	520
IDH3A	-0.279651377	8.49E-11	5.14E-10	520	520
C10orf99	-0.279712537	8.41E-11	5.09E-10	520	519
MRPS16	-0.279730002	8.38E-11	5.08E-10	520	520
LRRRC16B	-0.279739124	8.37E-11	5.07E-10	520	520
CLIC3	-0.279773763	8.32E-11	5.05E-10	520	520
ADH7	-0.27992287	8.13E-11	4.94E-10	520	506
PSCA	-0.279984184	8.05E-11	4.89E-10	520	519
SFRS2	-0.280016646	8.01E-11	4.87E-10	520	520
C9orf103	-0.28003959	7.98E-11	4.85E-10	520	520
C15orf29	-0.280091168	7.91E-11	4.82E-10	520	520
RASSF5	-0.280098718	7.90E-11	4.81E-10	520	520
ATP5S	-0.280114915	7.88E-11	4.80E-10	520	520
ZNHIT3	-0.280268399	7.69E-11	4.69E-10	520	520
PABPN1	-0.280341909	7.60E-11	4.64E-10	520	520
C14orf80	-0.280349816	7.59E-11	4.63E-10	520	520
MUC4	-0.280381917	7.55E-11	4.61E-10	520	518
ATG16L2	-0.280419514	7.50E-11	4.59E-10	520	520
DPY30	-0.280451632	7.46E-11	4.57E-10	520	520
GRPEL2	-0.280526467	7.38E-11	4.52E-10	520	520
COQ2	-0.280626998	7.26E-11	4.45E-10	520	520
MRPS15	-0.280788358	7.07E-11	4.34E-10	520	520
SAC3D1	-0.280818513	7.04E-11	4.32E-10	520	520
PRKCZ	-0.280962963	6.87E-11	4.23E-10	520	520
PAK6	-0.280969979	6.87E-11	4.22E-10	520	520
MAP3K6	-0.281085083	6.74E-11	4.15E-10	520	520
PA2G4P4	-0.281120717	6.70E-11	4.13E-10	520	520
IMPA2	-0.281227692	6.59E-11	4.06E-10	520	520
POP7	-0.281302085	6.51E-11	4.02E-10	520	520
TRA2B	-0.281377878	6.43E-11	3.97E-10	520	520
BCCIP	-0.281402689	6.40E-11	3.95E-10	520	520
AK2	-0.28143476	6.37E-11	3.93E-10	520	520
NASP	-0.281516069	6.29E-11	3.88E-10	520	520
ATP8B5P	-0.281545157	6.26E-11	3.87E-10	520	520
CYCS	-0.281615066	6.19E-11	3.83E-10	520	520
C3orf62	-0.281700937	6.10E-11	3.78E-10	520	520
C16orf7	-0.281706722	6.10E-11	3.77E-10	520	520
RNF183	-0.282139756	5.68E-11	3.53E-10	520	439
GTPBP8	-0.282201488	5.63E-11	3.49E-10	520	520
DUS1L	-0.28238711	5.46E-11	3.40E-10	520	520
CSAD	-0.282466729	5.39E-11	3.36E-10	520	520
ADAM15	-0.28282469	5.08E-11	3.17E-10	520	520

NRTN	-0.282862601	5.05E-11	3.15E-10	520	517
ZNF276	-0.282892254	5.03E-11	3.14E-10	520	520
SUMO2	-0.282910544	5.01E-11	3.13E-10	520	520
PPP1R7	-0.283210129	4.77E-11	2.99E-10	520	520
ATPAF1	-0.283494912	4.56E-11	2.86E-10	520	520
C1orf170	-0.283521701	4.54E-11	2.85E-10	520	520
PSMA5	-0.283560636	4.51E-11	2.83E-10	520	520
RPS29	-0.283619654	4.47E-11	2.80E-10	520	520
C3orf54	-0.284075335	4.15E-11	2.61E-10	520	520
ALKBH6	-0.284076937	4.15E-11	2.61E-10	520	520
NDUFS3	-0.284101412	4.13E-11	2.60E-10	520	520
TSTD1	-0.284257228	4.02E-11	2.54E-10	520	520
C10orf58	-0.284337313	3.97E-11	2.51E-10	520	520
RPL6	-0.2843442	3.97E-11	2.51E-10	520	520
PDIK1L	-0.284710489	3.74E-11	2.36E-10	520	520
DEGS2	-0.284784071	3.69E-11	2.34E-10	520	518
CTNNBIP1	-0.284787876	3.69E-11	2.34E-10	520	520
PSMC5	-0.284835064	3.66E-11	2.32E-10	520	520
NUP37	-0.284858262	3.65E-11	2.31E-10	520	520
PAX9	-0.284862901	3.64E-11	2.31E-10	520	520
RPL11	-0.284925304	3.61E-11	2.29E-10	520	520
TXNL4A	-0.284938653	3.60E-11	2.28E-10	520	520
POLR2J4	-0.285005751	3.56E-11	2.26E-10	520	520
NDUFA12	-0.285092862	3.51E-11	2.23E-10	520	520
FLJ42289	-0.285106321	3.50E-11	2.22E-10	520	520
C4orf23	-0.2852086	3.44E-11	2.19E-10	520	520
SHFM1	-0.285281546	3.40E-11	2.17E-10	520	520
AQP3	-0.285364704	3.36E-11	2.14E-10	520	520
PPP2R5A	-0.285384829	3.35E-11	2.13E-10	520	520
HSD17B10	-0.28579591	3.13E-11	1.99E-10	520	520
RAET1E	-0.286089741	2.98E-11	1.90E-10	520	519
CYP2C19	-0.286192126	2.93E-11	1.87E-10	520	374
OXSM	-0.286224822	2.91E-11	1.86E-10	520	520
LDLRAD1	-0.286246903	2.90E-11	1.86E-10	520	265
DEFB4A	-0.286374562	2.84E-11	1.82E-10	520	462
NOP58	-0.286417977	2.82E-11	1.81E-10	520	520
SNRPG	-0.286592896	2.74E-11	1.76E-10	520	520
HSPE1	-0.286739245	2.68E-11	1.72E-10	520	520
PLCXD1	-0.286802678	2.65E-11	1.70E-10	520	520
MAGIX	-0.287011971	2.56E-11	1.64E-10	520	520
ZNF541	-0.28706567	2.54E-11	1.63E-10	520	484
TCEA3	-0.287074195	2.53E-11	1.63E-10	520	520
THOC7	-0.287178016	2.49E-11	1.60E-10	520	520
EIF3K	-0.287250258	2.46E-11	1.59E-10	520	520
PSMG2	-0.287294203	2.44E-11	1.57E-10	520	520
PPFIBP2	-0.287473197	2.37E-11	1.53E-10	520	520

