

## SUPPLEMENTAL MATERIALS

### Materials and methods

#### Specimens

Peripheral blood specimens were collected under protocols approved and overseen by the Stanford University Administrative Panel for the Protection of Human Subjects and the Stanford Cancer Institute Scientific Review Committee. The participant was counseled and gave consent for genomic sequencing studies. Peripheral blood specimens were drawn into EDTA or sodium heparin tubes for DNA-based studies, and a buffy coat was isolated. For the time point #1 specimen, granulocytes were isolated using Ficoll-Paque PREMIUM (GE Healthcare Biosciences, Pittsburgh, PA, USA) according to the manufacturer's protocol. Peripheral blood specimens were drawn into PAXgene Blood RNA tubes (PreAnalytiX GmbH, Hombrechtikon, Switzerland) for RNA-based studies. A skin punch biopsy was performed and cultured as described previously to provide the patient's germline DNA complement.<sup>1</sup> DNA was extracted using the Gentra Puregene Cell Kit (Qiagen, Valencia, CA, USA), and RNA was extracted using the PAXgene Blood RNA Kit (Qiagen), both according to the manufacturer's protocol.

#### Genome sequencing

Genome sequencing on the time point #1 sample was performed by MacroGen to achieve a mean coverage depth of 40X. Samples were prepared according to the Illumina TruSeq DNA sample preparation guide, and the libraries were sequenced using the Illumina HiSeq 2000 Sequencer. Reads were mapped by BWA against UCSC hg19. IGV was used to manually inspect the genomic coordinates corresponding to the 9p24 and 22q11.2 loci to identify discordant paired-end sequences that would suggest a genomic DNA rearrangement.

Genome sequencing on the time point #2 (pre-ruxolitinib specimen), time point #4 (blast transformation specimen), and skin samples was performed by MacroGen (ver. MGX-WGS-0101-M) to a mean depth of 40X. In brief, samples were prepared according to the Illumina TruSeq Nano sample preparation guide, and the libraries were sequenced using the Illumina HiSeq X Ten Sequencer to generate 150-bp paired-end reads. Reads were aligned to UCSC hg19 using BWA, and somatic SNVs in time points #2 and #4 were called by MuTect, following best practices, using the cultured skin fibroblasts as the germline comparison.<sup>2</sup> Potential coding variants that were present in time point #4 but not time point #2 were manually curated as discussed in the below paragraph.

Variants identified by the MuTect pipeline were manually inspected if they resulted in a non-synonymous coding change or involved the invariant 2 bases of the donor or acceptor splice site. Integrative Genomics Viewer was used to review the read sequence, base quality scores, and mapping scores across time point #2, time point #4, and skin specimens. The genomic context of the variants regions was further examined using UCSC Genome Browser (<http://genome.ucsc.edu/>). Features that were generally used to exclude potential variants for further consideration included: 1) 3 or less variant reads in time point #4, 2) variant reads present on only one strand, 3) involves a region of the genome with one or more highly homologous regions, 4) mutant reads observed in time points #2 and #4, and 5) common SNPs ( $\geq 1\%$  minor

allele frequency, map uniquely, no “clinically associated” flag). All variants that passed manual inspection were confirmed by Sanger sequencing.

### RNA sequencing

RNA sequencing was performed from RNA isolated from the time points #2 and #3. Samples were prepared using the Illumina TruSeq Stranded mRNA Library Prep Kit, following the manufacturer’s protocol. Two independent libraries were generated for each time point, and at least 25M reads were generated for each replicate (i.e., at least 50M reads for each time point). Samples were sequenced on the HiSeq 2000 with a 2x101bp configuration.

We used GRCh37 transcriptome reference as index and salmon v0.8.2<sup>3</sup> to quantify gene expression from fastq files at time points #2 and #3 using 8 cores. Differential expression between time points was performed using DESeq2 version 1.10.1<sup>4</sup>. We followed the DESeq2 pipeline to generate the results. In brief, we filtered out genes for which less than 10 counts were observed across samples. Data was then corrected for library size; dispersion was estimated and effects were tested after fitting a negative binomial GLM and obtaining Wald statistics. Results were provided at FDR of 1%. Differentially expressed genes at time point #3 versus time point #2 are provided in **Supplemental Table S2** for all genes with a p.adjusted <0.01.

### Mate pair sequencing (MPseq)

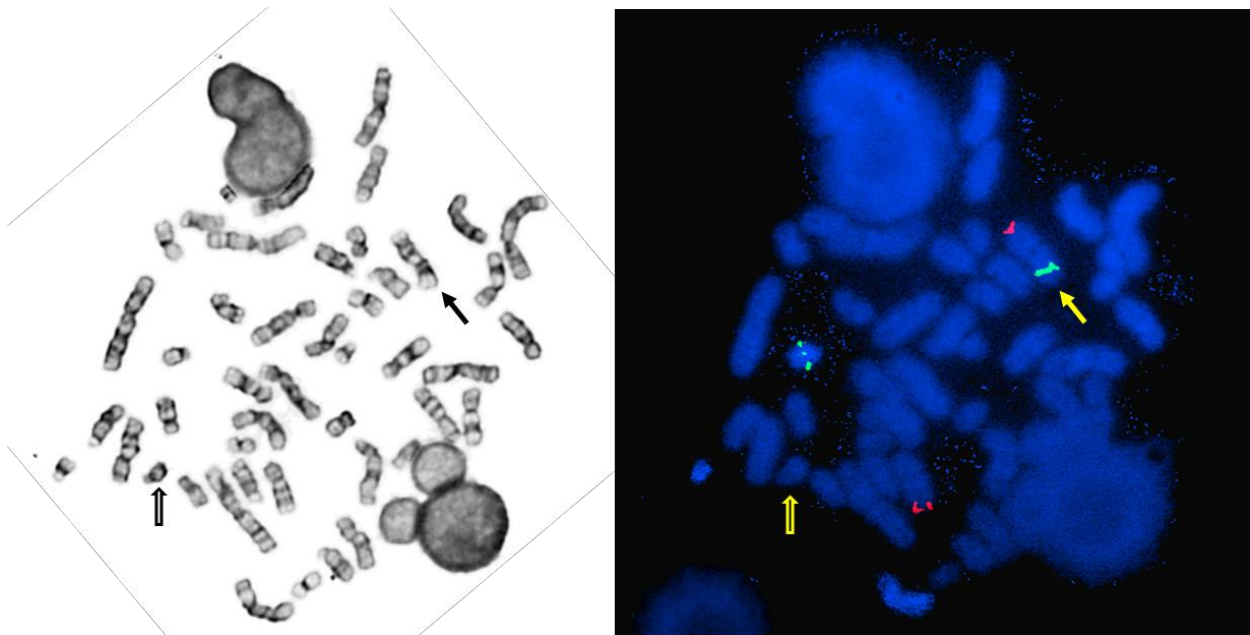
MPseq library preparation methods have been previously described<sup>5-7</sup>. Briefly, DNA was processed using the Illumina Nextera Mate Pair library preparation kit (Illumina) and sequenced on the Illumina HiSeq 2500 in rapid run mode. Pooled libraries were hybridized onto a flow cell (2 samples per lane) and sequenced using 101-basepair reads and paired end sequencing. Sequencing data was mapped to the reference genome (GRCh38) using BIMA<sup>8</sup> and the output analyzed using SVAtools in order to detect structural variants (SVs) and large genomic alterations (>30Kb) that involve breakpoint junctions and/or copy number alterations (CNAs). The breakpoint locations of both junctions and CNAs are reported<sup>5-7</sup> and graphically illustrated using genome, junction and region plots as previously described<sup>9</sup>.

### Chromosomal Microarray

Whole genome chromosome microarray (CMA) was performed on the CytoScanHD microarray platform (ThermoFisher Scientific, Waltham, MA). DNA is processed through enzymatic digestion, adapter ligation, PCR, magnetic bead purification of PCR products, fragmentation into 25-100bp DNA segments, and biotinylation. Biotinylated DNA hybridizes onto a CytoScanHD array, washed and stained in a GeneChip® Fluidics Station 450, and scanned in a GeneChip® scanner using the CytoScanHD\_Array\_450 protocol. The resulting data were analyzed using Chromosome Analysis Suite (ChAS) version 3.3.

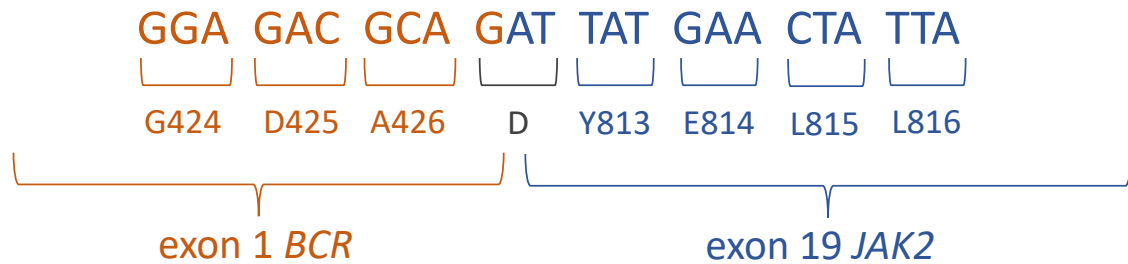
## Supplemental Figures

**Figure S1. FISH analysis.** Sequential metaphase FISH was performed on a previously G-banded metaphase (left panel). FISH was performed using the dual-fusion BCR/ABL1 probe (Abbott; ABL probe = red, BCR probe = green) to examine the *BCR* locus (right panel). Consistent with this representative image, all five metaphases examined by sequential FISH demonstrated that the green BCR signal was only observed on the short arm of the derivative chromosome 9 at approximately 9p24 (solid arrow). The BCR signal was not observed on the derivative 22 (hollow arrow). These findings are consistent with the entire *BCR* locus being present on the derivative 9. This finding suggested that either: (1) The *BCR* locus is not involved in the t(9;22)(p24;q11.2) observed in this case. Rather, another region on 22q11.2, or nearby, is involved, or (2) This represents a more complex structural rearrangement. Subsequent studies demonstrated that the latter had occurred in this case.



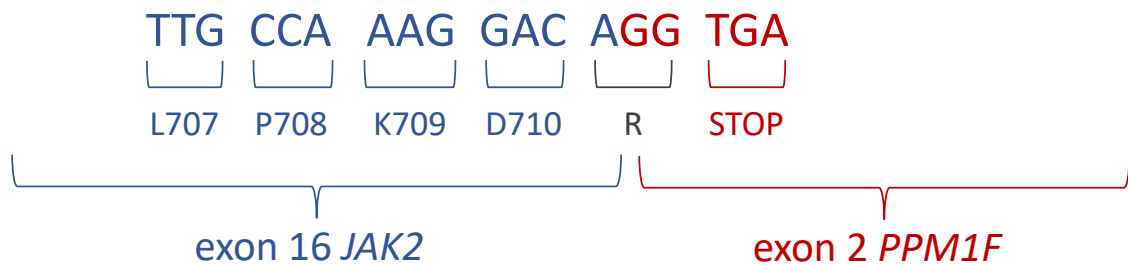
**Figure S2. Observed RNA fusions.** Reverse transcription PCR (RT-PCR) demonstrated an in-frame fusion between exon 1 of *BCR* (NM\_004327.4) and exon 19 of *JAK2* (NM\_004972.3). RT-PCR also identified a fusion between exon 16 of *JAK2* and exon 2 of *PPM1F* (NM\_014634.4); however, this results in the introduction of a stop codon at the first complete *PPM1F* codon. A *PRAMENP/BCR* fusion transcript was not detected.

## *BCR/JAK2*

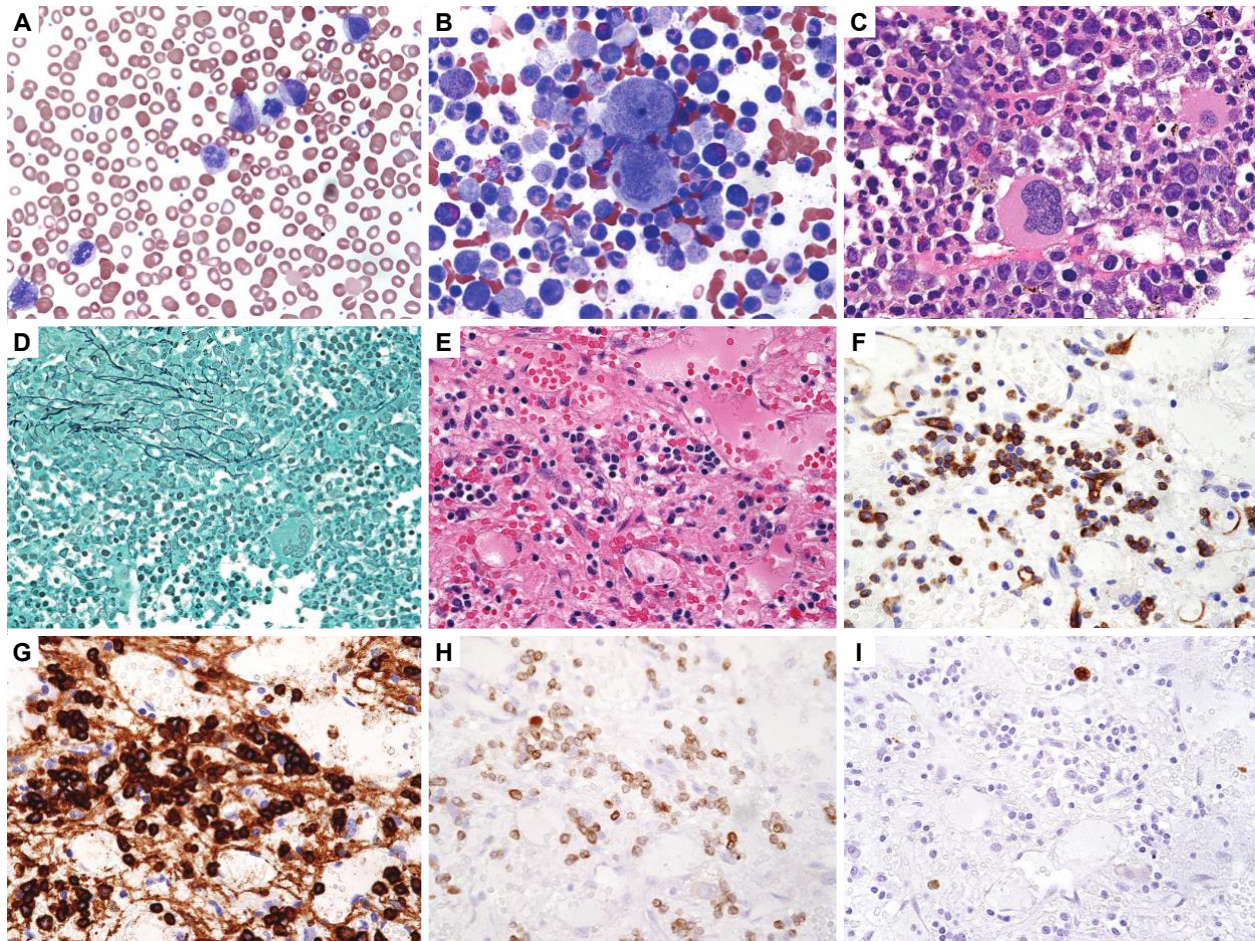


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## *JAK2/PPM1F*



**Figure S3.** Peripheral blood and bone marrow histology and immunohistochemistry prior to ruxolitinib (A-D) and at blast transformation (E-I). Hydroxyurea had been discontinued two and a half weeks prior to pre-ruxolitinib sample collection (A-D). **A)** Peripheral blood showed a marked leukocytosis with myeloid predominance and left-shift but no increase in blasts. **B)** Bone marrow aspirate and **C)** core biopsy showed a hypercellular (80%) marrow with mild myeloid hyperplasia (M:E = 4:1), left-shift, but no increase in blasts (blasts = 0%). Micromegakaryocytes were seen with occasional multinucleation. **D)** A reticulin stain demonstrated minimal patchy fibrosis, but no collagen fibrosis was noted. **E)** At blast transformation, the bone marrow core biopsy showed patchy (0-70%, average 40%) cellularity with clusters of blasts. Immunohistochemistry demonstrated that blasts were positive for **F)** CD34, **G)** CD10, and **H)** CD79a. **I)** Immunohistochemistry demonstrated that blasts were negative for MPO. Peripheral blood image (A) was taken at 60X; bone marrow aspirate and biopsy images (B-I) were taken at 40X.



## Supplemental Tables

**Table S1.** Genomic DNA (gDNA) and RNA fusion breakpoints. The *BCR/JAK2*, *JAK2/PPM1F*, *PRAMENP/BCR* gDNA breakpoints were identified by genome sequencing and then confirmed by Sanger sequencing. RNA fusion breakpoints were confirmed by RT-PCR.

Gene fusion	Genomic DNA breakpoint 1	Genomic DNA breakpoint 2	RNA fusion breakpoint 1	RNA fusion breakpoint 2
<i>BCR/JAK2</i>	GGAACACAATTTAGCCCCTAAACT/	/AGTTTGTGGTTCTTTAATTATAGAA	GAGGGGCGCCTTCCATGGAGACGCAG/	/ATTATGAACTATTAACAGAAAATGA
<i>JAK2/PPM1F</i>	GATTATTCAAATGATTTGAACTTTA/	/CAGGGAGCTTACAGTCTATCAAGAA	AGTATTACAGTTTTGCCAAAGGACA/	/GGTGAAGCCTGGAGACCCTCTTGCC
<i>PRAMENP/BCR</i>	AGGAAATTATCCTCACAGGTCTGTC/	/AGTAGCATTTTAGAGCTAGAGGGTC	Not detected	Not detected

**Table S2.** Differentially expressed genes in blast transformation specimen (time point #3) versus pre-ruxolitinib specimen (time point #2). This table includes the DESeq2 output for all genes with a p.adjusted <0.01. The DESeq2 output estimate (column D) indicates the log<sub>2</sub> fold-change estimates.

gene	baseMean	estimate	stderror	p.adjusted	symbol	description	
1	ENSG00000002586	3043.967424	3.398926731	0.079322822	0	CD99	CD99 molecule [Source:HGNC Symbol;Acc:7082]
2	ENSG00000005381	17025.21042	-2.849896093	0.05298942	0	MPO	myeloperoxidase [Source:HGNC Symbol;Acc:7218]
3	ENSG00000008438	12741.16425	-2.451132988	0.064895428	0	PGLYRP1	peptidoglycan recognition protein 1 [Source:HGNC Symbol;Acc:8904]
4	ENSG00000012223	170974.5002	-2.449770214	0.037217047	0	LTF	lactotransferrin [Source:HGNC Symbol;Acc:6720]
5	ENSG00000019582	23853.31529	2.149609944	0.051810437	0	CD74	CD74 molecule, major histocompatibility complex, class II invariant chain [Source:HGNC Symbol;Acc:1697]
6	ENSG00000059804	14072.30556	-1.897867214	0.045287884	0	SLC2A3	solute carrier family 2 (facilitated glucose transporter), member 3 [Source:HGNC Symbol;Acc:11007]
7	ENSG00000079385	12514.06212	-2.406116019	0.053108049	0	CEACAM1	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein) [Source:HGNC Symbol;Acc:1814]
8	ENSG00000096006	13032.25861	-2.339161188	0.050365639	0	CRISP3	cysteine-rich secretory protein 3 [Source:HGNC Symbol;Acc:16904]
9	ENSG00000100448	5037.693028	-3.560662274	0.064752225	0	CTSG	cathepsin G [Source:HGNC Symbol;Acc:2532]
10	ENSG00000100504	18527.48567	-1.905157273	0.0505606	0	PYGL	phosphorylase, glycogen, liver [Source:HGNC Symbol;Acc:9725]
11	ENSG00000101425	22644.55065	-2.599996418	0.045755181	0	BPI	bactericidal/permeability-increasing protein [Source:HGNC Symbol;Acc:1095]
12	ENSG00000105205	6962.801098	-2.929570074	0.058127945	0	CLC	Charcot-Leyden crystal galectin [Source:HGNC Symbol;Acc:2014]
13	ENSG00000107447	3041.260508	4.574473457	0.090238452	0	DNTT	DNA nucleotidylexotransferase [Source:HGNC Symbol;Acc:2983]
14	ENSG00000112096	29170.08726	2.13141771	0.042108456	0	SOD2	superoxide dismutase 2, mitochondrial [Source:HGNC Symbol;Acc:11180]
15	ENSG00000115523	8254.0469	4.104207267	0.063876767	0	GNLY	granulysin [Source:HGNC Symbol;Acc:4414]
16	ENSG00000117289	9594.184599	3.204112312	0.066129212	0	TXNIP	thioredoxin interacting protein [Source:HGNC Symbol;Acc:16952]
17	ENSG00000118113	15684.75416	-3.250406702	0.054287505	0	MMP8	matrix metalloproteinase 8 (neutrophil collagenase) [Source:HGNC Symbol;Acc:7175]
18	ENSG00000121316	10173.27372	-2.330769767	0.05581644	0	PLBD1	phospholipase B domain containing 1 [Source:HGNC Symbol;Acc:26215]
19	ENSG00000124942	23239.37428	2.801518184	0.048893882	0	AHNAK	AHNAK nucleoprotein [Source:HGNC Symbol;Acc:347]
20	ENSG00000132465	4271.786449	4.285281331	0.076529523	0	IGJ	immunoglobulin J polypeptide, linker protein for immunoglobulin alpha and mu polypeptides [Source:HGNC Symbol;Acc:5713]
21	ENSG00000133561	2412.362894	4.091901931	0.097816923	0	GIMAP6	GTPase, IMAP family member 6 [Source:HGNC Symbol;Acc:21918]
22	ENSG00000136026	8459.422856	-2.146745229	0.053965196	0	CKAP4	cytoskeleton-associated protein 4 [Source:HGNC Symbol;Acc:16991]

23	ENSG00000138772	10212.05432	-2.368364637	0.056536741	0	ANXA3	annexin A3 [Source:HGNC Symbol;Acc:541]
24	ENSG00000143546	353452.0374	-2.10177758	0.038909048	0	S100A8	S100 calcium binding protein A8 [Source:HGNC Symbol;Acc:10498]
25	ENSG00000148346	32091.60957	-2.000209416	0.045288609	0	LCN2	lipocalin 2 [Source:HGNC Symbol;Acc:6526]
26	ENSG00000157514	20375.42658	2.989135362	0.048034717	0	TSC2D3	TSC22 domain family, member 3 [Source:HGNC Symbol;Acc:3051]
27	ENSG00000158710	19870.4002	1.99785625	0.04686115	0	TAGLN2	transgelin 2 [Source:HGNC Symbol;Acc:11554]
28	ENSG00000159339	33570.11204	-2.153992641	0.042816866	0	PADI4	peptidyl arginine deiminase, type IV [Source:HGNC Symbol;Acc:18368]
29	ENSG00000162654	2311.22736	3.405801902	0.090189196	0	GBP4	guanylate binding protein 4 [Source:HGNC Symbol;Acc:20480]
30	ENSG00000163221	50518.96987	-3.086568692	0.047227212	0	S100A12	S100 calcium binding protein A12 [Source:HGNC Symbol;Acc:10489]
31	ENSG00000163993	3689.206058	-2.61061988	0.068458596	0	S100P	S100 calcium binding protein P [Source:HGNC Symbol;Acc:10504]
32	ENSG00000165168	16300.64388	-2.17202299	0.057447339	0	CYBB	cytochrome b-245, beta polypeptide [Source:HGNC Symbol;Acc:2578]
33	ENSG00000168685	6529.561414	3.086752063	0.070730597	0	IL7R	interleukin 7 receptor [Source:HGNC Symbol;Acc:6024]
34	ENSG00000169442	4046.857949	2.963054345	0.069435454	0	CD52	CD52 molecule [Source:HGNC Symbol;Acc:1804]
35	ENSG00000169896	24001.93142	-2.117320963	0.048035735	0	ITGAM	integrin, alpha M (complement component 3 receptor 3 subunit) [Source:HGNC Symbol;Acc:6149]
36	ENSG00000170571	21793.10095	-2.148034862	0.051116014	0	EMB	embigin [Source:HGNC Symbol;Acc:30465]
37	ENSG00000173334	6721.13838	-3.481349587	0.063783192	0	TRIB1	tribbles pseudokinase 1 [Source:HGNC Symbol;Acc:16891]
38	ENSG00000180644	3657.398829	4.282942422	0.094826207	0	PRF1	perforin 1 (pore forming protein) [Source:HGNC Symbol;Acc:9360]
39	ENSG00000229295	3178.766804	3.108365863	0.075344187	0	HLA-DPB1	major histocompatibility complex, class II, DP beta 1 [Source:HGNC Symbol;Acc:4940]
40	ENSG00000239839	97534.47237	-1.58583423	0.037749599	0	DEFA3	defensin, alpha 3, neutrophil-specific [Source:HGNC Symbol;Acc:2762]
41	ENSG00000244734	158683.7472	2.984684521	0.039163382	0	HBB	hemoglobin, beta [Source:HGNC Symbol;Acc:4827]
42	ENSG00000257017	7638.794871	-2.31578068	0.055086594	0	HP	haptoglobin [Source:HGNC Symbol;Acc:5141]
43	ENSG00000265972	47527.49184	2.804160803	0.049289636	0	TXNIP	cDNA FLJ61424, highly similar to Homo sapiens thioredoxin interacting protein (TXNIP), mRNA [Source:UniProtKB/TrEMBL;Acc:B4DVM7]
44	ENSG00000268765	16300.26692	-2.172042265	0.05742986	0	CYBB	cytochrome b-245, beta polypeptide [Source:HGNC Symbol;Acc:2578]
45	ENSG00000142657	17500.47227	-1.627379333	0.043561484	7.76E-303	PGD	phosphogluconate dehydrogenase [Source:HGNC Symbol;Acc:8891]
46	ENSG00000204936	1612.879916	-3.79358762	0.101595198	1.49E-302	CD177	CD177 molecule [Source:HGNC Symbol;Acc:30072]
47	ENSG00000118520	4679.545263	-2.258255174	0.060574469	1.35E-301	ARG1	arginase 1 [Source:HGNC Symbol;Acc:663]
48	ENSG00000168329	2501.405111	3.481908171	0.093435695	2.34E-301	CX3CR1	chemokine (C-X3-C motif) receptor 1 [Source:HGNC Symbol;Acc:2558]
49	ENSG00000100985	24707.48163	-2.812170916	0.075502341	4.67E-301	MMP9	matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase) [Source:HGNC Symbol;Acc:7176]
50	ENSG00000271503	2488.183426	3.196292365	0.086160821	1.18E-298	CCL5	chemokine (C-C motif) ligand 5 [Source:HGNC Symbol;Acc:10632]



51	ENSG00000161570	2488.224271	3.194229473	0.086169153	3.16E-298	CCL5	chemokine (C-C motif) ligand 5 [Source:HGNC Symbol;Acc:10632]
52	ENSG00000107742	3654.93659	3.062599184	0.082618259	3.16E-298	SPOCK2	sparc/osteonectin, cwcv and kazal-like domains proteoglycan (testican) 2 [Source:HGNC Symbol;Acc:13564]
53	ENSG00000124490	2198.569818	-3.140808323	0.084975988	1.70E-296	CRISP2	cysteine-rich secretory protein 2 [Source:HGNC Symbol;Acc:12024]
54	ENSG00000164047	25083.72407	-1.658135995	0.044863488	1.77E-296	CAMP	cathelicidin antimicrobial peptide [Source:HGNC Symbol;Acc:1472]
55	ENSG00000198851	3385.700806	2.788376414	0.075595177	2.67E-295	CD3E	CD3e molecule, epsilon (CD3-TCR complex) [Source:HGNC Symbol;Acc:1674]
56	ENSG00000186529	22846.77155	-1.696411387	0.046224444	2.49E-292	CYP4F3	cytochrome P450, family 4, subfamily F, polypeptide 3 [Source:HGNC Symbol;Acc:2646]
57	ENSG00000229164	3210.524449	2.936678145	0.08068849	1.66E-287	TRAC	T cell receptor alpha constant [Source:HGNC Symbol;Acc:12029]
58	ENSG00000154451	4514.857419	2.617267596	0.072034267	1.54E-286	GBP5	guanylate binding protein 5 [Source:HGNC Symbol;Acc:19895]
59	ENSG00000174059	1318.660594	4.595798131	0.126968544	2.20E-284	CD34	CD34 molecule [Source:HGNC Symbol;Acc:1662]
60	ENSG00000100450	1931.230257	3.804941563	0.105415252	8.54E-283	GZMH	granzyme H (cathepsin G-like 2, protein h-CCPX) [Source:HGNC Symbol;Acc:4710]
61	ENSG00000196405	4865.889688	2.290570733	0.064010121	5.90E-278	EVL	Enah/Vasp-like [Source:HGNC Symbol;Acc:20234]
62	ENSG00000213809	2820.14037	2.98332435	0.083458775	2.30E-277	KLRK1	killer cell lectin-like receptor subfamily K, member 1 [Source:HGNC Symbol;Acc:18788]
63	ENSG00000103569	7509.708039	2.238579379	0.062631018	2.58E-277	AQP9	aquaporin 9 [Source:HGNC Symbol;Acc:643]
64	ENSG00000188042	2573.32487	3.154777588	0.088360962	1.03E-276	ARL4C	ADP-ribosylation factor-like 4C [Source:HGNC Symbol;Acc:698]
65	ENSG00000196329	2259.239571	4.050170307	0.113931991	2.48E-274	GIMAP5	GTPase, IMAP family member 5 [Source:HGNC Symbol;Acc:18005]
66	ENSG00000228163	2293.107198	2.961722026	0.083466653	2.47E-273	HLA-DPA1	major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:4938]
67	ENSG00000206291	2292.315065	2.961058084	0.083480397	3.97E-273	HLA-DPA1	major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:4938]
68	ENSG00000124469	12412.98263	-1.798336078	0.050788439	3.49E-272	CEACAM8	carcinoembryonic antigen-related cell adhesion molecule 8 [Source:HGNC Symbol;Acc:1820]
69	ENSG00000081059	2722.000577	2.947237791	0.083694576	3.29E-269	TCF7	transcription factor 7 (T-cell specific, HMG-box) [Source:HGNC Symbol;Acc:11639]
70	ENSG00000010810	2756.774756	2.863893117	0.081708911	1.04E-266	FYN	FYN oncogene related to SRC, FGR, YES [Source:HGNC Symbol;Acc:4037]
71	ENSG00000183019	3406.061701	-2.608063233	0.074906887	3.50E-263	C19orf59	chromosome 19 open reading frame 59 [Source:HGNC Symbol;Acc:27291]
72	ENSG00000162645	5681.138416	2.213336392	0.063699983	4.10E-262	GBP2	guanylate binding protein 2, interferon-inducible [Source:HGNC Symbol;Acc:4183]
73	ENSG00000092529	6379.060866	-1.943094448	0.056273779	7.47E-259	CAPN3	calpain 3, (p94) [Source:HGNC Symbol;Acc:1480]
74	ENSG00000152229	4554.3252	-2.231108792	0.064635643	1.08E-258	PSTPIP2	proline-serine-threonine phosphatase interacting protein 2 [Source:HGNC Symbol;Acc:9581]
75	ENSG00000198821	2096.735274	3.282489928	0.096444181	1.68E-251	CD247	CD247 molecule [Source:HGNC Symbol;Acc:1677]
76	ENSG00000180871	15643.22069	1.784507411	0.052502145	7.91E-251	CXCR2	chemokine (C-X-C motif) receptor 2 [Source:HGNC Symbol;Acc:6027]
77	ENSG00000169429	11442.58958	-1.857324809	0.054798404	2.00E-249	IL8	interleukin 8 [Source:HGNC Symbol;Acc:6025]
78	ENSG00000164104	14323.52285	-1.765845034	0.052349864	4.77E-247	HMGB2	high mobility group box 2 [Source:HGNC Symbol;Acc:5000]

79	ENSG00000185215	16358.87505	1.765726938	0.05296458	2.59E-241	TNFAIP2	tumor necrosis factor, alpha-induced protein 2 [Source:HGNC Symbol;Acc:11895]
80	ENSG00000242550	3423.001401	-2.668651965	0.080088152	4.42E-241	SERPINB10	serpin peptidase inhibitor, clade B (ovalbumin), member 10 [Source:HGNC Symbol;Acc:8942]
81	ENSG00000196415	1786.930375	-3.951852701	0.118744238	1.72E-240	PRTN3	proteinase 3 [Source:HGNC Symbol;Acc:9495]
82	ENSG00000257473	1227.139531	4.103254992	0.124466982	5.58E-236	DQ-A1	MHC class II antigen [Source:UniProtKB/TrEMBL;Acc:Q5Y7D2]
83	ENSG00000262134	2350.876664	3.095164577	0.093896323	6.08E-236	TRBC1	T cell receptor beta constant 1 [Source:HGNC Symbol;Acc:12156]
84	ENSG00000105639	3250.326857	2.380187701	0.072399322	1.09E-234	JAK3	Janus kinase 3 [Source:HGNC Symbol;Acc:6193]
85	ENSG00000179144	1877.171952	3.43188949	0.104712518	3.00E-233	GIMAP7	GTPase, IMAP family member 7 [Source:HGNC Symbol;Acc:22404]
86	ENSG00000163220	266637.797	-1.873724355	0.057360412	1.04E-231	S100A9	S100 calcium binding protein A9 [Source:HGNC Symbol;Acc:10499]
87	ENSG00000184702	2232.417075	-2.613514426	0.080144463	6.36E-231	SEPT1	septin 5 [Source:HGNC Symbol;Acc:9164]
88	ENSG00000118515	5180.852199	2.086891029	0.064078176	2.49E-230	SGK1	serum/glucocorticoid regulated kinase 1 [Source:HGNC Symbol;Acc:10810]
89	ENSG00000261321	8321.981301	-1.700935215	0.052702858	3.40E-226	FAM101B	family with sequence similarity 101, member B [Source:HGNC Symbol;Acc:28705]
90	ENSG00000183688	8321.776218	-1.70087235	0.052701945	3.43E-226	FAM101B	family with sequence similarity 101, member B [Source:HGNC Symbol;Acc:28705]
91	ENSG00000234794	1933.825471	2.916740543	0.09061166	5.10E-225	HLA-DRA	major histocompatibility complex, class II, DR alpha [Source:HGNC Symbol;Acc:4947]
92	ENSG00000230726	1933.693687	2.916599309	0.090617545	5.67E-225	HLA-DRA	major histocompatibility complex, class II, DR alpha [Source:HGNC Symbol;Acc:4947]
93	ENSG00000206308	1933.504382	2.916406418	0.090613648	5.75E-225	HLA-DRA	major histocompatibility complex, class II, DR alpha [Source:HGNC Symbol;Acc:4947]
94	ENSG00000127507	3615.069339	2.440172827	0.075999708	6.86E-224	EMR2	egf-like module containing, mucin-like, hormone receptor-like 2 [Source:HGNC Symbol;Acc:3337]
95	ENSG00000272398	14233.28432	-1.621792217	0.050768737	1.26E-221	CD24	CD24 molecule [Source:HGNC Symbol;Acc:1645]
96	ENSG00000225697	3000.24758	-2.307344301	0.072785648	2.98E-218	SLC26A6	solute carrier family 26 (anion exchanger), member 6 [Source:HGNC Symbol;Acc:14472]
97	ENSG00000137441	1326.214345	4.064829084	0.128556776	3.91E-217	FGFBP2	fibroblast growth factor binding protein 2 [Source:HGNC Symbol;Acc:29451]
98	ENSG00000133742	1274.833188	-4.060994202	0.128583518	1.22E-216	CA1	carbonic anhydrase I [Source:HGNC Symbol;Acc:1368]
99	ENSG00000160883	13678.19391	-2.060409856	0.065278991	2.24E-216	HK3	hexokinase 3 (white cell) [Source:HGNC Symbol;Acc:4925]
100	ENSG00000153563	1966.196514	2.891631577	0.091738028	8.51E-216	CD8A	CD8a molecule [Source:HGNC Symbol;Acc:1706]
101	ENSG00000166750	2359.217174	2.842624742	0.090245871	1.68E-215	SLFN5	schlafen family member 5 [Source:HGNC Symbol;Acc:28286]
102	ENSG00000198502	1959.897871	2.739376611	0.087061317	4.82E-215	HLA-DRB5	major histocompatibility complex, class II, DR beta 5 [Source:HGNC Symbol;Acc:4953]
103	ENSG00000227993	2825.290381	2.973553933	0.094813734	1.21E-213	HLA-DRA	major histocompatibility complex, class II, DR alpha [Source:HGNC Symbol;Acc:4947]
104	ENSG00000164821	4960.692544	-1.916182168	0.061110616	1.45E-213	DEFA4	defensin, alpha 4, corticostatin [Source:HGNC Symbol;Acc:2763]
105	ENSG00000169180	14419.78476	1.655949137	0.053190882	1.57E-210	XPO6	exportin 6 [Source:HGNC Symbol;Acc:19733]
106	ENSG00000268963	16792.02765	1.380198736	0.044470821	3.11E-209	RPL10	ribosomal protein L10 [Source:HGNC Symbol;Acc:10298]

107	ENSG00000085265	31441.36093	-2.059367435	0.066356867	3.21E-209	FCN1	ficolin (collagen/fibrinogen domain containing) 1 [Source:HGNC Symbol;Acc:3623]
108	ENSG00000260881	1872.235178	3.068034749	0.098939048	6.99E-209	TRBC2	T cell receptor beta constant 2 [Source:HGNC Symbol;Acc:12157]
109	ENSG00000133574	3839.990744	2.336821348	0.075470614	2.89E-208	GIMAP4	GTPase, IMAP family member 4 [Source:HGNC Symbol;Acc:21872]
110	ENSG00000158825	7253.684974	-1.620896056	0.052388576	5.91E-208	CDA	cytidine deaminase [Source:HGNC Symbol;Acc:1712]
111	ENSG00000211772	1869.49808	3.064483135	0.099311947	7.57E-207	TRBC2	T cell receptor beta constant 2 [Source:HGNC Symbol;Acc:12157]
112	ENSG00000101474	11799.6414	-1.523852231	0.049664051	1.59E-204	APMAP	adipocyte plasma membrane associated protein [Source:HGNC Symbol;Acc:13238]
113	ENSG00000196549	7433.704747	1.879442693	0.06136392	8.64E-204	MME	membrane metallo-endopeptidase [Source:HGNC Symbol;Acc:7154]
114	ENSG00000116824	1751.05952	3.062717221	0.100566474	1.71E-201	CD2	CD2 molecule [Source:HGNC Symbol;Acc:1639]
115	ENSG00000147454	12161.85941	1.448567759	0.047822697	2.50E-199	SLC25A37	solute carrier family 25 (mitochondrial iron transporter), member 37 [Source:HGNC Symbol;Acc:29786]
116	ENSG00000162894	2043.415466	2.857179709	0.094615784	4.10E-198	FAIM3	Fas apoptotic inhibitory molecule 3 [Source:HGNC Symbol;Acc:14315]
117	ENSG00000067225	15668.5357	-1.401221818	0.046423738	6.28E-198	PKM	pyruvate kinase, muscle [Source:HGNC Symbol;Acc:9021]
118	ENSG00000084070	15300.7673	1.565483212	0.052377038	4.37E-194	SMAP2	small ArfGAP2 [Source:HGNC Symbol;Acc:25082]
119	ENSG00000197063	2633.242291	-2.386300373	0.079887964	7.46E-194	MAFG	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog G [Source:HGNC Symbol;Acc:6781]
120	ENSG00000177954	17862.20364	1.49850057	0.050511723	3.25E-191	RPS27	ribosomal protein S27 [Source:HGNC Symbol;Acc:10416]
121	ENSG00000163464	10785.0619	1.485700868	0.050316627	2.00E-189	CXCR1	chemokine (C-X-C motif) receptor 1 [Source:HGNC Symbol;Acc:6026]
122	ENSG00000196126	1805.28367	2.697924825	0.091423589	3.27E-189	HLA-DRB1	major histocompatibility complex, class II, DR beta 1 [Source:HGNC Symbol;Acc:4948]
123	ENSG00000100453	1131.555818	3.921826077	0.133136954	1.55E-188	GZMB	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1) [Source:HGNC Symbol;Acc:4709]
124	ENSG00000211829	1036.254023	4.315523059	0.147837919	3.82E-185	TRDC	T cell receptor delta constant [Source:HGNC Symbol;Acc:12253]
125	ENSG00000160209	4544.72962	-2.118178642	0.072842599	9.95E-184	PDXK	pyridoxal (pyridoxine, vitamin B6) kinase [Source:HGNC Symbol;Acc:8819]
126	ENSG00000197965	2207.341398	2.778041608	0.095739709	6.03E-183	MPZL1	myelin protein zero-like 1 [Source:HGNC Symbol;Acc:7226]
127	ENSG00000135636	10971.47274	-1.450229547	0.050166825	1.39E-181	DYSF	dysferlin [Source:HGNC Symbol;Acc:3097]
128	ENSG00000170525	2782.49354	-2.249513778	0.077862929	2.29E-181	PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 3 [Source:HGNC Symbol;Acc:8874]
129	ENSG00000121966	19637.84825	-1.389122062	0.048334641	1.77E-179	CXCR4	chemokine (C-X-C motif) receptor 4 [Source:HGNC Symbol;Acc:2561]
130	ENSG00000113369	4256.756843	2.152216853	0.075321946	2.06E-177	ARRDC3	arrestin domain containing 3 [Source:HGNC Symbol;Acc:29263]
131	ENSG00000159496	2726.5612	-2.135529257	0.074755767	2.49E-177	RGL4	ral guanine nucleotide dissociation stimulator-like 4 [Source:HGNC Symbol;Acc:31911]
132	ENSG00000186470	4780.027518	1.892623395	0.066784813	1.62E-174	BTN3A2	butyrophilin, subfamily 3, member A2 [Source:HGNC Symbol;Acc:1139]
133	ENSG00000120833	1343.31599	3.220851491	0.113929141	1.12E-173	SOCS2	suppressor of cytokine signaling 2 [Source:HGNC Symbol;Acc:19382]
134	ENSG00000026025	32823.57673	-1.175511093	0.041630542	2.89E-173	VIM	vimentin [Source:HGNC Symbol;Acc:12692]

135	ENSG00000163754	3357.240373	-1.994187967	0.070802537	2.15E-172	GYG1	glycogenin 1 [Source:HGNC Symbol;Acc:4699]
136	ENSG00000185650	7089.654676	1.527936683	0.054551145	1.72E-170	ZFP36L1	ZFP36 ring finger protein-like 1 [Source:HGNC Symbol;Acc:1107]
137	ENSG00000205336	2338.918774	3.331921608	0.118961311	1.75E-170	GPR56	G protein-coupled receptor 56 [Source:HGNC Symbol;Acc:4512]
138	ENSG00000134827	6472.599631	-2.029436084	0.072563033	5.42E-170	TCN1	transcobalamin I (vitamin B12 binding protein, R binder family) [Source:HGNC Symbol;Acc:11652]
139	ENSG00000134539	1205.274152	3.41229352	0.122142734	1.28E-169	KLRD1	killer cell lectin-like receptor subfamily D, member 1 [Source:HGNC Symbol;Acc:6378]
140	ENSG00000020633	2748.986369	2.277060639	0.081560052	2.11E-169	RUNX3	runt-related transcription factor 3 [Source:HGNC Symbol;Acc:10473]
141	ENSG00000144802	4231.364553	-2.033455674	0.073085252	3.03E-168	NFKBIZ	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta [Source:HGNC Symbol;Acc:29805]
142	ENSG00000100100	1913.930844	2.538319466	0.09131976	6.40E-168	PIK3IP1	phosphoinositide-3-kinase interacting protein 1 [Source:HGNC Symbol;Acc:24942]
143	ENSG00000148154	7337.695945	-1.647454627	0.059348902	1.79E-167	UGCG	UDP-glucose ceramide glucosyltransferase [Source:HGNC Symbol;Acc:12524]
144	ENSG00000090382	82670.64202	-1.119415799	0.040345536	2.55E-167	LYZ	lysozyme [Source:HGNC Symbol;Acc:6740]
145	ENSG00000110931	7295.724615	-1.495117557	0.054001053	1.30E-166	CAMKK2	calcium/calmodulin-dependent protein kinase kinase 2, beta [Source:HGNC Symbol;Acc:1470]
146	ENSG00000123836	2008.456683	-2.402153654	0.086765202	1.33E-166	PFKFB2	6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 2 [Source:HGNC Symbol;Acc:8873]
147	ENSG00000123146	11066.04704	1.908519516	0.06907015	5.91E-166	CD97	CD97 molecule [Source:HGNC Symbol;Acc:1711]
148	ENSG00000152518	8891.444518	1.458275221	0.053061911	3.59E-164	ZFP36L2	ZFP36 ring finger protein-like 2 [Source:HGNC Symbol;Acc:1108]
149	ENSG00000113719	4726.824601	1.861215269	0.067908865	2.80E-163	ERGIC1	endoplasmic reticulum-golgi intermediate compartment (ERGIC) 1 [Source:HGNC Symbol;Acc:29205]
150	ENSG00000129657	9311.148905	1.393999228	0.051165569	2.38E-161	SEC14L1	SEC14-like 1 (S. cerevisiae) [Source:HGNC Symbol;Acc:10698]
151	ENSG00000111371	3494.709181	1.93930116	0.071269815	6.01E-161	SLC38A1	solute carrier family 38, member 1 [Source:HGNC Symbol;Acc:13447]
152	ENSG00000134198	3615.313216	-1.928999505	0.070929048	8.87E-161	TSPAN2	tetraspanin 2 [Source:HGNC Symbol;Acc:20659]
153	ENSG00000072274	2263.83559	-2.170375527	0.080162467	2.39E-159	TFRC	transferrin receptor [Source:HGNC Symbol;Acc:11763]
154	ENSG00000185201	32151.25233	1.164088696	0.043064197	7.67E-159	IFITM2	interferon induced transmembrane protein 2 [Source:HGNC Symbol;Acc:5413]
155	ENSG00000170989	1146.166816	4.138088498	0.153535763	6.53E-158	S1PR1	sphingosine-1-phosphate receptor 1 [Source:HGNC Symbol;Acc:3165]
156	ENSG00000196187	7565.494652	-1.468673586	0.054540166	1.23E-157	TMEM63A	transmembrane protein 63A [Source:HGNC Symbol;Acc:29118]
157	ENSG00000110852	2429.38736	2.221252049	0.08296451	7.84E-156	CLEC2B	C-type lectin domain family 2, member B [Source:HGNC Symbol;Acc:2053]
158	ENSG00000135362	1195.063641	3.265821626	0.122521532	1.85E-154	PRR5L	proline rich 5 like [Source:HGNC Symbol;Acc:25878]
159	ENSG00000073861	1002.555074	3.528898103	0.132690903	9.16E-154	TBX21	T-box 21 [Source:HGNC Symbol;Acc:11599]
160	ENSG00000196735	893.5128549	3.354688781	0.126271573	1.90E-153	HLA-DQA1	major histocompatibility complex, class II, DQ alpha 1 [Source:HGNC Symbol;Acc:4942]
161	ENSG00000153292	599.2581451	4.868896592	0.184976164	1.26E-150	GPR110	G protein-coupled receptor 110 [Source:HGNC Symbol;Acc:18990]
162	ENSG00000120306	2401.151823	-2.019811783	0.076803184	2.30E-150	CYSTM1	cysteine-rich transmembrane module containing 1 [Source:HGNC Symbol;Acc:30239]