UBE2D2	-0.287876713	2.22E-11	1.43E-10	520	520
LOC81691	-0.288250615	2.08E-11	1.35E-10	520	520
NFATC2IP	-0.288321418	2.06E-11	1.33E-10	520	520
ATP10B	-0.288489187	2.00E-11	1.30E-10	520	520
NDUFA1	-0.288548815	1.98E-11	1.29E-10	520	520
C19orf43	-0.288660317	1.95E-11	1.26E-10	520	520
ILDR1	-0.288725783	1.93E-11	1.25E-10	520	519
RPS27A	-0.288764029	1.91E-11	1.24E-10	520	520
ALS2CL	-0.288808934	1.90E-11	1.23E-10	520	520
HSPB11	-0.288917899	1.86E-11	1.21E-10	520	520
BLOC1S1	-0.288932858	1.86E-11	1.21E-10	520	520
RPS7	-0.289009414	1.84E-11	1.19E-10	520	520
C2orf29	-0.289089971	1.81E-11	1.18E-10	520	520
RFC2	-0.289133358	1.80E-11	1.17E-10	520	520
FBXO25	-0.289163768	1.79E-11	1.17E-10	520	520
TMEM79	-0.289262375	1.76E-11	1.15E-10	520	520
C14orf73	-0.289311782	1.75E-11	1.14E-10	520	509
WASH7P	-0.289420173	1.71E-11	1.12E-10	520	520
FAM129B	-0.289467688	1.70E-11	1.11E-10	520	520
C6orf26	-0.28949294	1.69E-11	1.11E-10	520	520
LOC284837	-0.289553866	1.68E-11	1.10E-10	520	520
LOC284233	-0.289584661	1.67E-11	1.09E-10	520	390
CETN3	-0.289598857	1.66E-11	1.09E-10	520	520
FANCL	-0.289714528	1.63E-11	1.07E-10	520	520
OTOP3	-0.289811987	1.61E-11	1.05E-10	520	442
CES3	-0.289853426	1.60E-11	1.05E-10	520	519
GTF3C5	-0.289910906	1.58E-11	1.04E-10	520	520
CHMP2A	-0.290200132	1.51E-11	9.90E-11	520	520
SLC27A5	-0.290497202	1.43E-11	9.43E-11	520	520
MRPS5	-0.290518343	1.43E-11	9.40E-11	520	520
TYSND1	-0.290520809	1.43E-11	9.40E-11	520	520
TRUB2	-0.290545029	1.42E-11	9.36E-11	520	520
SNRPD3	-0.290778522	1.37E-11	9.01E-11	520	520
MRPL47	-0.290791118	1.36E-11	9.00E-11	520	520
SFRS5	-0.290821541	1.36E-11	8.95E-11	520	520
COX16	-0.290910414	1.34E-11	8.83E-11	520	520
USF1	-0.290947701	1.33E-11	8.78E-11	520	520
COMMD4	-0.290992739	1.32E-11	8.73E-11	520	520
EIF4EBP3	-0.291447984	1.22E-11	8.10E-11	520	520
SFXN4	-0.291465509	1.22E-11	8.08E-11	520	520
FAM193B	-0.291552038	1.20E-11	7.97E-11	520	520
TREX1	-0.291872048	1.14E-11	7.56E-11	520	520
LYPD3	-0.291982385	1.12E-11	7.43E-11	520	520
ZFYVE19	-0.292104189	1.09E-11	7.29E-11	520	520
C16orf75	-0.292527597	1.02E-11	6.80E-11	520	520
NDUFB6	-0.292822709	9.68E-12	6.48E-11	520	520

COX41	-0.292825511	9.68E-12	6.48E-11	520	520
SPRR2E	-0.292847095	9.64E-12	6.46E-11	520	518
CCDC120	-0.292892997	9.57E-12	6.41E-11	520	520
EPHA2	-0.293102367	9.23E-12	6.20E-11	520	520
C22orf32	-0.293173487	9.12E-12	6.13E-11	520	520
MIR17HG	-0.293262942	8.99E-12	6.04E-11	520	518
BAT1	-0.293361247	8.84E-12	5.95E-11	520	520
SCO2	-0.293456016	8.70E-12	5.86E-11	520	520
PSMA6	-0.293459021	8.69E-12	5.86E-11	520	520
LAD1	-0.293516624	8.61E-12	5.80E-11	520	520
RPL35	-0.293566681	8.53E-12	5.76E-11	520	520
PART1	-0.293602849	8.48E-12	5.72E-11	520	500
SSNA1	-0.293752024	8.27E-12	5.59E-11	520	520
HMGN1	-0.293866833	8.11E-12	5.49E-11	520	520
RPL35A	-0.294045258	7.87E-12	5.33E-11	520	520
C21orf15	-0.294543181	7.23E-12	4.91E-11	520	361
NDUFB5	-0.294586673	7.18E-12	4.87E-11	520	520
TSFM	-0.294616847	7.14E-12	4.85E-11	520	520
GPT2	-0.294643457	7.11E-12	4.83E-11	520	520
KRT4	-0.294713596	7.02E-12	4.78E-11	520	518
CDH26	-0.294936891	6.76E-12	4.61E-11	520	520
SFTA2	-0.29517735	6.49E-12	4.43E-11	520	307
C9orf40	-0.295197177	6.47E-12	4.42E-11	520	520
HOMEZ	-0.295432434	6.21E-12	4.25E-11	520	520
SEC22A	-0.295564228	6.07E-12	4.16E-11	520	520
EXPH5	-0.295631253	6.00E-12	4.11E-11	520	520
ANKRD9	-0.295847715	5.79E-12	3.97E-11	520	520
HLF	-0.295848013	5.78E-12	3.97E-11	520	520
GMNN	-0.295905064	5.73E-12	3.93E-11	520	520
ATP5D	-0.296040611	5.60E-12	3.85E-11	520	520
EXOSC5	-0.296124095	5.52E-12	3.80E-11	520	520
LUC7L3	-0.296306996	5.35E-12	3.68E-11	520	520
HSBP1L1	-0.296341718	5.32E-12	3.66E-11	520	520
ARV1	-0.296380279	5.28E-12	3.64E-11	520	520
MND1	-0.296397199	5.27E-12	3.63E-11	520	520
C9orf142	-0.296506249	5.17E-12	3.56E-11	520	520
OIP5	-0.296559177	5.12E-12	3.54E-11	520	520
C19orf39	-0.296633113	5.06E-12	3.49E-11	520	520
RPL39	-0.296803125	4.91E-12	3.40E-11	520	520
EBPL	-0.296803356	4.91E-12	3.40E-11	520	520
SS18L2	-0.296839005	4.88E-12	3.38E-11	520	520
SPINT1	-0.296943064	4.79E-12	3.32E-11	520	520
CCBL2	-0.296952498	4.79E-12	3.32E-11	520	520
TALDO1	-0.296961308	4.78E-12	3.31E-11	520	520
IL19	-0.297060573	4.70E-12	3.26E-11	520	482
ETFA	-0.297182394	4.60E-12	3.20E-11	520	520

POLR2H	-0.297200638	4.59E-12	3.19E-11	520	520
PPIH	-0.297281642	4.52E-12	3.15E-11	520	520
WDR8	-0.297360475	4.46E-12	3.11E-11	520	520
RCCD1	-0.297408086	4.43E-12	3.08E-11	520	520
EDF1	-0.297551164	4.32E-12	3.01E-11	520	520
SLC10A5	-0.297612202	4.27E-12	2.98E-11	520	494
CCHCR1	-0.297780053	4.15E-12	2.90E-11	520	520
SPPL3	-0.297855495	4.10E-12	2.86E-11	520	520
YTHDF2	-0.29798101	4.01E-12	2.80E-11	520	520
ZNF185	-0.298147546	3.90E-12	2.72E-11	520	520
CATSPER2	-0.298525266	3.65E-12	2.56E-11	520	520
CNTD1	-0.29863037	3.58E-12	2.51E-11	520	520
C6orf125	-0.298665988	3.56E-12	2.50E-11	520	520
SRRT	-0.298919836	3.41E-12	2.39E-11	520	520
EML2	-0.298935129	3.40E-12	2.39E-11	520	520
ATP5I	-0.299086338	3.31E-12	2.33E-11	520	520
TMEM183A	-0.299165638	3.27E-12	2.30E-11	520	520
PLIN5	-0.299248855	3.22E-12	2.27E-11	520	513
MRP63	-0.299343253	3.17E-12	2.23E-11	520	520
MFSD2B	-0.299382332	3.15E-12	2.22E-11	520	520
RAB3D	-0.299400087	3.14E-12	2.21E-11	520	520
BPNT1	-0.299567574	3.05E-12	2.15E-11	520	520
LOC100125556	-0.299818161	2.92E-12	2.06E-11	520	520
MRPL38	-0.300046683	2.80E-12	1.99E-11	520	520
CRNN	-0.300054346	2.80E-12	1.99E-11	520	501
SMARCD2	-0.300379012	2.65E-12	1.88E-11	520	520
C14orf156	-0.300382277	2.64E-12	1.88E-11	520	520
CCDC12	-0.300484091	2.60E-12	1.85E-11	520	520
TIPIN	-0.300485259	2.60E-12	1.85E-11	520	520
DEF6	-0.300498233	2.59E-12	1.85E-11	520	520
NRADDP	-0.300619466	2.54E-12	1.81E-11	520	463
ERBB2	-0.30100012	2.37E-12	1.70E-11	520	520
LSM5	-0.301249872	2.27E-12	1.63E-11	520	520
IDI1	-0.301388738	2.22E-12	1.59E-11	520	520
OGFOD2	-0.301472801	2.19E-12	1.57E-11	520	520
C17orf37	-0.301550962	2.16E-12	1.55E-11	520	520
LOC642587	-0.301880356	2.03E-12	1.46E-11	520	520
GSDMB	-0.301982683	2.00E-12	1.44E-11	520	520
CCDC137	-0.302092443	1.96E-12	1.41E-11	520	520
PIR	-0.302181012	1.93E-12	1.39E-11	520	520
MRPL20	-0.30218606	1.93E-12	1.39E-11	520	520
GOLGA2B	-0.302216445	1.92E-12	1.38E-11	520	520
PLEKHJ1	-0.302217409	1.92E-12	1.38E-11	520	520
MPZL2	-0.302585465	1.80E-12	1.30E-11	520	520
FAM3B	-0.302636012	1.78E-12	1.29E-11	520	503
HEBP2	-0.303130346	1.63E-12	1.19E-11	520	520

PRR15L	-0.303142069	1.63E-12	1.18E-11	520	517
NDUFA8	-0.303177507	1.62E-12	1.18E-11	520	520
SNRPA	-0.303555482	1.52E-12	1.10E-11	520	520
PTGES2	-0.303669592	1.49E-12	1.08E-11	520	520
MRPS34	-0.303755065	1.46E-12	1.07E-11	520	520
MAL	-0.303784209	1.46E-12	1.06E-11	520	520
ZBTB48	-0.303803726	1.45E-12	1.06E-11	520	520
APOBEC3A	-0.303842456	1.44E-12	1.05E-11	520	520
SYF2	-0.304388215	1.31E-12	9.59E-12	520	520
C19orf48	-0.304471499	1.29E-12	9.46E-12	520	520
KIAA0101	-0.304488233	1.29E-12	9.44E-12	520	520
COASY	-0.30457033	1.27E-12	9.31E-12	520	520
GCH1	-0.304728836	1.23E-12	9.06E-12	520	520
ID1	-0.304729957	1.23E-12	9.06E-12	520	520
PPIL5	-0.304758746	1.23E-12	9.02E-12	520	520
SPINK7	-0.304949234	1.18E-12	8.73E-12	520	476
NBEAL2	-0.304975903	1.18E-12	8.69E-12	520	520
IER2	-0.305027943	1.17E-12	8.62E-12	520	520
TRIM11	-0.30508664	1.16E-12	8.53E-12	520	520
C9orf23	-0.305096493	1.15E-12	8.52E-12	520	520
TMEM45B	-0.305195102	1.13E-12	8.38E-12	520	520
ARF6	-0.305351222	1.10E-12	8.15E-12	520	520
PSMA3	-0.305434422	1.09E-12	8.04E-12	520	520
C1orf151	-0.305581419	1.06E-12	7.84E-12	520	520
CAPNS2	-0.305760012	1.03E-12	7.60E-12	520	518
CCDC51	-0.305809025	1.02E-12	7.54E-12	520	520
REN	-0.305850436	1.01E-12	7.49E-12	520	351
PRDX2	-0.305974447	9.87E-13	7.34E-12	520	520
MED18	-0.30619852	9.49E-13	7.06E-12	520	520
COMTD1	-0.306254911	9.39E-13	6.99E-12	520	520
SARNP	-0.306296039	9.32E-13	6.94E-12	520	520
EPS8L2	-0.306360935	9.22E-13	6.87E-12	520	520
GCNT3	-0.306364974	9.21E-13	6.87E-12	520	518
ESRRA	-0.306438319	9.09E-13	6.78E-12	520	520
CYP2C9	-0.306449229	9.07E-13	6.77E-12	520	409
TPRXL	-0.30645949	9.06E-13	6.76E-12	520	518
LOC100130691	-0.306480642	9.02E-13	6.74E-12	520	520
C10orf116	-0.306554195	8.90E-13	6.66E-12	520	520
CYP2D6	-0.30682418	8.49E-13	6.35E-12	520	517
EPHX3	-0.306834567	8.47E-13	6.34E-12	520	520
SPRR2D	-0.306931038	8.32E-13	6.24E-12	520	520
THOC1	-0.307405282	7.65E-13	5.75E-12	520	520
LOC643387	-0.307405824	7.65E-13	5.75E-12	520	520
GEMIN8P4	-0.307448241	7.59E-13	5.71E-12	520	520
RAD9B	-0.307605674	7.38E-13	5.55E-12	520	520
SDHB	-0.307624229	7.35E-13	5.54E-12	520	520