163	ENSG00000142541	23602.18642	1.181207586	0.04497664	5.88E-150	RPL13A	ribosomal protein L13a [Source:HGNC Symbol;Acc:10304]
164	ENSG00000147403	4497.967031	1.76354833	0.067220694	1.20E-149	RPL10	ribosomal protein L10 [Source:HGNC Symbol;Acc:10298]
165	ENSG00000105220	6652.244167	-1.546344055	0.058969465	1.66E-149	GPI	glucose-6-phosphate isomerase [Source:HGNC Symbol;Acc:4458]
166	ENSG00000177628	3669.101036	-1.717285902	0.065673422	1.14E-148	GBA	glucosidase, beta, acid [Source:HGNC Symbol;Acc:4177]
167	ENSG00000132965	15603.64452	-1.465105344	0.056040849	1.31E-148	ALOX5AP	arachidonate 5-lipoxygenase-activating protein [Source:HGNC Symbol;Acc:436]
168	ENSG00000197006	5106.234558	-1.6423388	0.063017958	1.11E-147	METTL9	methyltransferase like 9 [Source:HGNC Symbol;Acc:24586]
169	ENSG00000231286	1147.025742	3.674709414	0.141178518	2.59E-147	HLA-DQB1	major histocompatibility complex, class II, DQ beta 1 [Source:HGNC Symbol;Acc:4944]
170	ENSG00000110324	4125.223755	2.206809064	0.085029376	1.83E-146	IL10RA	interleukin 10 receptor, alpha [Source:HGNC Symbol;Acc:5964]
171	ENSG00000133805	4880.966282	-1.726578795	0.067104187	5.93E-144	AMPD3	adenosine monophosphate deaminase 3 [Source:HGNC Symbol;Acc:470]
172	ENSG00000126353	940.4332927	3.928381526	0.153630348	3.55E-142	CCR7	chemokine (C-C motif) receptor 7 [Source:HGNC Symbol;Acc:1608]
173	ENSG00000152766	762.8557959	-3.421034295	0.133960848	8.16E-142	ANKRD22	ankyrin repeat domain 22 [Source:HGNC Symbol;Acc:28321]
174	ENSG00000163346	6841.003558	1.644497297	0.064611373	7.19E-141	PBXIP1	pre-B-cell leukemia homeobox interacting protein 1 [Source:HGNC Symbol;Acc:21199]
175	ENSG00000131724	1842.976698	2.573366284	0.101267924	2.01E-140	IL13RA1	interleukin 13 receptor, alpha 1 [Source:HGNC Symbol;Acc:5974]
176	ENSG00000117115	9796.139958	-1.221714995	0.048511344	6.36E-138	PADI2	peptidyl arginine deiminase, type II [Source:HGNC Symbol;Acc:18341]
177	ENSG00000034510	12073.38645	1.245138274	0.049470613	9.20E-138	TMSB10	thymosin beta 10 [Source:HGNC Symbol;Acc:11879]
178	ENSG00000109046	10509.86253	-1.335604911	0.05307602	1.04E-137	WSB1	WD repeat and SOCS box containing 1 [Source:HGNC Symbol;Acc:19221]
179	ENSG00000169385	2161.662087	-1.998471908	0.079652281	6.69E-137	RNASE2	ribonuclease, RNase A family, 2 (liver, eosinophil-derived neurotoxin) [Source:HGNC Symbol;Acc:10045]
180	ENSG00000164929	585.1015209	5.41014091	0.216709969	1.53E-135	BAALC	brain and acute leukemia, cytoplasmic [Source:HGNC Symbol;Acc:14333]
181	ENSG00000113263	1887.219746	2.523802284	0.101171683	2.46E-135	ITK	IL2-inducible T-cell kinase [Source:HGNC Symbol;Acc:6171]
182	ENSG00000008517	1837.990655	2.342466268	0.094184756	1.58E-134	IL32	interleukin 32 [Source:HGNC Symbol;Acc:16830]
183	ENSG00000198242	7136.592843	1.346752021	0.054331179	1.24E-133	RPL23A	ribosomal protein L23a [Source:HGNC Symbol;Acc:10317]
184	ENSG00000124102	986.5013402	3.315152294	0.134129373	7.31E-133	PI3	peptidase inhibitor 3, skin-derived [Source:HGNC Symbol;Acc:8947]
185	ENSG00000257335	9759.431038	-1.232219999	0.049860551	7.78E-133	MGAM	maltase-glucoamylase (alpha-glucosidase) [Source:HGNC Symbol;Acc:7043]
186	ENSG00000100385	1981.847599	2.57892681	0.104429234	1.20E-132	IL2RB	interleukin 2 receptor, beta [Source:HGNC Symbol;Acc:6009]
187	ENSG00000142534	16785.21305	1.107493555	0.044978088	7.18E-132	RPS11	ribosomal protein S11 [Source:HGNC Symbol;Acc:10384]
188	ENSG00000179583	1724.08741	2.686336156	0.109179798	1.12E-131	CIITA	class II, major histocompatibility complex, transactivator [Source:HGNC Symbol;Acc:7067]
189	ENSG00000161960	8600.290157	-1.25104961	0.05106058	1.42E-130	EIF4A1	eukaryotic translation initiation factor 4A1 [Source:HGNC Symbol;Acc:3282]
190	ENSG00000112306	12533.05137	1.188578426	0.048753893	2.80E-129	RPS12	ribosomal protein S12 [Source:HGNC Symbol;Acc:10385]

191	ENSG00000112715	2815.964555	-1.976744591	0.081153419	4.66E-129	VEGFA	vascular endothelial growth factor A [Source:HGNC Symbol;Acc:12680]
192	ENSG00000145649	1283.652995	2.973720013	0.122360297	1.78E-128	GZMA	granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3) [Source:HGNC Symbol;Acc:4708]
193	ENSG00000196101	952.2820357	2.978985133	0.122629776	2.28E-128	HLA-DRB3	major histocompatibility complex, class II, DR beta 3 [Source:HGNC Symbol;Acc:4951]
194	ENSG00000026297	12918.84272	1.155079481	0.047585895	3.60E-128	RNASET2	ribonuclease T2 [Source:HGNC Symbol;Acc:21686]
195	ENSG00000010818	1343.302166	2.598330134	0.107333854	1.76E-127	HIVEP2	human immunodeficiency virus type I enhancer binding protein 2 [Source:HGNC Symbol;Acc:4921]
196	ENSG00000116679	11008.42862	-1.179438934	0.048803653	4.72E-127	IVNS1ABP	influenza virus NS1A binding protein [Source:HGNC Symbol;Acc:16951]
197	ENSG00000142512	3421.864556	1.852487266	0.076895448	2.95E-126	SIGLEC10	sialic acid binding Ig-like lectin 10 [Source:HGNC Symbol;Acc:15620]
198	ENSG00000026950	6922.862523	1.612077551	0.066962127	4.37E-126	BTN3A1	butyrophilin, subfamily 3, member A1 [Source:HGNC Symbol;Acc:1138]
199	ENSG00000167286	1096.047281	2.981402398	0.124242529	2.84E-125	CD3D	CD3d molecule, delta (CD3-TCR complex) [Source:HGNC Symbol;Acc:1673]
200	ENSG00000167460	4683.175272	1.574309108	0.065750254	1.00E-124	TPM4	tropomyosin 4 [Source:HGNC Symbol;Acc:12013]
201	ENSG00000167210	1070.530164	-2.606756761	0.10909843	3.32E-124	LOXHD1	lipoxygenase homology domains 1 [Source:HGNC Symbol;Acc:26521]
202	ENSG00000111796	985.5564149	3.17623635	0.132939713	3.41E-124	KLRB1	killer cell lectin-like receptor subfamily B, member 1 [Source:HGNC Symbol;Acc:6373]
203	ENSG00000225373	6484.662882	-1.33847953	0.056103709	7.85E-124	WASH5P	WAS protein family homolog 5 pseudogene [Source:HGNC Symbol;Acc:33884]
204	ENSG00000138795	1552.850065	3.211032907	0.134851834	2.33E-123	LEF1	lymphoid enhancer-binding factor 1 [Source:HGNC Symbol;Acc:6551]
205	ENSG00000043143	1613.051203	2.3893506	0.100496365	5.47E-123	JADE2	jade family PHD finger 2 [Source:HGNC Symbol;Acc:22984]
206	ENSG00000111144	11708.39153	-1.3001335	0.054728835	8.67E-123	LTA4H	leukotriene A4 hydrolase [Source:HGNC Symbol;Acc:6710]
207	ENSG00000175274	3378.094393	-2.023346416	0.085190058	9.71E-123	TP53I11	tumor protein p53 inducible protein 11 [Source:HGNC Symbol;Acc:16842]
208	ENSG00000149516	5196.337378	-1.554550895	0.065572023	2.71E-122	MS4A3	membrane-spanning 4-domains, subfamily A, member 3 (hematopoietic cell-specific) [Source:HGNC Symbol;Acc:7317]
209	ENSG00000143947	14192.56518	1.159107788	0.049018167	1.15E-121	RPS27A	ribosomal protein S27a [Source:HGNC Symbol;Acc:10417]
210	ENSG00000181036	963.6358436	3.241358804	0.137142373	1.50E-121	FCRL6	Fc receptor-like 6 [Source:HGNC Symbol;Acc:31910]
211	ENSG00000172243	10749.73672	1.280419515	0.054268148	3.91E-121	CLEC7A	C-type lectin domain family 7, member A [Source:HGNC Symbol;Acc:14558]
212	ENSG00000143515	1931.161184	2.553716954	0.108372432	7.91E-121	ATP8B2	ATPase, aminophospholipid transporter, class I, type 8B, member 2 [Source:HGNC Symbol;Acc:13534]
213	ENSG00000106560	1128.828803	2.784862793	0.118522307	3.89E-120	GIMAP2	GTPase, IMAP family member 2 [Source:HGNC Symbol;Acc:21789]
214	ENSG00000131018	9350.9339	-1.164981482	0.049675544	1.11E-119	SYNE1	spectrin repeat containing, nuclear envelope 1 [Source:HGNC Symbol;Acc:17089]
215	ENSG00000142102	3776.767507	2.504652256	0.107100093	5.15E-119	ATHL1	ATH1, acid trehalase-like 1 (yeast) [Source:HGNC Symbol;Acc:26210]
216	ENSG00000163660	15567.09003	-1.057808436	0.045385321	3.24E-118	CCNL1	cyclin L1 [Source:HGNC Symbol;Acc:20569]
217	ENSG00000177663	13713.04045	-1.091417209	0.046865076	5.00E-118	IL17RA	interleukin 17 receptor A [Source:HGNC Symbol;Acc:5985]
218	ENSG00000112062	8594.96187	-1.217698969	0.052749266	5.67E-116	MAPK14	mitogen-activated protein kinase 14 [Source:HGNC Symbol;Acc:6876]

219	ENSG00000234851	4419.752078	1.432868758	0.062125184	9.05E-116	RP11-3P17.3	
220	ENSG00000086548	1939.891567	-1.983608851	0.086063372	1.30E-115	CEACAM6	carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen) [Source:HGNC Symbol;Acc:1818]
221	ENSG00000101224	2178.907118	1.867776504	0.081138656	2.51E-115	CDC25B	cell division cycle 25B [Source:HGNC Symbol;Acc:1726]
222	ENSG00000182866	1846.276451	2.436000756	0.105937719	4.44E-115	LCK	lymphocyte-specific protein tyrosine kinase [Source:HGNC Symbol;Acc:6524]
223	ENSG00000173868	3051.043035	2.262463827	0.09846229	6.50E-115	PHOSPHO1	phosphatase, orphan 1 [Source:HGNC Symbol;Acc:16815]
224	ENSG00000133872	8089.844473	1.283286476	0.055899994	1.05E-114	TMEM66	transmembrane protein 66 [Source:HGNC Symbol;Acc:28789]
225	ENSG00000055118	419.5327722	-4.801333403	0.209347132	1.74E-114	KCNH2	potassium voltage-gated channel, subfamily H (eag-related), member 2 [Source:HGNC Symbol;Acc:6251]
226	ENSG00000186431	1325.651796	-2.46156105	0.107367318	2.09E-114	FCAR	Fc fragment of IgA, receptor for [Source:HGNC Symbol;Acc:3608]
227	ENSG00000197561	1714.735907	-2.730783302	0.119173738	2.76E-114	ELANE	elastase, neutrophil expressed [Source:HGNC Symbol;Acc:3309]
228	ENSG00000057657	922.81664	3.54083546	0.154584758	3.36E-114	PRDM1	PR domain containing 1, with ZNF domain [Source:HGNC Symbol;Acc:9346]
229	ENSG00000144713	12531.29946	1.121459162	0.048982993	4.27E-114	RPL32	ribosomal protein L32 [Source:HGNC Symbol;Acc:10336]
230	ENSG00000158470	5965.636458	-1.367438807	0.059943543	2.83E-113	B4GALT5	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 5 [Source:HGNC Symbol;Acc:928]
231	ENSG00000111885	692.4105451	3.433409443	0.151112888	2.26E-112	MAN1A1	mannosidase, alpha, class 1A, member 1 [Source:HGNC Symbol;Acc:6821]
232	ENSG00000143369	463.2362107	5.408511577	0.238082818	2.46E-112	ECM1	extracellular matrix protein 1 [Source:HGNC Symbol;Acc:3153]
233	ENSG00000168016	2875.984921	1.899154651	0.083624449	2.83E-112	TRANK1	tetratricopeptide repeat and ankyrin repeat containing 1 [Source:HGNC Symbol;Acc:29011]
234	ENSG00000172543	963.9204808	3.144852142	0.138571425	4.03E-112	CTSW	cathepsin W [Source:HGNC Symbol;Acc:2546]
235	ENSG00000069974	7702.318466	-1.247818642	0.055085656	1.05E-111	RAB27A	RAB27A, member RAS oncogene family [Source:HGNC Symbol;Acc:9766]
236	ENSG00000111640	40752.73012	-1.064251429	0.047051887	2.25E-111	GAPDH	glyceraldehyde-3-phosphate dehydrogenase [Source:HGNC Symbol;Acc:4141]
237	ENSG00000196684	6133.854424	1.290744193	0.057076639	2.48E-111	HSH2D	hematopoietic SH2 domain containing [Source:HGNC Symbol;Acc:24920]
238	ENSG00000007312	1027.354333	2.789976949	0.123691933	9.25E-111	CD79B	CD79b molecule, immunoglobulin-associated beta [Source:HGNC Symbol;Acc:1699]
239	ENSG00000170542	1067.968198	2.695240225	0.119603899	1.48E-110	SERPINB9	serpin peptidase inhibitor, clade B (ovalbumin), member 9 [Source:HGNC Symbol;Acc:8955]
240	ENSG00000096063	4492.767397	-1.391104398	0.061811919	2.86E-110	SRPK1	SRSF protein kinase 1 [Source:HGNC Symbol;Acc:11305]
241	ENSG00000150093	4127.356991	1.502056028	0.066790502	4.12E-110	ITGB1	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12) [Source:HGNC Symbol;Acc:6153]
242	ENSG00000116741	38167.46	1.064861023	0.047375899	5.41E-110	RGS2	regulator of G-protein signaling 2, 24kDa [Source:HGNC Symbol;Acc:9998]
243	ENSG00000127152	1077.471349	2.76657284	0.123150723	7.04E-110	BCL11B	B-cell CLL/lymphoma 11B (zinc finger protein) [Source:HGNC Symbol;Acc:13222]
244	ENSG00000069667	1639.780496	2.453885773	0.109236315	7.16E-110	RORA	RAR-related orphan receptor A [Source:HGNC Symbol;Acc:10258]
245	ENSG00000205269	3381.565634	-1.625022891	0.072388073	1.01E-109	TMEM170B	transmembrane protein 170B [Source:HGNC Symbol;Acc:34244]
246	ENSG00000166710	148333.4559	1.03308026	0.046072852	1.80E-109	B2M	beta-2-microglobulin [Source:HGNC Symbol;Acc:914]

247	ENSG00000272939	2644.038176	-1.680386895	0.074995003	2.57E-109	CEACAM6	carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen) [Source:HGNC Symbol;Acc:1818]
248	ENSG00000113070	395.5386346	-4.70400223	0.209998889	2.96E-109	HBEGF	heparin-binding EGF-like growth factor [Source:HGNC Symbol;Acc:3059]
249	ENSG00000105501	6512.616979	-1.230444402	0.055175567	2.74E-108	SIGLEC5	sialic acid binding Ig-like lectin 5 [Source:HGNC Symbol;Acc:10874]
250	ENSG00000204287	1353.762119	3.076296706	0.137967033	2.94E-108	HLA-DRA	major histocompatibility complex, class II, DR alpha [Source:HGNC Symbol;Acc:4947]
251	ENSG00000139626	1690.03551	2.2395378	0.10056337	5.39E-108	ITGB7	integrin, beta 7 [Source:HGNC Symbol;Acc:6162]
252	ENSG00000123689	1911.74417	-2.072997737	0.093214465	1.07E-107	G0S2	G0/G1switch 2 [Source:HGNC Symbol;Acc:30229]
253	ENSG00000213626	2337.919732	2.043107026	0.091962452	1.75E-107	LBH	limb bud and heart development [Source:HGNC Symbol;Acc:29532]
254	ENSG00000186174	1591.932926	2.242130104	0.101177692	6.11E-107	BCL9L	B-cell CLL/lymphoma 9-like [Source:HGNC Symbol;Acc:23688]
255	ENSG00000064270	1104.936444	-2.336675311	0.105582566	1.16E-106	ATP2C2	ATPase, Ca <sup>++</sup> transporting, type 2C, member 2 [Source:HGNC Symbol;Acc:29103]
256	ENSG00000213741	5597.257168	1.287964539	0.058361204	4.60E-106	RPS29	ribosomal protein S29 [Source:HGNC Symbol;Acc:10419]
257	ENSG00000156508	156599.287	0.968769779	0.043920327	5.90E-106	EEF1A1	eukaryotic translation elongation factor 1 alpha 1 [Source:HGNC Symbol;Acc:3189]
258	ENSG00000173391	1836.88005	-1.859710018	0.084485667	1.60E-105	OLR1	oxidized low density lipoprotein (lectin-like) receptor 1 [Source:HGNC Symbol;Acc:8133]
259	ENSG00000111801	2285.612253	1.95926131	0.089166508	3.77E-105	BTN3A3	butyrophilin, subfamily 3, member A3 [Source:HGNC Symbol;Acc:1140]
260	ENSG00000070371	2331.626453	-1.940870977	0.088388628	5.18E-105	CLTCL1	clathrin, heavy chain-like 1 [Source:HGNC Symbol;Acc:2093]
261	ENSG00000021355	10856.5001	-1.027642237	0.046877892	1.16E-104	SERPINB1	serpin peptidase inhibitor, clade B (ovalbumin), member 1 [Source:HGNC Symbol;Acc:3311]
262	ENSG00000104043	3929.436194	-1.681438348	0.076726217	1.34E-104	ATP8B4	ATPase, class I, type 8B, member 4 [Source:HGNC Symbol;Acc:13536]
263	ENSG00000136156	27868.89435	1.006999366	0.046018421	2.71E-104	ITM2B	integral membrane protein 2B [Source:HGNC Symbol;Acc:6174]
264	ENSG00000107438	715.1306032	3.114193621	0.142608504	7.27E-104	PDLIM1	PDZ and LIM domain 1 [Source:HGNC Symbol;Acc:2067]
265	ENSG00000121691	5078.134138	-1.330544819	0.060947474	8.32E-104	CAT	catalase [Source:HGNC Symbol;Acc:1516]
266	ENSG00000109743	4529.130087	-1.529070306	0.07009944	1.23E-103	BST1	bone marrow stromal cell antigen 1 [Source:HGNC Symbol;Acc:1118]
267	ENSG00000127334	1525.093947	2.167045971	0.099444683	1.96E-103	DYRK2	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 2 [Source:HGNC Symbol;Acc:3093]
268	ENSG00000165801	1222.857084	2.920461735	0.134145114	3.06E-103	ARHGEF40	Rho guanine nucleotide exchange factor (GEF) 40 [Source:HGNC Symbol;Acc:25516]
269	ENSG00000100365	18260.55526	-1.136236656	0.052307083	8.76E-103	NCF4	neutrophil cytosolic factor 4, 40kDa [Source:HGNC Symbol;Acc:7662]
270	ENSG00000026751	1309.055016	2.698900601	0.124523183	2.51E-102	SLAMF7	SLAM family member 7 [Source:HGNC Symbol;Acc:21394]
271	ENSG00000185624	6812.811387	-1.197967343	0.055298491	3.12E-102	P4HB	prolyl 4-hydroxylase, beta polypeptide [Source:HGNC Symbol;Acc:8548]
272	ENSG00000122862	51247.64533	-1.070692349	0.049441946	3.71E-102	SRGN	serglycin [Source:HGNC Symbol;Acc:9361]
273	ENSG00000198755	7725.94879	1.148562244	0.053091747	5.95E-102	RPL10A	ribosomal protein L10a [Source:HGNC Symbol;Acc:10299]
274	ENSG00000156482	12713.14211	1.092510045	0.050586572	1.31E-101	RPL30	ribosomal protein L30 [Source:HGNC Symbol;Acc:10333]



275	ENSG00000167526	12941.82975	1.267662056	0.058718694	1.56E-101	RPL13	ribosomal protein L13 [Source:HGNC Symbol;Acc:10303]
276	ENSG00000127824	6373.718871	-1.293992068	0.059963809	1.90E-101	TUBA4A	tubulin, alpha 4a [Source:HGNC Symbol;Acc:12407]
277	ENSG00000105369	696.8990772	3.208238818	0.148923125	4.17E-101	CD79A	CD79a molecule, immunoglobulin-associated alpha [Source:HGNC Symbol;Acc:1698]
278	ENSG00000136810	5140.232985	-1.391538194	0.064620476	5.03E-101	TXN	thioredoxin [Source:HGNC Symbol;Acc:12435]
279	ENSG00000272985	697.1699685	3.203081271	0.148757334	5.21E-101	CD79A	CD79a molecule, immunoglobulin-associated alpha [Source:HGNC Symbol;Acc:1698]
280	ENSG00000183625	1296.85651	2.938414579	0.136608544	8.43E-101	CCR3	chemokine (C-C motif) receptor 3 [Source:HGNC Symbol;Acc:1604]
281	ENSG00000188229	3969.250481	-1.564722157	0.072820209	1.36E-100	TUBB4B	tubulin, beta 4B class IVb [Source:HGNC Symbol;Acc:20771]
282	ENSG00000090376	5778.935712	-1.292979906	0.060211398	1.81E-100	IRAK3	interleukin-1 receptor-associated kinase 3 [Source:HGNC Symbol;Acc:17020]
283	ENSG00000102010	769.1950848	-2.790626229	0.130370354	7.87E-100	BMX	BMX non-receptor tyrosine kinase [Source:HGNC Symbol;Acc:1079]
284	ENSG00000139572	801.1131941	-2.701526405	0.126458818	1.95E-99	GPR84	G protein-coupled receptor 84 [Source:HGNC Symbol;Acc:4535]
285	ENSG00000213203	841.1342801	3.001990687	0.140773436	4.37E-99	GIMAP1	GTPase, IMAP family member 1 [Source:HGNC Symbol;Acc:23237]
286	ENSG00000153064	1125.247408	2.390003793	0.112301052	1.09E-98	BANK1	B-cell scaffold protein with ankyrin repeats 1 [Source:HGNC Symbol;Acc:18233]
287	ENSG00000103811	2298.795779	-1.81048031	0.085126361	1.46E-98	CTSH	cathepsin H [Source:HGNC Symbol;Acc:2535]
288	ENSG00000110400	1230.701587	-2.289331271	0.107752766	2.33E-98	PVRL1	poliovirus receptor-related 1 (herpesvirus entry mediator C) [Source:HGNC Symbol;Acc:9706]
289	ENSG00000173930	2290.627375	-1.671226034	0.078724135	3.35E-98	SLCO4C1	solute carrier organic anion transporter family, member 4C1 [Source:HGNC Symbol;Acc:23612]
290	ENSG00000261371	10966.96299	1.145342542	0.054003473	5.12E-98	PECAM1	platelet/endothelial cell adhesion molecule 1 [Source:HGNC Symbol;Acc:8823]
291	ENSG00000125347	5394.453764	1.270324416	0.059917212	5.97E-98	IRF1	interferon regulatory factor 1 [Source:HGNC Symbol;Acc:6116]
292	ENSG00000062716	7174.908483	1.209966519	0.057098039	7.40E-98	VMP1	vacuole membrane protein 1 [Source:HGNC Symbol;Acc:29559]
293	ENSG00000175567	3466.490089	1.539350105	0.072764818	1.58E-97	UCP2	uncoupling protein 2 (mitochondrial, proton carrier) [Source:HGNC Symbol;Acc:12518]
294	ENSG00000177606	1342.242642	-2.050971576	0.097037314	2.37E-97	JUN	jun proto-oncogene [Source:HGNC Symbol;Acc:6204]
295	ENSG00000163823	972.7127229	2.931283443	0.138741335	2.81E-97	CCR1	chemokine (C-C motif) receptor 1 [Source:HGNC Symbol;Acc:1602]
296	ENSG00000160654	852.0484757	2.89382385	0.137234529	6.66E-97	CD3G	CD3g molecule, gamma (CD3-TCR complex) [Source:HGNC Symbol;Acc:1675]
297	ENSG00000162551	803.8266026	3.468020769	0.164673451	1.17E-96	ALPL	alkaline phosphatase, liver/bone/kidney [Source:HGNC Symbol;Acc:438]
298	ENSG00000198830	17580.28631	-1.014532766	0.048256548	2.50E-96	HMG2	high mobility group nucleosomal binding domain 2 [Source:HGNC Symbol;Acc:4986]
299	ENSG00000172322	9757.996072	-1.160639406	0.055281945	4.57E-96	CLEC12A	C-type lectin domain family 12, member A [Source:HGNC Symbol;Acc:31713]
300	ENSG00000160888	9937.03649	-1.196087853	0.056974463	4.70E-96	IER2	immediate early response 2 [Source:HGNC Symbol;Acc:28871]
301	ENSG00000138119	793.7979527	-2.734834976	0.130576159	1.31E-95	MYOF	myoferlin [Source:HGNC Symbol;Acc:3656]
302	ENSG00000071575	1196.824917	2.299484723	0.109891746	1.96E-95	TRIB2	tribbles pseudokinase 2 [Source:HGNC Symbol;Acc:30809]

303	ENSG00000171488	1005.380894	2.61895502	0.125227236	2.49E-95	LRRRC8C	leucine rich repeat containing 8 family, member C [Source:HGNC Symbol;Acc:25075]
304	ENSG00000087253	3575.435975	-1.387977156	0.066373632	2.59E-95	LPCAT2	lysophosphatidylcholine acyltransferase 2 [Source:HGNC Symbol;Acc:26032]
305	ENSG00000180739	605.8355561	3.555962388	0.170243423	4.27E-95	S1PR5	sphingosine-1-phosphate receptor 5 [Source:HGNC Symbol;Acc:14299]
306	ENSG00000197956	20193.68435	-0.983195858	0.047076461	4.48E-95	S100A6	S100 calcium binding protein A6 [Source:HGNC Symbol;Acc:10496]
307	ENSG00000167552	6396.807448	1.18685261	0.056849096	5.26E-95	TUBA1A	tubulin, alpha 1a [Source:HGNC Symbol;Acc:20766]
308	ENSG00000168461	7954.499973	-1.174629595	0.05630144	7.02E-95	RAB31	RAB31, member RAS oncogene family [Source:HGNC Symbol;Acc:9771]
309	ENSG00000091592	11078.16744	1.072736263	0.051426292	7.54E-95	NLRP1	NLR family, pyrin domain containing 1 [Source:HGNC Symbol;Acc:14374]
310	ENSG00000116852	6964.871442	-1.197852071	0.057435094	8.16E-95	KIF21B	kinesin family member 21B [Source:HGNC Symbol;Acc:29442]
311	ENSG00000149273	17070.69401	0.963678653	0.046219072	9.13E-95	RPS3	ribosomal protein S3 [Source:HGNC Symbol;Acc:10420]
312	ENSG00000203747	7287.697948	1.239081911	0.059489955	1.43E-94	FCGR3A	Fc fragment of IgG, low affinity IIIa, receptor (CD16a) [Source:HGNC Symbol;Acc:3619]
313	ENSG00000092841	30110.08224	-0.895098039	0.043073424	3.86E-94	MYL6	myosin, light chain 6, alkali, smooth muscle and non-muscle [Source:HGNC Symbol;Acc:7587]
314	ENSG00000145113	407.9791412	5.89522431	0.283992228	6.13E-94	MUC4	mucin 4, cell surface associated [Source:HGNC Symbol;Acc:7514]
315	ENSG00000226260	1709.767649	2.751410484	0.132927264	2.12E-93	HLA-DRA	major histocompatibility complex, class II, DR alpha [Source:HGNC Symbol;Acc:4947]
316	ENSG00000105373	2151.146373	2.037289718	0.098753078	8.72E-93	GLTSCR2	glioma tumor suppressor candidate region gene 2 [Source:HGNC Symbol;Acc:4333]
317	ENSG00000254772	18716.62717	0.891205838	0.04331807	2.80E-92	EEF1G	eukaryotic translation elongation factor 1 gamma [Source:HGNC Symbol;Acc:3213]
318	ENSG00000272207	2023.776337	1.845172718	0.089840817	5.77E-92	PLEKHO1	Pleckstrin homology domain containing, family O member 1; Pleckstrin homology domain containing, family O member 1, isoform CRA_c; Pleckstrin homology domain-containing family O member 1 [Source:UniProtKB/TrEMBL;Acc:Q5T4P9]
319	ENSG00000122966	520.5254466	-3.200671668	0.156114069	1.21E-91	CIT	citron (rho-interacting, serine/threonine kinase 21) [Source:HGNC Symbol;Acc:1985]
320	ENSG00000135842	6094.653395	1.3699283	0.066872676	1.69E-91	FAM129A	family with sequence similarity 129, member A [Source:HGNC Symbol;Acc:16784]
321	ENSG00000159399	3283.764601	-1.348977242	0.065861668	1.82E-91	HK2	hexokinase 2 [Source:HGNC Symbol;Acc:4923]
322	ENSG00000055332	3095.264541	-1.532212882	0.074930555	3.60E-91	EIF2AK2	eukaryotic translation initiation factor 2-alpha kinase 2 [Source:HGNC Symbol;Acc:9437]
323	ENSG00000184009	21244.4714	-0.940481392	0.046132832	1.28E-90	ACTG1	actin, gamma 1 [Source:HGNC Symbol;Acc:144]
324	ENSG00000106789	1693.643808	-1.826605177	0.089652508	1.63E-90	CORO2A	coronin, actin binding protein, 2A [Source:HGNC Symbol;Acc:2255]
325	ENSG00000069702	700.4305376	3.321354734	0.16313885	2.22E-90	TGFBR3	transforming growth factor, beta receptor III [Source:HGNC Symbol;Acc:11774]
326	ENSG00000267807	21243.23327	-0.939754067	0.04620678	3.40E-90	ACTG1	actin, gamma 1 [Source:HGNC Symbol;Acc:144]
327	ENSG00000100316	21834.57505	1.067349279	0.052526182	4.86E-90	RPL3	ribosomal protein L3 [Source:HGNC Symbol;Acc:10332]
328	ENSG00000163812	2977.669739	-1.511031232	0.074382749	5.49E-90	ZDHC3	zinc finger, DHC-type containing 3 [Source:HGNC Symbol;Acc:18470]
329	ENSG00000054523	2275.800687	-1.536022434	0.075766287	1.26E-89	KIF1B	kinesin family member 1B [Source:HGNC Symbol;Acc:16636]
330	ENSG00000139679	999.8307564	2.312181788	0.114207347	2.21E-89	LPAR6	lysophosphatidic acid receptor 6 [Source:HGNC Symbol;Acc:15520]

331	ENSG00000182162	2836.881108	1.531093826	0.075632569	2.28E-89	P2RY8	purinergic receptor P2Y, G-protein coupled, 8 [Source:HGNC Symbol;Acc:15524]
332	ENSG00000170476	689.1898666	3.416648055	0.168805082	2.44E-89	MZB1	marginal zone B and B1 cell-specific protein [Source:HGNC Symbol;Acc:30125]
333	ENSG00000171115	906.2924568	2.480834098	0.122637091	3.05E-89	GIMAP8	GTPase, IMAP family member 8 [Source:HGNC Symbol;Acc:21792]
334	ENSG00000160796	22543.25146	-1.127475408	0.055747655	3.33E-89	NBEAL2	neurobeachin-like 2 [Source:HGNC Symbol;Acc:31928]
335	ENSG00000260916	7036.372515	-1.104688573	0.054673932	4.94E-89	CCPG1	cell cycle progression 1 [Source:HGNC Symbol;Acc:24227]
336	ENSG00000163736	575.4340925	3.277879532	0.16231658	6.11E-89	PPBP	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7) [Source:HGNC Symbol;Acc:9240]
337	ENSG00000155657	9907.673688	-1.503600154	0.074475508	6.77E-89	TTN	titin [Source:HGNC Symbol;Acc:12403]
338	ENSG00000099204	1686.968092	2.015552231	0.099854282	7.35E-89	ABLIM1	actin binding LIM protein 1 [Source:HGNC Symbol;Acc:78]
339	ENSG00000229314	1547.559631	-1.824112752	0.090662209	2.73E-88	ORM1	orosomucoid 1 [Source:HGNC Symbol;Acc:8498]
340	ENSG00000070081	2378.561	-1.530599086	0.0762149	5.76E-88	NUCB2	nucleobindin 2 [Source:HGNC Symbol;Acc:8044]
341	ENSG00000075303	1687.42502	-1.987461879	0.099024962	7.36E-88	SLC25A40	solute carrier family 25, member 40 [Source:HGNC Symbol;Acc:29680]
342	ENSG00000138449	3179.752607	-1.387482505	0.069141634	7.81E-88	SLC40A1	solute carrier family 40 (iron-regulated transporter), member 1 [Source:HGNC Symbol;Acc:10909]
343	ENSG00000081189	1021.855874	2.323926009	0.115808796	7.84E-88	MEF2C	myocyte enhancer factor 2C [Source:HGNC Symbol;Acc:6996]
344	ENSG00000162739	1102.186491	2.514051976	0.125324091	8.91E-88	SLAMF6	SLAM family member 6 [Source:HGNC Symbol;Acc:21392]
345	ENSG00000215788	640.4795383	3.224418767	0.161071163	2.06E-87	TNFRSF25	tumor necrosis factor receptor superfamily, member 25 [Source:HGNC Symbol;Acc:11910]
346	ENSG00000075624	223039.0368	-0.877333432	0.043834062	2.21E-87	ACTB	actin, beta [Source:HGNC Symbol;Acc:132]
347	ENSG00000135046	14375.22779	-1.008010242	0.05039952	2.95E-87	ANXA1	annexin A1 [Source:HGNC Symbol;Acc:533]
348	ENSG00000170801	754.9287285	-2.609714395	0.13059932	4.20E-87	HTRA3	Htra serine peptidase 3 [Source:HGNC Symbol;Acc:30406]
349	ENSG00000116260	3991.597624	-1.52190287	0.076227161	5.91E-87	QSOX1	quiescin Q6 sulfhydryl oxidase 1 [Source:HGNC Symbol;Acc:9756]
350	ENSG00000110042	1456.535794	-1.828371538	0.091680012	9.22E-87	DTX4	deltex homolog 4 (Drosophila) [Source:HGNC Symbol;Acc:29151]
351	ENSG00000206240	803.3164424	2.503837157	0.125641608	1.23E-86	HLA-DRB1	major histocompatibility complex, class II, DR beta 1 [Source:HGNC Symbol;Acc:4948]
352	ENSG00000206306	803.1273502	2.503315342	0.125658276	1.41E-86	HLA-DRB1	major histocompatibility complex, class II, DR beta 1 [Source:HGNC Symbol;Acc:4948]
353	ENSG00000188313	2494.717299	-1.648886567	0.083331929	2.04E-85	PLSCR1	phospholipid scramblase 1 [Source:HGNC Symbol;Acc:9092]
354	ENSG00000198034	10495.04208	1.115195046	0.056398551	2.66E-85	RPS4X	ribosomal protein S4, X-linked [Source:HGNC Symbol;Acc:10424]
355	ENSG00000182718	1896.623574	1.823331246	0.092228638	2.86E-85	ANXA2	annexin A2 [Source:HGNC Symbol;Acc:537]
356	ENSG00000182885	8817.652537	-1.136262495	0.057737906	1.69E-84	GPR97	G protein-coupled receptor 97 [Source:HGNC Symbol;Acc:13728]
357	ENSG00000108518	40279.53334	-0.869393695	0.044308281	5.31E-84	PFN1	profilin 1 [Source:HGNC Symbol;Acc:8881]
358	ENSG00000186205	2387.531215	-1.684395713	0.086008037	1.10E-83	MARC1	mitochondrial amidoxime reducing component 1 [Source:HGNC Symbol;Acc:26189]

359	ENSG00000185905	3903.870097	1.293004604	0.066098012	1.70E-83	C16orf54	chromosome 16 open reading frame 54 [Source:HGNC Symbol;Acc:26649]
360	ENSG00000143797	3403.525742	-1.466837581	0.075124617	3.47E-83	MBOAT2	membrane bound O-acyltransferase domain containing 2 [Source:HGNC Symbol;Acc:25193]
361	ENSG00000142676	14647.94637	0.932767519	0.047815088	4.89E-83	RPL11	ribosomal protein L11 [Source:HGNC Symbol;Acc:10301]
362	ENSG00000143847	1576.520224	-1.749676755	0.089971017	1.59E-82	PPFIA4	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 4 [Source:HGNC Symbol;Acc:9248]
363	ENSG00000258227	1114.074184	-2.143809369	0.110369994	2.50E-82	CLEC5A	C-type lectin domain family 5, member A [Source:HGNC Symbol;Acc:2054]
364	ENSG00000261180	1113.999682	-2.143339545	0.110415086	3.16E-82	CLEC5A	C-type lectin domain family 5, member A [Source:HGNC Symbol;Acc:2054]
365	ENSG00000166441	12546.8517	0.909546548	0.046888155	4.10E-82	RPL27A	ribosomal protein L27a [Source:HGNC Symbol;Acc:10329]
366	ENSG00000118922	1069.383808	2.524238253	0.130142636	4.27E-82	KLF12	Kruppel-like factor 12 [Source:HGNC Symbol;Acc:6346]
367	ENSG00000149269	8290.058921	-1.062429896	0.054793452	4.81E-82	PAK1	p21 protein (Cdc42/Rac)-activated kinase 1 [Source:HGNC Symbol;Acc:8590]
368	ENSG00000118523	342.5628385	5.962654713	0.308420485	1.44E-81	CTGF	connective tissue growth factor [Source:HGNC Symbol;Acc:2500]
369	ENSG00000173200	2114.52371	1.661509158	0.086051175	2.32E-81	PARP15	poly (ADP-ribose) polymerase family, member 15 [Source:HGNC Symbol;Acc:26876]
370	ENSG00000028137	9967.310737	1.180995474	0.061277739	4.59E-81	TNFRSF1B	tumor necrosis factor receptor superfamily, member 1B [Source:HGNC Symbol;Acc:11917]
371	ENSG00000124181	1546.521992	1.89664749	0.098424651	4.83E-81	PLCG1	phospholipase C, gamma 1 [Source:HGNC Symbol;Acc:9065]
372	ENSG00000178904	2234.20161	-1.574303401	0.081724635	5.47E-81	DPY19L3	dpy-19-like 3 (C. elegans) [Source:HGNC Symbol;Acc:27120]
373	ENSG00000110448	804.9060986	2.708148123	0.140706075	7.53E-81	CD5	CD5 molecule [Source:HGNC Symbol;Acc:1685]
374	ENSG00000111052	2086.473275	-1.659655595	0.086270425	8.93E-81	LIN7A	lin-7 homolog A (C. elegans) [Source:HGNC Symbol;Acc:17787]
375	ENSG00000198168	2686.451175	-1.60960143	0.083833766	1.85E-80	SVIP	small VCP/p97-interacting protein [Source:HGNC Symbol;Acc:25238]
376	ENSG00000128284	1090.666228	2.147742935	0.112177285	5.20E-80	APOL3	apolipoprotein L, 3 [Source:HGNC Symbol;Acc:14868]
377	ENSG00000027075	1683.038912	1.867144824	0.09759834	6.93E-80	PRKCH	protein kinase C, eta [Source:HGNC Symbol;Acc:9403]
378	ENSG00000136717	731.1860342	3.140124062	0.164241641	8.70E-80	BIN1	bridging integrator 1 [Source:HGNC Symbol;Acc:1052]
379	ENSG00000082512	1036.05237	2.318359529	0.121264486	8.80E-80	TRAF5	TNF receptor-associated factor 5 [Source:HGNC Symbol;Acc:12035]
380	ENSG00000188536	80142.31924	4.724631379	0.247386471	1.29E-79	HBA2	hemoglobin, alpha 2 [Source:HGNC Symbol;Acc:4824]
381	ENSG00000006459	5908.530435	-1.218679756	0.063813113	1.30E-79	KDM7A	lysine (K)-specific demethylase 7A [Source:HGNC Symbol;Acc:22224]
382	ENSG00000123240	1043.455229	2.198181132	0.115103185	1.30E-79	OPTN	optineurin [Source:HGNC Symbol;Acc:17142]
383	ENSG00000183323	2491.898706	-1.429594935	0.074870608	1.38E-79	CCDC125	coiled-coil domain containing 125 [Source:HGNC Symbol;Acc:28924]
384	ENSG00000104812	2307.842525	-1.561719045	0.081956376	2.88E-79	GYS1	glycogen synthase 1 (muscle) [Source:HGNC Symbol;Acc:4706]
385	ENSG00000096433	1088.848497	2.456738862	0.129069043	4.31E-79	ITPR3	inositol 1,4,5-trisphosphate receptor, type 3 [Source:HGNC Symbol;Acc:6182]
386	ENSG00000042493	3447.115987	-1.495521587	0.078670946	6.86E-79	CAPG	capping protein (actin filament), gelsolin-like [Source:HGNC Symbol;Acc:1474]