PRSS8	-0.307788358	7.14E-13	5.38E-12	520	520
DNAJC9	-0.307794785	7.13E-13	5.38E-12	520	520
PRPSAP2	-0.308059473	6.80E-13	5.14E-12	520	520
DNAJC19	-0.308139203	6.71E-13	5.08E-12	520	520
C15orf63	-0.308172019	6.67E-13	5.05E-12	520	520
SLC25A28	-0.30818976	6.64E-13	5.04E-12	520	520
ZNF692	-0.308640682	6.13E-13	4.66E-12	520	520
ANKRD22	-0.308645554	6.12E-13	4.66E-12	520	520
GPR144	-0.308730634	6.03E-13	4.59E-12	520	437
ATP5F1	-0.308734301	6.03E-13	4.59E-12	520	520
PPL	-0.308806486	5.95E-13	4.53E-12	520	520
NARFL	-0.308901324	5.85E-13	4.46E-12	520	520
NDUFA2	-0.308945863	5.80E-13	4.43E-12	520	520
ATG3	-0.309088591	5.65E-13	4.32E-12	520	520
C6orf203	-0.309357976	5.39E-13	4.12E-12	520	520
MRPL39	-0.309587163	5.17E-13	3.96E-12	520	520
GOLGA6L9	-0.309660597	5.10E-13	3.91E-12	520	520
TMC5	-0.309848414	4.93E-13	3.79E-12	520	517
ACSS2	-0.30998274	4.81E-13	3.70E-12	520	520
TUBB8	-0.310185651	4.64E-13	3.57E-12	520	519
TIGD3	-0.310213008	4.61E-13	3.56E-12	520	520
LOC389791	-0.310555883	4.34E-13	3.35E-12	520	486
TRAP1	-0.310665119	4.25E-13	3.28E-12	520	520
NDUFS7	-0.310855946	4.11E-13	3.18E-12	520	520
RHBG	-0.310928173	4.05E-13	3.14E-12	520	476
DQX1	-0.311337237	3.76E-13	2.92E-12	520	520
C3orf1	-0.311362769	3.75E-13	2.91E-12	520	520
PCP4L1	-0.311389106	3.73E-13	2.90E-12	520	506
ING2	-0.311423824	3.70E-13	2.88E-12	520	520
POLR2I	-0.312140381	3.25E-13	2.54E-12	520	520
PSMA4	-0.312147332	3.25E-13	2.54E-12	520	520
TEX101	-0.31219007	3.22E-13	2.52E-12	520	439
ATP5B	-0.312280824	3.17E-13	2.48E-12	520	520
NOP16	-0.312417562	3.09E-13	2.42E-12	520	520
LIN7B	-0.312563117	3.01E-13	2.36E-12	520	520
NHP2	-0.312604927	2.99E-13	2.34E-12	520	520
GRAMD1C	-0.31265477	2.96E-13	2.32E-12	520	520
CEBPA	-0.312773037	2.90E-13	2.27E-12	520	520
CCDC59	-0.312791536	2.89E-13	2.27E-12	520	520
S100P	-0.312890212	2.84E-13	2.23E-12	520	520
WDR53	-0.312937297	2.81E-13	2.21E-12	520	520
S100A16	-0.313154454	2.70E-13	2.13E-12	520	520
PRPF38A	-0.313161526	2.70E-13	2.13E-12	520	520
LY6D	-0.31341888	2.57E-13	2.03E-12	520	520
CEACAM5	-0.313525575	2.52E-13	1.99E-12	520	518
U2AF1	-0.313564216	2.51E-13	1.98E-12	520	520

TSSC1	-0.313728829	2.43E-13	1.93E-12	520	520
ST6GALNAC1	-0.31379724	2.40E-13	1.91E-12	520	520
CALML5	-0.313869706	2.37E-13	1.88E-12	520	517
RNF141	-0.314285939	2.20E-13	1.75E-12	520	520
C2orf54	-0.314305598	2.19E-13	1.74E-12	520	517
GTF2A2	-0.314318288	2.18E-13	1.74E-12	520	520
CCDC42B	-0.314393568	2.15E-13	1.72E-12	520	517
RPL22	-0.314471511	2.12E-13	1.69E-12	520	520
C17orf42	-0.314519114	2.10E-13	1.68E-12	520	520
ITGB3BP	-0.315294253	1.82E-13	1.46E-12	520	520
APOM	-0.315399488	1.79E-13	1.44E-12	520	520
ANP32B	-0.315544507	1.74E-13	1.40E-12	520	520
VNN3	-0.315650608	1.71E-13	1.38E-12	520	515
OXNAD1	-0.315757841	1.67E-13	1.35E-12	520	520
SLC34A1	-0.315859906	1.64E-13	1.32E-12	520	478
SMPD2	-0.315906733	1.63E-13	1.31E-12	520	520
ZBTB8OS	-0.316137178	1.56E-13	1.26E-12	520	520
UQCRFS1	-0.316264122	1.52E-13	1.23E-12	520	520
C18orf26	-0.316408841	1.48E-13	1.20E-12	520	363
KLF4	-0.316479019	1.47E-13	1.19E-12	520	520
C9orf68	-0.316486389	1.46E-13	1.19E-12	520	520
INO80C	-0.316626966	1.43E-13	1.16E-12	520	520
TSPO	-0.316890935	1.36E-13	1.10E-12	520	520
SDR16C5	-0.317098895	1.31E-13	1.06E-12	520	520
ACAD9	-0.317342781	1.25E-13	1.02E-12	520	520
MRPS18A	-0.31748651	1.22E-13	9.93E-13	520	520
RASSF7	-0.317863834	1.13E-13	9.28E-13	520	520
NUP62CL	-0.317881584	1.13E-13	9.26E-13	520	520
RAC1	-0.317941211	1.12E-13	9.16E-13	520	520
PRRG2	-0.318055683	1.09E-13	8.98E-13	520	520
SLC25A23	-0.31830498	1.04E-13	8.59E-13	520	520
COX6B1	-0.31888534	9.36E-14	7.73E-13	520	520
PHKG2	-0.318895917	9.35E-14	7.72E-13	520	520
WRNIP1	-0.318996594	9.17E-14	7.58E-13	520	520
LASS4	-0.319263137	8.73E-14	7.23E-13	520	520
CNBP	-0.319430566	8.46E-14	7.01E-13	520	520
CIDEB	-0.319460147	8.41E-14	6.98E-13	520	520
BNIPL	-0.319669322	8.09E-14	6.72E-13	520	520
DCST2	-0.319748466	7.97E-14	6.63E-13	520	517
DUOXA1	-0.31977616	7.93E-14	6.60E-13	520	520
IL20RA	-0.319964605	7.65E-14	6.38E-13	520	520
MAGOH	-0.319978907	7.63E-14	6.36E-13	520	520
PLA2G3	-0.32000866	7.59E-14	6.33E-13	520	502
BTF3	-0.320061418	7.51E-14	6.28E-13	520	520
ZNF750	-0.3205812	6.81E-14	5.71E-13	520	519
LOC80154	-0.3207444	6.61E-14	5.54E-13	520	520