387	ENSG00000155307	1398.534832	-1.814198883	0.095439215	6.95E-79	SAMSN1	SAM domain, SH3 domain and nuclear localization signals 1 [Source:HGNC Symbol;Acc:10528]
388	ENSG00000115271	16609.54752	-0.978579516	0.051517327	9.02E-79	GCA	grancalcin, EF-hand calcium binding protein [Source:HGNC Symbol;Acc:15990]
389	ENSG00000111913	17419.43668	1.015636054	0.053490599	1.05E-78	FAM65B	family with sequence similarity 65, member B [Source:HGNC Symbol;Acc:13872]
390	ENSG00000166527	1345.765325	-1.788768317	0.094283995	1.39E-78	CLEC4D	C-type lectin domain family 4, member D [Source:HGNC Symbol;Acc:14554]
391	ENSG00000133063	1746.131736	-1.67854436	0.088566303	2.02E-78	CHIT1	chitinase 1 (chitotriosidase) [Source:HGNC Symbol;Acc:1936]
392	ENSG00000000938	26618.98966	-0.836290122	0.04416922	2.87E-78	FGR	feline Gardner-Rasheed sarcoma viral oncogene homolog [Source:HGNC Symbol;Acc:3697]
393	ENSG00000128271	1034.182076	-2.431393417	0.128662826	5.70E-78	ADORA2A	adenosine A2a receptor [Source:HGNC Symbol;Acc:263]
394	ENSG00000161638	5540.300566	1.179479818	0.062558465	1.29E-77	ITGA5	integrin, alpha 5 (fibronectin receptor, alpha polypeptide) [Source:HGNC Symbol;Acc:6141]
395	ENSG00000133318	13086.17148	-0.930260661	0.049361521	1.51E-77	RTN3	reticulon 3 [Source:HGNC Symbol;Acc:10469]
396	ENSG00000262552	7179.790531	-1.116366116	0.059242095	1.55E-77	ALOX5	arachidonate 5-lipoxygenase [Source:HGNC Symbol;Acc:435]
397	ENSG00000085719	5385.286798	-1.383713457	0.073472209	1.90E-77	CPNE3	copine III [Source:HGNC Symbol;Acc:2316]
398	ENSG00000157828	328.3097482	5.393614156	0.286686909	2.75E-77	RPS4Y2	ribosomal protein S4, Y-linked 2 [Source:HGNC Symbol;Acc:18501]
399	ENSG00000228299	70805.40213	0.938301792	0.049883462	2.94E-77	HLA-C	major histocompatibility complex, class I, C [Source:HGNC Symbol;Acc:4933]
400	ENSG00000134243	3042.079902	-1.306647227	0.069636653	6.99E-77	SORT1	sortilin 1 [Source:HGNC Symbol;Acc:11186]
401	ENSG00000008988	9848.60048	0.953152888	0.050821868	8.26E-77	RPS20	ribosomal protein S20 [Source:HGNC Symbol;Acc:10405]
402	ENSG00000101347	3634.407083	1.290650044	0.068850759	9.79E-77	SAMHD1	SAM domain and HD domain 1 [Source:HGNC Symbol;Acc:15925]
403	ENSG00000115828	4144.014705	-1.377803548	0.073515567	1.05E-76	QPCT	glutaminyl-peptide cyclotransferase [Source:HGNC Symbol;Acc:9753]
404	ENSG00000143815	10051.92872	-1.00962833	0.053940534	1.65E-76	LBR	lamin B receptor [Source:HGNC Symbol;Acc:6518]
405	ENSG00000198176	2360.158589	-1.460556759	0.07808391	2.08E-76	TFDP1	transcription factor Dp-1 [Source:HGNC Symbol;Acc:11749]
406	ENSG00000150045	580.0003853	3.222398374	0.172430152	2.85E-76	KLRF1	killer cell lectin-like receptor subfamily F, member 1 [Source:HGNC Symbol;Acc:13342]
407	ENSG00000067082	19853.65594	-0.847969636	0.045405692	3.61E-76	KLF6	Kruppel-like factor 6 [Source:HGNC Symbol;Acc:2235]
408	ENSG00000151689	969.6353221	-2.092913689	0.112093849	3.90E-76	INPP1	inositol polyphosphate-1-phosphatase [Source:HGNC Symbol;Acc:6071]
409	ENSG00000267878	973.7599251	2.297044423	0.123061785	4.30E-76	PIM2	pim-2 oncogene [Source:HGNC Symbol;Acc:8987]
410	ENSG00000214212	2848.790965	-1.375764781	0.073764495	5.68E-76	C19orf38	chromosome 19 open reading frame 38 [Source:HGNC Symbol;Acc:34073]
411	ENSG00000163393	1890.681972	-1.574816594	0.08446747	6.43E-76	SLC22A15	solute carrier family 22, member 15 [Source:HGNC Symbol;Acc:20301]
412	ENSG00000174444	20629.36302	0.837647151	0.044933076	6.65E-76	RPL4	ribosomal protein L4 [Source:HGNC Symbol;Acc:10353]
413	ENSG00000102096	973.558052	2.297466849	0.123243842	6.69E-76	PIM2	pim-2 oncogene [Source:HGNC Symbol;Acc:8987]
414	ENSG00000113140	602.893046	2.74718147	0.147395668	7.12E-76	SPARC	secreted protein, acidic, cysteine-rich (osteonectin) [Source:HGNC Symbol;Acc:11219]

415	ENSG00000065618	1512.462493	-1.937499422	0.104047792	9.75E-76	COL17A1	collagen, type XVII, alpha 1 [Source:HGNC Symbol;Acc:2194]
416	ENSG00000172116	613.2409235	2.844006147	0.152978469	1.71E-75	CD8B	CD8b molecule [Source:HGNC Symbol;Acc:1707]
417	ENSG00000013725	1440.213119	1.968615162	0.106135801	3.79E-75	CD6	CD6 molecule [Source:HGNC Symbol;Acc:1691]
418	ENSG00000157303	1985.222333	-1.698980676	0.091740875	6.46E-75	SUSD3	sushi domain containing 3 [Source:HGNC Symbol;Acc:28391]
419	ENSG00000145425	23200.57758	0.956864189	0.051671045	6.56E-75	RPS3A	ribosomal protein S3A [Source:HGNC Symbol;Acc:10421]
420	ENSG00000133321	751.5625382	2.604821536	0.140735422	7.84E-75	RARRES3	retinoic acid receptor responder (tazarotene induced) 3 [Source:HGNC Symbol;Acc:9869]
421	ENSG00000180096	972.4672216	2.27993073	0.123183527	7.85E-75	SEPT1	septin 1 [Source:HGNC Symbol;Acc:2879]
422	ENSG00000223980	26559.96928	0.927905043	0.050194506	1.18E-74	HLA-A	major histocompatibility complex, class I, A [Source:HGNC Symbol;Acc:4931]
423	ENSG00000254838	1691.302462	1.711973282	0.092750571	2.00E-74	GVINP1	GTPase, very large interferon inducible pseudogene 1 [Source:HGNC Symbol;Acc:25813]
424	ENSG00000188897	1329.104843	2.229876919	0.121080997	4.28E-74	CTD-3088G3.8	Protein LOC388210 [Source:UniProtKB/TrEMBL;Acc:13L099]
425	ENSG00000119922	2159.93259	1.639670196	0.089084629	5.20E-74	IFIT2	interferon-induced protein with tetratricopeptide repeats 2 [Source:HGNC Symbol;Acc:5409]
426	ENSG00000108298	14549.33148	1.179745577	0.064116028	5.75E-74	RPL19	ribosomal protein L19 [Source:HGNC Symbol;Acc:10312]
427	ENSG00000072818	7325.180228	-0.987691525	0.053694493	6.35E-74	ACAP1	ArfGAP with coiled-coil, ankyrin repeat and PH domains 1 [Source:HGNC Symbol;Acc:16467]
428	ENSG00000134954	7658.500417	1.0676352	0.058053602	6.84E-74	ETS1	v-ets avian erythroblastosis virus E26 oncogene homolog 1 [Source:HGNC Symbol;Acc:3488]
429	ENSG00000128016	10535.20695	-1.153331507	0.062884014	1.71E-73	ZFP36	ZFP36 ring finger protein [Source:HGNC Symbol;Acc:12862]
430	ENSG00000175928	479.9294243	-2.976996209	0.162349584	1.83E-73	LRRN1	leucine rich repeat neuronal 1 [Source:HGNC Symbol;Acc:20980]
431	ENSG00000186652	287.8347216	-4.473126352	0.244556913	4.26E-73	PRG2	proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein) [Source:HGNC Symbol;Acc:9362]
432	ENSG00000166349	454.4772237	3.462584801	0.189404804	5.04E-73	RAG1	recombination activating gene 1 [Source:HGNC Symbol;Acc:9831]
433	ENSG00000197601	5899.278094	-1.121309276	0.061337131	5.06E-73	FAR1	fatty acyl CoA reductase 1 [Source:HGNC Symbol;Acc:26222]
434	ENSG00000164054	4011.367951	1.387386574	0.075921785	5.76E-73	SHISA5	shisa family member 5 [Source:HGNC Symbol;Acc:30376]
435	ENSG00000122224	789.9931627	2.455030107	0.134500548	8.44E-73	LY9	lymphocyte antigen 9 [Source:HGNC Symbol;Acc:6730]
436	ENSG00000117091	3234.021992	1.303310969	0.071413643	8.85E-73	CD48	CD48 molecule [Source:HGNC Symbol;Acc:1683]
437	ENSG00000196189	5043.281195	-1.118874404	0.061315694	9.23E-73	SEMA4A	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A [Source:HGNC Symbol;Acc:10729]
438	ENSG00000105372	3752.683255	1.268503345	0.0695415	1.04E-72	RPS19	ribosomal protein S19 [Source:HGNC Symbol;Acc:10402]
439	ENSG00000127528	3988.397881	1.577898091	0.086553483	1.26E-72	KLF2	Kruppel-like factor 2 [Source:HGNC Symbol;Acc:6347]
440	ENSG00000012779	7901.33109	-1.081913031	0.059349066	1.28E-72	ALOX5	arachidonate 5-lipoxygenase [Source:HGNC Symbol;Acc:435]
441	ENSG00000142937	12898.08845	0.937567475	0.051464969	1.59E-72	RPS8	ribosomal protein S8 [Source:HGNC Symbol;Acc:10441]
442	ENSG00000140379	3350.896571	-1.262770072	0.069332366	1.71E-72	BCL2A1	BCL2-related protein A1 [Source:HGNC Symbol;Acc:991]

443	ENSG00000262806	814.2112333	-2.418345018	0.133099219	3.80E-72	FCAR	Fc fragment of IgA, receptor for [Source:HGNC Symbol;Acc:3608]
444	ENSG00000272852	3714.011481	1.269526633	0.069881795	3.99E-72	RPS19	ribosomal protein S19 [Source:HGNC Symbol;Acc:10402]
445	ENSG00000113916	19651.80121	-0.790574339	0.043527133	4.28E-72	BCL6	B-cell CLL/lymphoma 6 [Source:HGNC Symbol;Acc:1001]
446	ENSG00000066027	6278.710909	-1.077574187	0.059335161	4.43E-72	PPP2R5A	protein phosphatase 2, regulatory subunit B', alpha [Source:HGNC Symbol;Acc:9309]
447	ENSG00000101445	737.4523122	2.490320796	0.137572102	1.29E-71	PPP1R16B	protein phosphatase 1, regulatory subunit 16B [Source:HGNC Symbol;Acc:15850]
448	ENSG00000124614	7127.017934	1.128873335	0.062414174	1.69E-71	RPS10	ribosomal protein S10 [Source:HGNC Symbol;Acc:10383]
449	ENSG00000055163	8709.242912	-0.95170425	0.052659619	2.18E-71	CYFIP2	cytoplasmic FMR1 interacting protein 2 [Source:HGNC Symbol;Acc:13760]
450	ENSG00000023445	1509.308809	1.909148411	0.105735343	2.95E-71	BIRC3	baculoviral IAP repeat containing 3 [Source:HGNC Symbol;Acc:591]
451	ENSG00000187109	4784.945666	1.168278122	0.064729163	3.35E-71	NAP1L1	nucleosome assembly protein 1-like 1 [Source:HGNC Symbol;Acc:7637]
452	ENSG00000167815	982.7148542	-1.979872913	0.109993351	8.08E-71	PRDX2	peroxiredoxin 2 [Source:HGNC Symbol;Acc:9353]
453	ENSG00000108984	556.6083601	-2.585064297	0.143726306	1.04E-70	MAP2K6	mitogen-activated protein kinase kinase 6 [Source:HGNC Symbol;Acc:6846]
454	ENSG00000123700	696.0937488	2.849038362	0.158479664	1.21E-70	KCNJ2	potassium inwardly-rectifying channel, subfamily J, member 2 [Source:HGNC Symbol;Acc:6263]
455	ENSG00000101084	4366.912107	-1.18707907	0.06607522	1.49E-70	C20orf24	chromosome 20 open reading frame 24 [Source:HGNC Symbol;Acc:15870]
456	ENSG00000101162	588.8467152	2.942332061	0.164011938	2.36E-70	TUBB1	tubulin, beta 1 class VI [Source:HGNC Symbol;Acc:16257]
457	ENSG00000010610	1626.782764	1.679833873	0.093637687	2.36E-70	CD4	CD4 molecule [Source:HGNC Symbol;Acc:1678]
458	ENSG00000268779	1626.642457	1.677793744	0.093605891	3.13E-70	CD4	CD4 molecule [Source:HGNC Symbol;Acc:1678]
459	ENSG00000158869	6867.310104	-1.065428186	0.059456824	3.40E-70	FCER1G	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide [Source:HGNC Symbol;Acc:3611]
460	ENSG00000138246	2742.160497	-1.378197764	0.077086529	7.05E-70	DNAJC13	DnaJ (Hsp40) homolog, subfamily C, member 13 [Source:HGNC Symbol;Acc:30343]
461	ENSG00000251322	290.625187	4.717795765	0.264217372	1.06E-69	SHANK3	SH3 and multiple ankyrin repeat domains 3 [Source:HGNC Symbol;Acc:14294]
462	ENSG00000181104	633.5481916	2.723757076	0.152837452	1.96E-69	F2R	coagulation factor II (thrombin) receptor [Source:HGNC Symbol;Acc:3537]
463	ENSG00000183696	2048.624802	-1.510135886	0.084838718	2.85E-69	UPP1	uridine phosphorylase 1 [Source:HGNC Symbol;Acc:12576]
464	ENSG00000102007	3064.187765	-1.238742571	0.069651752	3.74E-69	PLP2	proteolipid protein 2 (colonic epithelium-enriched) [Source:HGNC Symbol;Acc:9087]
465	ENSG00000123416	9438.624153	-0.871888494	0.049049713	4.40E-69	TUBA1B	tubulin, alpha 1b [Source:HGNC Symbol;Acc:18809]
466	ENSG00000163545	2008.565083	1.59638784	0.089812526	4.46E-69	NUAK2	NUAK family, SNF1-like kinase, 2 [Source:HGNC Symbol;Acc:29558]
467	ENSG00000269034	3063.926067	-1.238102176	0.069668699	4.73E-69	PLP2	proteolipid protein 2 (colonic epithelium-enriched) [Source:HGNC Symbol;Acc:9087]
468	ENSG00000178075	647.9086754	3.301109886	0.186110318	8.63E-69	GRAMD1C	GRAM domain containing 1C [Source:HGNC Symbol;Acc:25252]
469	ENSG00000197852	4713.386103	1.252898647	0.070668405	9.95E-69	FAM212B	family with sequence similarity 212, member B [Source:HGNC Symbol;Acc:28045]
470	ENSG00000022267	360.7742619	3.49204504	0.197052277	1.14E-68	FHL1	four and a half LIM domains 1 [Source:HGNC Symbol;Acc:3702]

471	ENSG00000148773	2013.903067	-2.063355355	0.116548857	1.56E-68	MKI67	marker of proliferation Ki-67 [Source:HGNC Symbol;Acc:7107]
472	ENSG00000196358	2062.971028	-1.892678742	0.107038386	2.28E-68	NTNG2	netrin G2 [Source:HGNC Symbol;Acc:14288]
473	ENSG00000104687	2167.018423	-1.404528877	0.079442057	2.37E-68	GSR	glutathione reductase [Source:HGNC Symbol;Acc:4623]
474	ENSG00000100219	2384.112241	1.408163634	0.07965506	2.43E-68	XBP1	X-box binding protein 1 [Source:HGNC Symbol;Acc:12801]
475	ENSG00000163947	1226.031409	1.844663524	0.10443475	3.17E-68	ARHGGEF3	Rho guanine nucleotide exchange factor (GEF) 3 [Source:HGNC Symbol;Acc:683]
476	ENSG0000013306	1840.227196	1.826698957	0.103423283	3.21E-68	SLC25A39	solute carrier family 25, member 39 [Source:HGNC Symbol;Acc:24279]
477	ENSG00000129277	554.0237611	3.214075279	0.182250323	5.16E-68	CCL4	chemokine (C-C motif) ligand 4 [Source:HGNC Symbol;Acc:10630]
478	ENSG00000197632	291.2356668	-4.150374502	0.235419525	5.71E-68	SERPINB2	serpin peptidase inhibitor, clade B (ovalbumin), member 2 [Source:HGNC Symbol;Acc:8584]
479	ENSG00000106003	883.5112395	2.485677809	0.141121124	7.54E-68	LFNG	LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:HGNC Symbol;Acc:6560]
480	ENSG00000160271	1314.528029	2.082654773	0.118406719	1.17E-67	RALGDS	ral guanine nucleotide dissociation stimulator [Source:HGNC Symbol;Acc:9842]
481	ENSG00000111335	1082.032405	1.954247569	0.111115897	1.20E-67	OAS2	2'-5'-oligoadenylate synthetase 2, 69/71kDa [Source:HGNC Symbol;Acc:8087]
482	ENSG00000171863	9484.645796	0.917114672	0.052223047	1.89E-67	RPS7	ribosomal protein S7 [Source:HGNC Symbol;Acc:10440]
483	ENSG00000112053	1060.623421	-2.037825146	0.116138764	2.45E-67	SLC26A8	solute carrier family 26 (anion exchanger), member 8 [Source:HGNC Symbol;Acc:14468]
484	ENSG00000156738	1570.710665	1.705639326	0.097347951	3.83E-67	MS4A1	membrane-spanning 4-domains, subfamily A, member 1 [Source:HGNC Symbol;Acc:7315]
485	ENSG00000124588	2543.575848	-1.338462089	0.076403752	4.01E-67	NQO2	NAD(P)H dehydrogenase, quinone 2 [Source:HGNC Symbol;Acc:7856]
486	ENSG00000063177	5747.353904	1.133360113	0.064735663	4.84E-67	RPL18	ribosomal protein L18 [Source:HGNC Symbol;Acc:10310]
487	ENSG00000143878	8160.827852	0.915921894	0.052339924	5.56E-67	RHOB	ras homolog family member B [Source:HGNC Symbol;Acc:668]
488	ENSG00000134905	2653.265514	-1.252538513	0.071645342	7.47E-67	CARS2	cysteinyl-tRNA synthetase 2, mitochondrial (putative) [Source:HGNC Symbol;Acc:25695]
489	ENSG00000179869	4080.91304	-1.411443222	0.080773931	8.65E-67	ABCA13	ATP-binding cassette, sub-family A (ABC1), member 13 [Source:HGNC Symbol;Acc:14638]
490	ENSG00000107281	319.7520482	4.598402274	0.263779239	1.78E-66	NPDC1	neural proliferation, differentiation and control, 1 [Source:HGNC Symbol;Acc:7899]
491	ENSG00000072110	11369.55494	-0.934031586	0.053586056	1.85E-66	ACTN1	actinin, alpha 1 [Source:HGNC Symbol;Acc:163]
492	ENSG00000109475	7865.401513	1.023689324	0.058736058	1.90E-66	RPL34	ribosomal protein L34 [Source:HGNC Symbol;Acc:10340]
493	ENSG00000143226	14972.03099	0.896873364	0.051640752	5.52E-66	FCGR2A	Fc fragment of IgG, low affinity IIa, receptor (CD32) [Source:HGNC Symbol;Acc:3616]
494	ENSG00000101096	1034.205866	2.311023222	0.133079269	5.68E-66	NFATC2	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 [Source:HGNC Symbol;Acc:7776]
495	ENSG00000136867	821.3128353	2.406283101	0.138869858	1.10E-65	SLC31A2	solute carrier family 31 (copper transporter), member 2 [Source:HGNC Symbol;Acc:11017]
496	ENSG00000206172	41928.33699	3.703434333	0.213798138	1.21E-65	HBA1	hemoglobin, alpha 1 [Source:HGNC Symbol;Acc:4823]
497	ENSG00000133317	904.9845538	-2.071616572	0.119623256	1.30E-65	LGALS12	lectin, galactoside-binding, soluble, 12 [Source:HGNC Symbol;Acc:15788]
498	ENSG00000169508	583.8183344	2.898048874	0.167643224	2.21E-65	GPR183	G protein-coupled receptor 183 [Source:HGNC Symbol;Acc:3128]



499	ENSG00000134242	3111.51415	-1.386363684	0.080295681	3.20E-65	PTPN22	protein tyrosine phosphatase, non-receptor type 22 (lymphoid) [Source:HGNC Symbol;Acc:9652]
500	ENSG00000117724	716.8358121	-2.332334378	0.135137999	3.59E-65	CENPF	centromere protein F, 350/400kDa [Source:HGNC Symbol;Acc:1857]
501	ENSG00000025039	1692.778924	-1.604255831	0.093063892	5.12E-65	RRAGD	Ras-related GTP binding D [Source:HGNC Symbol;Acc:19903]
502	ENSG00000131747	907.8610765	-2.57975597	0.14988693	8.14E-65	TOP2A	topoisomerase (DNA) II alpha 170kDa [Source:HGNC Symbol;Acc:11989]
503	ENSG00000083845	4442.712276	1.282235441	0.074539105	9.51E-65	RPS5	ribosomal protein S5 [Source:HGNC Symbol;Acc:10426]
504	ENSG00000220842	10931.39535	0.914382316	0.053170391	1.03E-64	RP11-572P18.1	
505	ENSG00000138678	1618.946424	-1.671039149	0.097287463	1.48E-64	AGPAT9	1-acylglycerol-3-phosphate O-acyltransferase 9 [Source:HGNC Symbol;Acc:28157]
506	ENSG00000213402	676.3161716	2.878439865	0.167658987	1.69E-64	PTPRCAP	protein tyrosine phosphatase, receptor type, C-associated protein [Source:HGNC Symbol;Acc:9667]
507	ENSG00000148180	8434.510783	-1.21182081	0.070633929	2.08E-64	GSN	gelsolin [Source:HGNC Symbol;Acc:4620]
508	ENSG00000120265	2541.817736	-1.253854038	0.073229946	3.74E-64	PCMT1	protein-L-isoaspartate (D-aspartate) O-methyltransferase [Source:HGNC Symbol;Acc:8728]
509	ENSG00000100330	7134.796463	-1.120840237	0.06547765	4.01E-64	MTMR3	myotubularin related protein 3 [Source:HGNC Symbol;Acc:7451]
510	ENSG00000188933	2522.680681	-1.313337756	0.076761707	4.64E-64	USP32P1	ubiquitin specific peptidase 32 pseudogene 1 [Source:HGNC Symbol;Acc:43570]
511	ENSG00000174718	14788.5989	0.922175046	0.053934463	5.62E-64	KIAA1551	KIAA1551 [Source:HGNC Symbol;Acc:25559]
512	ENSG00000121064	2672.846123	-1.245919424	0.072891183	6.13E-64	SCPEP1	serine carboxypeptidase 1 [Source:HGNC Symbol;Acc:29507]
513	ENSG00000160856	1194.461284	2.170491748	0.127157462	9.16E-64	FCRL3	Fc receptor-like 3 [Source:HGNC Symbol;Acc:18506]
514	ENSG00000121552	3920.901312	-1.139105774	0.066762002	1.03E-63	CSTA	cystatin A (stefin A) [Source:HGNC Symbol;Acc:2481]
515	ENSG00000100351	726.0364915	2.538991293	0.148830501	1.08E-63	GRAP2	GRB2-related adaptor protein 2 [Source:HGNC Symbol;Acc:4563]
516	ENSG00000089902	3650.528712	-1.207956815	0.070830184	1.18E-63	RCOR1	REST corepressor 1 [Source:HGNC Symbol;Acc:17441]
517	ENSG00000127951	11916.57353	0.98089439	0.057523335	1.22E-63	FGL2	fibrinogen-like 2 [Source:HGNC Symbol;Acc:3696]
518	ENSG00000185909	693.9340982	2.623545208	0.153864241	1.24E-63	KLHDC8B	kelch domain containing 8B [Source:HGNC Symbol;Acc:28557]
519	ENSG00000148175	7435.769338	-0.889272181	0.05218004	1.44E-63	STOM	stomatin [Source:HGNC Symbol;Acc:3383]
520	ENSG00000167996	47828.62427	0.791682817	0.046460439	1.49E-63	FTH1	ferritin, heavy polypeptide 1 [Source:HGNC Symbol;Acc:3976]
521	ENSG00000082212	2412.785864	-1.384770024	0.081383621	2.27E-63	ME2	malic enzyme 2, NAD(+)-dependent, mitochondrial [Source:HGNC Symbol;Acc:6984]
522	ENSG00000163682	9863.242731	0.954725095	0.056159652	2.93E-63	RPL9	ribosomal protein L9 [Source:HGNC Symbol;Acc:10369]
523	ENSG00000255587	1104.312268	-2.028286765	0.11939624	3.61E-63	RAB44	RAB44, member RAS oncogene family [Source:HGNC Symbol;Acc:21068]
524	ENSG00000186468	11039.64958	0.90969057	0.053578736	4.23E-63	RPS23	ribosomal protein S23 [Source:HGNC Symbol;Acc:10410]
525	ENSG00000143119	9856.467363	0.927830867	0.054663494	4.60E-63	CD53	CD53 molecule [Source:HGNC Symbol;Acc:1686]
526	ENSG00000138293	9000.304975	1.016064246	0.059864287	4.65E-63	NCOA4	nuclear receptor coactivator 4 [Source:HGNC Symbol;Acc:7671]

527	ENSG00000137804	797.3557449	-2.1283413	0.125405512	4.73E-63	NUSAP1	nucleolar and spindle associated protein 1 [Source:HGNC Symbol;Acc:18538]
528	ENSG00000266412	9000.394989	1.016006596	0.059894674	5.45E-63	NCOA4	nuclear receptor coactivator 4 [Source:HGNC Symbol;Acc:7671]
529	ENSG00000162909	2249.087598	1.533435973	0.090456724	6.56E-63	CAPN2	calpain 2, (m/II) large subunit [Source:HGNC Symbol;Acc:1479]
530	ENSG00000273482	4867.939877	-0.993487206	0.058645226	7.97E-63	PRKCD	protein kinase C, delta [Source:HGNC Symbol;Acc:9399]
531	ENSG00000135709	4294.386105	-1.282305572	0.075708505	8.40E-63	KIAA0513	KIAA0513 [Source:HGNC Symbol;Acc:29058]
532	ENSG00000163932	4867.854998	-0.992794542	0.058661747	1.05E-62	PRKCD	protein kinase C, delta [Source:HGNC Symbol;Acc:9399]
533	ENSG00000168028	11095.20373	0.85389185	0.050461074	1.09E-62	RPSA	ribosomal protein SA [Source:HGNC Symbol;Acc:6502]
534	ENSG00000178726	523.6434406	3.374643369	0.199466193	1.15E-62	THBD	thrombomodulin [Source:HGNC Symbol;Acc:11784]
535	ENSG00000145287	3999.716158	-1.073201044	0.063531762	1.79E-62	PLAC8	placenta-specific 8 [Source:HGNC Symbol;Acc:19254]
536	ENSG00000177600	7645.574296	1.006336057	0.059636136	2.42E-62	RPLP2	ribosomal protein, large, P2 [Source:HGNC Symbol;Acc:10377]
537	ENSG00000186854	812.3878814	2.321581601	0.137769762	3.58E-62	TRABD2A	TraB domain containing 2A [Source:HGNC Symbol;Acc:27013]
538	ENSG00000236693	407.989256	3.123954567	0.185527594	4.45E-62	HLA-DPB1	major histocompatibility complex, class II, DP beta 1 [Source:HGNC Symbol;Acc:4940]
539	ENSG00000230763	407.5363521	3.121144107	0.185403638	4.75E-62	HLA-DPB1	major histocompatibility complex, class II, DP beta 1 [Source:HGNC Symbol;Acc:4940]
540	ENSG00000148110	3180.338429	-1.287293708	0.076517286	5.68E-62	HIATL1	hippocampus abundant transcript-like 1 [Source:HGNC Symbol;Acc:23376]
541	ENSG00000075651	853.5865508	-1.945241562	0.115736937	7.45E-62	PLD1	phospholipase D1, phosphatidylcholine-specific [Source:HGNC Symbol;Acc:9067]
542	ENSG00000088325	637.0671193	-2.266629588	0.134944072	8.89E-62	TPX2	TPX2, microtubule-associated [Source:HGNC Symbol;Acc:1249]
543	ENSG00000125740	1265.686181	-1.58346672	0.094423969	1.40E-61	FOSB	FBJ murine osteosarcoma viral oncogene homolog B [Source:HGNC Symbol;Acc:3797]
544	ENSG00000070540	2261.74377	-1.287160101	0.07677117	1.48E-61	WIPI1	WD repeat domain, phosphoinositide interacting 1 [Source:HGNC Symbol;Acc:25471]
545	ENSG00000135318	271.4196682	4.792538548	0.285934659	1.62E-61	NT5E	5'-nucleotidase, ecto (CD73) [Source:HGNC Symbol;Acc:8021]
546	ENSG00000068650	3355.455772	-1.352579825	0.080734169	1.83E-61	ATP11A	ATPase, class VI, type 11A [Source:HGNC Symbol;Acc:13552]
547	ENSG00000135929	1975.713085	1.531222901	0.091597237	3.38E-61	CYP27A1	cytochrome P450, family 27, subfamily A, polypeptide 1 [Source:HGNC Symbol;Acc:2605]
548	ENSG00000167434	769.8325838	-2.036114834	0.121807543	3.43E-61	CA4	carbonic anhydrase IV [Source:HGNC Symbol;Acc:1375]
549	ENSG00000255819	433.1078619	3.377969347	0.202540109	6.46E-61	KLRC4-KLRK1	KLRC4-KLRK1 readthrough [Source:HGNC Symbol;Acc:48357]
550	ENSG00000205413	2390.606252	1.383393395	0.082994406	7.56E-61	SAMD9	sterile alpha motif domain containing 9 [Source:HGNC Symbol;Acc:1348]
551	ENSG00000213918	2061.67176	-1.319064703	0.07916678	8.43E-61	DNASE1	deoxyribonuclease I [Source:HGNC Symbol;Acc:2956]
552	ENSG00000100055	6328.646081	1.284756534	0.077164178	1.03E-60	CYTH4	cytohesin 4 [Source:HGNC Symbol;Acc:9505]
553	ENSG00000163563	46816.8287	-0.751101245	0.04512788	1.14E-60	MNDA	myeloid cell nuclear differentiation antigen [Source:HGNC Symbol;Acc:7183]
554	ENSG00000137154	21370.90811	0.83131131	0.050020986	1.71E-60	RPS6	ribosomal protein S6 [Source:HGNC Symbol;Acc:10429]

555	ENSG00000006534	2311.605362	-1.312514244	0.079051854	2.23E-60	ALDH3B1	aldehyde dehydrogenase 3 family, member B1 [Source:HGNC Symbol;Acc:410]
556	ENSG00000162231	7961.424753	-0.979094502	0.058980874	2.34E-60	NXF1	nuclear RNA export factor 1 [Source:HGNC Symbol;Acc:8071]
557	ENSG00000225119	4153.381148	-1.154028426	0.06954016	2.54E-60	LINC00999	long intergenic non-protein coding RNA 999 [Source:HGNC Symbol;Acc:38537]
558	ENSG00000071082	9784.863892	0.939394572	0.056623381	2.75E-60	RPL31	ribosomal protein L31 [Source:HGNC Symbol;Acc:10334]
559	ENSG00000105193	7386.219289	1.11938072	0.067481562	2.85E-60	RPS16	ribosomal protein S16 [Source:HGNC Symbol;Acc:10396]
560	ENSG00000124731	3050.147969	1.317545102	0.07952176	3.94E-60	TREM1	triggering receptor expressed on myeloid cells 1 [Source:HGNC Symbol;Acc:17760]
561	ENSG00000072954	412.8568682	-2.806614828	0.169527442	4.87E-60	TMEM38A	transmembrane protein 38A [Source:HGNC Symbol;Acc:28462]
562	ENSG00000177054	1455.347968	-1.570454646	0.094980448	6.90E-60	ZDHC13	zinc finger, DHHC-type containing 13 [Source:HGNC Symbol;Acc:18413]
563	ENSG00000185697	984.7286972	1.998349043	0.120973475	8.92E-60	MYBL1	v-myb avian myeloblastosis viral oncogene homolog-like 1 [Source:HGNC Symbol;Acc:7547]
564	ENSG00000128335	2253.239835	1.356088627	0.08211464	9.56E-60	APOL2	apolipoprotein L, 2 [Source:HGNC Symbol;Acc:619]
565	ENSG00000122861	650.6514361	-2.1776087	0.131921135	1.08E-59	PLAU	plasminogen activator, urokinase [Source:HGNC Symbol;Acc:9052]
566	ENSG00000183856	753.9409232	-2.252494344	0.13656006	1.33E-59	IQGAP3	IQ motif containing GTPase activating protein 3 [Source:HGNC Symbol;Acc:20669]
567	ENSG00000271019	2847.008367	1.37061008	0.083208673	1.93E-59	MBOAT7	membrane bound O-acyltransferase domain containing 7 [Source:HGNC Symbol;Acc:15505]
568	ENSG00000150687	729.638663	2.160415963	0.131352442	2.88E-59	PRSS23	protease, serine, 23 [Source:HGNC Symbol;Acc:14370]
569	ENSG00000056558	1139.384716	1.756997414	0.106923517	3.70E-59	TRAF1	TNF receptor-associated factor 1 [Source:HGNC Symbol;Acc:12031]
570	ENSG00000118181	4970.316895	1.053562295	0.064133642	3.98E-59	RPS25	ribosomal protein S25 [Source:HGNC Symbol;Acc:10413]
571	ENSG00000185989	2389.652148	1.37024575	0.083420043	4.09E-59	RASA3	RAS p21 protein activator 3 [Source:HGNC Symbol;Acc:20331]
572	ENSG00000163564	648.3808613	2.439601723	0.148577385	4.52E-59	PYHIN1	pyrin and HIN domain family, member 1 [Source:HGNC Symbol;Acc:28894]
573	ENSG00000113282	3381.836344	-1.094865948	0.066714253	5.19E-59	CLINT1	clathrin interactor 1 [Source:HGNC Symbol;Acc:23186]
574	ENSG00000089009	13127.82948	0.809182731	0.049356664	6.81E-59	RPL6	ribosomal protein L6 [Source:HGNC Symbol;Acc:10362]
575	ENSG00000173744	3441.838098	-1.196518208	0.072991799	7.04E-59	AGFG1	ArfGAP with FG repeats 1 [Source:HGNC Symbol;Acc:5175]
576	ENSG00000164587	9924.900873	0.91618496	0.05593658	8.78E-59	RPS14	ribosomal protein S14 [Source:HGNC Symbol;Acc:10387]
577	ENSG00000262088	4972.187339	1.054693345	0.064426621	1.01E-58	RPS25	ribosomal protein S25 [Source:HGNC Symbol;Acc:10413]
578	ENSG00000172757	25205.41952	-0.719009527	0.04392773	1.05E-58	CFL1	cofilin 1 (non-muscle) [Source:HGNC Symbol;Acc:1874]
579	ENSG00000140853	10036.02867	-0.834155717	0.051007724	1.33E-58	NLRCS	NLR family, CARD domain containing 5 [Source:HGNC Symbol;Acc:29933]
580	ENSG00000107372	4758.185117	-1.175547038	0.072002473	2.06E-58	ZFAND5	zinc finger, AN1-type domain 5 [Source:HGNC Symbol;Acc:13008]
581	ENSG00000204960	223.5769148	5.080508927	0.311309764	2.30E-58	BLACE	B-cell acute lymphoblastic leukemia expressed [Source:HGNC Symbol;Acc:20484]
582	ENSG00000198814	1616.868996	1.636303455	0.100433378	3.59E-58	GK	glycerol kinase [Source:HGNC Symbol;Acc:4289]

583	ENSG00000229117	19087.56055	0.876744096	0.053828491	3.87E-58	RPL41	ribosomal protein L41 [Source:HGNC Symbol;Acc:10354]
584	ENSG00000231500	3000.930544	1.110410976	0.068192383	4.14E-58	RPS18	ribosomal protein S18 [Source:HGNC Symbol;Acc:10401]
585	ENSG00000235650	3000.930113	1.110409422	0.068192354	4.14E-58	RPS18	ribosomal protein S18 [Source:HGNC Symbol;Acc:10401]
586	ENSG00000226225	3000.740659	1.11022202	0.068190909	4.29E-58	RPS18	ribosomal protein S18 [Source:HGNC Symbol;Acc:10401]
587	ENSG00000223367	3001.605332	1.109542613	0.068201407	5.26E-58	RPS18	ribosomal protein S18 [Source:HGNC Symbol;Acc:10401]
588	ENSG00000185477	938.7706773	1.955113155	0.120198269	5.50E-58	GPRIN3	GPRIN family member 3 [Source:HGNC Symbol;Acc:27733]
589	ENSG00000096150	2984.962827	1.109249918	0.068203251	5.66E-58	RPS18	ribosomal protein S18 [Source:HGNC Symbol;Acc:10401]
590	ENSG00000112335	3587.211631	-1.176694305	0.072402095	6.83E-58	SNX3	sorting nexin 3 [Source:HGNC Symbol;Acc:11174]
591	ENSG00000259858	3300.432004	-1.151586108	0.0708677	7.10E-58	MGAM	maltase-glucoamylase (alpha-glucosidase) [Source:HGNC Symbol;Acc:7043]
592	ENSG00000121742	246.8798856	-3.787651173	0.233191296	7.96E-58	GJB6	gap junction protein, beta 6, 30kDa [Source:HGNC Symbol;Acc:4288]
593	ENSG00000198146	2694.798806	-1.272221806	0.078353403	8.72E-58	ZNF770	zinc finger protein 770 [Source:HGNC Symbol;Acc:26061]
594	ENSG00000167173	2757.955077	1.485359503	0.091527591	9.98E-58	C15orf39	chromosome 15 open reading frame 39 [Source:HGNC Symbol;Acc:24497]
595	ENSG00000134460	299.2643595	3.903657651	0.241039754	1.72E-57	IL2RA	interleukin 2 receptor, alpha [Source:HGNC Symbol;Acc:6008]
596	ENSG00000179344	353.5600264	3.251085967	0.201302991	3.55E-57	HLA-DQB1	major histocompatibility complex, class II, DQ beta 1 [Source:HGNC Symbol;Acc:4944]
597	ENSG00000150782	816.4507278	-1.935070454	0.119937079	4.61E-57	IL18	interleukin 18 (interferon-gamma-inducing factor) [Source:HGNC Symbol;Acc:5986]
598	ENSG00000173559	5874.157741	0.954708133	0.059189673	4.94E-57	NABP1	nucleic acid binding protein 1 [Source:HGNC Symbol;Acc:26232]
599	ENSG00000104918	1569.386338	-1.595230849	0.098913903	5.11E-57	RETN	resistin [Source:HGNC Symbol;Acc:20389]
600	ENSG00000166971	1640.002229	-1.500831193	0.093066894	5.19E-57	AKTIP	AKT interacting protein [Source:HGNC Symbol;Acc:16710]
601	ENSG00000159674	579.3795351	3.070236557	0.190597028	6.92E-57	SPON2	spondin 2, extracellular matrix protein [Source:HGNC Symbol;Acc:11253]
602	ENSG00000013441	6339.326474	-0.879325498	0.054654385	9.50E-57	CLK1	CDC-like kinase 1 [Source:HGNC Symbol;Acc:2068]
603	ENSG00000060138	1448.880883	1.524951726	0.094794814	9.79E-57	YBX3	Y box binding protein 3 [Source:HGNC Symbol;Acc:2428]
604	ENSG00000035664	3468.842107	-1.108521365	0.068992933	1.34E-56	DAPK2	death-associated protein kinase 2 [Source:HGNC Symbol;Acc:2675]
605	ENSG00000161970	11317.50961	0.84244377	0.052547017	2.36E-56	RPL26	ribosomal protein L26 [Source:HGNC Symbol;Acc:10327]
606	ENSG00000221983	9688.444982	0.798355928	0.04981106	2.53E-56	UBA52	ubiquitin A-52 residue ribosomal protein fusion product 1 [Source:HGNC Symbol;Acc:12458]
607	ENSG00000188786	2111.651981	-1.288194577	0.08037605	2.55E-56	MTF1	metal-regulatory transcription factor 1 [Source:HGNC Symbol;Acc:7428]
608	ENSG00000174748	11844.9991	0.83614538	0.052218174	3.22E-56	RPL15	ribosomal protein L15 [Source:HGNC Symbol;Acc:10306]
609	ENSG00000133246	6649.062578	-1.276182458	0.079738306	3.64E-56	PRAM1	PML-RARA regulated adaptor molecule 1 [Source:HGNC Symbol;Acc:30091]
610	ENSG00000155099	2609.886196	-1.297491952	0.081175975	5.09E-56	TMEM55A	transmembrane protein 55A [Source:HGNC Symbol;Acc:25452]

611	ENSG00000166825	16891.78949	-0.759130215	0.047604476	9.21E-56	ANPEP	alanyl (membrane) aminopeptidase [Source:HGNC Symbol;Acc:500]
612	ENSG00000197622	22607.35012	0.757253107	0.047530266	1.16E-55	CDC42SE1	CDC42 small effector 1 [Source:HGNC Symbol;Acc:17719]
613	ENSG00000269830	516.3500682	2.999432411	0.188431563	1.45E-55	GPR162	G protein-coupled receptor 162 [Source:HGNC Symbol;Acc:16693]
614	ENSG00000105640	6840.119271	1.445242486	0.090802187	1.49E-55	RPL18A	ribosomal protein L18a [Source:HGNC Symbol;Acc:10311]
615	ENSG00000144040	1598.860076	-1.657946556	0.104230704	1.74E-55	SFXN5	sideroflexin 5 [Source:HGNC Symbol;Acc:16073]
616	ENSG00000142875	1344.736598	1.732306962	0.109164502	3.17E-55	PRKACB	protein kinase, cAMP-dependent, catalytic, beta [Source:HGNC Symbol;Acc:9381]
617	ENSG00000250510	516.7584935	2.978202083	0.187702453	3.27E-55	GPR162	G protein-coupled receptor 162 [Source:HGNC Symbol;Acc:16693]
618	ENSG00000203710	4847.761354	-1.037613291	0.065441051	3.89E-55	CR1	complement component (3b/4b) receptor 1 (Knops blood group) [Source:HGNC Symbol;Acc:2334]
619	ENSG00000184613	717.0448237	2.279837374	0.143801545	3.98E-55	NELL2	NEL-like 2 (chicken) [Source:HGNC Symbol;Acc:7751]
620	ENSG00000171988	3292.340022	1.150578499	0.072592685	4.26E-55	JMJD1C	jumonji domain containing 1C [Source:HGNC Symbol;Acc:12313]
621	ENSG00000100024	462.9612214	-2.78359373	0.175779734	5.32E-55	UPB1	ureidopropionase, beta [Source:HGNC Symbol;Acc:16297]
622	ENSG00000229698	2558.176915	1.309476761	0.082738982	6.14E-55	HLA-F	major histocompatibility complex, class I, F [Source:HGNC Symbol;Acc:4963]
623	ENSG00000171791	768.7415014	2.076735873	0.131357684	8.00E-55	BCL2	B-cell CLL/lymphoma 2 [Source:HGNC Symbol;Acc:990]
624	ENSG00000070495	1389.491235	-1.657164602	0.104835484	8.31E-55	JMJD6	jumonji domain containing 6 [Source:HGNC Symbol;Acc:19355]
625	ENSG00000149084	1478.829463	-1.455838353	0.092312772	1.48E-54	HSD17B12	hydroxysteroid (17-beta) dehydrogenase 12 [Source:HGNC Symbol;Acc:18646]
626	ENSG00000047644	1712.257439	1.511479412	0.095843762	1.49E-54	WWC3	WWC family member 3 [Source:HGNC Symbol;Acc:29237]
627	ENSG00000068024	1401.413289	-1.722447726	0.109263927	1.64E-54	HDAC4	histone deacetylase 4 [Source:HGNC Symbol;Acc:14063]
628	ENSG00000112077	194.106689	-4.535274512	0.287812947	1.81E-54	RHAG	Rh-associated glycoprotein [Source:HGNC Symbol;Acc:10006]
629	ENSG00000180304	4579.407459	1.076969622	0.068541983	3.69E-54	OAZ2	ornithine decarboxylase antizyme 2 [Source:HGNC Symbol;Acc:8096]
630	ENSG00000131236	26238.80656	-0.702486869	0.044710499	3.72E-54	CAP1	CAP, adenylate cyclase-associated protein 1 (yeast) [Source:HGNC Symbol;Acc:20040]
631	ENSG00000169131	1931.277842	-1.37579239	0.087667439	4.98E-54	ZNF354A	zinc finger protein 354A [Source:HGNC Symbol;Acc:11628]
632	ENSG00000167106	1114.211969	2.029582811	0.129607223	8.47E-54	FAM102A	family with sequence similarity 102, member A [Source:HGNC Symbol;Acc:31419]
633	ENSG00000213386	173.4400682	-5.147402137	0.328744474	8.69E-54	RP11-779O18.2	
634	ENSG00000139132	1408.954999	-1.638839201	0.104892651	1.48E-53	FGD4	FYVE, RhoGEF and PH domain containing 4 [Source:HGNC Symbol;Acc:19125]
635	ENSG00000167202	3154.959438	-1.239002505	0.079317598	1.55E-53	TBC1D2B	TBC1 domain family, member 2B [Source:HGNC Symbol;Acc:29183]
636	ENSG00000143952	1647.048687	-1.39793107	0.089523708	1.69E-53	VPS54	vacuolar protein sorting 54 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:18652]
637	ENSG00000173890	1233.642743	-1.529883671	0.098035268	1.96E-53	GPR160	G protein-coupled receptor 160 [Source:HGNC Symbol;Acc:23693]
638	ENSG00000239329	762.8145027	2.167395469	0.138938761	2.15E-53	HLA-DMB	major histocompatibility complex, class II, DM beta [Source:HGNC Symbol;Acc:4935]

639	ENSG00000010404	5574.056271	1.103270751	0.070757368	2.40E-53	IDS	iduronate 2-sulfatase [Source:HGNC Symbol;Acc:5389]
640	ENSG00000139193	633.584349	2.431577822	0.156087395	2.99E-53	CD27	CD27 molecule [Source:HGNC Symbol;Acc:11922]
641	ENSG00000165929	966.8957938	2.129967124	0.137283794	8.01E-53	TC2N	tandem C2 domains, nuclear [Source:HGNC Symbol;Acc:19859]
642	ENSG00000164938	8022.15119	0.891815547	0.057521532	9.50E-53	TP53INP1	tumor protein p53 inducible nuclear protein 1 [Source:HGNC Symbol;Acc:18022]
643	ENSG00000161955	1767.751712	-1.310069047	0.084499983	9.52E-53	TNFSF13	tumor necrosis factor (ligand) superfamily, member 13 [Source:HGNC Symbol;Acc:11928]
644	ENSG00000135049	4973.759062	-1.089594947	0.07030785	1.05E-52	AGTPBP1	ATP/GTP binding protein 1 [Source:HGNC Symbol;Acc:17258]
645	ENSG00000134107	1385.095073	1.54900195	0.100120971	1.57E-52	BHLHE40	basic helix-loop-helix family, member e40 [Source:HGNC Symbol;Acc:1046]
646	ENSG00000115232	3217.798711	1.238052154	0.080102885	2.00E-52	ITGA4	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor) [Source:HGNC Symbol;Acc:6140]
647	ENSG00000197506	1186.996479	-1.862806283	0.120649407	2.55E-52	SLC28A3	solute carrier family 28 (concentrative nucleoside transporter), member 3 [Source:HGNC Symbol;Acc:16484]
648	ENSG00000183955	1325.228578	-1.479301602	0.095890898	3.12E-52	SETD8	SET domain containing (lysine methyltransferase) 8 [Source:HGNC Symbol;Acc:29489]
649	ENSG00000198053	8010.754837	-0.783380633	0.050782488	3.15E-52	SIRPA	signal-regulatory protein alpha [Source:HGNC Symbol;Acc:9662]
650	ENSG00000112146	3820.40883	-1.021719024	0.066272127	3.62E-52	FBXO9	F-box protein 9 [Source:HGNC Symbol;Acc:13588]
651	ENSG00000136732	1605.984305	1.463881327	0.095235209	7.34E-52	GYPC	glycophorin C (Gerbich blood group) [Source:HGNC Symbol;Acc:4704]
652	ENSG00000225691	5750.00737	0.871787718	0.056795151	1.02E-51	HLA-C	major histocompatibility complex, class I, C [Source:HGNC Symbol;Acc:4933]
653	ENSG00000066777	3042.821883	-1.126422713	0.073506045	1.51E-51	ARFGEF1	ADP-ribosylation factor guanine nucleotide-exchange factor 1 (brefeldin A-inhibited) [Source:HGNC Symbol;Acc:15772]
654	ENSG00000115524	22505.11918	0.747684335	0.048791687	1.51E-51	SF3B1	splicing factor 3b, subunit 1, 155kDa [Source:HGNC Symbol;Acc:10768]
655	ENSG00000134419	11121.48885	0.828812711	0.054132725	1.85E-51	RPS15A	ribosomal protein S15a [Source:HGNC Symbol;Acc:10389]
656	ENSG00000049245	2874.849865	-1.059880021	0.06925149	2.03E-51	VAMP3	vesicle-associated membrane protein 3 [Source:HGNC Symbol;Acc:12644]
657	ENSG00000101307	8013.8744	-0.893577137	0.05843022	2.42E-51	SIRPB1	signal-regulatory protein beta 1 [Source:HGNC Symbol;Acc:15928]
658	ENSG00000030582	11691.717	-0.980211533	0.064166164	3.14E-51	GRN	granulin [Source:HGNC Symbol;Acc:4601]
659	ENSG00000139370	2415.889908	1.231153898	0.080691022	4.16E-51	SLC15A4	solute carrier family 15 (oligopeptide transporter), member 4 [Source:HGNC Symbol;Acc:23090]
660	ENSG00000122406	11532.77022	0.819033826	0.053685715	4.25E-51	RPL5	ribosomal protein L5 [Source:HGNC Symbol;Acc:10360]
661	ENSG00000169397	657.9637304	-1.985466798	0.130148188	4.29E-51	RNASE3	ribonuclease, RNase A family, 3 [Source:HGNC Symbol;Acc:10046]
662	ENSG00000169826	3361.464978	-1.13573207	0.074585769	6.60E-51	CSGALNACT2	chondroitin sulfate N-acetylgalactosaminyltransferase 2 [Source:HGNC Symbol;Acc:24292]
663	ENSG00000155366	379.670213	3.018665813	0.198243244	6.60E-51	RHOC	ras homolog family member C [Source:HGNC Symbol;Acc:669]
664	ENSG00000035687	2668.945162	-1.116779738	0.073364629	7.09E-51	ADSS	adenylosuccinate synthase [Source:HGNC Symbol;Acc:292]
665	ENSG00000155096	3594.142412	-1.162334567	0.076403736	8.15E-51	AZIN1	antizyme inhibitor 1 [Source:HGNC Symbol;Acc:16432]
666	ENSG00000168404	4973.09002	-0.950905984	0.062578017	1.06E-50	MLKL	mixed lineage kinase domain-like [Source:HGNC Symbol;Acc:26617]

667	ENSG00000110651	982.489603	1.994605356	0.13127338	1.08E-50	CD81	CD81 molecule [Source:HGNC Symbol;Acc:1701]
668	ENSG00000112759	603.2664114	-2.086597948	0.13736522	1.15E-50	SLC29A1	solute carrier family 29 (equilibrative nucleoside transporter), member 1 [Source:HGNC Symbol;Acc:11003]
669	ENSG00000272687	11232.64482	-0.948766514	0.062509235	1.38E-50	TKT	transketolase [Source:HGNC Symbol;Acc:11834]
670	ENSG00000271292	684.3793448	-2.06153148	0.135830632	1.40E-50	IGHG1	immunoglobulin heavy constant gamma 1 (G1m marker) [Source:HGNC Symbol;Acc:5525]
671	ENSG00000162747	36489.85592	0.676816035	0.0445953	1.40E-50	FCGR3B	Fc fragment of IgG, low affinity IIIb, receptor (CD16b) [Source:HGNC Symbol;Acc:3620]
672	ENSG00000211896	684.3683915	-2.061462574	0.135832573	1.41E-50	IGHG1	immunoglobulin heavy constant gamma 1 (G1m marker) [Source:HGNC Symbol;Acc:5525]
673	ENSG00000173517	2100.201118	-1.675471771	0.110446335	1.55E-50	PEAK1	pseudopodium-enriched atypical kinase 1 [Source:HGNC Symbol;Acc:29431]
674	ENSG00000163931	11230.88784	-0.948465868	0.062540021	1.66E-50	TKT	transketolase [Source:HGNC Symbol;Acc:11834]
675	ENSG00000256797	180.7271288	7.05268103	0.465463176	2.04E-50	KLRF2	killer cell lectin-like receptor subfamily F, member 2 [Source:HGNC Symbol;Acc:37646]
676	ENSG00000137462	5201.562514	1.119398409	0.073890979	2.12E-50	TLR2	toll-like receptor 2 [Source:HGNC Symbol;Acc:11848]
677	ENSG00000184588	1541.396472	1.548908033	0.102245949	2.13E-50	PDE4B	phosphodiesterase 4B, cAMP-specific [Source:HGNC Symbol;Acc:8781]
678	ENSG00000230463	437.9164545	2.807532953	0.185403067	2.33E-50	HLA-DRB3\$0301	HLA class II histocompatibility antigen, DR beta 3 chain [Source:UniProtKB/Swiss-Prot;Acc:P79483]
679	ENSG00000101608	14469.74106	-0.78990355	0.052207475	2.83E-50	MYL12A	myosin, light chain 12A, regulatory, non-sarcomeric [Source:HGNC Symbol;Acc:16701]
680	ENSG00000138696	205.88859	5.468129635	0.361649566	3.29E-50	BMPR1B	bone morphogenetic protein receptor, type IB [Source:HGNC Symbol;Acc:1077]
681	ENSG00000143110	3217.113929	-1.131115162	0.074832718	3.53E-50	C1orf162	chromosome 1 open reading frame 162 [Source:HGNC Symbol;Acc:28344]
682	ENSG00000206305	213.4025246	4.874115002	0.322587016	3.85E-50	HLA-DQA1	major histocompatibility complex, class II, DQ alpha 1 [Source:HGNC Symbol;Acc:4942]
683	ENSG00000140848	3110.363962	-1.218925672	0.080720571	4.40E-50	CPNE2	copine II [Source:HGNC Symbol;Acc:2315]
684	ENSG00000197756	9793.306707	0.780508933	0.051751345	5.83E-50	RPL37A	ribosomal protein L37a [Source:HGNC Symbol;Acc:10348]
685	ENSG00000232126	44763.29743	0.606820764	0.040243354	6.10E-50	HLA-B	major histocompatibility complex, class I, B [Source:HGNC Symbol;Acc:4932]
686	ENSG00000136111	810.660239	2.022972246	0.13419346	6.45E-50	TBC1D4	TBC1 domain family, member 4 [Source:HGNC Symbol;Acc:19165]
687	ENSG00000140416	933.9762442	-1.822239201	0.12098794	7.92E-50	TPM1	tropomyosin 1 (alpha) [Source:HGNC Symbol;Acc:12010]
688	ENSG00000135426	936.1170231	1.825399563	0.121376268	1.11E-49	TESPA1	thymocyte expressed, positive selection associated 1 [Source:HGNC Symbol;Acc:29109]
689	ENSG00000184384	498.2106571	2.532106999	0.168383795	1.13E-49	MAML2	mastermind-like 2 (Drosophila) [Source:HGNC Symbol;Acc:16259]
690	ENSG00000173221	5054.581669	-0.873505471	0.058142379	1.40E-49	GLRX	glutaredoxin (thioltransferase) [Source:HGNC Symbol;Acc:4330]
691	ENSG00000244482	1433.0881	-1.711143699	0.113959127	1.58E-49	LILRA6	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 6 [Source:HGNC Symbol;Acc:15495]
692	ENSG0000064763	2383.347696	-1.249207403	0.083232269	1.74E-49	FAR2	fatty acyl CoA reductase 2 [Source:HGNC Symbol;Acc:25531]
693	ENSG00000169877	568.433267	-2.658736506	0.177212348	1.89E-49	AHSP	alpha hemoglobin stabilizing protein [Source:HGNC Symbol;Acc:18075]
694	ENSG0000090238	7164.444817	0.921729393	0.06146667	2.12E-49	YPEL3	yippee-like 3 (Drosophila) [Source:HGNC Symbol;Acc:18327]

695	ENSG00000214021	5929.422192	-0.958472615	0.063948335	2.36E-49	TTL3	tubulin tyrosine ligase-like family, member 3 [Source:HGNC Symbol;Acc:24483]
696	ENSG00000133048	23003.02784	-0.674236502	0.045057409	3.40E-49	CHI3L1	chitinase 3-like 1 (cartilage glycoprotein-39) [Source:HGNC Symbol;Acc:1932]
697	ENSG00000110876	10600.94212	0.98483641	0.065857742	3.94E-49	SELPLG	selectin P ligand [Source:HGNC Symbol;Acc:10722]
698	ENSG00000175806	1010.499507	-1.59779346	0.106903403	4.42E-49	MSRA	methionine sulfoxide reductase A [Source:HGNC Symbol;Acc:7377]
699	ENSG00000118564	9321.500752	-0.828919211	0.055496352	5.11E-49	FBXL5	F-box and leucine-rich repeat protein 5 [Source:HGNC Symbol;Acc:13602]
700	ENSG00000108622	611.9712779	2.299384595	0.154072519	6.15E-49	ICAM2	intercellular adhesion molecule 2 [Source:HGNC Symbol;Acc:5345]
701	ENSG00000164715	1623.438108	-1.313638014	0.088173899	9.03E-49	LMTK2	lemur tyrosine kinase 2 [Source:HGNC Symbol;Acc:17880]
702	ENSG00000154146	479.0785388	2.539649533	0.170543574	9.98E-49	NRGN	neurogranin (protein kinase C substrate, RC3) [Source:HGNC Symbol;Acc:8000]
703	ENSG00000064393	2137.710038	-1.162659552	0.078204533	1.44E-48	HIPK2	homeodomain interacting protein kinase 2 [Source:HGNC Symbol;Acc:14402]
704	ENSG00000182774	7005.510846	0.792710264	0.053341074	1.57E-48	RPS17L	ribosomal protein S17-like [Source:HGNC Symbol;Acc:40029]
705	ENSG00000198918	10148.90988	0.808933515	0.054502027	2.07E-48	RPL39	ribosomal protein L39 [Source:HGNC Symbol;Acc:10350]
706	ENSG00000172794	4046.751191	0.958962778	0.064691242	2.73E-48	RAB37	RAB37, member RAS oncogene family [Source:HGNC Symbol;Acc:30268]
707	ENSG00000168615	816.773518	-2.130635513	0.143733965	2.73E-48	ADAM9	ADAM metallopeptidase domain 9 [Source:HGNC Symbol;Acc:216]
708	ENSG00000127946	4098.295856	-0.947421389	0.063955446	3.15E-48	HIP1	huntingtin interacting protein 1 [Source:HGNC Symbol;Acc:4913]
709	ENSG00000197747	800.0308233	1.857136785	0.125374906	3.20E-48	S100A10	S100 calcium binding protein A10 [Source:HGNC Symbol;Acc:10487]
710	ENSG00000141574	577.1457985	2.61929709	0.176882903	3.42E-48	SECTM1	secreted and transmembrane 1 [Source:HGNC Symbol;Acc:10707]
711	ENSG00000163661	577.6027726	-2.477006989	0.167283994	3.46E-48	PTX3	pentraxin 3, long [Source:HGNC Symbol;Acc:9692]
712	ENSG00000174600	361.0302334	3.1992491	0.216199754	3.99E-48	CMKLR1	chemokine-like receptor 1 [Source:HGNC Symbol;Acc:2121]
713	ENSG00000106780	10852.68123	-0.762444584	0.05154291	4.30E-48	MEGF9	multiple EGF-like-domains 9 [Source:HGNC Symbol;Acc:3234]
714	ENSG00000145592	12412.99278	0.721387635	0.048876795	7.02E-48	RPL37	ribosomal protein L37 [Source:HGNC Symbol;Acc:10347]
715	ENSG00000171940	3990.866864	0.954719491	0.064771529	9.37E-48	ZNF217	zinc finger protein 217 [Source:HGNC Symbol;Acc:13009]
716	ENSG00000154016	424.8178238	2.863234919	0.194482508	1.21E-47	GRAP	GRB2-related adaptor protein [Source:HGNC Symbol;Acc:4562]
717	ENSG00000073756	3520.503922	-1.025376223	0.069800973	1.95E-47	PTGS2	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase) [Source:HGNC Symbol;Acc:9605]
718	ENSG00000112308	6143.170564	0.887516059	0.060452694	2.22E-47	C6orf62	chromosome 6 open reading frame 62 [Source:HGNC Symbol;Acc:20998]
719	ENSG00000174738	523.8748498	2.322271272	0.158222967	2.35E-47	NR1D2	nuclear receptor subfamily 1, group D, member 2 [Source:HGNC Symbol;Acc:7963]
720	ENSG00000120899	10189.44402	-0.780079361	0.053170835	2.56E-47	PTK2B	protein tyrosine kinase 2 beta [Source:HGNC Symbol;Acc:9612]
721	ENSG00000228716	1530.919763	-1.355194431	0.092439376	3.00E-47	DHFR	dihydrofolate reductase [Source:HGNC Symbol;Acc:2861]
722	ENSG00000180771	520.2701416	2.305221295	0.157389574	3.67E-47	SRSF8	serine/arginine-rich splicing factor 8 [Source:HGNC Symbol;Acc:16988]



723	ENSG00000197457	757.2807517	2.05679059	0.140558769	4.48E-47	STMN3	stathmin-like 3 [Source:HGNC Symbol;Acc:15926]
724	ENSG00000164091	3576.257036	1.024628523	0.070047603	4.84E-47	WDR82	WD repeat domain 82 [Source:HGNC Symbol;Acc:28826]
725	ENSG00000125354	3840.174804	1.030269486	0.070487425	5.70E-47	SEPT6	septin 6 [Source:HGNC Symbol;Acc:15848]
726	ENSG00000171858	3198.615786	1.213652661	0.083050525	5.94E-47	RPS21	ribosomal protein S21 [Source:HGNC Symbol;Acc:10409]
727	ENSG00000175592	158.7729614	-4.50564155	0.309543937	1.38E-46	FOSL1	FOS-like antigen 1 [Source:HGNC Symbol;Acc:13718]
728	ENSG00000102125	1816.025684	-1.209888511	0.083122057	1.38E-46	TAZ	tafazzin [Source:HGNC Symbol;Acc:11577]
729	ENSG00000262599	774.3409819	1.867604159	0.128329896	1.43E-46	KIAA1147	KIAA1147 [Source:HGNC Symbol;Acc:29472]
730	ENSG00000064601	4519.726269	-0.971050104	0.066768711	1.65E-46	CTSA	cathepsin A [Source:HGNC Symbol;Acc:9251]
731	ENSG00000074706	3230.330784	-1.533987556	0.10562981	2.24E-46	IPCEF1	interaction protein for cytohesin exchange factors 1 [Source:HGNC Symbol;Acc:21204]
732	ENSG00000111206	611.553794	-2.160369315	0.148851912	2.54E-46	FOXM1	forkhead box M1 [Source:HGNC Symbol;Acc:3818]
733	ENSG00000257093	774.4714994	1.864418813	0.128577944	3.08E-46	KIAA1147	KIAA1147 [Source:HGNC Symbol;Acc:29472]
734	ENSG00000018189	516.2537083	2.217122057	0.153133849	4.23E-46	RUFY3	RUN and FYVE domain containing 3 [Source:HGNC Symbol;Acc:30285]
735	ENSG00000198286	792.3493102	2.415548246	0.166977792	5.04E-46	CARD11	caspace recruitment domain family, member 11 [Source:HGNC Symbol;Acc:16393]
736	ENSG00000112486	306.0943027	3.27116366	0.226188198	5.34E-46	CCR6	chemokine (C-C motif) receptor 6 [Source:HGNC Symbol;Acc:1607]
737	ENSG00000043462	9860.950635	-0.811427531	0.056115395	5.51E-46	LCP2	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa) [Source:HGNC Symbol;Acc:6529]
738	ENSG00000143390	1303.218569	1.45303149	0.100578591	6.67E-46	RFX5	regulatory factor X, 5 (influences HLA class II expression) [Source:HGNC Symbol;Acc:9986]
739	ENSG00000213903	3013.173484	-1.113058702	0.07708966	7.50E-46	LTB4R	leukotriene B4 receptor [Source:HGNC Symbol;Acc:6713]
740	ENSG00000111860	1065.562635	1.757390877	0.121840767	9.29E-46	CEP85L	centrosomal protein 85kDa-like [Source:HGNC Symbol;Acc:21638]
741	ENSG00000170458	1354.945776	1.951840152	0.135473186	1.17E-45	CD14	CD14 molecule [Source:HGNC Symbol;Acc:1628]
742	ENSG00000182899	6423.612624	0.800286319	0.055607418	1.47E-45	RPL35A	ribosomal protein L35a [Source:HGNC Symbol;Acc:10345]
743	ENSG00000124766	446.9971091	2.434693616	0.169558901	2.36E-45	SOX4	SRY (sex determining region Y)-box 4 [Source:HGNC Symbol;Acc:11200]
744	ENSG00000155966	355.1977647	-2.552667763	0.177811631	2.46E-45	AFF2	AF4/FMR2 family, member 2 [Source:HGNC Symbol;Acc:3776]
745	ENSG00000130066	32586.53674	-0.688297922	0.047948275	2.49E-45	SAT1	spermidine/spermine N1-acetyltransferase 1 [Source:HGNC Symbol;Acc:10540]
746	ENSG00000124203	560.1785325	2.164367218	0.150812306	2.62E-45	ZNF831	zinc finger protein 831 [Source:HGNC Symbol;Acc:16167]
747	ENSG00000260040	146.5815711	-4.600286402	0.320623612	2.75E-45	KEL	Kell blood group, metallo-endopeptidase [Source:HGNC Symbol;Acc:6308]
748	ENSG00000269754	355.5055938	-2.548834294	0.177714207	2.98E-45	AFF2	AF4/FMR2 family, member 2 [Source:HGNC Symbol;Acc:3776]
749	ENSG00000164483	748.7662656	2.382697202	0.166183237	3.17E-45	SAMD3	sterile alpha motif domain containing 3 [Source:HGNC Symbol;Acc:21574]
750	ENSG00000091106	1712.743087	-1.444117962	0.100778042	3.56E-45	NLR4	NLR family, CARD domain containing 4 [Source:HGNC Symbol;Acc:16412]

751	ENSG00000135404	7910.456919	-0.769270042	0.05369348	3.69E-45	CD63	CD63 molecule [Source:HGNC Symbol;Acc:1692]
752	ENSG00000157456	307.8262417	-2.872822418	0.200913767	5.54E-45	CCNB2	cyclin B2 [Source:HGNC Symbol;Acc:1580]
753	ENSG00000229252	14386.50131	0.720241239	0.050372864	5.57E-45	HLA-E	major histocompatibility complex, class I, E [Source:HGNC Symbol;Acc:4962]
754	ENSG00000206493	14386.36584	0.719964421	0.050353516	5.57E-45	HLA-E	major histocompatibility complex, class I, E [Source:HGNC Symbol;Acc:4962]
755	ENSG00000233904	14386.34063	0.719836503	0.050362239	5.98E-45	HLA-E	major histocompatibility complex, class I, E [Source:HGNC Symbol;Acc:4962]
756	ENSG00000230254	14386.18604	0.719737452	0.050370683	6.36E-45	HLA-E	major histocompatibility complex, class I, E [Source:HGNC Symbol;Acc:4962]
757	ENSG00000137501	502.622636	2.401995731	0.168275323	7.83E-45	SYTL2	synaptotagmin-like 2 [Source:HGNC Symbol;Acc:15585]
758	ENSG00000150347	438.7191892	2.541542726	0.178083982	8.12E-45	ARID5B	AT rich interactive domain 5B (MRF1-like) [Source:HGNC Symbol;Acc:17362]
759	ENSG00000196092	628.437741	2.166721746	0.151895017	8.97E-45	PAX5	paired box 5 [Source:HGNC Symbol;Acc:8619]
760	ENSG00000189060	3580.033675	-0.943213074	0.066172975	1.05E-44	H1FO	H1 histone family, member 0 [Source:HGNC Symbol;Acc:4714]
761	ENSG00000123485	520.4576577	-2.193977279	0.154163087	1.44E-44	HJURP	Holliday junction recognition protein [Source:HGNC Symbol;Acc:25444]
762	ENSG00000186105	246.2705132	3.647511684	0.256320621	1.46E-44	LRRC70	leucine rich repeat containing 70 [Source:HGNC Symbol;Acc:35155]
763	ENSG00000110031	1351.964403	1.46092061	0.102678523	1.50E-44	LPXN	leupaxin [Source:HGNC Symbol;Acc:14061]
764	ENSG00000205133	917.9082527	-1.726172514	0.121350224	1.58E-44	TRIQK	triple QxxK/R motif containing [Source:HGNC Symbol;Acc:27828]
765	ENSG00000176083	286.3235923	3.454981262	0.242918067	1.62E-44	ZNF683	zinc finger protein 683 [Source:HGNC Symbol;Acc:28495]
766	ENSG00000227231	584.7548722	-1.957360357	0.13765396	1.70E-44	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:5392]
767	ENSG00000198574	302.6081396	3.277156894	0.230473396	1.70E-44	SH2D1B	SH2 domain containing 1B [Source:HGNC Symbol;Acc:30416]
768	ENSG00000230128	584.5507099	-1.956586715	0.137679232	1.90E-44	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:5392]
769	ENSG00000235030	584.5508116	-1.956581188	0.137679549	1.90E-44	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:5392]
770	ENSG00000270466	386.2780688	2.861363008	0.201369496	1.94E-44		Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:S4R362]
771	ENSG00000023909	863.7876828	-1.87119087	0.131713706	2.03E-44	GCLM	glutamate-cysteine ligase, modifier subunit [Source:HGNC Symbol;Acc:4312]
772	ENSG00000143924	4662.870541	-0.863884837	0.060814322	2.06E-44	EML4	echinoderm microtubule associated protein like 4 [Source:HGNC Symbol;Acc:1316]
773	ENSG00000237155	584.3578779	-1.955857374	0.137688729	2.07E-44	IER3	immediate early response 3 [Source:HGNC Symbol;Acc:5392]
774	ENSG00000139641	2643.194791	1.125795529	0.07932205	2.46E-44	ESYT1	extended synaptotagmin-like protein 1 [Source:HGNC Symbol;Acc:29534]
775	ENSG00000132718	539.0267188	2.135588902	0.150732663	3.49E-44	SYT11	synaptotagmin XI [Source:HGNC Symbol;Acc:19239]
776	ENSG00000188846	7171.401279	0.79210695	0.055922575	3.67E-44	RPL14	ribosomal protein L14 [Source:HGNC Symbol;Acc:10305]
777	ENSG00000124491	606.5041387	2.07245637	0.146390748	4.07E-44	F13A1	coagulation factor XIII, A1 polypeptide [Source:HGNC Symbol;Acc:3531]
778	ENSG00000114391	5488.608077	0.816923427	0.057722451	4.33E-44	RPL24	ribosomal protein L24 [Source:HGNC Symbol;Acc:10325]

779	ENSG00000186908	3750.201877	-0.958434462	0.067829378	5.95E-44	ZDHC17	zinc finger, DHHC-type containing 17 [Source:HGNC Symbol;Acc:18412]
780	ENSG00000066279	482.9362326	-2.228995536	0.157766953	6.09E-44	ASPM	asp (abnormal spindle) homolog, microcephaly associated (Drosophila) [Source:HGNC Symbol;Acc:19048]
781	ENSG00000164506	2447.092955	-1.22871893	0.087117637	8.58E-44	STXBP5	syntaxin binding protein 5 (tomosyn) [Source:HGNC Symbol;Acc:19665]
782	ENSG00000125753	14726.0844	-0.630964769	0.044741325	8.77E-44	VASP	vasodilator-stimulated phosphoprotein [Source:HGNC Symbol;Acc:12652]
783	ENSG00000100097	1618.193262	-1.341336276	0.095122283	8.93E-44	LGALS1	lectin, galactoside-binding, soluble, 1 [Source:HGNC Symbol;Acc:6561]
784	ENSG00000187037	997.2573119	-1.651485949	0.117199368	1.03E-43	GPR141	G protein-coupled receptor 141 [Source:HGNC Symbol;Acc:19997]
785	ENSG00000184489	592.8483426	2.665952328	0.189205344	1.04E-43	PTP4A3	protein tyrosine phosphatase type IVA, member 3 [Source:HGNC Symbol;Acc:9636]
786	ENSG00000153179	6272.927246	0.865901973	0.061482783	1.14E-43	RASSF3	Ras association (RalGDS/AF-6) domain family member 3 [Source:HGNC Symbol;Acc:14271]
787	ENSG00000115159	1336.659311	-1.313400188	0.093285466	1.21E-43	GPD2	glycerol-3-phosphate dehydrogenase 2 (mitochondrial) [Source:HGNC Symbol;Acc:4456]
788	ENSG00000166340	9398.210171	-0.898720089	0.063836963	1.23E-43	TPP1	tripeptidyl peptidase I [Source:HGNC Symbol;Acc:2073]
789	ENSG00000138378	1168.014233	1.603824888	0.114018338	1.45E-43	STAT4	signal transducer and activator of transcription 4 [Source:HGNC Symbol;Acc:11365]
790	ENSG00000005810	2960.018034	1.038827339	0.073967701	1.98E-43	MYCBP2	MYC binding protein 2, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:23386]
791	ENSG00000172183	1688.068287	1.45931769	0.104002282	2.36E-43	ISG20	interferon stimulated exonuclease gene 20kDa [Source:HGNC Symbol;Acc:6130]
792	ENSG00000198668	14682.59665	-0.756458213	0.053932853	2.56E-43	CALM1	calmodulin 1 (phosphorylase kinase, delta) [Source:HGNC Symbol;Acc:1442]
793	ENSG00000214846	328.1701937	-2.596958723	0.18516982	2.60E-43	RP11-115L11.1	
794	ENSG00000168394	4256.26991	0.86487053	0.061694133	2.82E-43	TAP1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) [Source:HGNC Symbol;Acc:43]
795	ENSG00000169575	240.5855028	3.359491044	0.239654533	2.85E-43	VPREB1	pre-B lymphocyte 1 [Source:HGNC Symbol;Acc:12709]
796	ENSG00000206450	5465.327079	0.859945852	0.061349744	2.88E-43	HLA-B	major histocompatibility complex, class I, B [Source:HGNC Symbol;Acc:4932]
797	ENSG00000141012	1689.435617	-1.235109046	0.088200445	3.49E-43	GALNS	galactosamine (N-acetyl)-6-sulfate sulfatase [Source:HGNC Symbol;Acc:4122]
798	ENSG00000106392	1839.890811	-1.307084022	0.093387783	3.85E-43	C1GALT1	core 1 synthase, glycoprotein-N-acetylgalactosamine 3-beta-galactosyltransferase, 1 [Source:HGNC Symbol;Acc:24337]
799	ENSG00000000971	334.5181841	2.67093448	0.191113829	5.14E-43	CFH	complement factor H [Source:HGNC Symbol;Acc:4883]
800	ENSG00000006652	4368.686493	-0.960378261	0.068780166	6.13E-43	IFRD1	interferon-related developmental regulator 1 [Source:HGNC Symbol;Acc:5456]
801	ENSG00000107679	578.5319145	2.280273426	0.163324463	6.25E-43	PLEKHA1	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 1 [Source:HGNC Symbol;Acc:14335]
802	ENSG00000162244	6274.075501	0.957070331	0.068554969	6.32E-43	RPL29	ribosomal protein L29 [Source:HGNC Symbol;Acc:10331]
803	ENSG00000118985	977.3166793	-2.007965647	0.14385239	6.51E-43	ELL2	elongation factor, RNA polymerase II, 2 [Source:HGNC Symbol;Acc:17064]
804	ENSG00000127481	6262.744293	-0.890485785	0.063800139	6.60E-43	UBR4	ubiquitin protein ligase E3 component n-recognin 4 [Source:HGNC Symbol;Acc:30313]
805	ENSG00000177455	509.44863	2.22319293	0.159607271	9.80E-43	CD19	CD19 molecule [Source:HGNC Symbol;Acc:1633]
806	ENSG00000099985	360.6763344	-2.469942015	0.177553992	1.26E-42	OSM	oncostatin M [Source:HGNC Symbol;Acc:8506]

807	ENSG00000138778	410.1992945	-2.511292319	0.180588979	1.35E-42	CENPE	centromere protein E, 312kDa [Source:HGNC Symbol;Acc:1856]
808	ENSG00000163625	2363.792173	-1.455943118	0.104804229	1.64E-42	WDFY3	WD repeat and FYVE domain containing 3 [Source:HGNC Symbol;Acc:20751]
809	ENSG00000112576	7672.780037	-0.765417861	0.055110171	1.71E-42	CCND3	cyclin D3 [Source:HGNC Symbol;Acc:1585]
810	ENSG00000132274	3882.103754	0.936347876	0.067526656	2.34E-42	TRIM22	tripartite motif containing 22 [Source:HGNC Symbol;Acc:16379]
811	ENSG00000214688	363.6528868	2.885548969	0.208129312	2.41E-42	C10orf105	chromosome 10 open reading frame 105 [Source:HGNC Symbol;Acc:20304]
812	ENSG00000172809	5436.298372	0.922467828	0.066610541	2.99E-42	RPL38	ribosomal protein L38 [Source:HGNC Symbol;Acc:10349]
813	ENSG00000233276	1043.309082	1.901203938	0.137301943	3.06E-42	GPX1	glutathione peroxidase 1 [Source:HGNC Symbol;Acc:4553]
814	ENSG00000204267	2616.679894	1.154413927	0.08338803	3.18E-42	TAP2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP) [Source:HGNC Symbol;Acc:44]
815	ENSG00000134627	795.1384227	-1.796423533	0.129917591	4.00E-42	PIWIL4	piwi-like RNA-mediated gene silencing 4 [Source:HGNC Symbol;Acc:18444]
816	ENSG00000137841	14666.90412	-0.826819608	0.059824101	4.38E-42	PLCB2	phospholipase C, beta 2 [Source:HGNC Symbol;Acc:9055]
817	ENSG00000135679	2875.877433	1.158792883	0.083856017	4.49E-42	MDM2	MDM2 oncogene, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:6973]
818	ENSG00000188452	1718.203551	1.235454819	0.089464855	5.12E-42	CERKL	ceramide kinase-like [Source:HGNC Symbol;Acc:21699]
819	ENSG00000104814	939.0129389	1.60110259	0.115947541	5.15E-42	MAP4K1	mitogen-activated protein kinase kinase kinase kinase 1 [Source:HGNC Symbol;Acc:6863]
820	ENSG00000142197	1647.022908	-1.193518581	0.086579498	7.14E-42	DOPEY2	dopey family member 2 [Source:HGNC Symbol;Acc:1291]
821	ENSG00000140284	398.8065687	-2.516069067	0.182623038	7.95E-42	SLC27A2	solute carrier family 27 (fatty acid transporter), member 2 [Source:HGNC Symbol;Acc:10996]
822	ENSG00000104998	502.2997173	2.272236181	0.165117284	9.91E-42	IL27RA	interleukin 27 receptor, alpha [Source:HGNC Symbol;Acc:17290]
823	ENSG00000099622	5783.824636	0.857591761	0.062326467	1.01E-41	CIRBP	cold inducible RNA binding protein [Source:HGNC Symbol;Acc:1982]
824	ENSG00000167261	7077.656486	0.805024027	0.058514766	1.04E-41	DPEP2	dipeptidase 2 [Source:HGNC Symbol;Acc:23028]
825	ENSG00000271541	1596.680787	1.543080721	0.11223076	1.17E-41	IGHM	immunoglobulin heavy constant mu [Source:HGNC Symbol;Acc:5541]
826	ENSG00000164932	153.5536523	5.51778087	0.401492208	1.27E-41	CTHRC1	collagen triple helix repeat containing 1 [Source:HGNC Symbol;Acc:18831]
827	ENSG00000093167	2372.446333	-1.211054193	0.088127858	1.29E-41	LRRFIP2	leucine rich repeat (in FLII) interacting protein 2 [Source:HGNC Symbol;Acc:6703]
828	ENSG00000108405	4617.408998	-0.858627176	0.062493005	1.33E-41	P2RX1	purinergic receptor P2X, ligand-gated ion channel, 1 [Source:HGNC Symbol;Acc:8533]
829	ENSG00000146285	593.6508056	2.010969014	0.146455708	1.50E-41	SCML4	sex comb on midleg-like 4 (Drosophila) [Source:HGNC Symbol;Acc:21397]
830	ENSG00000101236	9616.429601	-0.716327387	0.052192669	1.63E-41	RNF24	ring finger protein 24 [Source:HGNC Symbol;Acc:13779]
831	ENSG00000138688	7007.468691	-0.836888127	0.061064568	2.14E-41	KIAA1109	KIAA1109 [Source:HGNC Symbol;Acc:26953]
832	ENSG00000152078	171.1944529	-3.739538021	0.273489163	3.29E-41	TMEM56	transmembrane protein 56 [Source:HGNC Symbol;Acc:26477]
833	ENSG00000229474	940.2872499	1.636099739	0.11965834	3.30E-41	PATL2	protein associated with topoisomerase II homolog 2 (yeast) [Source:HGNC Symbol;Acc:33630]
834	ENSG00000197579	1314.065523	1.379654723	0.100946002	3.57E-41	TOPORS	topoisomerase I binding, arginine/serine-rich, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:21653]

835	ENSG00000128218	308.4759366	2.71016361	0.198383223	3.88E-41	VPREB3	pre-B lymphocyte 3 [Source:HGNC Symbol;Acc:12710]
836	ENSG00000165102	2616.410585	-1.127684347	0.082610651	4.48E-41	HGSNAT	heparan-alpha-glucosaminide N-acetyltransferase [Source:HGNC Symbol;Acc:26527]
837	ENSG00000147604	14885.16611	0.744913121	0.054644774	5.78E-41	RPL7	ribosomal protein L7 [Source:HGNC Symbol;Acc:10363]
838	ENSG00000171476	401.8058236	2.486518317	0.182422168	5.88E-41	HOPX	HOP homeobox [Source:HGNC Symbol;Acc:24961]
839	ENSG00000197958	8859.502834	0.690240864	0.05065464	6.22E-41	RPL12	ribosomal protein L12 [Source:HGNC Symbol;Acc:10302]
840	ENSG00000230903	2999.658008	0.96262828	0.070664414	6.55E-41	RPL9P8	ribosomal protein L9 pseudogene 8 [Source:HGNC Symbol;Acc:30334]
841	ENSG00000237550	2999.500636	0.962017204	0.070632753	6.78E-41	UBE2Q2P6	ubiquitin-conjugating enzyme E2Q family member 2 pseudogene 6 [Source:HGNC Symbol;Acc:49412]
842	ENSG00000128833	167.0540926	4.112998825	0.302058551	7.10E-41	MYO5C	myosin VC [Source:HGNC Symbol;Acc:7604]
843	ENSG00000019991	369.2355644	-2.343137978	0.172401744	1.00E-40	HGF	hepatocyte growth factor (hepapoietin A; scatter factor) [Source:HGNC Symbol;Acc:4893]
844	ENSG00000101493	3330.157997	-1.096700094	0.080692865	1.00E-40	ZNF516	zinc finger protein 516 [Source:HGNC Symbol;Acc:28990]
845	ENSG00000126787	225.0344428	-3.247435917	0.239102721	1.14E-40	DLGAP5	discs, large (Drosophila) homolog-associated protein 5 [Source:HGNC Symbol;Acc:16864]
846	ENSG00000170876	2927.627274	0.948114122	0.06986488	1.32E-40	TMEM43	transmembrane protein 43 [Source:HGNC Symbol;Acc:28472]
847	ENSG00000165272	448.233077	2.560676711	0.188895846	1.61E-40	AQP3	aquaporin 3 (Gill blood group) [Source:HGNC Symbol;Acc:636]
848	ENSG00000166401	747.9163264	-1.72318709	0.127277	2.03E-40	SERPINB8	serpin peptidase inhibitor, clade B (ovalbumin), member 8 [Source:HGNC Symbol;Acc:8952]
849	ENSG00000072135	5277.705433	-0.801373297	0.059201102	2.10E-40	PTPN18	protein tyrosine phosphatase, non-receptor type 18 (brain-derived) [Source:HGNC Symbol;Acc:9649]
850	ENSG00000158517	11327.63068	-0.704158431	0.052055849	2.39E-40	NCF1	neutrophil cytosolic factor 1 [Source:HGNC Symbol;Acc:7660]
851	ENSG00000122223	725.0570583	1.752324507	0.129587983	2.54E-40	CD244	CD244 molecule, natural killer cell receptor 2B4 [Source:HGNC Symbol;Acc:18171]
852	ENSG00000152818	2667.753154	1.097823723	0.081246452	2.91E-40	UTRN	utrophin [Source:HGNC Symbol;Acc:12635]
853	ENSG00000011426	517.8902598	-2.16409679	0.160493565	4.26E-40	ANLN	anillin, actin binding protein [Source:HGNC Symbol;Acc:14082]
854	ENSG00000227715	15539.74306	0.71056053	0.052705184	4.39E-40	HLA-A	major histocompatibility complex, class I, A [Source:HGNC Symbol;Acc:4931]
855	ENSG00000116337	4534.958689	0.905110095	0.06716839	4.79E-40	AMPD2	adenosine monophosphate deaminase 2 [Source:HGNC Symbol;Acc:469]
856	ENSG00000137812	443.8319762	-2.167766245	0.161152292	6.58E-40	CASC5	cancer susceptibility candidate 5 [Source:HGNC Symbol;Acc:24054]
857	ENSG00000156298	163.47657	5.715253609	0.424913878	6.69E-40	TSPAN7	tetraspanin 7 [Source:HGNC Symbol;Acc:11854]
858	ENSG00000108292	6106.255151	1.02129678	0.075983754	7.59E-40	MLLT6	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 6 [Source:HGNC Symbol;Acc:7138]
859	ENSG00000092820	3090.107313	0.912458201	0.067896975	7.80E-40	EZR	ezrin [Source:HGNC Symbol;Acc:12691]
860	ENSG00000135596	9541.467412	-0.860706138	0.064165898	1.09E-39	MICAL1	microtubule associated monooxygenase, calponin and LIM domain containing 1 [Source:HGNC Symbol;Acc:20619]
861	ENSG00000163508	349.9595178	2.688822548	0.200637139	1.29E-39	EOMES	eomesodermin [Source:HGNC Symbol;Acc:3372]
862	ENSG00000176890	887.563352	-1.501699167	0.112164819	1.54E-39	TYMS	thymidylate synthetase [Source:HGNC Symbol;Acc:12441]

863	ENSG00000069493	2123.675689	1.1071076	0.082700882	1.56E-39	CLEC2D	C-type lectin domain family 2, member D [Source:HGNC Symbol;Acc:14351]
864	ENSG00000204136	721.0989107	-1.661539791	0.124211361	1.79E-39	GGTA1P	glycoprotein, alpha-galactosyltransferase 1 pseudogene [Source:HGNC Symbol;Acc:4253]
865	ENSG00000132749	695.6459146	-1.784323562	0.133466703	1.98E-39	MTL5	metallothionein-like 5, testis-specific (tesmin) [Source:HGNC Symbol;Acc:7446]
866	ENSG00000126860	3182.241183	0.96916918	0.072494347	1.99E-39	EV12A	ecotropic viral integration site 2A [Source:HGNC Symbol;Acc:3499]
867	ENSG00000242574	529.2466877	2.120943088	0.158676972	2.05E-39	HLA-DMB	major histocompatibility complex, class II, DM beta [Source:HGNC Symbol;Acc:4935]
868	ENSG00000140988	12006.52326	0.88593621	0.066333811	2.36E-39	RPS2	ribosomal protein S2 [Source:HGNC Symbol;Acc:10404]
869	ENSG00000213658	1159.733798	1.660342718	0.124368399	2.54E-39	LAT	linker for activation of T cells [Source:HGNC Symbol;Acc:18874]
870	ENSG00000165650	1621.453059	-1.362005767	0.10205182	2.68E-39	PDZD8	PDZ domain containing 8 [Source:HGNC Symbol;Acc:26974]
871	ENSG00000073331	3977.096584	-1.045672814	0.078369881	2.80E-39	ALPK1	alpha-kinase 1 [Source:HGNC Symbol;Acc:20917]
872	ENSG00000117399	297.4350288	-2.761984901	0.207106403	3.06E-39	CDC20	cell division cycle 20 [Source:HGNC Symbol;Acc:1723]
873	ENSG00000132475	25104.637	0.613188323	0.045985338	3.13E-39	H3F3B	H3 histone, family 3B (H3.3B) [Source:HGNC Symbol;Acc:4765]
874	ENSG00000128594	1882.163066	-1.083042219	0.081300397	3.72E-39	LRRC4	leucine rich repeat containing 4 [Source:HGNC Symbol;Acc:15586]
875	ENSG00000122417	1380.081269	1.300502698	0.097684024	4.14E-39	ODF2L	outer dense fiber of sperm tails 2-like [Source:HGNC Symbol;Acc:29225]
876	ENSG00000104267	287.1413737	-3.213534403	0.241526635	4.62E-39	CA2	carbonic anhydrase II [Source:HGNC Symbol;Acc:1373]
877	ENSG00000178562	559.0969614	2.190536195	0.164659208	4.72E-39	CD28	CD28 molecule [Source:HGNC Symbol;Acc:1653]
878	ENSG00000170160	1085.476197	-1.553072208	0.116931323	6.28E-39	CCDC144A	coiled-coil domain containing 144A [Source:HGNC Symbol;Acc:29072]
879	ENSG00000117586	248.5140809	3.00856795	0.226721212	7.37E-39	TNFSF4	tumor necrosis factor (ligand) superfamily, member 4 [Source:HGNC Symbol;Acc:11934]
880	ENSG00000138829	716.614966	-1.729414017	0.130333629	7.43E-39	FBN2	fibrillin 2 [Source:HGNC Symbol;Acc:3604]
881	ENSG00000076382	550.6428525	-1.869501328	0.140891743	7.43E-39	SPAG5	sperm associated antigen 5 [Source:HGNC Symbol;Acc:13452]
882	ENSG00000260501	8027.04097	0.717863472	0.054108664	7.62E-39	RPL7A	ribosomal protein L7a [Source:HGNC Symbol;Acc:10364]
883	ENSG00000119138	318.7098413	2.752766658	0.207508323	7.74E-39	KLF9	Kruppel-like factor 9 [Source:HGNC Symbol;Acc:1123]
884	ENSG00000178573	495.3098481	2.113747655	0.15938946	8.19E-39	MAF	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog [Source:HGNC Symbol;Acc:6776]
885	ENSG00000170315	9317.110304	0.745371773	0.056215601	8.44E-39	UBB	ubiquitin B [Source:HGNC Symbol;Acc:12463]
886	ENSG00000148303	8027.948388	0.717578744	0.054127382	8.66E-39	RPL7A	ribosomal protein L7a [Source:HGNC Symbol;Acc:10364]
887	ENSG00000188322	364.6415694	2.559691501	0.193118277	8.96E-39	SBK1	SH3 domain binding kinase 1 [Source:HGNC Symbol;Acc:17699]
888	ENSG00000007968	655.6029339	-1.763078882	0.13304657	9.31E-39	E2F2	E2F transcription factor 2 [Source:HGNC Symbol;Acc:3114]
889	ENSG00000271760	257.2426879	-3.68316689	0.277985821	9.56E-39	ADD2	adducin 2 (beta) [Source:HGNC Symbol;Acc:244]
890	ENSG00000075340	257.2565565	-3.682935674	0.27799059	9.69E-39	ADD2	adducin 2 (beta) [Source:HGNC Symbol;Acc:244]