S100A12	-0.320807133	6.53E-14	5.48E-13	520	520
FAM100B	-0.320952309	6.35E-14	5.34E-13	520	520
MRPS22	-0.321154694	6.12E-14	5.15E-13	520	520
PMF1	-0.321154932	6.12E-14	5.15E-13	520	520
NOXO1	-0.32121674	6.05E-14	5.10E-13	520	520
DLG3	-0.321262916	5.99E-14	5.06E-13	520	520
ELL3	-0.321269083	5.99E-14	5.05E-13	520	520
GSTP1	-0.321417564	5.82E-14	4.92E-13	520	520
MREG	-0.321574936	5.65E-14	4.78E-13	520	520
RAD9A	-0.321854936	5.36E-14	4.54E-13	520	520
FA2H	-0.321967608	5.25E-14	4.45E-13	520	518
SLC13A4	-0.322012982	5.20E-14	4.42E-13	520	518
OMA1	-0.322110773	5.11E-14	4.34E-13	520	520
LOC113230	-0.322592592	4.66E-14	3.98E-13	520	520
STRA13	-0.322832699	4.45E-14	3.80E-13	520	520
CBLC	-0.322845874	4.44E-14	3.79E-13	520	519
LIPH	-0.323052738	4.27E-14	3.66E-13	520	519
ACYP1	-0.323098447	4.23E-14	3.63E-13	520	520
CCDC125	-0.32318622	4.16E-14	3.57E-13	520	520
KIAA1543	-0.323441527	3.97E-14	3.40E-13	520	520
FDFT1	-0.324014412	3.56E-14	3.06E-13	520	520
SURF2	-0.32405959	3.53E-14	3.03E-13	520	520
APTX	-0.324141652	3.47E-14	2.99E-13	520	520
RBM8A	-0.32449011	3.25E-14	2.80E-13	520	520
TGM3	-0.32450957	3.24E-14	2.79E-13	520	519
TUBD1	-0.324514962	3.23E-14	2.79E-13	520	520
SNRPD1	-0.324519978	3.23E-14	2.79E-13	520	520
SREBF1	-0.324605765	3.18E-14	2.75E-13	520	520
CEACAM1	-0.324890619	3.01E-14	2.61E-13	520	520
NSMCE4A	-0.324937522	2.98E-14	2.59E-13	520	520
RARG	-0.325187435	2.84E-14	2.47E-13	520	520
WDR34	-0.325531532	2.66E-14	2.32E-13	520	520
EMP2	-0.325604002	2.63E-14	2.29E-13	520	520
ATPIF1	-0.325956481	2.45E-14	2.15E-13	520	520
CENPW	-0.326101326	2.39E-14	2.09E-13	520	520
DTX2	-0.326260121	2.32E-14	2.03E-13	520	520
PTTG1	-0.326399526	2.25E-14	1.98E-13	520	520
ZBTB7B	-0.326554073	2.19E-14	1.92E-13	520	520
CRYBB3	-0.327022644	2.00E-14	1.76E-13	520	463
IL1F6	-0.327757688	1.73E-14	1.53E-13	520	426
ZNF165	-0.328020621	1.65E-14	1.46E-13	520	520
NSUN6	-0.328026161	1.65E-14	1.46E-13	520	520
RPL24	-0.328067422	1.63E-14	1.45E-13	520	520
OSTF1	-0.328251566	1.58E-14	1.40E-13	520	520
NDUFA7	-0.328797703	1.42E-14	1.26E-13	520	520
TMEM184A	-0.328917248	1.39E-14	1.23E-13	520	520

SFRS3	-0.328946145	1.38E-14	1.23E-13	520	520
INPP1	-0.329030625	1.36E-14	1.21E-13	520	520
TMEM41A	-0.329093256	1.34E-14	1.20E-13	520	520
CNFN	-0.329148548	1.33E-14	1.18E-13	520	520
H3F3A	-0.329400951	1.26E-14	1.13E-13	520	520
TRAPPC3	-0.329679701	1.20E-14	1.08E-13	520	520
C21orf45	-0.329794303	1.17E-14	1.05E-13	520	520
SLC26A9	-0.329917216	1.14E-14	1.03E-13	520	519
PRODH	-0.330044961	1.11E-14	1.01E-13	520	520
NDUFAB1	-0.330810004	9.59E-15	8.72E-14	520	520
MXD3	-0.331001749	9.24E-15	8.40E-14	520	520
RPP21	-0.331178223	8.92E-15	8.13E-14	520	520
KLB	-0.331213455	8.86E-15	8.08E-14	520	507
ANXA9	-0.33121399	8.86E-15	8.08E-14	520	520
SCNN1A	-0.331390787	8.56E-15	7.82E-14	520	520
C14orf2	-0.331582778	8.24E-15	7.54E-14	520	520
DCXR	-0.331689972	8.07E-15	7.39E-14	520	520
GOT1	-0.33169667	8.06E-15	7.38E-14	520	520
ZNF823	-0.332271025	7.20E-15	6.62E-14	520	520
ECHS1	-0.332726429	6.59E-15	6.07E-14	520	520
COX6C	-0.332902552	6.36E-15	5.87E-14	520	520
KIAA1468	-0.333348789	5.83E-15	5.40E-14	520	520
PPCDC	-0.333955609	5.17E-15	4.81E-14	520	520
PGAP2	-0.334142921	4.98E-15	4.64E-14	520	520
BAIAP2	-0.334165585	4.96E-15	4.62E-14	520	520
G RTP1	-0.334205766	4.92E-15	4.59E-14	520	520
C9orf3	-0.33428155	4.85E-15	4.53E-14	520	520
CADM4	-0.334514676	4.63E-15	4.33E-14	520	520
C7orf40	-0.334530926	4.61E-15	4.31E-14	520	520
SH2D4A	-0.334571344	4.58E-15	4.28E-14	520	520
ACE2	-0.334743878	4.42E-15	4.15E-14	520	519
C1orf77	-0.335166527	4.07E-15	3.83E-14	520	520
OVOL2	-0.335233468	4.01E-15	3.79E-14	520	519
KAZ	-0.335490765	3.81E-15	3.60E-14	520	520
TMEM41B	-0.335547896	3.77E-15	3.57E-14	520	520
KRT13	-0.335559295	3.76E-15	3.56E-14	520	520
SNRNP35	-0.335592355	3.74E-15	3.54E-14	520	520
CBR3	-0.335617973	3.72E-15	3.52E-14	520	520
C21orf59	-0.335620307	3.72E-15	3.52E-14	520	520
DUOX2	-0.335781712	3.60E-15	3.41E-14	520	520
MRPL22	-0.336081632	3.39E-15	3.22E-14	520	520
SPINK5	-0.336199924	3.31E-15	3.15E-14	520	520
CARHSP1	-0.33645344	3.15E-15	3.01E-14	520	520
MUC21	-0.337075735	2.78E-15	2.66E-14	520	471
TXN	-0.33710023	2.77E-15	2.65E-14	520	520
NDUFB1	-0.337500767	2.55E-15	2.46E-14	520	520