891	ENSG00000173171	4035.393972	-0.973643674	0.073509099	1.01E-38	MTX1	metaxin 1 [Source:HGNC Symbol;Acc:7504]
892	ENSG00000189067	20531.41296	0.632771055	0.047779173	1.03E-38	LITAF	lipopolysaccharide-induced TNF factor [Source:HGNC Symbol;Acc:16841]
893	ENSG00000081237	18693.6829	0.670292193	0.050644058	1.15E-38	PTPRC	protein tyrosine phosphatase, receptor type, C [Source:HGNC Symbol;Acc:9666]
894	ENSG00000163565	3370.279834	1.007369333	0.076137476	1.22E-38	IFI16	interferon, gamma-inducible protein 16 [Source:HGNC Symbol;Acc:5395]
895	ENSG00000138160	539.5781194	-1.905510788	0.144068101	1.29E-38	KIF11	kinesin family member 11 [Source:HGNC Symbol;Acc:6388]
896	ENSG00000142089	1586.984707	1.646253786	0.124715415	1.83E-38	IFITM3	interferon induced transmembrane protein 3 [Source:HGNC Symbol;Acc:5414]
897	ENSG00000178980	902.52596	1.633314135	0.123804605	2.02E-38	SEPW1	selenoprotein W, 1 [Source:HGNC Symbol;Acc:10752]
898	ENSG00000143537	2029.012519	-1.326935421	0.100713375	2.53E-38	ADAM15	ADAM metalloproteinase domain 15 [Source:HGNC Symbol;Acc:193]
899	ENSG00000177084	2778.762755	-1.031009292	0.0782567	2.55E-38	POLE	polymerase (DNA directed), epsilon, catalytic subunit [Source:HGNC Symbol;Acc:9177]
900	ENSG00000115085	2167.523195	2.873710651	0.218126541	2.56E-38	ZAP70	zeta-chain (TCR) associated protein kinase 70kDa [Source:HGNC Symbol;Acc:12858]
901	ENSG00000230259	1626.685554	-1.298736631	0.098590244	2.60E-38	AC008738.1	
902	ENSG00000132694	2944.9792	-0.904117822	0.068667967	2.84E-38	ARHGEF11	Rho guanine nucleotide exchange factor (GEF) 11 [Source:HGNC Symbol;Acc:14580]
903	ENSG00000187210	914.3095623	-1.433334693	0.108869701	2.87E-38	GCNT1	glucosaminyl (N-acetyl) transferase 1, core 2 [Source:HGNC Symbol;Acc:4203]
904	ENSG00000133985	458.4097668	2.267965619	0.172267386	2.87E-38	TTC9	tetratricopeptide repeat domain 9 [Source:HGNC Symbol;Acc:20267]
905	ENSG00000161405	343.8015473	2.784449015	0.211633355	3.21E-38	IKZF3	IKAROS family zinc finger 3 (Aiolos) [Source:HGNC Symbol;Acc:13178]
906	ENSG00000221963	2095.965962	1.064649443	0.08093532	3.32E-38	APOL6	apolipoprotein L, 6 [Source:HGNC Symbol;Acc:14870]
907	ENSG00000125691	10542.88719	0.694128637	0.052770041	3.34E-38	RPL23	ribosomal protein L23 [Source:HGNC Symbol;Acc:10316]
908	ENSG00000197694	3734.286495	0.895056259	0.068059083	3.45E-38	SPTAN1	spectrin, alpha, non-erythrocytic 1 [Source:HGNC Symbol;Acc:11273]
909	ENSG00000027869	280.1107479	2.850478841	0.216842318	3.72E-38	SH2D2A	SH2 domain containing 2A [Source:HGNC Symbol;Acc:10821]
910	ENSG00000010278	677.6043387	1.911178692	0.145509544	4.30E-38	CD9	CD9 molecule [Source:HGNC Symbol;Acc:1709]
911	ENSG00000167419	254.039582	-2.7801817	0.211772243	4.66E-38	LPO	lactoperoxidase [Source:HGNC Symbol;Acc:6678]
912	ENSG00000198734	1627.291963	-1.22386266	0.09323645	4.77E-38	F5	coagulation factor V (proaccelerin, labile factor) [Source:HGNC Symbol;Acc:3542]
913	ENSG00000197249	19335.32287	0.613839515	0.046794042	5.33E-38	SERPINA1	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 1 [Source:HGNC Symbol;Acc:8941]
914	ENSG00000077150	1643.798405	1.364555114	0.104110779	6.17E-38	NFKB2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100) [Source:HGNC Symbol;Acc:7795]
915	ENSG00000164116	236.5719942	3.272458588	0.249764069	6.54E-38	GUCY1A3	guanylate cyclase 1, soluble, alpha 3 [Source:HGNC Symbol;Acc:4685]
916	ENSG00000092010	4241.178401	0.859648573	0.065725936	8.84E-38	PSME1	proteasome (prosome, macropain) activator subunit 1 (PA28 alpha) [Source:HGNC Symbol;Acc:9568]
917	ENSG00000143889	931.0618096	-1.612619656	0.123367919	9.76E-38	HNRNPLL	heterogeneous nuclear ribonucleoprotein L-like [Source:HGNC Symbol;Acc:25127]
918	ENSG00000171848	893.150824	-1.639858699	0.125557364	1.13E-37	RRM2	ribonucleotide reductase M2 [Source:HGNC Symbol;Acc:10452]

919	ENSG00000204628	14193.13783	0.624559218	0.047822563	1.14E-37	GNB2L1	guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1 [Source:HGNC Symbol;Acc:4399]
920	ENSG00000167470	3561.207919	-1.06499586	0.081570083	1.19E-37	MIDN	midnolin [Source:HGNC Symbol;Acc:16298]
921	ENSG00000131378	603.5025962	1.884665924	0.14438569	1.24E-37	RFTN1	raftlin, lipid raft linker 1 [Source:HGNC Symbol;Acc:30278]
922	ENSG00000262970	693.6492284	-2.257548309	0.173014576	1.32E-37	ACER3	alkaline ceramidase 3 [Source:HGNC Symbol;Acc:16066]
923	ENSG00000169432	384.6676686	-2.231484251	0.171070106	1.39E-37	SCN9A	sodium channel, voltage-gated, type IX, alpha subunit [Source:HGNC Symbol;Acc:10597]
924	ENSG00000162434	10404.22205	0.68095209	0.052213741	1.44E-37	JAK1	Janus kinase 1 [Source:HGNC Symbol;Acc:6190]
925	ENSG00000254087	8588.021552	0.683885345	0.052441916	1.45E-37	LYN	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog [Source:HGNC Symbol;Acc:6735]
926	ENSG00000083454	598.8339672	1.82742732	0.14017331	1.52E-37	P2RX5	purinergic receptor P2X, ligand-gated ion channel, 5 [Source:HGNC Symbol;Acc:8536]
927	ENSG00000183558	776.8075472	-1.676213216	0.128633714	1.65E-37	HIST2H2AA3	histone cluster 2, H2aa3 [Source:HGNC Symbol;Acc:4736]
928	ENSG00000115091	11416.76631	-0.689923069	0.052961634	1.74E-37	ACTR3	ARP3 actin-related protein 3 homolog (yeast) [Source:HGNC Symbol;Acc:170]
929	ENSG00000110700	7098.669313	0.819545973	0.062930155	1.82E-37	RPS13	ribosomal protein S13 [Source:HGNC Symbol;Acc:10386]
930	ENSG00000174282	1265.442767	1.320434201	0.10144024	1.97E-37	ZBTB4	zinc finger and BTB domain containing 4 [Source:HGNC Symbol;Acc:23847]
931	ENSG00000117226	622.0406849	1.805228122	0.138756943	2.16E-37	GBP3	guanylate binding protein 3 [Source:HGNC Symbol;Acc:4184]
932	ENSG00000157800	2780.994044	-1.14394086	0.087963176	2.31E-37	SLC37A3	solute carrier family 37, member 3 [Source:HGNC Symbol;Acc:20651]
933	ENSG00000271658	986.2905643	-1.569097602	0.120657171	2.31E-37	OSCAR	osteoclast associated, immunoglobulin-like receptor [Source:HGNC Symbol;Acc:29960]
934	ENSG00000117228	1156.140069	1.420284498	0.109236347	2.39E-37	GBP1	guanylate binding protein 1, interferon-inducible [Source:HGNC Symbol;Acc:4182]
935	ENSG00000157823	1268.18551	-1.259797775	0.096905291	2.44E-37	AP3S2	adaptor-related protein complex 3, sigma 2 subunit [Source:HGNC Symbol;Acc:571]
936	ENSG00000062282	2672.507377	1.146857736	0.088290111	2.80E-37	DGAT2	diacylglycerol O-acyltransferase 2 [Source:HGNC Symbol;Acc:16940]
937	ENSG00000163534	1404.918896	-1.174285121	0.090474675	3.21E-37	FCRL1	Fc receptor-like 1 [Source:HGNC Symbol;Acc:18509]
938	ENSG00000165458	3632.632864	-0.831980692	0.064134527	3.50E-37	INPPL1	inositol polyphosphate phosphatase-like 1 [Source:HGNC Symbol;Acc:6080]
939	ENSG00000109670	1762.436279	1.393296856	0.107406668	3.51E-37	FBXW7	F-box and WD repeat domain containing 7, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:16712]
940	ENSG00000145687	1237.11672	1.278819468	0.098638537	3.86E-37	SSBP2	single-stranded DNA binding protein 2 [Source:HGNC Symbol;Acc:15831]
941	ENSG00000206560	1388.386446	1.357882319	0.10483432	4.51E-37	ANKRD28	ankyrin repeat domain 28 [Source:HGNC Symbol;Acc:29024]
942	ENSG00000114480	1011.512075	-1.377289309	0.106398295	5.00E-37	GBE1	glucan (1,4-alpha-), branching enzyme 1 [Source:HGNC Symbol;Acc:4180]
943	ENSG00000169991	545.7596564	2.213930775	0.171109106	5.40E-37	IFFO2	intermediate filament family orphan 2 [Source:HGNC Symbol;Acc:27006]
944	ENSG00000071054	6005.111086	-0.784750702	0.060696787	6.12E-37	MAP4K4	mitogen-activated protein kinase kinase kinase kinase 4 [Source:HGNC Symbol;Acc:6866]
945	ENSG00000038274	2894.439788	0.91119221	0.070495337	6.39E-37	MAT2B	methionine adenosyltransferase II, beta [Source:HGNC Symbol;Acc:6905]
946	ENSG00000166851	340.4231135	-2.465184914	0.190754029	6.57E-37	PLK1	polo-like kinase 1 [Source:HGNC Symbol;Acc:9077]



947	ENSG00000068971	791.3482893	-1.538195482	0.119083225	7.13E-37	PPP2R5B	protein phosphatase 2, regulatory subunit B', beta [Source:HGNC Symbol;Acc:9310]
948	ENSG00000270784	307.9162009	2.97762171	0.230527493	7.17E-37	CRIP1	cysteine-rich protein 1 (intestinal) [Source:HGNC Symbol;Acc:2360]
949	ENSG00000134802	936.7415987	-1.481158612	0.114683436	7.29E-37	SLC43A3	solute carrier family 43, member 3 [Source:HGNC Symbol;Acc:17466]
950	ENSG00000137767	2560.349076	-0.953936323	0.07388276	7.64E-37	SQRDL	sulfide quinone reductase-like (yeast) [Source:HGNC Symbol;Acc:20390]
951	ENSG00000181847	555.8802088	2.124812588	0.164616083	8.02E-37	TIGIT	T cell immunoreceptor with Ig and ITIM domains [Source:HGNC Symbol;Acc:26838]
952	ENSG00000182095	2069.167446	-1.052878267	0.081583791	8.24E-37	TNRC18	trinucleotide repeat containing 18 [Source:HGNC Symbol;Acc:11962]
953	ENSG00000023902	1176.535272	1.37621078	0.106640882	8.27E-37	PLEKHO1	pleckstrin homology domain containing, family O member 1 [Source:HGNC Symbol;Acc:24310]
954	ENSG00000112419	963.0784896	-1.754445742	0.135967463	8.45E-37	PHACTR2	phosphatase and actin regulator 2 [Source:HGNC Symbol;Acc:20956]
955	ENSG00000116717	902.8487548	-1.484199047	0.115047884	8.74E-37	GADD45A	growth arrest and DNA-damage-inducible, alpha [Source:HGNC Symbol;Acc:4095]
956	ENSG00000213145	308.3052875	2.967439267	0.230087772	9.16E-37	CRIP1	cysteine-rich protein 1 (intestinal) [Source:HGNC Symbol;Acc:2360]
957	ENSG00000197993	119.220855	-4.380540998	0.33999547	1.08E-36	KEL	Kell blood group, metallo-endopeptidase [Source:HGNC Symbol;Acc:6308]
958	ENSG00000153283	1241.436476	1.569670648	0.121888126	1.17E-36	CD96	CD96 molecule [Source:HGNC Symbol;Acc:16892]
959	ENSG00000166949	875.0022103	1.574102632	0.122552368	1.81E-36	SMAD3	SMAD family member 3 [Source:HGNC Symbol;Acc:6769]
960	ENSG00000074966	543.8466385	1.997159216	0.155491269	1.81E-36	TXK	TXK tyrosine kinase [Source:HGNC Symbol;Acc:12434]
961	ENSG00000198624	3535.935921	0.88050001	0.068603714	2.04E-36	CCDC69	coiled-coil domain containing 69 [Source:HGNC Symbol;Acc:24487]
962	ENSG00000129355	3172.875055	-0.98291134	0.076596353	2.10E-36	CDKN2D	cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4) [Source:HGNC Symbol;Acc:1790]
963	ENSG00000141293	503.1296081	2.222707705	0.173352917	2.40E-36	SKAP1	src kinase associated phosphoprotein 1 [Source:HGNC Symbol;Acc:15605]
964	ENSG00000269216	111.0857855	-5.720509257	0.446157113	2.41E-36	CLTCL1	
965	ENSG00000141098	1185.905189	-1.388129601	0.108350783	2.74E-36	GFOD2	glucose-fructose oxidoreductase domain containing 2 [Source:HGNC Symbol;Acc:28159]
966	ENSG00000174944	248.4326013	3.163177362	0.246921894	2.78E-36	P2RY14	purinergic receptor P2Y, G-protein coupled, 14 [Source:HGNC Symbol;Acc:16442]
967	ENSG00000197329	5072.340446	0.831883251	0.064938305	2.78E-36	PELI1	pellino E3 ubiquitin protein ligase 1 [Source:HGNC Symbol;Acc:8827]
968	ENSG00000114942	5404.016356	0.841461466	0.065718656	3.01E-36	EEF1B2	eukaryotic translation elongation factor 1 beta 2 [Source:HGNC Symbol;Acc:3208]
969	ENSG00000184293	209.1530697	3.243491623	0.253825105	4.18E-36	CLECL1	C-type lectin-like 1 [Source:HGNC Symbol;Acc:24462]
970	ENSG00000143753	1528.584471	-1.114967917	0.087270464	4.31E-36	DEGS1	delta(4)-desaturase, sphingolipid 1 [Source:HGNC Symbol;Acc:13709]
971	ENSG00000136869	2086.934183	1.087999693	0.085262862	5.25E-36	TLR4	toll-like receptor 4 [Source:HGNC Symbol;Acc:11850]
972	ENSG00000223609	860.795709	-1.417149606	0.111247543	6.94E-36	HBD	hemoglobin, delta [Source:HGNC Symbol;Acc:4829]
973	ENSG00000205809	234.591787	3.249272844	0.255130047	7.20E-36	KLRC2	killer cell lectin-like receptor subfamily C, member 2 [Source:HGNC Symbol;Acc:6375]
974	ENSG00000139190	3963.327345	-0.801481539	0.062946433	7.47E-36	VAMP1	vesicle-associated membrane protein 1 (synaptobrevin 1) [Source:HGNC Symbol;Acc:12642]

975	ENSG00000123643	2283.482971	-1.089589173	0.085673519	9.02E-36	SLC36A1	solute carrier family 36 (proton/amino acid symporter), member 1 [Source:HGNC Symbol;Acc:18761]
976	ENSG00000165646	815.9948277	-1.519613257	0.11960789	1.06E-35	SLC18A2	solute carrier family 18 (vesicular monoamine transporter), member 2 [Source:HGNC Symbol;Acc:10935]
977	ENSG00000166313	294.3453368	2.756354523	0.216964437	1.07E-35	APBB1	amyloid beta (A4) precursor protein-binding, family B, member 1 (Fe65) [Source:HGNC Symbol;Acc:581]
978	ENSG00000172005	299.5420449	2.622861336	0.206497379	1.11E-35	MAL	mal, T-cell differentiation protein [Source:HGNC Symbol;Acc:6817]
979	ENSG00000113303	2219.278528	-1.068539068	0.084148088	1.15E-35	BTNL8	butyrophilin-like 8 [Source:HGNC Symbol;Acc:26131]
980	ENSG00000110203	1340.515683	-1.369113408	0.107974638	1.46E-35	FOLR3	folate receptor 3 (gamma) [Source:HGNC Symbol;Acc:3795]
981	ENSG00000171522	640.6700007	1.882962163	0.148611748	1.65E-35	PTGER4	prostaglandin E receptor 4 (subtype EP4) [Source:HGNC Symbol;Acc:9596]
982	ENSG00000106366	125.7847875	4.695113806	0.371172919	2.15E-35	SERPINE1	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1 [Source:HGNC Symbol;Acc:8583]
983	ENSG00000172673	348.1614985	2.513742914	0.198778252	2.24E-35	THEMIS	thymocyte selection associated [Source:HGNC Symbol;Acc:21569]
984	ENSG00000124788	2348.581885	-1.042692785	0.082459331	2.27E-35	ATXN1	ataxin 1 [Source:HGNC Symbol;Acc:10548]
985	ENSG00000169299	1356.934579	-1.202557889	0.095201357	2.68E-35	PGM2	phosphoglucomutase 2 [Source:HGNC Symbol;Acc:8906]
986	ENSG00000163412	2466.824778	-0.970579099	0.076876597	2.91E-35	EIF4E3	eukaryotic translation initiation factor 4E family member 3 [Source:HGNC Symbol;Acc:31837]
987	ENSG00000235744	271.903822	2.745548777	0.217692259	3.44E-35	HLA-DOA	major histocompatibility complex, class II, DO alpha [Source:HGNC Symbol;Acc:4936]
988	ENSG00000231558	271.8996875	2.745446284	0.217699247	3.47E-35	HLA-DOA	major histocompatibility complex, class II, DO alpha [Source:HGNC Symbol;Acc:4936]
989	ENSG00000107485	248.8917048	2.976946371	0.236127553	3.64E-35	GATA3	GATA binding protein 3 [Source:HGNC Symbol;Acc:4172]
990	ENSG00000173535	5697.195297	0.745261389	0.059130107	3.81E-35	TNFRSF10C	tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain [Source:HGNC Symbol;Acc:11906]
991	ENSG00000160180	370.027671	-2.348515006	0.186401994	4.03E-35	TFF3	trefoil factor 3 (intestinal) [Source:HGNC Symbol;Acc:11757]
992	ENSG00000204169	363.6502223	2.521127608	0.200127066	4.10E-35	AGAP7	ArfGAP with GTPase domain, ankyrin repeat and PH domain 7 [Source:HGNC Symbol;Acc:23465]
993	ENSG00000264204	363.5109186	2.5211154	0.200150125	4.18E-35	AGAP7	ArfGAP with GTPase domain, ankyrin repeat and PH domain 7 [Source:HGNC Symbol;Acc:23465]
994	ENSG00000064012	5534.166211	0.866037728	0.06875841	4.22E-35	CASP8	caspase 8, apoptosis-related cysteine peptidase [Source:HGNC Symbol;Acc:1509]
995	ENSG00000028277	1357.734634	1.410922173	0.112090803	4.66E-35	POU2F2	POU class 2 homeobox 2 [Source:HGNC Symbol;Acc:9213]
996	ENSG00000198901	859.3234714	-1.790480542	0.142383512	5.44E-35	PRC1	protein regulator of cytokinesis 1 [Source:HGNC Symbol;Acc:9341]
997	ENSG00000180509	506.6134129	-1.899069277	0.151329517	7.53E-35	KCNE1	potassium voltage-gated channel, Isk-related family, member 1 [Source:HGNC Symbol;Acc:6240]
998	ENSG00000106772	378.4563599	-2.146313092	0.17106822	7.79E-35	PRUNE2	prune homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:25209]
999	ENSG00000187116	1754.239419	-1.0379955	0.082819638	9.20E-35	LILRA5	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 5 [Source:HGNC Symbol;Acc:16309]
1000	ENSG00000197262	307.7946435	2.813361365	0.224485949	9.28E-35	CCL4L2	chemokine (C-C motif) ligand 4-like 2 [Source:HGNC Symbol;Acc:24066]
1001	ENSG00000172081	8345.011613	0.714464117	0.057041413	1.01E-34	MOB3A	MOB kinase activator 3A [Source:HGNC Symbol;Acc:29802]
1002	ENSG00000134531	147.0693615	4.718870326	0.376773839	1.03E-34	EMP1	epithelial membrane protein 1 [Source:HGNC Symbol;Acc:3333]

1003	ENSG00000262800	1755.234004	-1.037687095	0.082859982	1.04E-34	LILRA5	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 5 [Source:HGNC Symbol;Acc:16309]
1004	ENSG00000119321	4066.469127	-0.782260635	0.062464307	1.04E-34	FKBP15	FK506 binding protein 15, 133kDa [Source:HGNC Symbol;Acc:23397]
1005	ENSG00000144283	1157.387911	-1.459251024	0.116602771	1.15E-34	PKP4	plakophilin 4 [Source:HGNC Symbol;Acc:9026]
1006	ENSG00000155363	924.2368192	1.540244202	0.123178015	1.32E-34	MOV10	Mov10, Moloney leukemia virus 10, homolog (mouse) [Source:HGNC Symbol;Acc:7200]
1007	ENSG00000197943	4418.565827	-0.88540871	0.07080949	1.32E-34	PLCG2	phospholipase C, gamma 2 (phosphatidylinositol-specific) [Source:HGNC Symbol;Acc:9066]
1008	ENSG00000120885	457.1294933	2.058330724	0.164651227	1.37E-34	CLU	clusterin [Source:HGNC Symbol;Acc:2095]
1009	ENSG00000099246	2549.993397	-0.961753524	0.076949178	1.41E-34	RAB18	RAB18, member RAS oncogene family [Source:HGNC Symbol;Acc:14244]
1010	ENSG00000189343	2550.616012	0.917561639	0.073430377	1.46E-34	RPS2P46	ribosomal protein S2 pseudogene 46 [Source:HGNC Symbol;Acc:35839]
1011	ENSG00000187838	503.8947217	2.00522636	0.160661102	1.75E-34	TMEM256-PLSCR3	TMEM256-PLSCR3 readthrough (NMD candidate) [Source:HGNC Symbol;Acc:49186]
1012	ENSG00000164251	875.0280728	1.582964763	0.126909516	1.93E-34	F2RL1	coagulation factor II (thrombin) receptor-like 1 [Source:HGNC Symbol;Acc:3538]
1013	ENSG00000139289	333.2315225	-2.303346315	0.18474461	2.07E-34	PHLDA1	pleckstrin homology-like domain, family A, member 1 [Source:HGNC Symbol;Acc:8933]
1014	ENSG00000268916	100.9172375	5.715524112	0.458562698	2.17E-34	CSAG2	Homo sapiens CSAG family, member 2 (CSAG2), transcript variant 2, mRNA. [Source:RefSeq mRNA;Acc:NM_004909]
1015	ENSG00000089693	4098.142088	-0.811677482	0.065182303	2.50E-34	MLF2	myeloid leukemia factor 2 [Source:HGNC Symbol;Acc:7126]
1016	ENSG00000236882	583.3262765	-1.715331319	0.137915548	3.01E-34	C5orf27	chromosome 5 open reading frame 27 [Source:HGNC Symbol;Acc:24687]
1017	ENSG00000163606	513.493676	-1.857915369	0.149603429	3.80E-34	CD200R1	CD200 receptor 1 [Source:HGNC Symbol;Acc:24235]
1018	ENSG00000120690	3107.515117	0.915049693	0.073719753	4.11E-34	ELF1	E74-like factor 1 (ets domain transcription factor) [Source:HGNC Symbol;Acc:3316]
1019	ENSG00000147905	740.0069774	1.622542452	0.130740924	4.22E-34	ZCCHC7	zinc finger, CCHC domain containing 7 [Source:HGNC Symbol;Acc:26209]
1020	ENSG00000099194	1231.729108	-1.291080937	0.104040888	4.27E-34	SCD	stearoyl-CoA desaturase (delta-9-desaturase) [Source:HGNC Symbol;Acc:10571]
1021	ENSG00000115129	569.6628695	-1.827962303	0.147412581	4.77E-34	TP53I3	tumor protein p53 inducible protein 3 [Source:HGNC Symbol;Acc:19373]
1022	ENSG00000152784	506.1210919	2.607897066	0.210408565	5.13E-34	PRDM8	PR domain containing 8 [Source:HGNC Symbol;Acc:13993]
1023	ENSG00000156804	243.6614804	3.061475388	0.247068646	5.34E-34	FBXO32	F-box protein 32 [Source:HGNC Symbol;Acc:16731]
1024	ENSG00000159618	443.8993005	2.542484024	0.205313038	5.87E-34	GPR114	G protein-coupled receptor 114 [Source:HGNC Symbol;Acc:19010]
1025	ENSG00000272414	572.4791385	-1.725435109	0.139366668	6.08E-34	FAM47E-STBD1	uncharacterized protein LOC100631383 [Source:RefSeq peptide;Acc:NP_001229868]
1026	ENSG00000105612	580.6255493	1.891476394	0.152789814	6.15E-34	DNASE2	deoxyribonuclease II, lysosomal [Source:HGNC Symbol;Acc:2960]
1027	ENSG00000142185	1455.990752	-1.831318842	0.147991	6.54E-34	TRPM2	transient receptor potential cation channel, subfamily M, member 2 [Source:HGNC Symbol;Acc:12339]
1028	ENSG00000108798	388.9841901	2.363328204	0.191072625	7.02E-34	ABI3	ABI family, member 3 [Source:HGNC Symbol;Acc:29859]
1029	ENSG00000182670	2071.423374	1.073984702	0.086907683	8.04E-34	TTC3	tetratricopeptide repeat domain 3 [Source:HGNC Symbol;Acc:12393]
1030	ENSG00000185585	150.7118265	3.675556334	0.297688349	9.19E-34	OLFML2A	olfactomedin-like 2A [Source:HGNC Symbol;Acc:27270]

1031	ENSG00000088832	9311.992671	-0.718821688	0.058228053	9.42E-34	FKBP1A	FK506 binding protein 1A, 12kDa [Source:HGNC Symbol;Acc:3711]
1032	ENSG00000196576	674.1083747	2.070127679	0.167781975	1.02E-33	PLXNB2	plexin B2 [Source:HGNC Symbol;Acc:9104]
1033	ENSG00000096996	523.9707579	1.945909533	0.15771828	1.03E-33	IL12RB1	interleukin 12 receptor, beta 1 [Source:HGNC Symbol;Acc:5971]
1034	ENSG00000070614	2541.956309	-1.121637924	0.090948162	1.09E-33	NDST1	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 1 [Source:HGNC Symbol;Acc:7680]
1035	ENSG00000152795	5888.670747	0.7953792	0.06459463	1.39E-33	HNRNPDL	heterogeneous nuclear ribonucleoprotein D-like [Source:HGNC Symbol;Acc:5037]
1036	ENSG0000004939	614.5264647	-1.715207857	0.139316127	1.42E-33	SLC4A1	solute carrier family 4 (anion exchanger), member 1 (Diego blood group) [Source:HGNC Symbol;Acc:11027]
1037	ENSG00000122642	598.9801563	-1.864129463	0.151677232	1.85E-33	FKBP9	FK506 binding protein 9, 63 kDa [Source:HGNC Symbol;Acc:3725]
1038	ENSG00000100346	239.8702896	3.159663612	0.257144227	1.91E-33	CACNA1I	calcium channel, voltage-dependent, T type, alpha 1I subunit [Source:HGNC Symbol;Acc:1396]
1039	ENSG00000169403	7360.232413	0.653935907	0.053221935	1.92E-33	PTAFR	platelet-activating factor receptor [Source:HGNC Symbol;Acc:9582]
1040	ENSG00000160408	766.0835067	1.76469995	0.143709389	2.10E-33	ST6GALNAC6	ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 6 [Source:HGNC Symbol;Acc:23364]
1041	ENSG00000197535	3277.556807	-0.894370489	0.072838576	2.12E-33	MYO5A	myosin VA (heavy chain 12, myoxin) [Source:HGNC Symbol;Acc:7602]
1042	ENSG00000265681	11872.62881	0.648628452	0.052836423	2.18E-33	RPL17	ribosomal protein L17 [Source:HGNC Symbol;Acc:10307]
1043	ENSG00000111696	721.5743456	-1.721404839	0.140223989	2.18E-33	NT5DC3	5'-nucleotidase domain containing 3 [Source:HGNC Symbol;Acc:30826]
1044	ENSG00000170312	343.6273131	-2.214555254	0.180396154	2.18E-33	CDK1	cyclin-dependent kinase 1 [Source:HGNC Symbol;Acc:1722]
1045	ENSG00000172197	1467.94942	-1.085263975	0.088428534	2.27E-33	MBOAT1	membrane bound O-acyltransferase domain containing 1 [Source:HGNC Symbol;Acc:21579]
1046	ENSG00000148841	2913.27207	-0.850272816	0.069309606	2.41E-33	ITPRIP	inositol 1,4,5-trisphosphate receptor interacting protein [Source:HGNC Symbol;Acc:29370]
1047	ENSG00000116251	5922.353766	0.738824722	0.060270778	2.71E-33	RPL22	ribosomal protein L22 [Source:HGNC Symbol;Acc:10315]
1048	ENSG00000167105	407.5816643	-2.15120268	0.175507671	2.75E-33	TMEM92	transmembrane protein 92 [Source:HGNC Symbol;Acc:26579]
1049	ENSG00000087074	4140.481584	-0.749691647	0.061173978	2.82E-33	PPP1R15A	protein phosphatase 1, regulatory subunit 15A [Source:HGNC Symbol;Acc:14375]
1050	ENSG00000079246	7153.902024	-0.722102898	0.058970864	3.18E-33	XRCC5	X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining) [Source:HGNC Symbol;Acc:12833]
1051	ENSG00000084110	3523.146918	0.871953538	0.07131961	4.02E-33	HAL	histidine ammonia-lyase [Source:HGNC Symbol;Acc:4806]
1052	ENSG00000079805	6601.659324	-0.830819512	0.067962403	4.08E-33	DNM2	dynamitin 2 [Source:HGNC Symbol;Acc:2974]
1053	ENSG00000124508	675.7307063	1.756503395	0.143698493	4.14E-33	BTN2A2	butyrophilin, subfamily 2, member A2 [Source:HGNC Symbol;Acc:1137]
1054	ENSG00000243716	7299.559541	-0.671279771	0.054943144	4.44E-33	NPIP5	nuclear pore complex interacting protein family, member B5 [Source:HGNC Symbol;Acc:37233]
1055	ENSG00000008513	2285.183321	0.986311049	0.080739287	4.53E-33	ST3GAL1	ST3 beta-galactoside alpha-2,3-sialyltransferase 1 [Source:HGNC Symbol;Acc:10862]
1056	ENSG00000129467	882.5468226	-1.461529397	0.119741594	5.14E-33	ADCY4	adenylate cyclase 4 [Source:HGNC Symbol;Acc:235]
1057	ENSG00000112773	2999.586709	-0.859492787	0.0704192	5.15E-33	FAM46A	family with sequence similarity 46, member A [Source:HGNC Symbol;Acc:18345]
1058	ENSG00000096060	1825.61583	1.155899415	0.09473182	5.38E-33	FKBP5	FK506 binding protein 5 [Source:HGNC Symbol;Acc:3721]

1059	ENSG00000160211	5145.271784	-1.075674617	0.08826954	6.50E-33	G6PD	glucose-6-phosphate dehydrogenase [Source:HGNC Symbol;Acc:4057]
1060	ENSG00000151135	379.9870477	2.109003365	0.173162592	7.07E-33	C12orf23	chromosome 12 open reading frame 23 [Source:HGNC Symbol;Acc:28281]
1061	ENSG00000102837	962.7672092	-1.319590959	0.108410276	7.71E-33	OLFM4	olfactomedin 4 [Source:HGNC Symbol;Acc:17190]
1062	ENSG00000188636	346.2756889	2.256403833	0.185470291	8.33E-33	LDOC1L	leucine zipper, down-regulated in cancer 1-like [Source:HGNC Symbol;Acc:13343]
1063	ENSG00000114021	1460.089572	-1.14419449	0.094069443	8.58E-33	NIT2	nitrilase family, member 2 [Source:HGNC Symbol;Acc:29878]
1064	ENSG00000171314	5641.687471	-0.732892482	0.060280122	9.14E-33	PGAM1	phosphoglycerate mutase 1 (brain) [Source:HGNC Symbol;Acc:8888]
1065	ENSG00000065809	6113.218719	-0.679647754	0.055916559	9.52E-33	FAM107B	family with sequence similarity 107, member B [Source:HGNC Symbol;Acc:23726]
1066	ENSG00000169714	6663.645607	0.688802284	0.056693408	1.01E-32	CNBP	CCHC-type zinc finger, nucleic acid binding protein [Source:HGNC Symbol;Acc:13164]
1067	ENSG00000163519	277.558613	2.731758664	0.224876724	1.03E-32	TRAT1	T cell receptor associated transmembrane adaptor 1 [Source:HGNC Symbol;Acc:30698]
1068	ENSG00000262418	13102.19111	0.602627663	0.049615869	1.06E-32	PTPRC	protein tyrosine phosphatase, receptor type, C [Source:HGNC Symbol;Acc:9666]
1069	ENSG00000166147	433.9902109	-2.073865239	0.170963824	1.28E-32	FBN1	fibrillin 1 [Source:HGNC Symbol;Acc:3603]
1070	ENSG00000143384	34255.72346	0.565081609	0.046628688	1.47E-32	MCL1	myeloid cell leukemia sequence 1 (BCL2-related) [Source:HGNC Symbol;Acc:6943]
1071	ENSG00000132464	185.7926657	3.233246953	0.266832128	1.50E-32	ENAM	enamelin [Source:HGNC Symbol;Acc:3344]
1072	ENSG00000156970	414.746451	-2.01956412	0.166677302	1.51E-32	BUB1B	BUB1 mitotic checkpoint serine/threonine kinase B [Source:HGNC Symbol;Acc:1149]
1073	ENSG00000119900	10865.54076	0.743373396	0.061384323	1.63E-32	OGFRL1	opioid growth factor receptor-like 1 [Source:HGNC Symbol;Acc:21378]
1074	ENSG00000162444	1356.368456	-1.138351166	0.094138845	2.02E-32	RBP7	retinol binding protein 7, cellular [Source:HGNC Symbol;Acc:30316]
1075	ENSG00000071564	954.2505561	1.340429998	0.111089187	2.77E-32	TCF3	transcription factor 3 [Source:HGNC Symbol;Acc:11633]
1076	ENSG00000180316	331.212968	-2.254632503	0.186945587	2.97E-32	PNPLA1	patatin-like phospholipase domain containing 1 [Source:HGNC Symbol;Acc:21246]
1077	ENSG00000196656	5454.038009	0.679435715	0.056348562	3.07E-32	AC004057.1	
1078	ENSG00000169174	128.0580809	-3.94442174	0.327182912	3.14E-32	PCSK9	proprotein convertase subtilisin/kexin type 9 [Source:HGNC Symbol;Acc:20001]
1079	ENSG00000156026	1675.750289	-1.238295484	0.102771913	3.41E-32	MCU	mitochondrial calcium uniporter [Source:HGNC Symbol;Acc:23526]
1080	ENSG00000100342	931.6942569	1.484814531	0.123238171	3.43E-32	APOL1	apolipoprotein L, 1 [Source:HGNC Symbol;Acc:618]
1081	ENSG00000120738	2644.166759	-0.930239206	0.077228967	3.56E-32	EGR1	early growth response 1 [Source:HGNC Symbol;Acc:3238]
1082	ENSG00000171914	262.4523868	-2.646116057	0.219766377	3.76E-32	TLN2	talin 2 [Source:HGNC Symbol;Acc:15447]
1083	ENSG00000111666	1594.626891	-1.291039806	0.107254226	3.91E-32	CHPT1	choline phosphotransferase 1 [Source:HGNC Symbol;Acc:17852]
1084	ENSG00000101152	4053.752558	-0.896884233	0.074544107	4.19E-32	DNAJC5	DnaJ (Hsp40) homolog, subfamily C, member 5 [Source:HGNC Symbol;Acc:16235]
1085	ENSG00000197635	267.8445193	2.698402382	0.224335803	4.35E-32	DPP4	dipeptidyl-peptidase 4 [Source:HGNC Symbol;Acc:3009]
1086	ENSG00000177469	218.6341554	-2.792144881	0.232365167	5.03E-32	PTRF	polymerase I and transcript release factor [Source:HGNC Symbol;Acc:9688]

1087	ENSG00000058063	3806.169945	-0.857470213	0.071386126	5.31E-32	ATP11B	ATPase, class VI, type 11B [Source:HGNC Symbol;Acc:13553]
1088	ENSG00000168497	340.1328732	2.28501942	0.190850874	8.49E-32	SDPR	serum deprivation response [Source:HGNC Symbol;Acc:10690]
1089	ENSG00000100226	2941.244623	-1.298331382	0.108554507	9.87E-32	GTPBP1	GTP binding protein 1 [Source:HGNC Symbol;Acc:4669]
1090	ENSG00000153666	1927.780364	-1.007454018	0.084293895	1.09E-31	GOLGA8I	golgin A8 family, member I [Source:HGNC Symbol;Acc:26660]
1091	ENSG00000070404	587.9175329	-1.740033004	0.145594556	1.10E-31	FSTL3	folliculin-like 3 (secreted glycoprotein) [Source:HGNC Symbol;Acc:3973]
1092	ENSG00000147689	169.9893951	-3.338740578	0.279389125	1.11E-31	FAM83A	family with sequence similarity 83, member A [Source:HGNC Symbol;Acc:28210]
1093	ENSG00000044574	5539.390354	-0.707296094	0.059196739	1.14E-31	HSPA5	heat shock 70kDa protein 5 (glucose-regulated protein, 78kDa) [Source:HGNC Symbol;Acc:5238]
1094	ENSG00000035862	4454.792866	-0.727045725	0.060850683	1.14E-31	TIMP2	TIMP metalloproteinase inhibitor 2 [Source:HGNC Symbol;Acc:11821]
1095	ENSG00000211899	1015.453837	1.892562352	0.15847437	1.22E-31	IGHM	immunoglobulin heavy constant mu [Source:HGNC Symbol;Acc:5541]
1096	ENSG00000115525	382.418529	2.112523882	0.17700888	1.33E-31	ST3GALS5	ST3 beta-galactoside alpha-2,3-sialyltransferase 5 [Source:HGNC Symbol;Acc:10872]
1097	ENSG00000136999	716.3618161	1.687323498	0.14143854	1.41E-31	NOV	nephroblastoma overexpressed [Source:HGNC Symbol;Acc:7885]
1098	ENSG00000206190	276.0938247	2.603155468	0.218211946	1.42E-31	ATP10A	ATPase, class V, type 10A [Source:HGNC Symbol;Acc:13542]
1099	ENSG00000114423	907.6742373	1.359628872	0.114213772	1.92E-31	CBLB	Cbl proto-oncogene B, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:1542]
1100	ENSG00000101916	2893.92181	0.88723513	0.074543818	1.96E-31	TLR8	toll-like receptor 8 [Source:HGNC Symbol;Acc:15632]
1101	ENSG00000150593	3184.722219	0.86804727	0.072990597	2.20E-31	PDCD4	programmed cell death 4 (neoplastic transformation inhibitor) [Source:HGNC Symbol;Acc:8763]
1102	ENSG00000109805	360.2096695	-2.110496208	0.177657144	2.57E-31	NCAPG	non-SMC condensin I complex, subunit G [Source:HGNC Symbol;Acc:24304]
1103	ENSG00000120910	577.0575981	1.787929908	0.150551707	2.68E-31	PPP3CC	protein phosphatase 3, catalytic subunit, gamma isozyme [Source:HGNC Symbol;Acc:9316]
1104	ENSG00000139436	6565.086605	-0.686632248	0.057841683	2.84E-31	GIT2	G protein-coupled receptor kinase interacting ArfGAP 2 [Source:HGNC Symbol;Acc:4273]
1105	ENSG00000163739	1023.772337	-1.252339227	0.105513978	2.91E-31	CXCL1	chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha) [Source:HGNC Symbol;Acc:4602]
1106	ENSG00000166888	18967.27421	0.519738441	0.043816538	3.17E-31	STAT6	signal transducer and activator of transcription 6, interleukin-4 induced [Source:HGNC Symbol;Acc:11368]
1107	ENSG00000143167	144.4267323	3.815642425	0.321687728	3.18E-31	GPA33	glycoprotein A33 (transmembrane) [Source:HGNC Symbol;Acc:4445]
1108	ENSG00000002834	13336.81699	-0.532992978	0.044945993	3.28E-31	LASP1	LIM and SH3 protein 1 [Source:HGNC Symbol;Acc:6513]
1109	ENSG00000148200	621.6764885	-1.564019862	0.131900593	3.32E-31	NR6A1	nuclear receptor subfamily 6, group A, member 1 [Source:HGNC Symbol;Acc:7985]
1110	ENSG00000156265	361.5906834	2.118079527	0.178646257	3.37E-31	MAP3K7CL	MAP3K7 C-terminal like [Source:HGNC Symbol;Acc:16457]
1111	ENSG00000167642	1806.63186	-1.021038556	0.086126751	3.41E-31	SPINT2	serine peptidase inhibitor, Kunitz type, 2 [Source:HGNC Symbol;Acc:11247]
1112	ENSG00000140403	679.921513	-1.553228302	0.131082876	3.66E-31	DNAJA4	DnaJ (Hsp40) homolog, subfamily A, member 4 [Source:HGNC Symbol;Acc:14885]
1113	ENSG00000135476	382.9909536	-2.015168034	0.17022023	4.15E-31	ESPL1	extra spindle pole bodies homolog 1 (S. cerevisiae) [Source:HGNC Symbol;Acc:16856]
1114	ENSG00000070961	1549.273866	1.410919035	0.119231975	4.41E-31	ATP2B1	ATPase, Ca <sup>++</sup> transporting, plasma membrane 1 [Source:HGNC Symbol;Acc:814]