FH	-0.337515547	2.55E-15	2.45E-14	520	520
TNFRSF25	-0.3376541	2.48E-15	2.38E-14	520	520
CYP2C18	-0.338026272	2.30E-15	2.22E-14	520	515
TBC1D3	-0.338130689	2.25E-15	2.18E-14	520	520
DYNLL1	-0.33816802	2.23E-15	2.16E-14	520	520
DHRS13	-0.338665052	2.02E-15	1.97E-14	520	520
TMPRSS11BNL	-0.338720479	2.00E-15	1.95E-14	520	348
CLCA3P	-0.338974548	1.90E-15	1.85E-14	520	481
CNKSRI	-0.339246699	1.80E-15	1.76E-14	520	520
C9orf156	-0.339313797	1.77E-15	1.73E-14	520	520
LOC254559	-0.339418433	1.74E-15	1.70E-14	520	520
LYSMD4	-0.339715284	1.64E-15	1.61E-14	520	520
PPFIA3	-0.339717809	1.64E-15	1.61E-14	520	520
LTB4R2	-0.339800781	1.61E-15	1.58E-14	520	520
IL1RN	-0.339857275	1.59E-15	1.57E-14	520	520
NACA	-0.340020413	1.54E-15	1.52E-14	520	520
CCDC58	-0.340167592	1.49E-15	1.48E-14	520	520
SMUG1	-0.34046687	1.41E-15	1.39E-14	520	520
ICT1	-0.34078695	1.32E-15	1.30E-14	520	520
MUC1	-0.341009583	1.26E-15	1.25E-14	520	520
POLE2	-0.341413523	1.16E-15	1.15E-14	520	520
DHRS11	-0.341465565	1.15E-15	1.14E-14	520	520
TPRG1	-0.341496893	1.14E-15	1.14E-14	520	520
USMG5	-0.342186418	9.92E-16	9.90E-15	520	520
ANO9	-0.342958139	8.47E-16	8.49E-15	520	520
SPRR2C	-0.34328253	7.93E-16	7.95E-15	520	514
ATP5J	-0.343311972	7.88E-16	7.90E-15	520	520
TCHP	-0.343351586	7.82E-16	7.85E-15	520	520
SNRPA1	-0.343372001	7.79E-16	7.82E-15	520	520
NDUFB4	-0.343396915	7.75E-16	7.79E-15	520	520
LRRC56	-0.343487303	7.60E-16	7.66E-15	520	520
CYP4F12	-0.343552964	7.50E-16	7.56E-15	520	498
FDPS	-0.343700749	7.28E-16	7.34E-15	520	520
C1orf35	-0.343738986	7.22E-16	7.29E-15	520	520
NDUFB3	-0.343845875	7.07E-16	7.14E-15	520	520
LOC100130932	-0.34385654	7.05E-16	7.13E-15	520	520
DAZAP1	-0.343921968	6.96E-16	7.04E-15	520	520
EZH2	-0.34392887	6.95E-16	7.03E-15	520	520
PHLDB3	-0.345044224	5.53E-16	5.63E-15	520	520
FKBP1	-0.345100467	5.46E-16	5.57E-15	520	520
MRPS36	-0.345592926	4.94E-16	5.05E-15	520	520
CLCA4	-0.345889453	4.64E-16	4.77E-15	520	517
S100A11	-0.345901505	4.63E-16	4.76E-15	520	520
ZMYND19	-0.346120154	4.43E-16	4.56E-15	520	520
ENDOG	-0.346344581	4.23E-16	4.36E-15	520	520
CEACAM7	-0.346935942	3.74E-16	3.88E-15	520	462

UMPS	-0.34728897	3.48E-16	3.61E-15	520	520
ATG9B	-0.347357781	3.43E-16	3.56E-15	520	520
TMPRSS11A	-0.347388115	3.40E-16	3.54E-15	520	514
MRPS25	-0.347493503	3.33E-16	3.47E-15	520	520
PMVK	-0.347624432	3.24E-16	3.38E-15	520	520
HSPB1	-0.347781211	3.14E-16	3.27E-15	520	520
ANXA1	-0.348029357	2.98E-16	3.12E-15	520	520
PPA2	-0.348427498	2.74E-16	2.88E-15	520	520
FRAT2	-0.348470105	2.72E-16	2.86E-15	520	520
HSD17B8	-0.348686223	2.60E-16	2.74E-15	520	520
LSM3	-0.348984695	2.44E-16	2.58E-15	520	520
PRDX1	-0.349008159	2.43E-16	2.57E-15	520	520
ARHGEF16	-0.34912616	2.37E-16	2.51E-15	520	520
MRPS9	-0.349556492	2.17E-16	2.30E-15	520	520
ALG1L	-0.349586949	2.15E-16	2.29E-15	520	520
CHCHD1	-0.349671376	2.12E-16	2.25E-15	520	520
RAB24	-0.349686945	2.11E-16	2.25E-15	520	520
LRG1	-0.34972553	2.09E-16	2.23E-15	520	520
LYPD2	-0.349801413	2.06E-16	2.20E-15	520	492
RG9MTD1	-0.350020621	1.97E-16	2.10E-15	520	520
ARPC5L	-0.350317238	1.85E-16	1.98E-15	520	520
CKMT1B	-0.350400696	1.82E-16	1.95E-15	520	518
SPRR1A	-0.350433735	1.80E-16	1.94E-15	520	520
NOL12	-0.350961846	1.61E-16	1.74E-15	520	520
HMGN3	-0.351239099	1.52E-16	1.65E-15	520	520
TMEM40	-0.351368207	1.48E-16	1.60E-15	520	520
RDH13	-0.351518205	1.44E-16	1.56E-15	520	520
MALL	-0.351866797	1.33E-16	1.45E-15	520	520
SLC34A3	-0.352403426	1.19E-16	1.30E-15	520	499
EVPLL	-0.352405091	1.19E-16	1.30E-15	520	516
VDAC2	-0.352499495	1.17E-16	1.28E-15	520	520
ERI2	-0.35257317	1.15E-16	1.26E-15	520	520
GRHL3	-0.352583098	1.15E-16	1.26E-15	520	519
DEFB1	-0.352849151	1.08E-16	1.19E-15	520	519
NCCRP1	-0.352982883	1.05E-16	1.16E-15	520	520
COQ3	-0.353012043	1.05E-16	1.15E-15	520	520
C20orf24	-0.353612922	9.23E-17	1.02E-15	520	520
NUDT5	-0.35401296	8.48E-17	9.35E-16	520	520
MUC20	-0.354159796	8.22E-17	9.09E-16	520	520
EPS8L1	-0.354350395	7.89E-17	8.75E-16	520	520
TMEM80	-0.354376761	7.85E-17	8.70E-16	520	520
PDSS1	-0.354773582	7.21E-17	8.01E-16	520	520
RGS14	-0.354807525	7.16E-17	7.96E-16	520	520
TMPRSS11B	-0.355437826	6.26E-17	7.00E-16	520	453
CLDN4	-0.355996505	5.55E-17	6.23E-16	520	520
KLF5	-0.356162023	5.36E-17	6.02E-16	520	520