1115	ENSG00000183049	2453.482106	0.892152325	0.075410414	4.55E-31	CAMK1D	calcium/calmodulin-dependent protein kinase ID [Source:HGNC Symbol;Acc:19341]
1116	ENSG00000206561	292.4345525	2.36157393	0.199890588	5.52E-31	COLQ	collagen-like tail subunit (single strand of homotrimer) of asymmetric acetylcholinesterase [Source:HGNC Symbol;Acc:2226]
1117	ENSG00000177685	630.5205107	-1.839051965	0.1558827	6.72E-31	EFCAB4A	EF-hand calcium binding domain 4A [Source:HGNC Symbol;Acc:28703]
1118	ENSG00000172466	2415.553882	1.025757591	0.086955443	6.82E-31	ZNF24	zinc finger protein 24 [Source:HGNC Symbol;Acc:13032]
1119	ENSG00000105374	5874.924296	0.749528017	0.063574896	7.38E-31	NKG7	natural killer cell group 7 sequence [Source:HGNC Symbol;Acc:7830]
1120	ENSG00000079739	1263.619844	-1.170849957	0.099350422	7.79E-31	PGM1	phosphoglucomutase 1 [Source:HGNC Symbol;Acc:8905]
1121	ENSG00000091972	226.4705405	3.056843735	0.259577127	8.64E-31	CD200	CD200 molecule [Source:HGNC Symbol;Acc:7203]
1122	ENSG00000185187	835.3044613	1.569163939	0.133383947	9.95E-31	SIGIRR	single immunoglobulin and toll-interleukin 1 receptor (TIR) domain [Source:HGNC Symbol;Acc:30575]
1123	ENSG00000196371	2152.342689	-0.941755478	0.080059839	1.01E-30	FUT4	fucosyltransferase 4 (alpha (1,3) fucosyltransferase, myeloid-specific) [Source:HGNC Symbol;Acc:4015]
1124	ENSG00000005844	11562.98765	0.578253864	0.049176145	1.06E-30	ITGAL	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide) [Source:HGNC Symbol;Acc:6148]
1125	ENSG00000130222	226.0562598	-2.741902705	0.233200202	1.07E-30	GADD45G	growth arrest and DNA-damage-inducible, gamma [Source:HGNC Symbol;Acc:4097]
1126	ENSG00000012124	858.2585122	1.590688314	0.135381972	1.18E-30	CD22	CD22 molecule [Source:HGNC Symbol;Acc:1643]
1127	ENSG00000150637	262.9717228	2.911869909	0.24804399	1.33E-30	CD226	CD226 molecule [Source:HGNC Symbol;Acc:16961]
1128	ENSG00000120889	3463.708693	1.033683172	0.088167894	1.59E-30	TNFRSF10B	tumor necrosis factor receptor superfamily, member 10b [Source:HGNC Symbol;Acc:11905]
1129	ENSG00000135776	774.7934865	-1.42828334	0.121902699	1.74E-30	ABCB10	ATP-binding cassette, sub-family B (MDR/TAP), member 10 [Source:HGNC Symbol;Acc:41]
1130	ENSG00000177189	3079.974463	0.820329525	0.070230851	2.66E-30	RPS6KA3	ribosomal protein S6 kinase, 90kDa, polypeptide 3 [Source:HGNC Symbol;Acc:10432]
1131	ENSG00000141232	1524.828556	-1.059604834	0.090866179	3.33E-30	TOB1	transducer of ERBB2, 1 [Source:HGNC Symbol;Acc:11979]
1132	ENSG00000235162	261.423355	2.63270547	0.22584479	3.49E-30	C12orf75	chromosome 12 open reading frame 75 [Source:HGNC Symbol;Acc:35164]
1133	ENSG00000104964	3865.34663	2.049078871	0.176010359	4.17E-30	AES	amino-terminal enhancer of split [Source:HGNC Symbol;Acc:307]
1134	ENSG00000140030	739.6545586	1.483300387	0.127436382	4.28E-30	GPR65	G protein-coupled receptor 65 [Source:HGNC Symbol;Acc:4517]
1135	ENSG00000024526	174.978159	-3.049701619	0.262170717	4.64E-30	DEPDC1	DEP domain containing 1 [Source:HGNC Symbol;Acc:22949]
1136	ENSG00000119121	1050.400309	-1.298396003	0.111726541	5.30E-30	TRPM6	transient receptor potential cation channel, subfamily M, member 6 [Source:HGNC Symbol;Acc:17995]
1137	ENSG00000273173	572.2661133	1.83245384	0.157797113	5.85E-30	SNURF	SNRPN upstream reading frame protein [Source:UniProtKB/Swiss-Prot;Acc:Q9Y675]
1138	ENSG00000163541	1705.648753	-1.029447203	0.088705581	6.38E-30	SUCLG1	succinate-CoA ligase, alpha subunit [Source:HGNC Symbol;Acc:11449]
1139	ENSG00000064115	1312.695716	-1.1098272	0.095640677	6.45E-30	TM7SF3	transmembrane 7 superfamily member 3 [Source:HGNC Symbol;Acc:23049]
1140	ENSG00000135451	505.053601	-2.232250377	0.192866034	9.15E-30	TROAP	trophinin associated protein [Source:HGNC Symbol;Acc:12327]
1141	ENSG00000161800	597.3731174	-1.639685881	0.141782152	1.02E-29	RACGAP1	Rac GTPase activating protein 1 [Source:HGNC Symbol;Acc:9804]
1142	ENSG00000178999	391.4625784	-1.915806492	0.165671657	1.03E-29	AURKB	aurora kinase B [Source:HGNC Symbol;Acc:11390]

1143	ENSG00000102349	275.5718988	2.334455649	0.202098392	1.19E-29	KLF8	Kruppel-like factor 8 [Source:HGNC Symbol;Acc:6351]
1144	ENSG00000119335	4626.770376	0.745088582	0.064529164	1.26E-29	SET	SET nuclear oncogene [Source:HGNC Symbol;Acc:10760]
1145	ENSG00000135407	702.3320904	1.51552981	0.131256824	1.26E-29	AVIL	advillin [Source:HGNC Symbol;Acc:14188]
1146	ENSG00000163737	160.6980136	3.322035164	0.287735301	1.27E-29	PF4	platelet factor 4 [Source:HGNC Symbol;Acc:8861]
1147	ENSG00000161011	4067.500691	0.875828815	0.07587367	1.30E-29	SQSTM1	sequestosome 1 [Source:HGNC Symbol;Acc:11280]
1148	ENSG00000125538	661.0872396	1.592774546	0.138075868	1.42E-29	IL1B	interleukin 1, beta [Source:HGNC Symbol;Acc:5992]
1149	ENSG00000086288	1015.444746	-1.205857811	0.104552269	1.46E-29	NME8	NME/NM23 family member 8 [Source:HGNC Symbol;Acc:16473]
1150	ENSG00000005020	3347.124851	-0.785280844	0.068105	1.51E-29	SKAP2	src kinase associated phosphoprotein 2 [Source:HGNC Symbol;Acc:15687]
1151	ENSG00000011422	2372.624016	-0.884833784	0.076806433	1.69E-29	PLAUR	plasminogen activator, urokinase receptor [Source:HGNC Symbol;Acc:9053]
1152	ENSG00000154767	1398.392674	1.148971272	0.099863049	2.01E-29	XPC	xeroderma pigmentosum, complementation group C [Source:HGNC Symbol;Acc:12816]
1153	ENSG00000162892	363.1886252	2.49498984	0.216982371	2.18E-29	IL24	interleukin 24 [Source:HGNC Symbol;Acc:11346]
1154	ENSG00000122188	357.8144016	2.210750469	0.192276834	2.20E-29	LAX1	lymphocyte transmembrane adaptor 1 [Source:HGNC Symbol;Acc:26005]
1155	ENSG00000259207	233.4548106	2.783168848	0.242069601	2.20E-29	ITGB3	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61) [Source:HGNC Symbol;Acc:6156]
1156	ENSG00000143771	1229.65879	-1.182419056	0.102843926	2.21E-29	CNIH4	cornichon family AMPA receptor auxiliary protein 4 [Source:HGNC Symbol;Acc:25013]
1157	ENSG00000080573	205.2478591	3.163591261	0.275269218	2.32E-29	COL5A3	collagen, type V, alpha 3 [Source:HGNC Symbol;Acc:14864]
1158	ENSG00000153317	3850.899509	-0.743579498	0.064711059	2.37E-29	ASAP1	ArfGAP with SH3 domain, ankyrin repeat and PH domain 1 [Source:HGNC Symbol;Acc:2720]
1159	ENSG00000091490	768.7791669	1.504034951	0.13091167	2.42E-29	SEL1L3	sel-1 suppressor of lin-12-like 3 (C. elegans) [Source:HGNC Symbol;Acc:29108]
1160	ENSG00000156587	1551.781256	1.041795141	0.090687997	2.45E-29	UBE2L6	ubiquitin-conjugating enzyme E2L 6 [Source:HGNC Symbol;Acc:12490]
1161	ENSG00000127920	133.5880822	3.707881563	0.322820786	2.50E-29	GNG11	guanine nucleotide binding protein (G protein), gamma 11 [Source:HGNC Symbol;Acc:4403]
1162	ENSG00000143643	1702.852634	-1.033319551	0.089964529	2.50E-29	TTC13	tetratricopeptide repeat domain 13 [Source:HGNC Symbol;Acc:26204]
1163	ENSG00000197629	7366.444909	0.625137976	0.054493503	2.94E-29	MPEG1	macrophage expressed 1 [Source:HGNC Symbol;Acc:29619]
1164	ENSG00000117602	1237.104224	1.237975126	0.107916952	2.95E-29	RCAN3	RCAN family member 3 [Source:HGNC Symbol;Acc:3042]
1165	ENSG00000160932	714.1644169	1.622383227	0.141536878	3.27E-29	LY6E	lymphocyte antigen 6 complex, locus E [Source:HGNC Symbol;Acc:6727]
1166	ENSG00000167553	954.0070911	-1.274122354	0.111199687	3.44E-29	TUBA1C	tubulin, alpha 1c [Source:HGNC Symbol;Acc:20768]
1167	ENSG00000144893	688.7919227	-1.644918685	0.143664818	3.78E-29	MED12L	mediator complex subunit 12-like [Source:HGNC Symbol;Acc:16050]
1168	ENSG00000118276	277.2031216	2.367799096	0.207001159	4.30E-29	B4GALT6	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 6 [Source:HGNC Symbol;Acc:929]
1169	ENSG00000116667	361.2803306	2.265108106	0.198133153	4.62E-29	C1orf21	chromosome 1 open reading frame 21 [Source:HGNC Symbol;Acc:15494]
1170	ENSG00000168961	2797.3639	0.891360151	0.077986691	4.76E-29	LGALS9	lectin, galactoside-binding, soluble, 9 [Source:HGNC Symbol;Acc:6570]



1171	ENSG00000157551	4983.556969	0.704343545	0.06168726	5.43E-29	KCNJ15	potassium inwardly-rectifying channel, subfamily J, member 15 [Source:HGNC Symbol;Acc:6261]
1172	ENSG00000067836	1468.713583	-1.219772477	0.106892853	5.87E-29	ROGDI	rogdi homolog (Drosophila) [Source:HGNC Symbol;Acc:29478]
1173	ENSG00000118707	511.2513215	1.726240556	0.1513316	6.15E-29	TGIF2	TGFB-induced factor homeobox 2 [Source:HGNC Symbol;Acc:15764]
1174	ENSG00000105835	17876.7273	0.509217235	0.044662868	6.56E-29	NAMPT	nicotinamide phosphoribosyltransferase [Source:HGNC Symbol;Acc:30092]
1175	ENSG00000198826	443.5439692	-1.993174874	0.175082329	7.98E-29	ARHGAP11A	Rho GTPase activating protein 11A [Source:HGNC Symbol;Acc:15783]
1176	ENSG00000125633	2010.655966	-0.944841534	0.083013866	8.21E-29	CCDC93	coiled-coil domain containing 93 [Source:HGNC Symbol;Acc:25611]
1177	ENSG00000138744	787.0504498	1.468664152	0.129070203	8.48E-29	NAAA	N-acylethanolamine acid amidase [Source:HGNC Symbol;Acc:736]
1178	ENSG00000229644	724.8793252	1.50366495	0.132198933	8.92E-29	NAMPTL	nicotinamide phosphoribosyltransferase-like [Source:HGNC Symbol;Acc:17633]
1179	ENSG00000090776	160.4384196	3.168525423	0.278588021	8.99E-29	EFNB1	ephrin-B1 [Source:HGNC Symbol;Acc:3226]
1180	ENSG00000108828	2024.331201	-1.238910377	0.108955072	9.27E-29	VAT1	vesicle amine transport 1 [Source:HGNC Symbol;Acc:16919]
1181	ENSG00000262655	127.4581237	4.128725279	0.363130901	9.37E-29	SPON1	spondin 1, extracellular matrix protein [Source:HGNC Symbol;Acc:11252]
1182	ENSG00000115268	3360.154339	0.865535205	0.076190399	1.05E-28	RPS15	ribosomal protein S15 [Source:HGNC Symbol;Acc:10388]
1183	ENSG00000111186	342.6405064	-2.126084145	0.187208496	1.09E-28	WNT5B	wingless-type MMTV integration site family, member 5B [Source:HGNC Symbol;Acc:16265]
1184	ENSG00000256660	1187.135254	-1.162198839	0.102343935	1.10E-28	CLEC12B	C-type lectin domain family 12, member B [Source:HGNC Symbol;Acc:31966]
1185	ENSG00000070444	1488.167021	-1.080296319	0.095184211	1.18E-28	MNT	MAX network transcriptional repressor [Source:HGNC Symbol;Acc:7188]
1186	ENSG00000135631	165.3449426	3.462740334	0.305396864	1.33E-28	RAB11FIP5	RAB11 family interacting protein 5 (class I) [Source:HGNC Symbol;Acc:24845]
1187	ENSG00000101057	453.5631957	-1.895116432	0.16715274	1.35E-28	MYBL2	v-myb avian myeloblastosis viral oncogene homolog-like 2 [Source:HGNC Symbol;Acc:7548]
1188	ENSG00000122952	495.8656779	-1.740913909	0.153576401	1.37E-28	ZWINT	ZW10 interacting kinetochore protein [Source:HGNC Symbol;Acc:13195]
1189	ENSG00000182263	655.3415971	-1.666345193	0.14703808	1.42E-28	FIGN	figetin [Source:HGNC Symbol;Acc:13285]
1190	ENSG00000172575	1187.490456	1.143820839	0.100978792	1.51E-28	RASGRP1	RAS guanyl releasing protein 1 (calcium and DAG-regulated) [Source:HGNC Symbol;Acc:9878]
1191	ENSG00000112294	345.1192673	2.161322378	0.190955872	1.67E-28	ALDH5A1	aldehyde dehydrogenase 5 family, member A1 [Source:HGNC Symbol;Acc:408]
1192	ENSG00000169418	97.45013084	4.676919016	0.413565286	1.86E-28	NPR1	natriuretic peptide receptor A/guanylate cyclase A (atrionatriuretic peptide receptor A) [Source:HGNC Symbol;Acc:7943]
1193	ENSG00000163399	3225.018058	0.813179004	0.071920424	1.91E-28	ATP1A1	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, alpha 1 polypeptide [Source:HGNC Symbol;Acc:799]
1194	ENSG00000198604	4833.761196	-1.055212045	0.093337856	1.94E-28	BAZ1A	bromodomain adjacent to zinc finger domain, 1A [Source:HGNC Symbol;Acc:960]
1195	ENSG00000261919	5966.556771	-0.722443029	0.063917844	1.99E-28	NCF1	neutrophil cytosolic factor 1 [Source:HGNC Symbol;Acc:7660]
1196	ENSG00000240303	1247.139033	-1.114141863	0.098641591	2.18E-28	ACAD11	acyl-CoA dehydrogenase family, member 11 [Source:HGNC Symbol;Acc:30211]
1197	ENSG00000058866	606.8767986	-1.844988622	0.163418416	2.30E-28	DGKG	diacylglycerol kinase, gamma 90kDa [Source:HGNC Symbol;Acc:2853]
1198	ENSG00000119402	3424.140627	-0.767467917	0.068000725	2.40E-28	FBXW2	F-box and WD repeat domain containing 2 [Source:HGNC Symbol;Acc:13608]

1199	ENSG00000058272	4922.5965	-0.736925959	0.065316438	2.50E-28	PPP1R12A	protein phosphatase 1, regulatory subunit 12A [Source:HGNC Symbol;Acc:7618]
1200	ENSG00000176788	6462.535066	-0.679491665	0.060248983	2.63E-28	BASP1	brain abundant, membrane attached signal protein 1 [Source:HGNC Symbol;Acc:957]
1201	ENSG00000104738	991.6962208	-1.293368824	0.114712496	2.72E-28	MCM4	minichromosome maintenance complex component 4 [Source:HGNC Symbol;Acc:6947]
1202	ENSG00000153250	4681.865915	-0.75728344	0.06717366	2.76E-28	RBMS1	RNA binding motif, single stranded interacting protein 1 [Source:HGNC Symbol;Acc:9907]
1203	ENSG00000134057	277.0866907	-2.300393761	0.204174268	2.98E-28	CCNB1	cyclin B1 [Source:HGNC Symbol;Acc:1579]
1204	ENSG00000267816	2845.859348	0.926946174	0.082331615	3.26E-28	IDS	iduronate 2-sulfatase [Source:HGNC Symbol;Acc:5389]
1205	ENSG00000143851	2204.492143	-0.909011197	0.080755559	3.35E-28	PTPN7	protein tyrosine phosphatase, non-receptor type 7 [Source:HGNC Symbol;Acc:9659]
1206	ENSG00000101082	470.4608039	1.811505985	0.161205955	4.15E-28	SLA2	Src-like-adaptor 2 [Source:HGNC Symbol;Acc:17329]
1207	ENSG00000113088	494.4971423	1.79764061	0.160008409	4.27E-28	GZMK	granzyme K (granzyme 3; tryptase II) [Source:HGNC Symbol;Acc:4711]
1208	ENSG00000007516	473.3120358	2.610717996	0.232404472	4.32E-28	BAIAP3	BAI1-associated protein 3 [Source:HGNC Symbol;Acc:948]
1209	ENSG00000174946	222.2137803	2.988642778	0.266078072	4.38E-28	GPR171	G protein-coupled receptor 171 [Source:HGNC Symbol;Acc:30057]
1210	ENSG00000120868	5619.092372	-0.675897618	0.060175138	4.38E-28	APAF1	apoptotic peptidase activating factor 1 [Source:HGNC Symbol;Acc:576]
1211	ENSG00000131981	1439.124262	-1.054404428	0.093886191	4.46E-28	LGALS3	lectin, galactoside-binding, soluble, 3 [Source:HGNC Symbol;Acc:6563]
1212	ENSG00000088387	521.5555216	2.004807904	0.178519607	4.48E-28	DOCK9	dedicator of cytokinesis 9 [Source:HGNC Symbol;Acc:14132]
1213	ENSG00000117616	10327.46561	-0.692145041	0.061684043	4.97E-28	C1orf63	chromosome 1 open reading frame 63 [Source:HGNC Symbol;Acc:25234]
1214	ENSG00000181631	7504.493865	0.688825401	0.061389778	4.98E-28	P2RY13	purinergic receptor P2Y, G-protein coupled, 13 [Source:HGNC Symbol;Acc:4537]
1215	ENSG00000140525	905.1451586	-1.40682879	0.125410572	5.14E-28	FANCI	Fanconi anemia, complementation group I [Source:HGNC Symbol;Acc:25568]
1216	ENSG00000119669	429.3842056	1.962371896	0.174967419	5.26E-28	IRF2BP1	interferon regulatory factor 2 binding protein-like [Source:HGNC Symbol;Acc:14282]
1217	ENSG00000175489	3245.198533	0.839546665	0.074857736	5.28E-28	LRRC25	leucine rich repeat containing 25 [Source:HGNC Symbol;Acc:29806]
1218	ENSG00000134516	7514.271965	-0.591829974	0.05282166	5.97E-28	DOCK2	dedicator of cytokinesis 2 [Source:HGNC Symbol;Acc:2988]
1219	ENSG00000033627	2754.987806	-0.917782168	0.081936746	6.18E-28	ATP6V0A1	ATPase, H <sup>+</sup> transporting, lysosomal V0 subunit a1 [Source:HGNC Symbol;Acc:865]
1220	ENSG00000184368	250.1064705	-2.604262611	0.232518343	6.24E-28	MAP7D2	MAP7 domain containing 2 [Source:HGNC Symbol;Acc:25899]
1221	ENSG00000122126	631.143068	-1.469022415	0.131279569	6.99E-28	OCRL	oculocerebrorenal syndrome of Lowe [Source:HGNC Symbol;Acc:8108]
1222	ENSG00000266820	1219.508999	-1.095679741	0.097941775	7.23E-28	RP13-104F24.1	
1223	ENSG00000242361	440.7726439	1.879089631	0.167986935	7.31E-28	HLA-DMA	major histocompatibility complex, class II, DM alpha [Source:HGNC Symbol;Acc:4934]
1224	ENSG00000143549	15423.6284	-0.504028859	0.04506037	7.33E-28	TPM3	tropomyosin 3 [Source:HGNC Symbol;Acc:12012]
1225	ENSG00000131669	3508.458169	1.09390429	0.097940403	8.83E-28	NINJ1	ninjurin 1 [Source:HGNC Symbol;Acc:7824]
1226	ENSG00000136942	4295.999456	0.842274169	0.075464687	9.64E-28	RPL35	ribosomal protein L35 [Source:HGNC Symbol;Acc:10344]

1227	ENSG00000110777	721.9587431	1.447456689	0.129815632	1.09E-27	POU2AF1	POU class 2 associating factor 1 [Source:HGNC Symbol;Acc:9211]
1228	ENSG00000135218	1520.573548	-1.082356806	0.097073336	1.09E-27	CD36	CD36 molecule (thrombospondin receptor) [Source:HGNC Symbol;Acc:1663]
1229	ENSG00000114573	3035.184611	0.835426578	0.074965309	1.16E-27	ATP6V1A	ATPase, H <sup>+</sup> transporting, lysosomal 70kDa, V1 subunit A [Source:HGNC Symbol;Acc:851]
1230	ENSG00000173193	2163.420171	0.911905857	0.081861211	1.22E-27	PARP14	poly (ADP-ribose) polymerase family, member 14 [Source:HGNC Symbol;Acc:29232]
1231	ENSG00000142173	318.3734603	2.757986529	0.247599021	1.23E-27	COL6A2	collagen, type VI, alpha 2 [Source:HGNC Symbol;Acc:2212]
1232	ENSG00000107566	1455.805276	-1.069351308	0.096043528	1.30E-27	ERLIN1	ER lipid raft associated 1 [Source:HGNC Symbol;Acc:16947]
1233	ENSG00000196531	8154.742721	0.620683149	0.05577236	1.38E-27	NACA	nascent polypeptide-associated complex alpha subunit [Source:HGNC Symbol;Acc:7629]
1234	ENSG00000110721	1651.461612	-1.075839326	0.096673185	1.38E-27	CHKA	choline kinase alpha [Source:HGNC Symbol;Acc:1937]
1235	ENSG00000072571	192.2151774	-2.670826739	0.240060709	1.43E-27	HMMR	hyaluronan-mediated motility receptor (RHAMM) [Source:HGNC Symbol;Acc:5012]
1236	ENSG00000134686	4916.646564	0.71560636	0.064334969	1.47E-27	PHC2	polyhomeotic homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:3183]
1237	ENSG00000196502	1924.00363	-1.007974413	0.090669563	1.57E-27	SULT1A1	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 1 [Source:HGNC Symbol;Acc:11453]
1238	ENSG00000146859	1112.168966	1.286430503	0.115724718	1.58E-27	TMEM140	transmembrane protein 140 [Source:HGNC Symbol;Acc:21870]
1239	ENSG00000164713	4220.346771	-0.703882376	0.063410156	1.88E-27	BRI3	brain protein I3 [Source:HGNC Symbol;Acc:1109]
1240	ENSG00000255594	6096.5371	-0.864781945	0.077913179	1.91E-27	Z82188.1	
1241	ENSG00000120896	230.1167296	2.745018294	0.24733432	1.93E-27	SORBS3	sorbin and SH3 domain containing 3 [Source:HGNC Symbol;Acc:30907]
1242	ENSG00000185829	1163.200733	-1.083912319	0.097706426	2.03E-27	ARL17A	ADP-ribosylation factor-like 17A [Source:HGNC Symbol;Acc:24096]
1243	ENSG00000147416	11533.37486	0.631985461	0.056973888	2.05E-27	ATP6V1B2	ATPase, H <sup>+</sup> transporting, lysosomal 56/58kDa, V1 subunit B2 [Source:HGNC Symbol;Acc:854]
1244	ENSG00000174099	493.0914912	-1.724462805	0.155526895	2.16E-27	MSRB3	methionine sulfoxide reductase B3 [Source:HGNC Symbol;Acc:27375]
1245	ENSG00000174885	182.8983021	4.03457307	0.363998754	2.25E-27	NLRP6	NLR family, pyrin domain containing 6 [Source:HGNC Symbol;Acc:22944]
1246	ENSG00000115425	430.9644169	-1.825741546	0.164718321	2.25E-27	PECR	peroxisomal trans-2-enoyl-CoA reductase [Source:HGNC Symbol;Acc:18281]
1247	ENSG00000258311	901.0409975	-1.306699006	0.117918051	2.32E-27	RP11-644F5.10	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:F8VNQ1]
1248	ENSG00000159753	508.8535179	2.046916465	0.184747622	2.36E-27	RLTPR	RGD motif, leucine rich repeats, tropomodulin domain and proline-rich containing [Source:HGNC Symbol;Acc:27089]
1249	ENSG00000206344	1536.040273	1.061363463	0.095803562	2.39E-27	HCG27	HLA complex group 27 (non-protein coding) [Source:HGNC Symbol;Acc:27366]
1250	ENSG00000126878	117.0197481	3.534356874	0.319266517	2.62E-27	AIF1L	allograft inflammatory factor 1-like [Source:HGNC Symbol;Acc:28904]
1251	ENSG00000137807	419.827828	-1.847929799	0.166930204	2.62E-27	KIF23	kinesin family member 23 [Source:HGNC Symbol;Acc:6392]
1252	ENSG00000166803	401.8577014	-1.808413119	0.163424597	2.75E-27	KIAA0101	KIAA0101 [Source:HGNC Symbol;Acc:28961]
1253	ENSG00000089685	297.990714	-2.072297106	0.187476224	3.14E-27	BIRC5	baculoviral IAP repeat containing 5 [Source:HGNC Symbol;Acc:593]
1254	ENSG00000198223	3008.010699	-0.786230471	0.071142828	3.22E-27	CSF2RA	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage) [Source:HGNC Symbol;Acc:2435]

1255	ENSG00000105610	153.7174737	-2.962202544	0.268142483	3.38E-27	KLF1	Kruppel-like factor 1 (erythroid) [Source:HGNC Symbol;Acc:6345]
1256	ENSG00000011523	698.5714624	1.383890032	0.125285057	3.42E-27	CEP68	centrosomal protein 68kDa [Source:HGNC Symbol;Acc:29076]
1257	ENSG00000058673	7070.486113	0.655328209	0.059350631	3.58E-27	ZC3H11A	zinc finger CCCH-type containing 11A [Source:HGNC Symbol;Acc:29093]
1258	ENSG00000155158	555.9572481	1.96583303	0.178044711	3.60E-27	TTC39B	tetratricopeptide repeat domain 39B [Source:HGNC Symbol;Acc:23704]
1259	ENSG00000123975	329.2455356	-1.980221729	0.179667668	4.47E-27	CKS2	CDC28 protein kinase regulatory subunit 2 [Source:HGNC Symbol;Acc:2000]
1260	ENSG00000170180	89.638984	-4.20320571	0.381709039	4.99E-27	GYP A	glycophorin A (MNS blood group) [Source:HGNC Symbol;Acc:4702]
1261	ENSG00000170486	183.020754	3.028611769	0.275187975	5.33E-27	KRT72	keratin 72 [Source:HGNC Symbol;Acc:28932]
1262	ENSG00000229358	522.260024	-1.599313428	0.145319072	5.33E-27	DPY19L1P1	DPY19L1 pseudogene 1 [Source:HGNC Symbol;Acc:22395]
1263	ENSG00000139318	3936.276709	0.716283084	0.065092707	5.41E-27	DUSP6	dual specificity phosphatase 6 [Source:HGNC Symbol;Acc:3072]
1264	ENSG00000186185	350.6525788	-2.072573976	0.18834981	5.42E-27	KIF18B	kinesin family member 18B [Source:HGNC Symbol;Acc:27102]
1265	ENSG00000173801	233.8875489	2.380016006	0.21671844	6.90E-27	JUP	junction plakoglobin [Source:HGNC Symbol;Acc:6207]
1266	ENSG00000182957	2736.739103	0.911445818	0.083066708	7.66E-27	SPATA13	spermatogenesis associated 13 [Source:HGNC Symbol;Acc:23222]
1267	ENSG00000123684	6479.22697	-0.804400225	0.073313116	7.69E-27	LPGAT1	lysophosphatidylglycerol acyltransferase 1 [Source:HGNC Symbol;Acc:28985]
1268	ENSG00000182578	1535.676329	1.077291946	0.098199814	7.83E-27	CSF1R	colony stimulating factor 1 receptor [Source:HGNC Symbol;Acc:2433]
1269	ENSG00000113504	531.9129407	1.872895385	0.170754785	8.00E-27	SLC12A7	solute carrier family 12 (potassium/chloride transporter), member 7 [Source:HGNC Symbol;Acc:10915]
1270	ENSG00000197321	3926.438414	-0.788068703	0.071928773	9.14E-27	SVIL	supervillin [Source:HGNC Symbol;Acc:11480]
1271	ENSG00000143321	5159.78245	-0.635347325	0.057992485	9.19E-27	HDGF	hepatoma-derived growth factor [Source:HGNC Symbol;Acc:4856]
1272	ENSG00000111752	582.7618747	1.593263582	0.145500009	9.75E-27	PHC1	polyhomeotic homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:3182]
1273	ENSG00000137403	713.514564	1.645538914	0.150363906	1.05E-26	HLA-F	major histocompatibility complex, class I, F [Source:HGNC Symbol;Acc:4963]
1274	ENSG00000049239	2606.57089	-0.827037212	0.075585215	1.07E-26	H6PD	hexose-6-phosphate dehydrogenase (glucose 1-dehydrogenase) [Source:HGNC Symbol;Acc:4795]
1275	ENSG00000077809	12012.42464	-0.539537511	0.049320627	1.10E-26	GTF2I	general transcription factor Iii [Source:HGNC Symbol;Acc:4659]
1276	ENSG00000235750	2799.405807	0.854824416	0.078174376	1.15E-26	KIAA0040	KIAA0040 [Source:HGNC Symbol;Acc:28950]
1277	ENSG00000224940	615.5944163	-1.674399474	0.153132174	1.16E-26	PRRT4	proline-rich transmembrane protein 4 [Source:HGNC Symbol;Acc:37280]
1278	ENSG00000138722	171.0450366	3.004212676	0.274768259	1.17E-26	MMRN1	multimerin 1 [Source:HGNC Symbol;Acc:7178]
1279	ENSG00000169679	254.3409235	-2.389642676	0.21863232	1.21E-26	BUB1	BUB1 mitotic checkpoint serine/threonine kinase [Source:HGNC Symbol;Acc:1148]
1280	ENSG00000188761	712.4518969	-1.53499426	0.140480854	1.26E-26	BCL2L15	BCL2-like 15 [Source:HGNC Symbol;Acc:33624]
1281	ENSG00000115310	5239.875181	-0.695999084	0.063722897	1.32E-26	RTN4	reticulon 4 [Source:HGNC Symbol;Acc:14085]
1282	ENSG00000158985	4963.144957	0.73233081	0.067066723	1.36E-26	CDC42SE2	CDC42 small effector 2 [Source:HGNC Symbol;Acc:18547]

1283	ENSG00000096968	1521.934347	-1.031496753	0.094470163	1.37E-26	JAK2	Janus kinase 2 [Source:HGNC Symbol;Acc:6192]
1284	ENSG00000197536	878.4115701	1.233015482	0.112943861	1.39E-26	C5orf56	chromosome 5 open reading frame 56 [Source:HGNC Symbol;Acc:33838]
1285	ENSG00000184640	2709.676719	1.032592555	0.094685847	1.58E-26	SEPT9	septin 9 [Source:HGNC Symbol;Acc:7323]
1286	ENSG00000104974	680.1991029	1.494992623	0.137128148	1.64E-26	LILRA1	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 [Source:HGNC Symbol;Acc:6602]
1287	ENSG00000271188	680.196557	1.494948286	0.137127723	1.64E-26	LILRA1	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 [Source:HGNC Symbol;Acc:6602]
1288	ENSG00000155130	2915.202174	0.754209103	0.069210278	1.72E-26	MARCKS	myristoylated alanine-rich protein kinase C substrate [Source:HGNC Symbol;Acc:6759]
1289	ENSG00000262462	680.0079241	1.493793109	0.137146749	1.83E-26	LILRA1	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 [Source:HGNC Symbol;Acc:6602]
1290	ENSG00000136305	1631.475722	-0.938007587	0.086160912	1.94E-26	CIDEB	cell death-inducing DFFA-like effector b [Source:HGNC Symbol;Acc:1977]
1291	ENSG00000261843	2710.02464	1.032799141	0.094879811	1.96E-26	SEPT9	septin 9 [Source:HGNC Symbol;Acc:7323]
1292	ENSG00000232561	651.4303302	-1.695452585	0.155869386	2.14E-26	GTF2I1P1	general transcription factor Ili, pseudogene 1 [Source:HGNC Symbol;Acc:4660]
1293	ENSG00000034053	268.827118	2.508179875	0.230735859	2.31E-26	APBA2	amyloid beta (A4) precursor protein-binding, family A, member 2 [Source:HGNC Symbol;Acc:579]
1294	ENSG00000156052	5176.073739	-0.687896251	0.063286031	2.33E-26	GNAQ	guanine nucleotide binding protein (G protein), q polypeptide [Source:HGNC Symbol;Acc:4390]
1295	ENSG00000104660	1487.073285	1.06798602	0.098325357	2.53E-26	LEPROTL1	leptin receptor overlapping transcript-like 1 [Source:HGNC Symbol;Acc:6555]
1296	ENSG00000131370	3087.877137	0.751558213	0.069196081	2.55E-26	SH3BP5	SH3-domain binding protein 5 (BTK-associated) [Source:HGNC Symbol;Acc:10827]
1297	ENSG00000170873	768.0177732	1.467882148	0.135200819	2.66E-26	MTSS1	metastasis suppressor 1 [Source:HGNC Symbol;Acc:20443]
1298	ENSG00000077044	4249.131073	-0.887562002	0.081775836	2.76E-26	DGKD	diacylglycerol kinase, delta 130kDa [Source:HGNC Symbol;Acc:2851]
1299	ENSG00000197448	3651.503111	0.733592194	0.067613109	2.88E-26	GSTK1	glutathione S-transferase kappa 1 [Source:HGNC Symbol;Acc:16906]
1300	ENSG00000188647	3777.30141	-0.760889862	0.070171004	3.09E-26	PTAR1	protein prenyltransferase alpha subunit repeat containing 1 [Source:HGNC Symbol;Acc:30449]
1301	ENSG00000196954	3809.528465	0.729334073	0.067292827	3.26E-26	CASP4	caspase 4, apoptosis-related cysteine peptidase [Source:HGNC Symbol;Acc:1505]
1302	ENSG00000004777	780.0230146	-1.462332866	0.135083205	3.75E-26	ARHGAP33	Rho GTPase activating protein 33 [Source:HGNC Symbol;Acc:23085]
1303	ENSG00000135334	2214.304693	-0.82111299	0.075861459	3.81E-26	AKIRIN2	akirin 2 [Source:HGNC Symbol;Acc:21407]
1304	ENSG00000147050	1561.366778	-1.068033045	0.098743605	4.14E-26	KDM6A	lysine (K)-specific demethylase 6A [Source:HGNC Symbol;Acc:12637]
1305	ENSG00000260199	287.238302	2.263915696	0.209343707	4.22E-26	CCL3L3	chemokine (C-C motif) ligand 3-like 3 [Source:HGNC Symbol;Acc:30554]
1306	ENSG00000127564	314.9725465	-1.977782126	0.182890135	4.23E-26	PKMYT1	protein kinase, membrane associated tyrosine/threonine 1 [Source:HGNC Symbol;Acc:29650]
1307	ENSG00000128272	6896.680562	-0.587942061	0.054380162	4.34E-26	ATF4	activating transcription factor 4 [Source:HGNC Symbol;Acc:786]
1308	ENSG00000216490	5510.40814	0.678944411	0.062845349	4.74E-26	IFI30	interferon, gamma-inducible protein 30 [Source:HGNC Symbol;Acc:5398]
1309	ENSG00000221869	1433.041797	1.016413832	0.094215887	5.60E-26	CEBPD	CCAAT/enhancer binding protein (C/EBP), delta [Source:HGNC Symbol;Acc:1835]
1310	ENSG00000166016	306.5566604	-1.978191082	0.183381144	5.64E-26	ABTB2	ankyrin repeat and BTB (POZ) domain containing 2 [Source:HGNC Symbol;Acc:23842]

1311	ENSG00000163513	4813.715437	0.660651762	0.061266293	5.89E-26	TGFBR2	transforming growth factor, beta receptor II (70/80kDa) [Source:HGNC Symbol;Acc:11773]
1312	ENSG00000100292	688.8301592	1.53726523	0.142571077	5.94E-26	HMOX1	heme oxygenase (decycling) 1 [Source:HGNC Symbol;Acc:5013]
1313	ENSG00000142546	1034.055223	1.225183055	0.113642937	6.03E-26	NOSIP	nitric oxide synthase interacting protein [Source:HGNC Symbol;Acc:17946]
1314	ENSG00000182173	541.684191	1.552345127	0.144077485	6.48E-26	TSEN54	TSEN54 tRNA splicing endonuclease subunit [Source:HGNC Symbol;Acc:27561]
1315	ENSG00000184602	2706.727051	0.793425213	0.073655613	6.64E-26	SNN	stannin [Source:HGNC Symbol;Acc:11149]
1316	ENSG00000065675	517.8948597	1.671088694	0.155168642	6.82E-26	PRKCC	protein kinase C, theta [Source:HGNC Symbol;Acc:9410]
1317	ENSG00000073737	979.4541902	-1.189599874	0.110505937	7.15E-26	DHRS9	dehydrogenase/reductase (SDR family) member 9 [Source:HGNC Symbol;Acc:16888]
1318	ENSG00000144815	1502.800168	-1.044759731	0.097058939	7.21E-26	NXPE3	neurexophilin and PC-esterase domain family, member 3 [Source:HGNC Symbol;Acc:28238]
1319	ENSG00000102245	257.1709733	2.522890199	0.234507011	7.69E-26	CD40LG	CD40 ligand [Source:HGNC Symbol;Acc:11935]
1320	ENSG00000143799	1797.460748	0.893049621	0.083055704	8.18E-26	PARP1	poly (ADP-ribose) polymerase 1 [Source:HGNC Symbol;Acc:270]
1321	ENSG00000145386	341.083224	-1.973872313	0.183578143	8.20E-26	CCNA2	cyclin A2 [Source:HGNC Symbol;Acc:1578]
1322	ENSG00000010292	2377.40683	-1.002344648	0.093283212	8.84E-26	NCAPD2	non-SMC condensin I complex, subunit D2 [Source:HGNC Symbol;Acc:24305]
1323	ENSG00000085563	289.8194944	2.774513307	0.258451849	9.85E-26	ABCB1	ATP-binding cassette, sub-family B (MDR/TAP), member 1 [Source:HGNC Symbol;Acc:40]
1324	ENSG00000243719	261.8899176	2.22506916	0.207309766	1.01E-25	HLA-DMA	major histocompatibility complex, class II, DM alpha [Source:HGNC Symbol;Acc:4934]
1325	ENSG00000089157	14445.68965	0.502168436	0.046791775	1.02E-25	RPLP0	ribosomal protein, large, P0 [Source:HGNC Symbol;Acc:10371]
1326	ENSG00000242685	261.885929	2.224920388	0.207321221	1.02E-25	HLA-DMA	major histocompatibility complex, class II, DM alpha [Source:HGNC Symbol;Acc:4934]
1327	ENSG00000173110	3690.455901	0.776316897	0.072340246	1.02E-25	HSPA6	heat shock 70kDa protein 6 (HSP70B') [Source:HGNC Symbol;Acc:5239]
1328	ENSG00000243189	261.7656176	2.224119122	0.207309447	1.05E-25	HLA-DMA	major histocompatibility complex, class II, DM alpha [Source:HGNC Symbol;Acc:4934]
1329	ENSG00000117322	327.7247322	1.996459549	0.186091142	1.05E-25	CR2	complement component (3d/Epstein Barr virus) receptor 2 [Source:HGNC Symbol;Acc:2336]
1330	ENSG00000054967	2268.421167	-0.862584997	0.080404394	1.06E-25	RELT	RELT tumor necrosis factor receptor [Source:HGNC Symbol;Acc:13764]
1331	ENSG00000068796	824.9711112	1.261338974	0.117580988	1.06E-25	KIF2A	kinesin heavy chain member 2A [Source:HGNC Symbol;Acc:6318]
1332	ENSG00000163512	1246.579891	-1.045965342	0.097563302	1.14E-25	AZ12	5-azacytidine induced 2 [Source:HGNC Symbol;Acc:24002]
1333	ENSG00000243215	262.0296192	2.224865572	0.207526579	1.14E-25	HLA-DMA	major histocompatibility complex, class II, DM alpha [Source:HGNC Symbol;Acc:4934]
1334	ENSG00000140511	250.514016	2.380547363	0.222053781	1.14E-25	HAPLN3	hyaluronan and proteoglycan link protein 3 [Source:HGNC Symbol;Acc:21446]
1335	ENSG00000162368	1527.843325	1.029499776	0.096049392	1.17E-25	CMPK1	cytidine monophosphate (UMP-CMP) kinase 1, cytosolic [Source:HGNC Symbol;Acc:18170]
1336	ENSG00000239463	261.8984535	2.223769362	0.207531958	1.21E-25	HLA-DMA	major histocompatibility complex, class II, DM alpha [Source:HGNC Symbol;Acc:4934]
1337	ENSG00000106327	208.330992	-2.685070086	0.250798366	1.33E-25	TFR2	transferrin receptor 2 [Source:HGNC Symbol;Acc:11762]
1338	ENSG00000225720	153.2861043	-2.862803459	0.267410595	1.34E-25	RP4-742C19.12	

1339	ENSG00000023330	1886.186409	-0.887498465	0.082916929	1.37E-25	ALAS1	aminolevulinate, delta-, synthase 1 [Source:HGNC Symbol;Acc:396]
1340	ENSG00000115459	1221.646766	-1.10315706	0.10308607	1.40E-25	ELMOD3	ELMO/CED-12 domain containing 3 [Source:HGNC Symbol;Acc:26158]
1341	ENSG00000088992	780.8868832	-1.449068622	0.13543634	1.43E-25	TESC	tescalcin [Source:HGNC Symbol;Acc:26065]
1342	ENSG00000064419	1510.901637	-0.964930399	0.090245803	1.54E-25	TNPO3	transportin 3 [Source:HGNC Symbol;Acc:17103]
1343	ENSG00000115738	4192.505063	-0.678044666	0.063454014	1.66E-25	ID2	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein [Source:HGNC Symbol;Acc:5361]
1344	ENSG00000129173	207.9229364	-2.437222884	0.228147357	1.71E-25	E2F8	E2F transcription factor 8 [Source:HGNC Symbol;Acc:24727]
1345	ENSG00000035403	5171.257084	-0.650102279	0.0608665	1.74E-25	VCL	vinculin [Source:HGNC Symbol;Acc:12665]
1346	ENSG00000007402	250.5441228	2.543336185	0.238146613	1.76E-25	CACNA2D2	calcium channel, voltage-dependent, alpha 2/delta subunit 2 [Source:HGNC Symbol;Acc:1400]
1347	ENSG00000176358	257.2158212	-2.249162337	0.210873857	2.04E-25	TAC4	tachykinin 4 (hemokinin) [Source:HGNC Symbol;Acc:16641]
1348	ENSG00000197102	3475.053567	0.781294183	0.073354771	2.40E-25	DYNC1H1	dynein, cytoplasmic 1, heavy chain 1 [Source:HGNC Symbol;Acc:2961]
1349	ENSG00000147443	718.5859869	1.477045225	0.138711701	2.46E-25	DOK2	docking protein 2, 56kDa [Source:HGNC Symbol;Acc:2991]
1350	ENSG00000149798	482.0553763	1.919598819	0.180446366	2.75E-25	CDC42EP2	CDC42 effector protein (Rho GTPase binding) 2 [Source:HGNC Symbol;Acc:16263]
1351	ENSG00000131828	1600.288007	-0.916533963	0.086195829	2.89E-25	PDHA1	pyruvate dehydrogenase (lipoamide) alpha 1 [Source:HGNC Symbol;Acc:8806]
1352	ENSG00000164597	782.5758165	-1.256905614	0.118254269	3.03E-25	COG5	component of oligomeric golgi complex 5 [Source:HGNC Symbol;Acc:14857]
1353	ENSG00000100077	883.9372932	1.282416171	0.120683465	3.11E-25	ADRBK2	adrenergic, beta, receptor kinase 2 [Source:HGNC Symbol;Acc:290]
1354	ENSG00000198879	414.5097327	1.765412148	0.166145673	3.13E-25	SFMBT2	Scm-like with four mbt domains 2 [Source:HGNC Symbol;Acc:20256]
1355	ENSG00000160746	823.8623792	-1.293361178	0.121733389	3.16E-25	ANO10	anoctamin 10 [Source:HGNC Symbol;Acc:25519]
1356	ENSG00000169567	1934.72044	0.919389472	0.08655255	3.24E-25	HINT1	histidine triad nucleotide binding protein 1 [Source:HGNC Symbol;Acc:4912]
1357	ENSG00000177272	305.1714691	2.18025378	0.205264711	3.26E-25	KCNA3	potassium voltage-gated channel, shaker-related subfamily, member 3 [Source:HGNC Symbol;Acc:6221]
1358	ENSG00000163328	621.3614273	1.61806576	0.152393819	3.40E-25	GPR155	G protein-coupled receptor 155 [Source:HGNC Symbol;Acc:22951]
1359	ENSG00000005059	447.0626768	1.78535249	0.168182286	3.47E-25	CCDC109B	coiled-coil domain containing 109B [Source:HGNC Symbol;Acc:26076]
1360	ENSG00000105856	2714.910432	0.785448486	0.074023802	3.65E-25	HBP1	HMG-box transcription factor 1 [Source:HGNC Symbol;Acc:23200]
1361	ENSG00000007314	80.38264889	4.385177593	0.413489219	3.87E-25	SCN4A	sodium channel, voltage-gated, type IV, alpha subunit [Source:HGNC Symbol;Acc:10591]
1362	ENSG00000272916	1148.346131	-1.479649878	0.139579501	4.06E-25	RP11-574K11.31	Bifunctional heparan sulfate N-deacetylase/N-sulfotransferase 2 [Source:UniProtKB/TrEMBL;Acc:S4R438]
1363	ENSG00000196588	2726.593273	-1.01664807	0.095953486	4.31E-25	MKL1	megakaryoblastic leukemia (translocation) 1 [Source:HGNC Symbol;Acc:14334]
1364	ENSG00000171316	1711.930164	-0.982703546	0.092768579	4.40E-25	CHD7	chromodomain helicase DNA binding protein 7 [Source:HGNC Symbol;Acc:20626]
1365	ENSG00000112182	464.1079904	1.770299042	0.167287026	4.93E-25	BACH2	BTB and CNC homology 1, basic leucine zipper transcription factor 2 [Source:HGNC Symbol;Acc:14078]
1366	ENSG00000173825	220.9426966	2.810166498	0.265625199	5.08E-25	TIGD3	tigger transposable element derived 3 [Source:HGNC Symbol;Acc:18334]

1367	ENSG00000196456	479.3918844	1.794563812	0.169635999	5.11E-25	ZNF775	zinc finger protein 775 [Source:HGNC Symbol;Acc:28501]
1368	ENSG00000161921	823.180642	1.254752389	0.118853097	6.44E-25	CXCL16	chemokine (C-X-C motif) ligand 16 [Source:HGNC Symbol;Acc:16642]
1369	ENSG00000158457	217.6835121	2.488674055	0.235850135	6.80E-25	TSPAN33	tetraspanin 33 [Source:HGNC Symbol;Acc:28743]
1370	ENSG00000183918	347.2768046	2.08772874	0.19799078	7.35E-25	SH2D1A	SH2 domain containing 1A [Source:HGNC Symbol;Acc:10820]
1371	ENSG00000067066	3743.536559	-0.77535072	0.07362148	8.43E-25	SP100	SP100 nuclear antigen [Source:HGNC Symbol;Acc:11206]
1372	ENSG00000066294	1102.153901	1.180604189	0.112288243	1.02E-24	CD84	CD84 molecule [Source:HGNC Symbol;Acc:1704]
1373	ENSG00000076944	5986.063809	-0.768969004	0.073138054	1.02E-24	STXBP2	syntaxin binding protein 2 [Source:HGNC Symbol;Acc:11445]
1374	ENSG00000166900	8525.863818	-0.697196686	0.06637596	1.13E-24	STX3	syntaxin 3 [Source:HGNC Symbol;Acc:11438]
1375	ENSG00000103522	247.403355	2.492362037	0.237348531	1.17E-24	IL21R	interleukin 21 receptor [Source:HGNC Symbol;Acc:6006]
1376	ENSG00000130695	877.2865403	-1.21209019	0.115451243	1.19E-24	CEP85	centrosomal protein 85kDa [Source:HGNC Symbol;Acc:25309]
1377	ENSG00000147168	8595.958442	0.578072648	0.055124207	1.35E-24	IL2RG	interleukin 2 receptor, gamma [Source:HGNC Symbol;Acc:6010]
1378	ENSG00000084234	8532.690398	-0.54384654	0.05188612	1.43E-24	APLP2	amyloid beta (A4) precursor-like protein 2 [Source:HGNC Symbol;Acc:598]
1379	ENSG00000152061	2608.48091	0.81224633	0.077512904	1.47E-24	RABGAP1L	RAB GTPase activating protein 1-like [Source:HGNC Symbol;Acc:24663]
1380	ENSG00000145491	398.9410215	-1.691733527	0.161648971	1.69E-24	ROPN1L	rhopilin associated tail protein 1-like [Source:HGNC Symbol;Acc:24060]
1381	ENSG00000044446	2231.025108	-0.861230626	0.082359219	1.84E-24	PHKA2	phosphorylase kinase, alpha 2 (liver) [Source:HGNC Symbol;Acc:8926]
1382	ENSG00000163421	2906.137788	-0.776872439	0.074336966	1.97E-24	PROK2	prokineticin 2 [Source:HGNC Symbol;Acc:18455]
1383	ENSG00000187446	2551.02872	-0.783246932	0.074983584	2.08E-24	CHP1	calcineurin-like EF-hand protein 1 [Source:HGNC Symbol;Acc:17433]
1384	ENSG00000115318	840.3039598	-1.224143532	0.117239907	2.17E-24	LOXL3	lysyl oxidase-like 3 [Source:HGNC Symbol;Acc:13869]
1385	ENSG00000015413	87.52294017	5.039717812	0.483208446	2.45E-24	DPEP1	dipeptidase 1 (renal) [Source:HGNC Symbol;Acc:3002]
1386	ENSG00000079393	226.7212267	-2.332036143	0.223652073	2.52E-24	DUSP13	dual specificity phosphatase 13 [Source:HGNC Symbol;Acc:19681]
1387	ENSG00000181045	345.9021242	2.262379775	0.217068692	2.64E-24	SLC26A11	solute carrier family 26 (anion exchanger), member 11 [Source:HGNC Symbol;Acc:14471]
1388	ENSG00000115604	745.8293021	-1.274791418	0.122314617	2.65E-24	IL18R1	interleukin 18 receptor 1 [Source:HGNC Symbol;Acc:5988]
1389	ENSG00000171236	2101.690031	-0.856401839	0.082199116	2.75E-24	LRG1	leucine-rich alpha-2-glycoprotein 1 [Source:HGNC Symbol;Acc:29480]
1390	ENSG00000163808	233.5087682	-2.368646171	0.227413267	2.83E-24	KIF15	kinesin family member 15 [Source:HGNC Symbol;Acc:17273]
1391	ENSG00000150867	3511.645589	0.697738441	0.066991948	2.84E-24	PIP4K2A	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha [Source:HGNC Symbol;Acc:8997]
1392	ENSG00000101577	3884.673373	0.741573835	0.071209603	2.88E-24	LPIN2	lipin 2 [Source:HGNC Symbol;Acc:14450]
1393	ENSG00000138326	12781.4226	0.519493532	0.049895626	2.95E-24	RPS24	ribosomal protein S24 [Source:HGNC Symbol;Acc:10411]
1394	ENSG00000165659	294.0389634	-1.940802211	0.186570685	3.24E-24	DACH1	dachshund homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:2663]



1395	ENSG00000232962	197.5637676	3.323596138	0.319571652	3.32E-24	HLA-DOA	major histocompatibility complex, class II, DO alpha [Source:HGNC Symbol;Acc:4936]
1396	ENSG00000100911	1489.424535	0.931304778	0.089590163	3.50E-24	PSME2	proteasome (prosome, macropain) activator subunit 2 (PA28 beta) [Source:HGNC Symbol;Acc:9569]
1397	ENSG00000108389	2359.664772	-0.929997485	0.089535588	3.81E-24	MTMR4	myotubularin related protein 4 [Source:HGNC Symbol;Acc:7452]
1398	ENSG00000084733	3378.205156	-0.795888248	0.076689803	4.18E-24	RAB10	RAB10, member RAS oncogene family [Source:HGNC Symbol;Acc:9759]
1399	ENSG00000163013	361.5750228	1.793875491	0.172968706	4.49E-24	FBXO41	F-box protein 41 [Source:HGNC Symbol;Acc:29409]
1400	ENSG00000071127	11071.28856	-0.493825737	0.047625923	4.59E-24	WDR1	WD repeat domain 1 [Source:HGNC Symbol;Acc:12754]
1401	ENSG00000107290	5277.68282	0.606552458	0.058511384	4.71E-24	SETX	senataxin [Source:HGNC Symbol;Acc:445]
1402	ENSG00000137871	1571.614723	-0.997988652	0.096309002	4.91E-24	ZNF280D	zinc finger protein 280D [Source:HGNC Symbol;Acc:25953]
1403	ENSG00000065054	80.00906064	4.396055703	0.424255462	4.93E-24	SLC9A3R2	solute carrier family 9, subfamily A (NHE3, cation proton antiporter 3), member 3 regulator 2 [Source:HGNC Symbol;Acc:11076]
1404	ENSG00000197540	138.7613898	3.451848599	0.333204194	5.05E-24	GZMM	granzyme M (lymphocyte met-ase 1) [Source:HGNC Symbol;Acc:4712]
1405	ENSG00000197451	1627.418326	-0.933101682	0.090094787	5.19E-24	HNRNPAB	heterogeneous nuclear ribonucleoprotein A/B [Source:HGNC Symbol;Acc:5034]
1406	ENSG00000061938	3104.575659	-1.046039443	0.101007887	5.23E-24	TNK2	tyrosine kinase, non-receptor, 2 [Source:HGNC Symbol;Acc:19297]
1407	ENSG00000143376	3175.351613	-0.744495534	0.071908623	5.37E-24	SNX27	sorting nexin family member 27 [Source:HGNC Symbol;Acc:20073]
1408	ENSG00000087586	205.540838	-2.465601738	0.238276658	5.70E-24	AURKA	aurora kinase A [Source:HGNC Symbol;Acc:11393]
1409	ENSG00000140678	19131.48546	0.633496034	0.061241413	5.90E-24	ITGAX	integrin, alpha X (complement component 3 receptor 4 subunit) [Source:HGNC Symbol;Acc:6152]
1410	ENSG00000178988	1214.749675	1.056692065	0.10221112	6.27E-24	MRFAP1L1	Morf4 family associated protein 1-like 1 [Source:HGNC Symbol;Acc:28796]
1411	ENSG00000101782	3237.970544	-0.802782088	0.077673983	6.47E-24	RIOK3	RIO kinase 3 [Source:HGNC Symbol;Acc:11451]
1412	ENSG00000163406	803.5911294	-1.390021528	0.134501428	6.51E-24	SLC15A2	solute carrier family 15 (oligopeptide transporter), member 2 [Source:HGNC Symbol;Acc:10921]
1413	ENSG00000186480	720.3269954	1.36630736	0.132225238	6.61E-24	INSIG1	insulin induced gene 1 [Source:HGNC Symbol;Acc:6083]
1414	ENSG00000127328	744.2813025	-1.430682913	0.138539528	7.05E-24	RAB3IP	RAB3A interacting protein [Source:HGNC Symbol;Acc:16508]
1415	ENSG00000100129	4870.889004	0.691658384	0.067006068	7.39E-24	EIF3L	eukaryotic translation initiation factor 3, subunit L [Source:HGNC Symbol;Acc:18138]
1416	ENSG00000013364	3664.872998	0.815650329	0.079031511	7.52E-24	MVP	major vault protein [Source:HGNC Symbol;Acc:7531]
1417	ENSG00000164088	3865.021688	-0.658027387	0.063801467	8.07E-24	PPM1M	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1M [Source:HGNC Symbol;Acc:26506]
1418	ENSG00000013374	1727.839773	0.900077192	0.087286307	8.23E-24	NUB1	negative regulator of ubiquitin-like proteins 1 [Source:HGNC Symbol;Acc:17623]
1419	ENSG00000197930	3379.550509	-0.69787314	0.067682373	8.29E-24	ERO1L	ERO1-like (S. cerevisiae) [Source:HGNC Symbol;Acc:13280]
1420	ENSG00000266173	2001.764629	-0.814329159	0.079030106	8.90E-24	STRADA	STE20-related kinase adaptor alpha [Source:HGNC Symbol;Acc:30172]
1421	ENSG00000118503	1995.867101	0.822686062	0.079847855	8.98E-24	TNFAIP3	tumor necrosis factor, alpha-induced protein 3 [Source:HGNC Symbol;Acc:11896]
1422	ENSG00000263077	14015.99078	-0.728053928	0.070665769	9.01E-24	DDX5	DEAD (Asp-Glu-Ala-Asp) box helicase 5 [Source:HGNC Symbol;Acc:2746]

1423	ENSG00000124201	2899.16195	0.753535768	0.07315454	9.21E-24	ZNF1	zinc finger, NFX1-type containing 1 [Source:HGNC Symbol;Acc:29271]
1424	ENSG00000103381	5249.387224	0.658464926	0.06393902	9.42E-24	CPPE1	calcineurin-like phosphoesterase domain containing 1 [Source:HGNC Symbol;Acc:25632]
1425	ENSG00000116489	8451.424268	-0.675494066	0.065643298	1.02E-23	CAPZA1	capping protein (actin filament) muscle Z-line, alpha 1 [Source:HGNC Symbol;Acc:1488]
1426	ENSG00000116017	1951.811781	-1.06619597	0.10369968	1.12E-23	ARID3A	AT rich interactive domain 3A (BRIGHT-like) [Source:HGNC Symbol;Acc:3031]
1427	ENSG00000133313	1406.980424	0.94545855	0.092034272	1.22E-23	CNDP2	CNDP dipeptidase 2 (metallopeptidase M20 family) [Source:HGNC Symbol;Acc:24437]
1428	ENSG00000138031	293.322484	2.162246255	0.21072924	1.39E-23	ADCY3	adenylate cyclase 3 [Source:HGNC Symbol;Acc:234]
1429	ENSG00000100485	3775.344431	-0.713151454	0.069577515	1.55E-23	SOS2	son of sevenless homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:11188]
1430	ENSG00000111802	2235.483169	0.824462547	0.080443605	1.57E-23	TDP2	tyrosyl-DNA phosphodiesterase 2 [Source:HGNC Symbol;Acc:17768]
1431	ENSG00000105778	2210.226867	-0.847994257	0.0827828	1.65E-23	AVL9	AVL9 homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:28994]
1432	ENSG00000148926	396.5847998	-1.65004321	0.161210658	1.80E-23	ADM	adrenomedullin [Source:HGNC Symbol;Acc:259]
1433	ENSG00000113742	3064.327821	-0.991375927	0.096950879	1.99E-23	CPEB4	cytoplasmic polyadenylation element binding protein 4 [Source:HGNC Symbol;Acc:21747]
1434	ENSG00000147206	479.9651801	-1.612138749	0.157782202	2.16E-23	NXF3	nuclear RNA export factor 3 [Source:HGNC Symbol;Acc:8073]
1435	ENSG00000239665	1524.653475	-0.923207772	0.090385874	2.24E-23	RP11-295P9.3	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:MQQX3]
1436	ENSG00000116213	1665.489408	-1.17468303	0.11507501	2.38E-23	WRAP73	WD repeat containing, antisense to TP73 [Source:HGNC Symbol;Acc:12759]
1437	ENSG00000259824	120.9098479	3.426703201	0.335821797	2.48E-23	TRBV12-4	T cell receptor beta variable 12-4 [Source:HGNC Symbol;Acc:12186]
1438	ENSG00000148218	1535.859041	-0.985816397	0.096630243	2.53E-23	ALAD	aminolevulinate dehydratase [Source:HGNC Symbol;Acc:395]
1439	ENSG00000135272	583.6852533	1.70688618	0.167457857	2.77E-23	MDFIC	MyoD family inhibitor domain containing [Source:HGNC Symbol;Acc:28870]
1440	ENSG00000173239	116.965303	-3.215382311	0.315645948	2.96E-23	LIPM	lipase, family member M [Source:HGNC Symbol;Acc:23455]
1441	ENSG00000152558	5486.169065	0.639638739	0.062799579	2.99E-23	TMEM123	transmembrane protein 123 [Source:HGNC Symbol;Acc:30138]
1442	ENSG00000154874	476.6128206	-1.645945857	0.161626023	3.04E-23	CCDC144B	coiled-coil domain containing 144B (pseudogene) [Source:HGNC Symbol;Acc:26704]
1443	ENSG00000171603	1668.072365	0.989873203	0.09734333	3.54E-23	CLSTN1	calysntenin 1 [Source:HGNC Symbol;Acc:17447]
1444	ENSG00000159374	435.1846261	-1.582953135	0.155698832	3.62E-23	M1AP	meiosis 1 associated protein [Source:HGNC Symbol;Acc:25183]
1445	ENSG00000136068	1143.126586	2.777228551	0.273188265	3.64E-23	FLNB	filamin B, beta [Source:HGNC Symbol;Acc:3755]
1446	ENSG00000129824	3591.02173	0.770838959	0.07594354	4.28E-23	RPS4Y1	ribosomal protein S4, Y-linked 1 [Source:HGNC Symbol;Acc:10425]
1447	ENSG00000165097	1664.524882	-0.896032253	0.088284131	4.31E-23	KDM1B	lysine (K)-specific demethylase 1B [Source:HGNC Symbol;Acc:21577]
1448	ENSG00000018510	1695.676978	-1.044119591	0.102940128	4.60E-23	AGPS	alkylglycerone phosphate synthase [Source:HGNC Symbol;Acc:327]
1449	ENSG00000130255	2792.32276	1.04822718	0.103492008	5.33E-23	RPL36	ribosomal protein L36 [Source:HGNC Symbol;Acc:13631]
1450	ENSG00000106462	802.8579976	-1.200518065	0.118542526	5.39E-23	EZH2	enhancer of zeste homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:3527]

1451	ENSG00000003147	709.3342082	-1.498980231	0.148124453	5.82E-23	ICA1	islet cell autoantigen 1, 69kDa [Source:HGNC Symbol;Acc:5343]
1452	ENSG00000183542	188.7076813	2.776745652	0.274569087	6.23E-23	KLRC4	killer cell lectin-like receptor subfamily C, member 4 [Source:HGNC Symbol;Acc:6377]
1453	ENSG00000183569	161.9535574	2.64810701	0.261891052	6.33E-23	SERHL2	serine hydrolase-like 2 [Source:HGNC Symbol;Acc:29446]
1454	ENSG00000169242	85.85731003	3.81354262	0.377456752	6.88E-23	EFNA1	ephrin-A1 [Source:HGNC Symbol;Acc:3221]
1455	ENSG00000055917	3860.277122	0.687438341	0.068063385	7.11E-23	PUM2	pumilio RNA-binding family member 2 [Source:HGNC Symbol;Acc:14958]
1456	ENSG00000105339	12076.55318	-0.472303715	0.04676374	7.12E-23	DENND3	DENN/MADD domain containing 3 [Source:HGNC Symbol;Acc:29134]
1457	ENSG00000121152	228.4100254	-2.241926316	0.222118096	7.59E-23	NCAPH	non-SMC condensin I complex, subunit H [Source:HGNC Symbol;Acc:1112]
1458	ENSG00000104946	952.8516176	1.17640684	0.116583301	7.80E-23	TBC1D17	TBC1 domain family, member 17 [Source:HGNC Symbol;Acc:25699]
1459	ENSG0000024048	4911.393232	0.632211865	0.062656457	7.84E-23	UBR2	ubiquitin protein ligase E3 component n-recognin 2 [Source:HGNC Symbol;Acc:21289]
1460	ENSG00000104081	839.875103	1.362303175	0.135057882	8.10E-23	BMF	Bcl2 modifying factor [Source:HGNC Symbol;Acc:24132]
1461	ENSG00000107798	730.0986137	1.275109131	0.126428957	8.20E-23	LIPA	lipase A, lysosomal acid, cholesterol esterase [Source:HGNC Symbol;Acc:6617]
1462	ENSG00000120278	209.7181139	2.700240939	0.268086486	9.38E-23	PLEKHG1	pleckstrin homology domain containing, family G (with RhoGef domain) member 1 [Source:HGNC Symbol;Acc:20884]
1463	ENSG00000196821	1894.196886	0.829389591	0.082369319	9.67E-23	C6orf106	chromosome 6 open reading frame 106 [Source:HGNC Symbol;Acc:21215]
1464	ENSG00000164611	375.4867396	-1.67737597	0.16667136	1.02E-22	PTTG1	pituitary tumor-transforming 1 [Source:HGNC Symbol;Acc:9690]
1465	ENSG00000100368	10499.97572	0.505936093	0.050282263	1.04E-22	CSF2RB	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage) [Source:HGNC Symbol;Acc:2436]
1466	ENSG00000196850	2138.074849	0.873556489	0.086864088	1.10E-22	PPTC7	PTC7 protein phosphatase homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:30695]
1467	ENSG00000111716	3307.063261	0.716210661	0.071267407	1.18E-22	LDHB	lactate dehydrogenase B [Source:HGNC Symbol;Acc:6541]
1468	ENSG00000140455	3871.22959	-0.715706801	0.071220068	1.18E-22	USP3	ubiquitin specific peptidase 3 [Source:HGNC Symbol;Acc:12626]
1469	ENSG00000182568	2380.313123	0.807820943	0.080408183	1.21E-22	SATB1	SATB homeobox 1 [Source:HGNC Symbol;Acc:10541]
1470	ENSG00000161542	1116.69504	-1.017226085	0.101256175	1.22E-22	PRPSAP1	phosphoribosyl pyrophosphate synthetase-associated protein 1 [Source:HGNC Symbol;Acc:9466]
1471	ENSG00000159023	6180.934876	0.613734168	0.061096508	1.23E-22	EPB41	erythrocyte membrane protein band 4.1 (elliptocytosis 1, RH-linked) [Source:HGNC Symbol;Acc:3377]
1472	ENSG00000173762	330.8948294	2.485116735	0.247435883	1.25E-22	CD7	CD7 molecule [Source:HGNC Symbol;Acc:1695]
1473	ENSG00000165490	406.6961244	-1.760382276	0.175300902	1.27E-22	C11orf82	chromosome 11 open reading frame 82 [Source:HGNC Symbol;Acc:26351]
1474	ENSG00000156675	7951.185753	0.537145771	0.053508913	1.31E-22	RAB11FIP1	RAB11 family interacting protein 1 (class I) [Source:HGNC Symbol;Acc:30265]
1475	ENSG00000186469	5562.736504	-0.588456087	0.058628796	1.33E-22	GNG2	guanine nucleotide binding protein (G protein), gamma 2 [Source:HGNC Symbol;Acc:4404]
1476	ENSG00000261577	231.087137	2.249999678	0.224215994	1.36E-22	JUP	junction plakoglobin [Source:HGNC Symbol;Acc:6207]
1477	ENSG00000029534	465.5670666	-1.832236746	0.182609693	1.37E-22	ANK1	ankyrin 1, erythrocytic [Source:HGNC Symbol;Acc:492]
1478	ENSG00000115165	2572.629022	0.783951449	0.078162709	1.43E-22	CYTIP	cytohesin 1 interacting protein [Source:HGNC Symbol;Acc:9506]

1479	ENSG00000272598	259.8586283	-1.991234862	0.198719678	1.57E-22	VSTM1	V-set and transmembrane domain containing 1 [Source:HGNC Symbol;Acc:29455]
1480	ENSG00000273349	259.8589725	-1.991239095	0.198720856	1.57E-22	VSTM1	V-set and transmembrane domain containing 1 [Source:HGNC Symbol;Acc:29455]
1481	ENSG00000273414	259.8552305	-1.991157705	0.198718545	1.57E-22	VSTM1	V-set and transmembrane domain containing 1 [Source:HGNC Symbol;Acc:29455]
1482	ENSG00000273242	259.8488868	-1.991059488	0.198711318	1.57E-22	VSTM1	V-set and transmembrane domain containing 1 [Source:HGNC Symbol;Acc:29455]
1483	ENSG00000272898	259.8512039	-1.99109227	0.198715748	1.57E-22	VSTM1	V-set and transmembrane domain containing 1 [Source:HGNC Symbol;Acc:29455]
1484	ENSG00000272649	259.8493762	-1.99106811	0.198715503	1.57E-22	VSTM1	V-set and transmembrane domain containing 1 [Source:HGNC Symbol;Acc:29455]
1485	ENSG00000273460	259.8520816	-1.991090693	0.19871874	1.57E-22	VSTM1	V-set and transmembrane domain containing 1 [Source:HGNC Symbol;Acc:29455]
1486	ENSG00000162688	1045.832488	-1.107723353	0.110584444	1.62E-22	AGL	amylo-alpha-1, 6-glucosidase, 4-alpha-glucanotransferase [Source:HGNC Symbol;Acc:321]
1487	ENSG00000102265	1958.05237	0.838290621	0.083733507	1.71E-22	TIMP1	TIMP metalloproteinase inhibitor 1 [Source:HGNC Symbol;Acc:11820]
1488	ENSG00000272759	259.6782506	-1.989679051	0.198757027	1.72E-22	VSTM1	V-set and transmembrane domain containing 1 [Source:HGNC Symbol;Acc:29455]
1489	ENSG00000273421	259.6768603	-1.989631949	0.198758229	1.73E-22	VSTM1	V-set and transmembrane domain containing 1 [Source:HGNC Symbol;Acc:29455]
1490	ENSG00000189068	259.6773699	-1.989648393	0.19876183	1.73E-22	VSTM1	V-set and transmembrane domain containing 1 [Source:HGNC Symbol;Acc:29455]
1491	ENSG00000185920	344.4506552	2.02170513	0.202183867	1.93E-22	PTCH1	patched 1 [Source:HGNC Symbol;Acc:9585]
1492	ENSG00000197818	2309.680378	-0.829627258	0.083048276	2.12E-22	SLC9A8	solute carrier family 9, subfamily A (NHE8, cation proton antiporter 8), member 8 [Source:HGNC Symbol;Acc:20728]
1493	ENSG00000133056	532.0499386	1.441519142	0.14432106	2.15E-22	PIK3C2B	phosphatidylinositol-4-phosphate 3-kinase, catalytic subunit type 2 beta [Source:HGNC Symbol;Acc:8972]
1494	ENSG00000256515	281.4598823	2.13417182	0.213878489	2.37E-22	CCL3L3	chemokine (C-C motif) ligand 3-like 3 [Source:HGNC Symbol;Acc:30554]
1495	ENSG00000166974	1215.276316	0.995350138	0.099761058	2.40E-22	MAPRE2	microtubule-associated protein, RP/EB family, member 2 [Source:HGNC Symbol;Acc:6891]
1496	ENSG00000166947	665.664591	-1.260602024	0.126353128	2.41E-22	EPB42	erythrocyte membrane protein band 4.2 [Source:HGNC Symbol;Acc:3381]
1497	ENSG00000175309	4063.785356	-0.652481421	0.065406461	2.43E-22	PHYKPL	5-phosphohydroxy-L-lysine phospho-lyase [Source:HGNC Symbol;Acc:28249]
1498	ENSG00000100307	2168.787776	0.887403002	0.089013095	2.59E-22	CBX7	chromobox homolog 7 [Source:HGNC Symbol;Acc:1557]
1499	ENSG00000165449	56.30509217	-4.688066704	0.47030615	2.62E-22	SLC16A9	solute carrier family 16, member 9 [Source:HGNC Symbol;Acc:23520]
1500	ENSG00000242616	1435.433472	0.931705142	0.09353265	2.81E-22	GNG10	guanine nucleotide binding protein (G protein), gamma 10 [Source:HGNC Symbol;Acc:4402]
1501	ENSG00000179889	1594.03446	-0.898764847	0.090276317	2.97E-22	PDXDC1	pyridoxal-dependent decarboxylase domain containing 1 [Source:HGNC Symbol;Acc:28995]
1502	ENSG00000244682	1042.611686	1.223561729	0.122918634	3.01E-22	FCGR2C	Fc fragment of IgG, low affinity IIc, receptor for (CD32) (gene/pseudogene) [Source:HGNC Symbol;Acc:15626]
1503	ENSG00000107317	177.4987041	2.974057467	0.298967309	3.21E-22	PTGDS	prostaglandin D2 synthase 21kDa (brain) [Source:HGNC Symbol;Acc:9592]
1504	ENSG00000185883	2204.292271	-0.853213978	0.085769448	3.21E-22	ATP6V0C	ATPase, H+ transporting, lysosomal 16kDa, V0 subunit c [Source:HGNC Symbol;Acc:855]
1505	ENSG00000122741	1520.076188	-1.01929204	0.102517001	3.38E-22	DCAF10	DDB1 and CUL4 associated factor 10 [Source:HGNC Symbol;Acc:23686]
1506	ENSG00000117280	941.8015478	1.116852501	0.112341888	3.41E-22	RAB7L1	RAB7, member RAS oncogene family-like 1 [Source:HGNC Symbol;Acc:9789]

1507	ENSG00000123444	373.1728828	2.024959774	0.203744708	3.51E-22	KBTBD4	kelch repeat and BTB (POZ) domain containing 4 [Source:HGNC Symbol;Acc:23761]
1508	ENSG00000171777	6761.878194	-0.553995732	0.055750195	3.56E-22	RASGRP4	RAS guanyl releasing protein 4 [Source:HGNC Symbol;Acc:18958]
1509	ENSG00000213860	3212.322566	0.857800014	0.086356024	3.70E-22	RPL21P75	ribosomal protein L21 pseudogene 75 [Source:HGNC Symbol;Acc:36460]
1510	ENSG00000100027	710.9438121	1.275454397	0.128515126	4.04E-22	YPPE1	yippee-like 1 (Drosophila) [Source:HGNC Symbol;Acc:12845]
1511	ENSG00000129625	2706.264382	-0.699964921	0.070581886	4.35E-22	REEP5	receptor accessory protein 5 [Source:HGNC Symbol;Acc:30077]
1512	ENSG00000184182	1154.708788	-1.108460105	0.111810326	4.49E-22	UBE2F	ubiquitin-conjugating enzyme E2F (putative) [Source:HGNC Symbol;Acc:12480]
1513	ENSG00000231184	49.72455962	-4.895584538	0.494115403	4.76E-22	FAM58DP	family with sequence similarity 58, member D, pseudogene [Source:HGNC Symbol;Acc:42022]
1514	ENSG00000140450	578.4596596	1.647131538	0.166247473	4.76E-22	ARRDC4	arrestin domain containing 4 [Source:HGNC Symbol;Acc:28087]
1515	ENSG00000151725	376.3095363	-1.64908804	0.166592862	5.20E-22	CENPU	centromere protein U [Source:HGNC Symbol;Acc:21348]
1516	ENSG00000132646	1398.090454	-0.900077303	0.090941556	5.28E-22	PCNA	proliferating cell nuclear antigen [Source:HGNC Symbol;Acc:8729]
1517	ENSG0000030419	552.9673007	1.542730208	0.155920382	5.43E-22	IKZF2	IKAROS family zinc finger 2 (Helios) [Source:HGNC Symbol;Acc:13177]
1518	ENSG00000149564	132.2086035	2.961167597	0.299430489	5.71E-22	ESAM	endothelial cell adhesion molecule [Source:HGNC Symbol;Acc:17474]
1519	ENSG00000104447	433.4738657	-1.677416253	0.169635187	5.76E-22	TRPS1	trichorhinophalangeal syndrome I [Source:HGNC Symbol;Acc:12340]
1520	ENSG00000090863	2321.628044	0.808358777	0.081778647	5.97E-22	GLG1	golgi glycoprotein 1 [Source:HGNC Symbol;Acc:4316]
1521	ENSG00000261883	210.4761754	-2.135778392	0.216353427	6.79E-22	HMBS	hydroxymethylbilane synthase [Source:HGNC Symbol;Acc:4982]
1522	ENSG00000129353	11807.36182	0.528981996	0.053593804	6.89E-22	SLC44A2	solute carrier family 44 (choline transporter), member 2 [Source:HGNC Symbol;Acc:17292]
1523	ENSG00000143653	580.0347596	-1.366356408	0.138444696	6.95E-22	SCCPDH	saccharopine dehydrogenase (putative) [Source:HGNC Symbol;Acc:24275]
1524	ENSG00000256269	210.8199728	-2.132374904	0.216114997	7.12E-22	HMBS	hydroxymethylbilane synthase [Source:HGNC Symbol;Acc:4982]
1525	ENSG00000198837	5852.326316	-0.592189059	0.060040669	7.38E-22	DENND4B	DENN/MADD domain containing 4B [Source:HGNC Symbol;Acc:29044]
1526	ENSG00000196839	315.2445276	1.809553579	0.183952041	9.56E-22	ADA	adenosine deaminase [Source:HGNC Symbol;Acc:186]
1527	ENSG00000135821	15516.02541	0.458564367	0.046635407	9.95E-22	GLUL	glutamate-ammonia ligase [Source:HGNC Symbol;Acc:4341]
1528	ENSG00000134186	3369.12741	0.723544731	0.073658279	1.10E-21	PRPF38B	pre-mRNA processing factor 38B [Source:HGNC Symbol;Acc:25512]
1529	ENSG00000125089	329.5175706	2.394590513	0.243781821	1.10E-21	SH3TC1	SH3 domain and tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:26009]
1530	ENSG00000271303	1515.777804	0.947066033	0.09641967	1.10E-21	SRXN1	sulfiredoxin 1 [Source:HGNC Symbol;Acc:16132]
1531	ENSG00000273170	381.7335726	-1.709285925	0.174041159	1.12E-21	ANKRD18A	Ankyrin repeat domain-containing protein 18A [Source:UniProtKB/TrEMBL;Acc:H3BPPE5]
1532	ENSG00000162366	95.94316825	3.504933272	0.357010353	1.16E-21	PDZK1IP1	PDZK1 interacting protein 1 [Source:HGNC Symbol;Acc:16887]
1533	ENSG00000189190	541.0337795	1.546487115	0.157532066	1.16E-21	ZNF600	zinc finger protein 600 [Source:HGNC Symbol;Acc:30951]
1534	ENSG00000227507	889.5248368	1.26181538	0.128661984	1.28E-21	LTB	lymphotoxin beta (TNF superfamily, member 3) [Source:HGNC Symbol;Acc:6711]

1535	ENSG00000051382	1218.774626	-1.005394803	0.102552815	1.32E-21	PIK3CB	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta [Source:HGNC Symbol;Acc:8976]
1536	ENSG00000128322	256.3355421	2.11959618	0.216343878	1.41E-21	IGLL1	immunoglobulin lambda-like polypeptide 1 [Source:HGNC Symbol;Acc:5870]
1537	ENSG00000123636	4451.362802	-0.663584588	0.06775706	1.46E-21	BAZ2B	bromodomain adjacent to zinc finger domain, 2B [Source:HGNC Symbol;Acc:963]
1538	ENSG00000161016	9403.820938	0.550015428	0.056176182	1.50E-21	RPL8	ribosomal protein L8 [Source:HGNC Symbol;Acc:10368]
1539	ENSG00000105983	866.7848154	-1.142127377	0.116676485	1.53E-21	LMBR1	limb development membrane protein 1 [Source:HGNC Symbol;Acc:13243]
1540	ENSG00000139278	6879.241752	0.649452714	0.066353712	1.54E-21	GLIPR1	GLI pathogenesis-related 1 [Source:HGNC Symbol;Acc:17001]
1541	ENSG00000152778	340.3039565	1.849090005	0.188943211	1.56E-21	IFIT5	interferon-induced protein with tetratricopeptide repeats 5 [Source:HGNC Symbol;Acc:13328]
1542	ENSG00000141540	255.8726859	2.340194623	0.239267998	1.65E-21	TTYH2	tweet family member 2 [Source:HGNC Symbol;Acc:13877]
1543	ENSG00000142208	3692.820711	0.941010913	0.096348949	1.90E-21	AKT1	v-akt murine thymoma viral oncogene homolog 1 [Source:HGNC Symbol;Acc:391]
1544	ENSG00000160791	289.9346719	2.14191208	0.219520096	2.08E-21	CCR5	chemokine (C-C motif) receptor 5 (gene/pseudogene) [Source:HGNC Symbol;Acc:1606]
1545	ENSG00000067900	4985.41201	-0.733754683	0.075203893	2.09E-21	ROCK1	Rho-associated, coiled-coil containing protein kinase 1 [Source:HGNC Symbol;Acc:10251]
1546	ENSG00000118418	541.15558	1.525018547	0.156307874	2.09E-21	HMGN3	high mobility group nucleosomal binding domain 3 [Source:HGNC Symbol;Acc:12312]
1547	ENSG00000118193	237.0048458	-2.19833809	0.225327856	2.10E-21	KIF14	kinesin family member 14 [Source:HGNC Symbol;Acc:19181]
1548	ENSG00000143776	108.6716181	-3.047674121	0.312431574	2.13E-21	CDC42BPA	CDC42 binding protein kinase alpha (DMPK-like) [Source:HGNC Symbol;Acc:1737]
1549	ENSG00000140995	6498.554712	-0.68668031	0.070454991	2.31E-21	DEF8	differentially expressed in FDCP 8 homolog (mouse) [Source:HGNC Symbol;Acc:25969]
1550	ENSG00000090020	1520.678855	-0.908283234	0.093221253	2.38E-21	SLC9A1	solute carrier family 9, subfamily A (NHE1, cation proton antiporter 1), member 1 [Source:HGNC Symbol;Acc:11071]
1551	ENSG00000172985	288.824009	-1.824081234	0.187350813	2.55E-21	SH3RF3	SH3 domain containing ring finger 3 [Source:HGNC Symbol;Acc:24699]
1552	ENSG00000111276	2639.237619	0.761180484	0.078185145	2.56E-21	CDKN1B	cyclin-dependent kinase inhibitor 1B (p27, Kip1) [Source:HGNC Symbol;Acc:1785]
1553	ENSG00000168283	928.0524898	1.225088012	0.125837542	2.56E-21	BMI1	BMI1 polycomb ring finger oncogene [Source:HGNC Symbol;Acc:1066]
1554	ENSG00000099864	112.1073636	3.136581954	0.32246375	2.79E-21	PALM	paralemmin [Source:HGNC Symbol;Acc:8594]
1555	ENSG00000113273	620.1926663	-1.320995846	0.135869759	2.91E-21	ARSB	arylsulfatase B [Source:HGNC Symbol;Acc:714]
1556	ENSG00000107771	1039.021084	1.205710334	0.124031613	2.95E-21	CCSER2	coiled-coil serine-rich protein 2 [Source:HGNC Symbol;Acc:29197]
1557	ENSG00000089220	1244.001599	1.006058834	0.103577471	3.19E-21	PEBP1	phosphatidylethanolamine binding protein 1 [Source:HGNC Symbol;Acc:8630]
1558	ENSG00000085662	444.8256078	1.601765477	0.164917258	3.20E-21	AKR1B1	aldo-keto reductase family 1, member B1 (aldose reductase) [Source:HGNC Symbol;Acc:381]
1559	ENSG00000067167	2098.848518	0.764877349	0.078793394	3.37E-21	TRAM1	translocation associated membrane protein 1 [Source:HGNC Symbol;Acc:20568]
1560	ENSG00000172890	5078.002976	-0.590680354	0.060850917	3.38E-21	NADSYN1	NAD synthetase 1 [Source:HGNC Symbol;Acc:29832]
1561	ENSG00000177409	3380.221508	0.690229756	0.071136482	3.51E-21	SAMD9L	sterile alpha motif domain containing 9-like [Source:HGNC Symbol;Acc:1349]
1562	ENSG00000124107	1771.89233	-0.877136419	0.090436599	3.65E-21	SLPI	secretory leukocyte peptidase inhibitor [Source:HGNC Symbol;Acc:11092]

1563	ENSG00000013573	569.9352382	-1.314033324	0.135491782	3.67E-21	DDX11	DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 [Source:HGNC Symbol;Acc:2736]
1564	ENSG00000130150	1971.552523	-0.916578893	0.094535688	3.77E-21	MOSPD2	motile sperm domain containing 2 [Source:HGNC Symbol;Acc:28381]
1565	ENSG00000067840	181.666989	2.753096106	0.283987975	3.81E-21	PDZD4	PDZ domain containing 4 [Source:HGNC Symbol;Acc:21167]
1566	ENSG00000162881	657.7667809	-1.536061764	0.15847223	3.86E-21	OXER1	oxoeicosanoid (OXE) receptor 1 [Source:HGNC Symbol;Acc:24884]
1567	ENSG00000189319	1608.839308	1.047250236	0.108167091	4.30E-21	FAM53B	family with sequence similarity 53, member B [Source:HGNC Symbol;Acc:28968]
1568	ENSG00000140090	510.4229996	-1.450887971	0.149878234	4.36E-21	SLC24A4	solute carrier family 24 (sodium/potassium/calcium exchanger), member 4 [Source:HGNC Symbol;Acc:10978]
1569	ENSG00000267915	181.3203123	2.77427698	0.286757828	4.61E-21	PDZD4	PDZ domain containing 4 [Source:HGNC Symbol;Acc:21167]
1570	ENSG00000075151	2330.297283	-0.798060552	0.082514971	4.74E-21	EIF4G3	eukaryotic translation initiation factor 4 gamma, 3 [Source:HGNC Symbol;Acc:3298]
1571	ENSG00000265298	1230.299518	-0.925710869	0.095731684	4.82E-21	RP13-104F24.3	
1572	ENSG00000138376	397.2877368	-2.276962035	0.235500185	4.88E-21	BARD1	BRCA1 associated RING domain 1 [Source:HGNC Symbol;Acc:952]
1573	ENSG00000107338	148.8180452	-2.583963747	0.267295308	4.95E-21	SHB	Src homology 2 domain containing adaptor protein B [Source:HGNC Symbol;Acc:10838]
1574	ENSG00000181754	192.048749	2.554793639	0.264461878	5.28E-21	AMIGO1	adhesion molecule with Ig-like domain 1 [Source:HGNC Symbol;Acc:20824]
1575	ENSG00000205302	1683.139343	0.83230823	0.086185891	5.45E-21	SNX2	sorting nexin 2 [Source:HGNC Symbol;Acc:11173]
1576	ENSG00000168297	1812.361134	-0.860784875	0.089141702	5.49E-21	PXK	PX domain containing serine/threonine kinase [Source:HGNC Symbol;Acc:23326]
1577	ENSG00000184445	1157.246423	-0.96533302	0.100007422	5.69E-21	KNTC1	kinetochore associated 1 [Source:HGNC Symbol;Acc:17255]
1578	ENSG00000215764	137.0620716	3.032999493	0.314262314	5.76E-21	KIR2DL2	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 2 [Source:HGNC Symbol;Acc:6330]
1579	ENSG00000243753	103.6715271	3.791048325	0.392844328	5.81E-21	HLA-L	major histocompatibility complex, class I, L (pseudogene) [Source:HGNC Symbol;Acc:4970]
1580	ENSG00000134690	252.8238688	-1.932880992	0.200336392	5.93E-21	CDC48	cell division cycle associated 8 [Source:HGNC Symbol;Acc:14629]
1581	ENSG00000168056	546.1779679	1.421999726	0.147424201	6.07E-21	LTPB3	latent transforming growth factor beta binding protein 3 [Source:HGNC Symbol;Acc:6716]
1582	ENSG00000071242	508.1470599	-1.44806253	0.150137898	6.11E-21	RPS6KA2	ribosomal protein S6 kinase, 90kDa, polypeptide 2 [Source:HGNC Symbol;Acc:10431]
1583	ENSG00000062485	3678.413402	-0.654611006	0.067893958	6.30E-21	CS	citrate synthase [Source:HGNC Symbol;Acc:2422]
1584	ENSG00000025796	2222.695413	-0.766326269	0.079511357	6.53E-21	SEC63	SEC63 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:21082]
1585	ENSG00000249072	944.9973544	-1.244111423	0.12920203	7.11E-21	RP11-777B9.5	
1586	ENSG00000162777	2186.393936	0.781143615	0.081139802	7.25E-21	DENND2D	DENN/MADD domain containing 2D [Source:HGNC Symbol;Acc:26192]
1587	ENSG00000180773	691.7183765	-1.22057697	0.126845461	7.57E-21	SLC36A4	solute carrier family 36 (proton/amino acid symporter), member 4 [Source:HGNC Symbol;Acc:19660]
1588	ENSG00000164442	2618.13721	-0.679464893	0.070677701	8.26E-21	CITED2	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 2 [Source:HGNC Symbol;Acc:1987]
1589	ENSG00000103196	4307.496118	-0.622945835	0.064857669	8.99E-21	CRISPLD2	cysteine-rich secretory protein LCCL domain containing 2 [Source:HGNC Symbol;Acc:25248]
1590	ENSG00000112742	185.5605018	-2.324059875	0.241997202	9.08E-21	TTK	TTK protein kinase [Source:HGNC Symbol;Acc:12401]