RASAL1	-0.35616394	5.36E-17	6.02E-16	520	520
MRPS18C	-0.356198172	5.32E-17	5.98E-16	520	520
COX7A2	-0.356566164	4.92E-17	5.55E-16	520	520
C19orf57	-0.35684657	4.63E-17	5.25E-16	520	520
COQ4	-0.356922217	4.55E-17	5.17E-16	520	520
XPA	-0.357691593	3.86E-17	4.39E-16	520	520
MRPL46	-0.357943829	3.66E-17	4.16E-16	520	520
COX5B	-0.358080751	3.55E-17	4.05E-16	520	520
TMEM54	-0.358155187	3.49E-17	3.99E-16	520	520
AIF1L	-0.358460668	3.27E-17	3.74E-16	520	520
GRHL1	-0.358499983	3.24E-17	3.71E-16	520	520
ARHGAP27	-0.358869873	2.99E-17	3.43E-16	520	520
C21orf63	-0.359125399	2.83E-17	3.26E-16	520	520
DCLRE1C	-0.359169933	2.81E-17	3.23E-16	520	520
PAOX	-0.359312374	2.72E-17	3.14E-16	520	520
ALDH3A1	-0.359662411	2.52E-17	2.93E-16	520	520
MKMK2	-0.359679301	2.51E-17	2.92E-16	520	520
ATP13A4	-0.359743593	2.48E-17	2.89E-16	520	504
SPRR2F	-0.360166334	2.26E-17	2.64E-16	520	511
TMPRSS4	-0.361379729	1.74E-17	2.04E-16	520	520
COX7C	-0.3613813	1.74E-17	2.04E-16	520	520
ZDHHC13	-0.362212848	1.45E-17	1.72E-16	520	520
KIF22	-0.362220858	1.45E-17	1.72E-16	520	520
UQCRQ	-0.362514657	1.36E-17	1.62E-16	520	520
AIM1L	-0.362935076	1.24E-17	1.48E-16	520	520
SERPINB1	-0.362985328	1.22E-17	1.47E-16	520	520
PDZK1IP1	-0.363328592	1.13E-17	1.36E-16	520	520
SPRR2A	-0.363466934	1.10E-17	1.32E-16	520	520
PA2G4	-0.36425087	9.26E-18	1.12E-16	520	520
TM7SF2	-0.36502894	7.80E-18	9.48E-17	520	520
OVOL1	-0.365378988	7.22E-18	8.79E-17	520	519
CATSPER3	-0.365459083	7.09E-18	8.64E-17	520	518
NACA2	-0.365632863	6.82E-18	8.34E-17	520	520
RAB26	-0.365700623	6.72E-18	8.22E-17	520	519
DENND2D	-0.365728806	6.68E-18	8.17E-17	520	520
RNF208	-0.36594191	6.37E-18	7.81E-17	520	520
NDUFC1	-0.366130988	6.11E-18	7.50E-17	520	520
SULT2B1	-0.3663247	5.85E-18	7.19E-17	520	520
SLPI	-0.366717271	5.37E-18	6.62E-17	520	520
N4BP3	-0.367082525	4.95E-18	6.11E-17	520	520
C3orf37	-0.367091742	4.94E-18	6.10E-17	520	520
ZNF57	-0.367422271	4.59E-18	5.68E-17	520	520
EBP	-0.367480508	4.53E-18	5.62E-17	520	520
FAM103A1	-0.367520136	4.49E-18	5.58E-17	520	520
SNRPF	-0.367628533	4.38E-18	5.45E-17	520	520
RBM47	-0.367641969	4.37E-18	5.44E-17	520	520

TARDBP	-0.368442641	3.65E-18	4.57E-17	520	520
SYK	-0.368727741	3.43E-18	4.29E-17	520	520
CC2D1A	-0.368932352	3.27E-18	4.11E-17	520	520
VAMP8	-0.369002832	3.22E-18	4.04E-17	520	520
C6orf136	-0.369133952	3.13E-18	3.93E-17	520	520
FAM136A	-0.369674305	2.77E-18	3.50E-17	520	520
C1orf172	-0.370057767	2.54E-18	3.22E-17	520	520
FGFR3	-0.370221244	2.45E-18	3.12E-17	520	520
DCI	-0.370913057	2.10E-18	2.68E-17	520	520
TBC1D3B	-0.371026928	2.04E-18	2.61E-17	520	520
DHRS1	-0.37102733	2.04E-18	2.61E-17	520	520
TMPRSS11D	-0.371465062	1.85E-18	2.38E-17	520	520
SHMT1	-0.371961083	1.66E-18	2.13E-17	520	520
C6orf132	-0.372303438	1.53E-18	1.98E-17	520	520
TTC39A	-0.372353054	1.52E-18	1.96E-17	520	520
C9orf84	-0.373109968	1.28E-18	1.65E-17	520	519
CLDN7	-0.373699116	1.12E-18	1.45E-17	520	520
MGST2	-0.373817615	1.09E-18	1.42E-17	520	520
IMP3	-0.373923828	1.06E-18	1.39E-17	520	520
RRP1	-0.37394411	1.06E-18	1.38E-17	520	520
NR2F6	-0.374293723	9.75E-19	1.28E-17	520	520
AMN	-0.374738269	8.81E-19	1.16E-17	520	518
NDUFV2	-0.374855033	8.58E-19	1.13E-17	520	520
SYTL1	-0.375655968	7.14E-19	9.45E-18	520	520
COX5A	-0.375727293	7.02E-19	9.30E-18	520	520
RHBDL2	-0.37619584	6.31E-19	8.39E-18	520	520
EVPL	-0.376507535	5.87E-19	7.85E-18	520	520
HOOK2	-0.376557105	5.81E-19	7.76E-18	520	520
ARRDC1	-0.376815287	5.47E-19	7.33E-18	520	520
FAM83E	-0.376854611	5.42E-19	7.27E-18	520	518
LCN2	-0.376998136	5.25E-19	7.04E-18	520	520
SPRR3	-0.377110772	5.11E-19	6.87E-18	520	520
BAG1	-0.377349944	4.84E-19	6.51E-18	520	520
LRRC1	-0.377753913	4.41E-19	5.94E-18	520	520
CENPP	-0.377871471	4.29E-19	5.79E-18	520	520
C1orf177	-0.377923784	4.24E-19	5.73E-18	520	509
F12	-0.377980706	4.18E-19	5.66E-18	520	520
GRB7	-0.378158272	4.01E-19	5.44E-18	520	520
HES5	-0.378228165	3.95E-19	5.36E-18	520	510
C20orf151	-0.37850998	3.70E-19	5.03E-18	520	517
SUCLG1	-0.379108142	3.22E-19	4.39E-18	520	520
GGCT	-0.379527303	2.92E-19	3.99E-18	520	520
TJP3	-0.379529296	2.92E-19	3.99E-18	520	517
ESRP2	-0.379837322	2.72E-19	3.73E-18	520	520
S100A14	-0.380208204	2.49E-19	3.43E-18	520	520
ATP5G1	-0.380609107	2.27E-19	3.13E-18	520	520

RHCG	-0.380815444	2.17E-19	2.99E-18	520	520
HIBCH	-0.380900754	2.12E-19	2.93E-18	520	520
TACSTD2	-0.380904484	2.12E-19	2.93E-18	520	520
HINT1	-0.381145589	2.01E-19	2.78E-18	520	520
CD164L2	-0.381747196	1.74E-19	2.42E-18	520	516
FAM98C	-0.382931976	1.32E-19	1.86E-18	520	520
GIPC1	-0.383361631	1.19E-19	1.68E-18	520	520
C15orf62	-0.38340144	1.18E-19	1.67E-18	520	520
FAAH2	-0.383562204	1.14E-19	1.61E-18	520	520
FBXO46	-0.383748767	1.09E-19	1.54E-18	520	520
ATP5H	-0.383750682	1.09E-19	1.54E-18	520	520
FXYD3	-0.384040289	1.02E-19	1.45E-18	520	520
GJA9	-0.385128794	7.86E-20	1.13E-18	520	520
TECR	-0.386041013	6.33E-20	9.15E-19	520	520
MAPK13	-0.386336914	5.90E-20	8.55E-19	520	520
ATG4D	-0.38709127	4.93E-20	7.17E-19	520	520
ZNF296	-0.388068139	3.90E-20	5.73E-19	520	520
SMAGP	-0.388210218	3.77E-20	5.55E-19	520	520
ADI1	-0.388237423	3.75E-20	5.52E-19	520	520
C1orf128	-0.388537467	3.49E-20	5.15E-19	520	520
SAMD10	-0.389575091	2.72E-20	4.03E-19	520	520
C19orf36	-0.389959896	2.48E-20	3.69E-19	520	520
C12orf29	-0.390970425	1.94E-20	2.91E-19	520	520
VPS29	-0.3914312	1.74E-20	2.61E-19	520	520
PVRL4	-0.391541011	1.69E-20	2.55E-19	520	520
TGM1	-0.391907196	1.55E-20	2.34E-19	520	520
RAB11A	-0.392884153	1.22E-20	1.85E-19	520	520
TSEN54	-0.393115262	1.16E-20	1.75E-19	520	520
ATP5C1	-0.394072603	9.15E-21	1.40E-19	520	520
MYCBP	-0.394086484	9.12E-21	1.39E-19	520	520
TTC9	-0.395384882	6.64E-21	1.02E-19	520	520
ATP5O	-0.396616594	4.90E-21	7.56E-20	520	520
TMEM125	-0.396795667	4.69E-21	7.24E-20	520	520
NSDHL	-0.39696346	4.50E-21	6.96E-20	520	520
TUBB2C	-0.397101493	4.35E-21	6.73E-20	520	520
UQCRHL	-0.398163479	3.35E-21	5.21E-20	520	520
DNAJC7	-0.399227151	2.57E-21	4.05E-20	520	520
ERBB3	-0.399899723	2.17E-21	3.43E-20	520	520
S100A9	-0.400201393	2.02E-21	3.20E-20	520	520
ECHDC2	-0.400486374	1.88E-21	2.98E-20	520	520
TPRN	-0.401099022	1.61E-21	2.57E-20	520	520
LOC146880	-0.401440084	1.48E-21	2.36E-20	520	520
UQCRH	-0.402584989	1.11E-21	1.79E-20	520	520
MAL2	-0.403091711	9.78E-22	1.58E-20	520	520
FAM73B	-0.403111424	9.73E-22	1.58E-20	520	520
CXCL17	-0.403208774	9.50E-22	1.54E-20	520	516

UBAC1	-0.403485888	8.86E-22	1.44E-20	520	520
SDCBP2	-0.404126734	7.53E-22	1.23E-20	520	520
C9orf169	-0.405222364	5.71E-22	9.41E-21	520	520
COX6A1	-0.405824047	4.90E-22	8.11E-21	520	520
JMJD7-PLA2G4B	-0.40684518	3.78E-22	6.30E-21	520	520
S100A8	-0.406871015	3.75E-22	6.27E-21	520	520
ALG6	-0.408021826	2.80E-22	4.70E-21	520	520
MMAB	-0.408056977	2.77E-22	4.66E-21	520	520
SETD8	-0.408315792	2.59E-22	4.37E-21	520	520
FUT2	-0.408579182	2.43E-22	4.10E-21	520	520
KRT78	-0.408796513	2.29E-22	3.89E-21	520	520
LTB4R	-0.409307885	2.01E-22	3.42E-21	520	520
FAM3D	-0.40982324	1.76E-22	3.01E-21	520	516
ULK3	-0.410117044	1.63E-22	2.80E-21	520	520
NOXA1	-0.412363704	9.13E-23	1.58E-21	520	520
FUT3	-0.412958014	7.82E-23	1.36E-21	520	518
FAM162A	-0.413646186	6.54E-23	1.14E-21	520	520
PCBD2	-0.414693615	4.97E-23	8.77E-22	520	520
CKMT1A	-0.41518692	4.37E-23	7.73E-22	520	518
NUDT8	-0.416394633	3.18E-23	5.67E-22	520	520
C10orf95	-0.418097515	2.03E-23	3.65E-22	520	518
DBI	-0.418873029	1.65E-23	2.98E-22	520	520
RPP38	-0.41938963	1.44E-23	2.61E-22	520	520
PRSS27	-0.420108775	1.19E-23	2.17E-22	520	520
GPR110	-0.42080317	9.88E-24	1.81E-22	520	515
GGT6	-0.421616258	7.95E-24	1.46E-22	520	519
GDPD3	-0.421693161	7.79E-24	1.44E-22	520	520
KRT24	-0.422410028	6.43E-24	1.20E-22	520	443
RAB1F	-0.424182149	3.99E-24	7.56E-23	520	520
ANAPC7	-0.424624476	3.54E-24	6.73E-23	520	520
NDOR1	-0.424962217	3.23E-24	6.16E-23	520	520
PLEKHH3	-0.424995326	3.20E-24	6.11E-23	520	520
LOC643008	-0.425738738	2.61E-24	5.04E-23	520	519
SPACA4	-0.426328823	2.23E-24	4.31E-23	520	486
FUT6	-0.426868287	1.92E-24	3.74E-23	520	516
CSTB	-0.427685949	1.54E-24	3.01E-23	520	520
REEP4	-0.432209279	4.42E-25	8.84E-24	520	520
SIRT7	-0.434202457	2.54E-25	5.19E-24	520	520
E2F2	-0.434818734	2.14E-25	4.38E-24	520	520
MVK	-0.434894352	2.09E-25	4.30E-24	520	520
ELF3	-0.435916048	1.57E-25	3.24E-24	520	520
RMND5B	-0.43804366	8.62E-26	1.80E-24	520	520
FAM108C1	-0.438432246	7.72E-26	1.63E-24	520	520
FDXR	-0.440083597	4.83E-26	1.03E-24	520	520
COX7B	-0.441207057	3.50E-26	7.53E-25	520	520
STX19	-0.444932931	1.20E-26	2.63E-25	520	515

NMU	-0.446727855	7.12E-27	1.58E-25	520	520
RABGGTA	-0.447658278	5.43E-27	1.21E-25	520	520
SLC9A3R1	-0.448635073	4.08E-27	9.19E-26	520	520
RAB25	-0.449119066	3.54E-27	8.02E-26	520	520
GLTP	-0.449886146	2.82E-27	6.44E-26	520	520
CCDC64	-0.450095411	2.66E-27	6.08E-26	520	520
C1orf210	-0.452664318	1.24E-27	2.90E-26	520	519
BDH1	-0.459853765	1.43E-28	3.50E-27	520	520
SH3GLB2	-0.460562357	1.15E-28	2.85E-27	520	520
CCDC64B	-0.464732066	3.20E-29	8.22E-28	520	519
RHOV	-0.466671538	1.76E-29	4.56E-28	520	520
DUOXA2	-0.467048116	1.56E-29	4.07E-28	520	520
CCDC56	-0.467685009	1.28E-29	3.37E-28	520	520
STAP2	-0.471777494	3.54E-30	9.72E-29	520	520
RAPGEFL1	-0.472406184	2.90E-30	7.98E-29	520	520
PITX1	-0.474159312	1.66E-30	4.62E-29	520	520
LLGL2	-0.474966097	1.28E-30	3.59E-29	520	520
BSPRY	-0.47721626	6.23E-31	1.76E-29	520	518
HDHD3	-0.479483329	2.99E-31	8.62E-30	520	520
CRB3	-0.486880288	2.63E-32	8.00E-31	520	520
SLC25A10	-0.487468933	2.17E-32	6.59E-31	520	520
ENSA	-0.49223817	4.36E-33	1.37E-31	520	520
TRIM7	-0.496151292	1.15E-33	3.69E-32	520	520
CSTA	-0.501078218	2.09E-34	6.93E-33	520	520
WIBG	-0.502185057	1.42E-34	4.75E-33	520	520
ASPG	-0.514901961	1.51E-36	5.44E-35	520	516