1591	ENSG00000007062	156.3851134	2.66492754	0.277540417	9.23E-21	PROM1	prominin 1 [Source:HGNC Symbol;Acc:9454]
1592	ENSG00000134489	227.2880177	-2.032255448	0.211686965	9.37E-21	HRH4	histamine receptor H4 [Source:HGNC Symbol;Acc:17383]
1593	ENSG00000213625	2152.28496	-0.757266871	0.078892864	9.51E-21	LEPROT	leptin receptor overlapping transcript [Source:HGNC Symbol;Acc:29477]
1594	ENSG00000078269	1342.430325	-0.991437167	0.103291974	9.53E-21	SYNJ2	synaptojanin 2 [Source:HGNC Symbol;Acc:11504]
1595	ENSG00000141447	604.6313099	-1.353174194	0.141042915	9.94E-21	OSBPL1A	oxysterol binding protein-like 1A [Source:HGNC Symbol;Acc:16398]
1596	ENSG00000129675	4304.829623	-0.624644687	0.065130846	1.03E-20	ARHGEF6	Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6 [Source:HGNC Symbol;Acc:685]
1597	ENSG00000182782	653.968167	1.408372557	0.146928954	1.08E-20	HCAR2	hydroxycarboxylic acid receptor 2 [Source:HGNC Symbol;Acc:24827]
1598	ENSG00000198355	604.2879962	1.416664722	0.147806617	1.09E-20	PIM3	pim-3 oncogene [Source:HGNC Symbol;Acc:19310]
1599	ENSG00000117868	2096.684127	0.803450585	0.083836246	1.10E-20	ESYT2	extended synaptotagmin-like protein 2 [Source:HGNC Symbol;Acc:22211]
1600	ENSG00000137207	2477.108468	0.769605285	0.08036464	1.18E-20	YIPF3	Yip1 domain family, member 3 [Source:HGNC Symbol;Acc:21023]
1601	ENSG00000065328	174.0483665	-2.643641989	0.276161748	1.22E-20	MCM10	minichromosome maintenance complex component 10 [Source:HGNC Symbol;Acc:18043]
1602	ENSG00000126088	1007.69507	-0.986169596	0.103106059	1.32E-20	UROD	uroporphyrinogen decarboxylase [Source:HGNC Symbol;Acc:12591]
1603	ENSG00000270231	694.5821024	1.323617109	0.138538002	1.45E-20	NBPF10	Homo sapiens neuroblastoma breakpoint family, member 8 (NBPF8), transcript variant 1, mRNA. [Source:RefSeq mRNA;Acc:NM_001037501]
1604	ENSG00000111602	737.2045033	-1.264811716	0.132402683	1.47E-20	TIMELESS	timeless circadian clock [Source:HGNC Symbol;Acc:11813]
1605	ENSG00000078589	211.8818797	2.389620277	0.250260886	1.53E-20	P2RY10	purinergic receptor P2Y, G-protein coupled, 10 [Source:HGNC Symbol;Acc:19906]
1606	ENSG00000168754	80.86758892	-3.599044911	0.376937858	1.54E-20	FAM178B	family with sequence similarity 178, member B [Source:HGNC Symbol;Acc:28036]
1607	ENSG00000172232	3673.531022	-2.318827218	0.243106455	1.69E-20	AZU1	azurocidin 1 [Source:HGNC Symbol;Acc:913]
1608	ENSG00000072858	426.6260577	1.671421225	0.175262975	1.72E-20	SID1	SID1 transmembrane family, member 1 [Source:HGNC Symbol;Acc:25967]
1609	ENSG00000156273	3127.132199	0.981547135	0.102955252	1.76E-20	BACH1	BTB and CNC homology 1, basic leucine zipper transcription factor 1 [Source:HGNC Symbol;Acc:935]
1610	ENSG00000181191	176.6322212	2.415787051	0.253442152	1.79E-20	PJA1	praja ring finger 1, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:16648]
1611	ENSG00000170759	3428.36633	-0.649742111	0.068201498	1.88E-20	KIF5B	kinesin family member 5B [Source:HGNC Symbol;Acc:6324]
1612	ENSG00000105810	1857.561006	0.899754988	0.094474012	1.94E-20	CDK6	cyclin-dependent kinase 6 [Source:HGNC Symbol;Acc:1777]
1613	ENSG00000175137	2127.827481	-0.756555895	0.079465818	2.00E-20	SH3BP5L	SH3-binding domain protein 5-like [Source:HGNC Symbol;Acc:29360]
1614	ENSG00000163527	4253.742902	0.706467728	0.074207452	2.00E-20	STT3B	STT3B, subunit of the oligosaccharyltransferase complex (catalytic) [Source:HGNC Symbol;Acc:30611]
1615	ENSG00000102935	52.31852892	4.7583801	0.499845607	2.01E-20	ZNF423	zinc finger protein 423 [Source:HGNC Symbol;Acc:16762]
1616	ENSG00000215328	2382.529316	-1.000796226	0.105146587	2.04E-20	HSPA1A	heat shock 70kDa protein 1A [Source:HGNC Symbol;Acc:5232]
1617	ENSG00000206292	154.640015	2.839052228	0.298361801	2.09E-20	HLA-DOA	major histocompatibility complex, class II, DO alpha [Source:HGNC Symbol;Acc:4936]
1618	ENSG00000198399	5164.16142	-0.573105632	0.060235774	2.11E-20	ITSN2	intersectin 2 [Source:HGNC Symbol;Acc:6184]



1619	ENSG00000131873	1676.339191	-1.076424515	0.113162408	2.16E-20	CHSY1	chondroitin sulfate synthase 1 [Source:HGNC Symbol;Acc:17198]
1620	ENSG00000130813	1259.444112	0.983129484	0.103404898	2.25E-20	C19orf66	chromosome 19 open reading frame 66 [Source:HGNC Symbol;Acc:25649]
1621	ENSG00000010017	1513.914238	-0.840590218	0.088427353	2.29E-20	RANBP9	RAN binding protein 9 [Source:HGNC Symbol;Acc:13727]
1622	ENSG00000100427	830.3346162	-1.246502121	0.131161652	2.34E-20	MLC1	megalencephalic leukoencephalopathy with subcortical cysts 1 [Source:HGNC Symbol;Acc:17082]
1623	ENSG00000139292	48.87340162	4.895806136	0.515398791	2.44E-20	LGR5	leucine-rich repeat containing G protein-coupled receptor 5 [Source:HGNC Symbol;Acc:4504]
1624	ENSG00000112245	2294.322346	-1.000975725	0.105388771	2.47E-20	PTP4A1	protein tyrosine phosphatase type IVA, member 1 [Source:HGNC Symbol;Acc:9634]
1625	ENSG00000262383	326.9194598	-1.690643208	0.17806335	2.54E-20	LILRA3	leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3 [Source:HGNC Symbol;Acc:6604]
1626	ENSG00000261935	326.9192372	-1.690638257	0.178063883	2.54E-20	LILRA3	leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3 [Source:HGNC Symbol;Acc:6604]
1627	ENSG00000261937	326.919098	-1.690630714	0.178063093	2.54E-20	LILRA3	leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3 [Source:HGNC Symbol;Acc:6604]
1628	ENSG00000170866	326.9192586	-1.690635355	0.178063587	2.54E-20	LILRA3	leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3 [Source:HGNC Symbol;Acc:6604]
1629	ENSG00000169994	726.7174392	1.493269669	0.15732827	2.62E-20	MYO7B	myosin VII B [Source:HGNC Symbol;Acc:7607]
1630	ENSG00000112299	1368.312687	-1.060666742	0.111813606	2.76E-20	VNN1	vanin 1 [Source:HGNC Symbol;Acc:12705]
1631	ENSG00000145349	296.8571898	2.059206626	0.217163728	2.85E-20	CAMK2D	calcium/calmodulin-dependent protein kinase II delta [Source:HGNC Symbol;Acc:1462]
1632	ENSG00000234745	11476.18588	0.63799721	0.067305074	2.94E-20	HLA-B	major histocompatibility complex, class I, B [Source:HGNC Symbol;Acc:4932]
1633	ENSG00000149091	6223.944279	-0.80166027	0.084642614	3.17E-20	DGKZ	diacylglycerol kinase, zeta [Source:HGNC Symbol;Acc:2857]
1634	ENSG00000149806	5108.386429	0.718896174	0.075906289	3.18E-20	FAU	Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuSV) ubiquitously expressed [Source:HGNC Symbol;Acc:3597]
1635	ENSG00000154710	1157.463207	-0.977975146	0.103278917	3.23E-20	RABGEF1	RAB guanine nucleotide exchange factor (GEF) 1 [Source:HGNC Symbol;Acc:17676]
1636	ENSG0000009694	1058.976378	-1.449867193	0.153134439	3.26E-20	TENM1	teneurin transmembrane protein 1 [Source:HGNC Symbol;Acc:8117]
1637	ENSG00000197405	16377.83797	-0.451795094	0.047719823	3.27E-20	C5AR1	complement component 5a receptor 1 [Source:HGNC Symbol;Acc:1338]
1638	ENSG00000121053	117.0535372	-2.975565462	0.314405052	3.38E-20	EPX	eosinophil peroxidase [Source:HGNC Symbol;Acc:3423]
1639	ENSG00000102226	619.7002315	1.561226253	0.165023072	3.49E-20	USP11	ubiquitin specific peptidase 11 [Source:HGNC Symbol;Acc:12609]
1640	ENSG00000167524	743.1244349	-1.142684947	0.1208374	3.64E-20	SGK494	uncharacterized serine/threonine-protein kinase SgK494 [Source:RefSeq peptide;Acc:NP_001274136]
1641	ENSG00000063046	8351.223888	0.527148577	0.055829815	4.17E-20	EIF4B	eukaryotic translation initiation factor 4B [Source:HGNC Symbol;Acc:3285]
1642	ENSG00000122034	1992.726944	0.834995399	0.088537691	4.63E-20	GTF3A	general transcription factor IIIA [Source:HGNC Symbol;Acc:4662]
1643	ENSG00000120533	1615.552485	-0.899438281	0.095397736	4.75E-20	ENY2	enhancer of yellow 2 homolog (Drosophila) [Source:HGNC Symbol;Acc:24449]
1644	ENSG00000179304	1038.328097	-1.441073813	0.152981197	5.14E-20	FAM156B	family with sequence similarity 156, member B [Source:HGNC Symbol;Acc:31962]
1645	ENSG00000012048	587.3495985	-1.252088976	0.13293712	5.20E-20	BRCA1	breast cancer 1, early onset [Source:HGNC Symbol;Acc:1100]
1646	ENSG00000140941	3075.072379	-0.689001626	0.073166397	5.28E-20	MAP1LC3B	microtubule-associated protein 1 light chain 3 beta [Source:HGNC Symbol;Acc:13352]

1647	ENSG00000198740	2617.23261	0.710830279	0.0755949	6.02E-20	ZNF652	zinc finger protein 652 [Source:HGNC Symbol;Acc:29147]
1648	ENSG00000134333	5957.975118	-0.573023101	0.061021213	6.78E-20	LDHA	lactate dehydrogenase A [Source:HGNC Symbol;Acc:6535]
1649	ENSG00000198231	3548.28576	-0.636090591	0.067768112	7.05E-20	DDX42	DEAD (Asp-Glu-Ala-Asp) box helicase 42 [Source:HGNC Symbol;Acc:18676]
1650	ENSG00000146670	324.2459397	-1.815469217	0.193418048	7.05E-20	CDCAS	cell division cycle associated 5 [Source:HGNC Symbol;Acc:14626]
1651	ENSG00000073111	666.8973705	-1.287355859	0.137249386	7.50E-20	MCM2	minichromosome maintenance complex component 2 [Source:HGNC Symbol;Acc:6944]
1652	ENSG00000113810	1992.398064	-0.753879519	0.080432052	8.00E-20	SMC4	structural maintenance of chromosomes 4 [Source:HGNC Symbol;Acc:14013]
1653	ENSG00000093072	1887.292506	0.807770113	0.086189545	8.06E-20	CECR1	cat eye syndrome chromosome region, candidate 1 [Source:HGNC Symbol;Acc:1839]
1654	ENSG00000168675	833.4950551	-1.16476705	0.124357842	8.50E-20	LDLRAD4	low density lipoprotein receptor class A domain containing 4 [Source:HGNC Symbol;Acc:1224]
1655	ENSG00000112763	3191.922383	0.653646268	0.069807227	8.71E-20	BTN2A1	butyrophilin, subfamily 2, member A1 [Source:HGNC Symbol;Acc:1136]
1656	ENSG00000188163	64.34825036	-3.894636162	0.415999523	8.83E-20	FAM166A	family with sequence similarity 166, member A [Source:HGNC Symbol;Acc:33818]
1657	ENSG00000110934	15691.47862	-0.421334905	0.045020931	9.12E-20	BIN2	bridging integrator 2 [Source:HGNC Symbol;Acc:1053]
1658	ENSG00000131626	1918.365694	-0.778971235	0.083283483	9.59E-20	PPFIA1	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 1 [Source:HGNC Symbol;Acc:9245]
1659	ENSG00000165030	1934.704043	-0.759946981	0.081340521	1.06E-19	NFIL3	nuclear factor, interleukin 3 regulated [Source:HGNC Symbol;Acc:7787]
1660	ENSG00000130309	3115.253154	-0.682216878	0.073097526	1.16E-19	COLGALT1	collagen beta(1-O)galactosyltransferase 1 [Source:HGNC Symbol;Acc:26182]
1661	ENSG00000127124	196.8412668	2.351466286	0.251970379	1.17E-19	HIVEP3	human immunodeficiency virus type I enhancer binding protein 3 [Source:HGNC Symbol;Acc:13561]
1662	ENSG00000100380	2272.887434	0.710421483	0.076137044	1.18E-19	ST13	suppression of tumorigenicity 13 (colon carcinoma) (Hsp70 interacting protein) [Source:HGNC Symbol;Acc:11343]
1663	ENSG00000107263	2391.388121	1.012702482	0.108540965	1.19E-19	RAPGEF1	Rap guanine nucleotide exchange factor (GEF) 1 [Source:HGNC Symbol;Acc:4568]
1664	ENSG00000115677	3898.629812	-0.646346426	0.069321545	1.26E-19	HDLBP	high density lipoprotein binding protein [Source:HGNC Symbol;Acc:4857]
1665	ENSG00000104361	788.6826898	-1.238754226	0.132910609	1.31E-19	NIPAL2	NIPA-like domain containing 2 [Source:HGNC Symbol;Acc:25854]
1666	ENSG00000205810	105.9165097	3.503341245	0.375980465	1.33E-19	KLRC3	killer cell lectin-like receptor subfamily C, member 3 [Source:HGNC Symbol;Acc:6376]
1667	ENSG00000237192	75.05109166	-3.568914125	0.38317437	1.38E-19	TRIM10	tripartite motif containing 10 [Source:HGNC Symbol;Acc:10072]
1668	ENSG00000111261	1783.217414	-0.832834575	0.089448284	1.42E-19	MANSC1	MANSC domain containing 1 [Source:HGNC Symbol;Acc:25505]
1669	ENSG00000054267	2224.478602	0.785775741	0.084456149	1.52E-19	ARID4B	AT rich interactive domain 4B (RBP1-like) [Source:HGNC Symbol;Acc:15550]
1670	ENSG00000115944	2112.48089	-0.753656148	0.081077218	1.64E-19	COX7A2L	cytochrome c oxidase subunit VIIa polypeptide 2 like [Source:HGNC Symbol;Acc:2289]
1671	ENSG00000057704	1401.518618	0.894190266	0.096211645	1.66E-19	TMCC3	transmembrane and coiled-coil domain family 3 [Source:HGNC Symbol;Acc:29199]
1672	ENSG00000178498	262.9842211	2.150473968	0.231582926	1.79E-19	DTX3	deltex homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:24457]
1673	ENSG00000155926	5248.130917	-0.561051575	0.060428726	1.82E-19	SLA	Src-like-adaptor [Source:HGNC Symbol;Acc:10902]
1674	ENSG00000101160	4714.720467	-0.552200223	0.059563374	2.07E-19	CTSZ	cathepsin Z [Source:HGNC Symbol;Acc:2547]

1675	ENSG00000135932	4984.712188	-0.531646752	0.057349555	2.07E-19	CAB39	calcium binding protein 39 [Source:HGNC Symbol;Acc:20292]
1676	ENSG00000205220	1011.62758	1.250225252	0.135044999	2.33E-19	PSMB10	proteasome (prosome, macropain) subunit, beta type, 10 [Source:HGNC Symbol;Acc:9538]
1677	ENSG00000174233	140.2162061	2.727961449	0.29485153	2.46E-19	ADCY6	adenylate cyclase 6 [Source:HGNC Symbol;Acc:237]
1678	ENSG00000179862	551.9653935	-1.363454181	0.147398142	2.50E-19	CITED4	Cbp/p300-interacting transactivator, with Glu/Asp-rich carboxy-terminal domain, 4 [Source:HGNC Symbol;Acc:18696]
1679	ENSG00000136573	221.9310933	2.177209456	0.235435659	2.56E-19	BLK	B lymphoid tyrosine kinase [Source:HGNC Symbol;Acc:1057]
1680	ENSG00000162836	606.2177406	-1.2933472	0.139915721	2.65E-19	ACP6	acid phosphatase 6, lysophosphatidic [Source:HGNC Symbol;Acc:29609]
1681	ENSG00000134109	3533.615651	-0.657066845	0.071141415	2.85E-19	EDEM1	ER degradation enhancer, mannosidase alpha-like 1 [Source:HGNC Symbol;Acc:18967]
1682	ENSG00000135437	467.0889923	-1.47099856	0.159346166	2.97E-19	RDH5	retinol dehydrogenase 5 (11-cis/9-cis) [Source:HGNC Symbol;Acc:9940]
1683	ENSG00000126705	167.6024654	2.620414405	0.283886504	3.00E-19	AHDC1	AT hook, DNA binding motif, containing 1 [Source:HGNC Symbol;Acc:25230]
1684	ENSG00000185101	396.5390262	2.011836617	0.218048314	3.11E-19	ANO9	anoctamin 9 [Source:HGNC Symbol;Acc:20679]
1685	ENSG00000179981	456.8043961	1.521880442	0.165048944	3.28E-19	TSHZ1	teashirt zinc finger homeobox 1 [Source:HGNC Symbol;Acc:10669]
1686	ENSG00000117560	134.0232873	2.749416662	0.2981863	3.28E-19	FASLG	Fas ligand (TNF superfamily, member 6) [Source:HGNC Symbol;Acc:11936]
1687	ENSG00000077097	3829.975866	0.631847541	0.068537025	3.32E-19	TOP2B	topoisomerase (DNA) II beta 180kDa [Source:HGNC Symbol;Acc:11990]
1688	ENSG00000123349	5586.692362	0.54894735	0.059548406	3.34E-19	PFDN5	prefoldin subunit 5 [Source:HGNC Symbol;Acc:8869]
1689	ENSG00000145741	4524.906838	0.568104162	0.061653847	3.47E-19	BTF3	basic transcription factor 3 [Source:HGNC Symbol;Acc:1125]
1690	ENSG00000240240	207.5060574	-2.152427684	0.233642965	3.53E-19	RP11-146D12.2	
1691	ENSG00000027697	4242.712494	0.600521719	0.065203711	3.61E-19	IFNGR1	interferon gamma receptor 1 [Source:HGNC Symbol;Acc:5439]
1692	ENSG00000162714	450.3468241	1.421961458	0.154473874	3.77E-19	ZNF496	zinc finger protein 496 [Source:HGNC Symbol;Acc:23713]
1693	ENSG00000131462	287.3109506	-1.719136669	0.186863856	3.96E-19	TUBG1	tubulin, gamma 1 [Source:HGNC Symbol;Acc:12417]
1694	ENSG00000100503	6506.051919	-0.558170099	0.060681184	4.01E-19	NIN	ninein (GSK3B interacting protein) [Source:HGNC Symbol;Acc:14906]
1695	ENSG00000138172	300.1430228	1.996783903	0.217234312	4.26E-19	CALHM2	calcium homeostasis modulator 2 [Source:HGNC Symbol;Acc:23493]
1696	ENSG00000117450	1054.235831	0.996138244	0.10844757	4.52E-19	PRDX1	peroxiredoxin 1 [Source:HGNC Symbol;Acc:9352]
1697	ENSG00000141504	1134.864231	-0.90339186	0.098362827	4.57E-19	SAT2	spermidine/spermine N1-acetyltransferase family member 2 [Source:HGNC Symbol;Acc:23160]
1698	ENSG00000005156	916.029314	-1.216905911	0.1325229	4.64E-19	LIG3	ligase III, DNA, ATP-dependent [Source:HGNC Symbol;Acc:6600]
1699	ENSG00000164010	604.4408553	-1.205490723	0.131328717	4.78E-19	ERMAP	erythroblast membrane-associated protein (Scianna blood group) [Source:HGNC Symbol;Acc:15743]
1700	ENSG00000170962	135.4815103	2.800399554	0.305116581	4.83E-19	PDGFD	platelet derived growth factor D [Source:HGNC Symbol;Acc:30620]
1701	ENSG00000169228	5722.079254	-0.539523302	0.058786703	4.85E-19	RAB24	RAB24, member RAS oncogene family [Source:HGNC Symbol;Acc:9765]
1702	ENSG00000162729	247.4304916	2.114516751	0.230450926	4.94E-19	IGSF8	immunoglobulin superfamily, member 8 [Source:HGNC Symbol;Acc:17813]

1703	ENSG00000164045	162.0673958	-2.377043886	0.259189236	5.15E-19	CDC25A	cell division cycle 25A [Source:HGNC Symbol;Acc:1725]
1704	ENSG00000196757	1694.210821	-0.827681478	0.090333827	5.57E-19	ZNF700	zinc finger protein 700 [Source:HGNC Symbol;Acc:25292]
1705	ENSG00000166507	1220.296981	-1.029440689	0.11236622	5.62E-19	NDST2	N-deacetylase/N-sulfotransferase (heparan glucosaminyl) 2 [Source:HGNC Symbol;Acc:7681]
1706	ENSG00000124126	10082.00133	0.594580635	0.065007202	6.46E-19	PREX1	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1 [Source:HGNC Symbol;Acc:32594]
1707	ENSG00000175040	455.7781899	1.462039636	0.159882556	6.57E-19	CHST2	carbohydrate (N-acetylglucosamine-6-O) sulfotransferase 2 [Source:HGNC Symbol;Acc:1970]
1708	ENSG00000224106	106.6132313	-2.839031146	0.31055854	6.74E-19	CYP4F25P	cytochrome P450, family 4, subfamily F, polypeptide 25, pseudogene [Source:HGNC Symbol;Acc:39949]
1709	ENSG00000182511	3025.116798	-0.993074941	0.108652618	6.84E-19	FES	feline sarcoma oncogene [Source:HGNC Symbol;Acc:3657]
1710	ENSG00000179715	439.4893815	1.636868527	0.179120128	6.94E-19	PCED1B	PC-esterase domain containing 1B [Source:HGNC Symbol;Acc:28255]
1711	ENSG00000072694	1376.675669	0.877178298	0.096026368	7.17E-19	FCGR2B	Fc fragment of IgG, low affinity IIb, receptor (CD32) [Source:HGNC Symbol;Acc:3618]
1712	ENSG00000008283	308.3692475	1.837049946	0.201113963	7.19E-19	CYB561	cytochrome b561 [Source:HGNC Symbol;Acc:2571]
1713	ENSG00000142945	264.8528422	-2.329484662	0.255044821	7.24E-19	KIF2C	kinesin family member 2C [Source:HGNC Symbol;Acc:6393]
1714	ENSG00000141480	20600.27634	-0.413735857	0.045299236	7.25E-19	ARRB2	arrestin, beta 2 [Source:HGNC Symbol;Acc:712]
1715	ENSG00000197771	2669.811225	-0.653731913	0.071607913	7.52E-19	MCMBP	minichromosome maintenance complex binding protein [Source:HGNC Symbol;Acc:25782]
1716	ENSG00000146192	519.3242229	1.378149181	0.150959554	7.52E-19	FGD2	FYVE, RhoGEF and PH domain containing 2 [Source:HGNC Symbol;Acc:3664]
1717	ENSG00000163644	803.6377071	1.209205472	0.132468639	7.59E-19	PPM1K	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1K [Source:HGNC Symbol;Acc:25415]
1718	ENSG00000145220	450.3794585	1.446543478	0.158488886	7.66E-19	LYAR	Ly1 antibody reactive [Source:HGNC Symbol;Acc:26021]
1719	ENSG00000073849	2512.612876	0.695070198	0.076169119	7.78E-19	ST6GAL1	ST6 beta-galactosamide alpha-2,6-sialyltransferase 1 [Source:HGNC Symbol;Acc:10860]
1720	ENSG00000213085	170.2610514	2.526195779	0.276868615	7.87E-19	CCDC19	coiled-coil domain containing 19 [Source:HGNC Symbol;Acc:17229]
1721	ENSG00000090686	3488.716625	-0.674871018	0.074044902	8.61E-19	USP48	ubiquitin specific peptidase 48 [Source:HGNC Symbol;Acc:18533]
1722	ENSG00000197746	32556.24809	-0.379498513	0.041667781	9.14E-19	PSAP	prosaposin [Source:HGNC Symbol;Acc:9498]
1723	ENSG00000096070	1448.586097	-0.846403517	0.09294269	9.22E-19	BRPF3	bromodomain and PHD finger containing, 3 [Source:HGNC Symbol;Acc:14256]
1724	ENSG00000109787	3426.339046	0.650606832	0.071464693	9.46E-19	KLF3	Kruppel-like factor 3 (basic) [Source:HGNC Symbol;Acc:16516]
1725	ENSG00000169193	448.9506909	-1.401233568	0.153928762	9.52E-19	CCDC126	coiled-coil domain containing 126 [Source:HGNC Symbol;Acc:22398]
1726	ENSG00000157978	1546.028242	1.022269558	0.112302693	9.54E-19	LDLRAP1	low density lipoprotein receptor adaptor protein 1 [Source:HGNC Symbol;Acc:18640]
1727	ENSG00000106948	8460.692469	0.670488015	0.07370469	1.01E-18	AKNA	AT-hook transcription factor [Source:HGNC Symbol;Acc:24108]
1728	ENSG00000100034	2705.682634	0.895538654	0.098544066	1.10E-18	PPM1F	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1F [Source:HGNC Symbol;Acc:19388]
1729	ENSG00000092929	5908.203605	-0.777949948	0.085604992	1.10E-18	UNC13D	unc-13 homolog D (C. elegans) [Source:HGNC Symbol;Acc:23147]
1730	ENSG00000188643	52.41805258	4.421076562	0.486529522	1.10E-18	S100A16	S100 calcium binding protein A16 [Source:HGNC Symbol;Acc:20441]

1731	ENSG00000160185	308.8561604	1.832002578	0.201680334	1.13E-18	UBASH3A	ubiquitin associated and SH3 domain containing A [Source:HGNC Symbol;Acc:12462]
1732	ENSG00000184005	212.5781519	-2.09727334	0.230954917	1.16E-18	ST6GALNAC3	ST6 (alpha-N-acetyl-neuraminy-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 3 [Source:HGNC Symbol;Acc:19343]
1733	ENSG00000154358	328.1963754	1.871511011	0.206175981	1.20E-18	OBSCN	obscurin, cytoskeletal calmodulin and titin-interacting RhoGEF [Source:HGNC Symbol;Acc:15719]
1734	ENSG00000138767	2231.274588	0.703657257	0.077522397	1.21E-18	CNOT6L	CCR4-NOT transcription complex, subunit 6-like [Source:HGNC Symbol;Acc:18042]
1735	ENSG00000165879	1542.066967	0.864001875	0.095236335	1.26E-18	FRAT1	frequently rearranged in advanced T-cell lymphomas [Source:HGNC Symbol;Acc:3944]
1736	ENSG00000139508	487.6525477	1.369655797	0.151106348	1.35E-18	SLC46A3	solute carrier family 46, member 3 [Source:HGNC Symbol;Acc:27501]
1737	ENSG00000248592	986.5269617	-0.989921603	0.109277739	1.42E-18	TMEM110-MUSTN1	TMEM110-MUSTN1 readthrough [Source:HGNC Symbol;Acc:38834]
1738	ENSG00000134108	1824.131874	-0.929711558	0.102635726	1.43E-18	ARL8B	ADP-ribosylation factor-like 8B [Source:HGNC Symbol;Acc:25564]
1739	ENSG00000153898	242.4288175	1.946452075	0.214887636	1.43E-18	MCOLN2	mucoilin 2 [Source:HGNC Symbol;Acc:13357]
1740	ENSG00000167658	11631.31171	0.537652502	0.059374026	1.46E-18	EEF2	eukaryotic translation elongation factor 2 [Source:HGNC Symbol;Acc:3214]
1741	ENSG00000148484	1999.489574	-0.754147088	0.083310154	1.50E-18	RSU1	Ras suppressor protein 1 [Source:HGNC Symbol;Acc:10464]
1742	ENSG00000143514	976.3105437	-1.011056727	0.111723508	1.54E-18	TP53BP2	tumor protein p53 binding protein, 2 [Source:HGNC Symbol;Acc:12000]
1743	ENSG00000229685	120.9000759	2.72159155	0.300893456	1.61E-18	HLA-DPA1	major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:4938]
1744	ENSG00000166439	1958.512461	0.734679769	0.081248355	1.64E-18	RNF169	ring finger protein 169 [Source:HGNC Symbol;Acc:26961]
1745	ENSG00000143401	2163.694358	-0.803321253	0.088871683	1.69E-18	ANP32E	acidic (leucine-rich) nuclear phosphoprotein 32 family, member E [Source:HGNC Symbol;Acc:16673]
1746	ENSG00000137802	789.8824711	1.218231786	0.134801326	1.72E-18	MAPKBP1	mitogen-activated protein kinase binding protein 1 [Source:HGNC Symbol;Acc:29536]
1747	ENSG00000114770	4869.462885	-0.566036174	0.06263792	1.73E-18	ABCC5	ATP-binding cassette, sub-family C (CFTR/MRP), member 5 [Source:HGNC Symbol;Acc:56]
1748	ENSG00000182319	159.3004416	2.522998425	0.279460079	1.87E-18	SGK223	Tyrosine-protein kinase Sgk223 [Source:UniProtKB/Swiss-Prot;Acc:Q86YV5]
1749	ENSG00000117632	2792.70485	-0.687988022	0.076210881	1.88E-18	STMN1	stathmin 1 [Source:HGNC Symbol;Acc:6510]
1750	ENSG00000272578	2129.088162	-0.694213194	0.076952663	1.99E-18	AP000347.2	
1751	ENSG00000137486	1338.022601	0.944259681	0.104834736	2.26E-18	ARRB1	arrestin, beta 1 [Source:HGNC Symbol;Acc:711]
1752	ENSG00000060558	553.3641165	1.343262411	0.149199878	2.34E-18	GNA15	guanine nucleotide binding protein (G protein), alpha 15 (Gq class) [Source:HGNC Symbol;Acc:4383]
1753	ENSG00000169607	190.6935034	-2.252538501	0.250363976	2.48E-18	CKAP2L	cytoskeleton associated protein 2-like [Source:HGNC Symbol;Acc:26877]
1754	ENSG00000135720	3738.891859	-0.650107076	0.072262173	2.49E-18	DYNC1LI2	dynein, cytoplasmic 1, light intermediate chain 2 [Source:HGNC Symbol;Acc:2966]
1755	ENSG00000223448	360.5535572	1.618738082	0.180060828	2.64E-18	LTB	lymphotoxin beta (TNF superfamily, member 3) [Source:HGNC Symbol;Acc:6711]
1756	ENSG00000236237	360.3638027	1.617483744	0.179935499	2.65E-18	LTB	lymphotoxin beta (TNF superfamily, member 3) [Source:HGNC Symbol;Acc:6711]
1757	ENSG00000141252	1895.256495	-1.093993578	0.121705868	2.66E-18	VPS53	vacuolar protein sorting 53 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:25608]
1758	ENSG00000156535	174.8082338	2.234770832	0.248624429	2.67E-18	CD109	CD109 molecule [Source:HGNC Symbol;Acc:21685]

1759	ENSG00000137078	198.1057986	2.267138236	0.252249477	2.69E-18	SIT1	signaling threshold regulating transmembrane adaptor 1 [Source:HGNC Symbol;Acc:17710]
1760	ENSG00000179909	323.1037828	1.628552019	0.18142278	2.97E-18	ZNF154	zinc finger protein 154 [Source:HGNC Symbol;Acc:12939]
1761	ENSG00000111348	43654.92545	-0.389637429	0.043436193	3.14E-18	ARHGDI3	Rho GDP dissociation inhibitor (GDI) beta [Source:HGNC Symbol;Acc:679]
1762	ENSG00000088930	2086.795047	0.758101333	0.084525937	3.18E-18	XRN2	5'-3' exoribonuclease 2 [Source:HGNC Symbol;Acc:12836]
1763	ENSG00000178199	249.9318774	1.949198607	0.217354678	3.21E-18	ZC3H12D	zinc finger CCCH-type containing 12D [Source:HGNC Symbol;Acc:21175]
1764	ENSG00000263228	45.37402897	4.497785494	0.501577842	3.22E-18	RP11-44D15.6	
1765	ENSG00000160685	3222.845384	-0.762203944	0.085017668	3.28E-18	ZBTB7B	zinc finger and BTB domain containing 7B [Source:HGNC Symbol;Acc:18668]
1766	ENSG00000241106	298.4148983	1.878957488	0.20971695	3.46E-18	HLA-DOB	major histocompatibility complex, class II, DO beta [Source:HGNC Symbol;Acc:4937]
1767	ENSG00000243811	298.6937971	1.786229835	0.199376171	3.47E-18	APOBEC3D	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3D [Source:HGNC Symbol;Acc:17354]
1768	ENSG00000173821	12693.28793	0.412168701	0.046006847	3.47E-18	RNF213	ring finger protein 213 [Source:HGNC Symbol;Acc:14539]
1769	ENSG00000040341	767.7152616	-1.109783288	0.123892382	3.51E-18	STAU2	staufen double-stranded RNA binding protein 2 [Source:HGNC Symbol;Acc:11371]
1770	ENSG00000154760	2325.418926	-0.73420555	0.082003411	3.65E-18	SLFN13	schlafen family member 13 [Source:HGNC Symbol;Acc:26481]
1771	ENSG00000112984	228.8541091	-1.989586447	0.222254314	3.69E-18	KIF20A	kinesin family member 20A [Source:HGNC Symbol;Acc:9787]
1772	ENSG00000070019	175.3066743	-2.197658916	0.245526251	3.73E-18	GUCY2C	guanylate cyclase 2C (heat stable enterotoxin receptor) [Source:HGNC Symbol;Acc:4688]
1773	ENSG00000236925	360.1514331	1.615572155	0.180526419	3.78E-18	LTB	lymphotoxin beta (TNF superfamily, member 3) [Source:HGNC Symbol;Acc:6711]
1774	ENSG00000206437	360.1515317	1.615572682	0.180526533	3.78E-18	LTB	lymphotoxin beta (TNF superfamily, member 3) [Source:HGNC Symbol;Acc:6711]
1775	ENSG00000114737	636.1208257	-1.224372601	0.136822612	3.80E-18	CISH	cytokine inducible SH2-containing protein [Source:HGNC Symbol;Acc:1984]
1776	ENSG00000170365	155.8289381	3.026754842	0.338421288	3.96E-18	SMAD1	SMAD family member 1 [Source:HGNC Symbol;Acc:6767]
1777	ENSG00000108819	3787.83822	0.760234691	0.085008347	3.99E-18	PPP1R9B	protein phosphatase 1, regulatory subunit 9B [Source:HGNC Symbol;Acc:9298]
1778	ENSG00000143476	257.4098096	-2.001936322	0.223922636	4.08E-18	DTL	denticleless E3 ubiquitin protein ligase homolog (Drosophila) [Source:HGNC Symbol;Acc:30288]
1779	ENSG00000136827	1480.019543	-0.802812303	0.089824229	4.18E-18	TOR1A	torsin family 1, member A (torsin A) [Source:HGNC Symbol;Acc:3098]
1780	ENSG00000204487	360.0190606	1.614549397	0.180678596	4.24E-18	LTB	lymphotoxin beta (TNF superfamily, member 3) [Source:HGNC Symbol;Acc:6711]
1781	ENSG00000231314	360.0190119	1.614548141	0.180678752	4.24E-18	LTB	lymphotoxin beta (TNF superfamily, member 3) [Source:HGNC Symbol;Acc:6711]
1782	ENSG00000238114	360.0189847	1.614546831	0.180679007	4.24E-18	LTB	lymphotoxin beta (TNF superfamily, member 3) [Source:HGNC Symbol;Acc:6711]
1783	ENSG00000181458	863.2357279	-1.032155548	0.115596386	4.51E-18	TMEM45A	transmembrane protein 45A [Source:HGNC Symbol;Acc:25480]
1784	ENSG00000132819	1715.90077	-1.065406552	0.119608238	5.48E-18	RBM38	RNA binding motif protein 38 [Source:HGNC Symbol;Acc:15818]
1785	ENSG00000164877	241.450275	-1.946250113	0.21860554	5.70E-18	MICALL2	MICAL-like 2 [Source:HGNC Symbol;Acc:29672]
1786	ENSG00000163874	912.5032018	-1.154605173	0.129701743	5.75E-18	ZC3H12A	zinc finger CCCH-type containing 12A [Source:HGNC Symbol;Acc:26259]

1787	ENSG00000140534	185.246712	-2.126552253	0.239018136	6.01E-18	TICRR	TOPBP1-interacting checkpoint and replication regulator [Source:HGNC Symbol;Acc:28704]
1788	ENSG00000121417	621.152304	1.195925031	0.134428861	6.04E-18	ZNF211	zinc finger protein 211 [Source:HGNC Symbol;Acc:13003]
1789	ENSG00000196968	537.7808675	1.266524862	0.14238836	6.12E-18	FUT11	fucosyltransferase 11 (alpha (1,3) fucosyltransferase) [Source:HGNC Symbol;Acc:19233]
1790	ENSG00000152926	2162.324218	0.757201231	0.085149069	6.24E-18	ZNF117	zinc finger protein 117 [Source:HGNC Symbol;Acc:12897]
1791	ENSG00000171101	159.3356655	2.50696794	0.282124704	6.62E-18	SIGLEC17P	sialic acid binding Ig-like lectin 17, pseudogene [Source:HGNC Symbol;Acc:15604]
1792	ENSG00000261900	2214.443569	-0.735478541	0.082821872	6.97E-18	ZNF518A	zinc finger protein 518A [Source:HGNC Symbol;Acc:29009]
1793	ENSG00000110076	52.93423837	4.151580668	0.467857929	7.39E-18	NRXN2	neurexin 2 [Source:HGNC Symbol;Acc:8009]
1794	ENSG00000164086	446.3341305	1.416410017	0.159775938	7.98E-18	DUSP7	dual specificity phosphatase 7 [Source:HGNC Symbol;Acc:3073]
1795	ENSG00000148908	565.7554373	1.305979769	0.147444439	8.54E-18	RGS10	regulator of G-protein signaling 10 [Source:HGNC Symbol;Acc:9992]
1796	ENSG00000122359	10433.44993	-0.51469234	0.058126659	8.75E-18	ANXA11	annexin A11 [Source:HGNC Symbol;Acc:535]
1797	ENSG00000108946	7219.96937	0.539010314	0.060882005	8.84E-18	PRKAR1A	protein kinase, cAMP-dependent, regulatory, type I, alpha [Source:HGNC Symbol;Acc:9388]
1798	ENSG00000197070	2063.193228	-0.850393707	0.09610447	9.22E-18	ARRDC1	arrestin domain containing 1 [Source:HGNC Symbol;Acc:28633]
1799	ENSG00000167461	2416.785295	0.720416697	0.081460472	9.63E-18	RAB8A	RAB8A, member RAS oncogene family [Source:HGNC Symbol;Acc:7007]
1800	ENSG00000074356	1733.89807	-0.753166648	0.085218661	1.01E-17	C17orf85	chromosome 17 open reading frame 85 [Source:HGNC Symbol;Acc:24612]
1801	ENSG00000118900	5382.034998	-0.532573338	0.060262042	1.02E-17	UBN1	ubiquitin 1 [Source:HGNC Symbol;Acc:12506]
1802	ENSG00000136404	1262.287936	-0.906632085	0.102604129	1.03E-17	TM6SF1	transmembrane 6 superfamily member 1 [Source:HGNC Symbol;Acc:11860]
1803	ENSG00000184040	214.9198801	2.519865964	0.285294259	1.06E-17	TMEM236	
1804	ENSG00000175215	8235.062294	0.455769751	0.051606114	1.07E-17	CTDSP2	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) small phosphatase 2 [Source:HGNC Symbol;Acc:17077]
1805	ENSG00000106546	528.584224	1.458925788	0.165191994	1.07E-17	AHR	aryl hydrocarbon receptor [Source:HGNC Symbol;Acc:348]
1806	ENSG00000179456	3152.310631	0.614774851	0.069642711	1.11E-17	ZBTB18	zinc finger and BTB domain containing 18 [Source:HGNC Symbol;Acc:13030]
1807	ENSG00000136003	2205.545316	0.682085131	0.07728702	1.13E-17	ISCU	iron-sulfur cluster assembly enzyme [Source:HGNC Symbol;Acc:29882]
1808	ENSG00000229684	1286.553528	-0.816318909	0.092498983	1.13E-17	TUBB	tubulin, beta class I [Source:HGNC Symbol;Acc:20778]
1809	ENSG00000232575	1286.734308	-0.816232968	0.092497875	1.14E-17	TUBB	tubulin, beta class I [Source:HGNC Symbol;Acc:20778]
1810	ENSG00000065154	997.8860869	-0.941287711	0.106694709	1.16E-17	OAT	ornithine aminotransferase [Source:HGNC Symbol;Acc:8091]
1811	ENSG00000167094	219.8891932	1.967713637	0.223047717	1.16E-17	TTC16	tetratricopeptide repeat domain 16 [Source:HGNC Symbol;Acc:26536]
1812	ENSG00000231389	116.2017033	2.720745718	0.308410627	1.16E-17	HLA-DPA1	major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:4938]
1813	ENSG00000224156	1286.372753	-0.815767637	0.092492532	1.18E-17	TUBB	tubulin, beta class I [Source:HGNC Symbol;Acc:20778]
1814	ENSG00000235067	1286.529314	-0.815767116	0.092496794	1.19E-17	TUBB	tubulin, beta class I [Source:HGNC Symbol;Acc:20778]

1815	ENSG00000232421	1286.685921	-0.81576633	0.092502137	1.19E-17	TUBB	tubulin, beta class I [Source:HGNC Symbol;Acc:20778]
1816	ENSG00000196230	1287.446133	-0.816350377	0.092576055	1.20E-17	TUBB	tubulin, beta class I [Source:HGNC Symbol;Acc:20778]
1817	ENSG00000089775	665.6428854	1.202871925	0.1364717	1.24E-17	ZBTB25	zinc finger and BTB domain containing 25 [Source:HGNC Symbol;Acc:13112]
1818	ENSG00000117090	292.6474066	1.81858182	0.206354705	1.26E-17	SLAMF1	signaling lymphocytic activation molecule family member 1 [Source:HGNC Symbol;Acc:10903]
1819	ENSG00000165685	240.6523077	-1.848479764	0.209754002	1.26E-17	TMEM52B	transmembrane protein 52B [Source:HGNC Symbol;Acc:26438]
1820	ENSG00000135052	714.8335618	-1.164674226	0.132229746	1.31E-17	GOLM1	golgi membrane protein 1 [Source:HGNC Symbol;Acc:15451]
1821	ENSG00000262472	510.5259798	-1.341624712	0.152379372	1.35E-17	KPNA2	karyopherin alpha 2 (RAG cohort 1, importin alpha 1) [Source:HGNC Symbol;Acc:6395]
1822	ENSG00000182481	510.5207999	-1.341565326	0.152377899	1.35E-17	KPNA2	karyopherin alpha 2 (RAG cohort 1, importin alpha 1) [Source:HGNC Symbol;Acc:6395]
1823	ENSG00000173706	298.7997816	2.049756604	0.233074043	1.48E-17	HEG1	heart development protein with EGF-like domains 1 [Source:HGNC Symbol;Acc:29227]
1824	ENSG00000139597	664.8867894	1.188350643	0.135202291	1.54E-17	N4BP2L1	NEDD4 binding protein 2-like 1 [Source:HGNC Symbol;Acc:25037]
1825	ENSG00000172215	132.7963733	2.718836715	0.309454889	1.59E-17	CXCR6	chemokine (C-X-C motif) receptor 6 [Source:HGNC Symbol;Acc:16647]
1826	ENSG00000115107	262.436219	-1.759456413	0.200275956	1.60E-17	STEAP3	STEAP family member 3, metalloreductase [Source:HGNC Symbol;Acc:24592]
1827	ENSG00000146376	387.2456165	-1.483042036	0.168826016	1.61E-17	ARHGAP18	Rho GTPase activating protein 18 [Source:HGNC Symbol;Acc:21035]
1828	ENSG00000125384	789.8713961	1.076493005	0.122652599	1.72E-17	PTGER2	prostaglandin E receptor 2 (subtype EP2), 53kDa [Source:HGNC Symbol;Acc:9594]
1829	ENSG00000166289	142.1084161	2.692702726	0.306825548	1.73E-17	PLEKHF1	pleckstrin homology domain containing, family F (with FYVE domain) member 1 [Source:HGNC Symbol;Acc:20764]
1830	ENSG00000171130	313.7115003	1.734294455	0.197712555	1.80E-17	ATP6V0E2	ATPase, H+ transporting V0 subunit e2 [Source:HGNC Symbol;Acc:21723]
1831	ENSG0000021300	135.5831042	2.658252226	0.303226281	1.88E-17	PLEKHB1	pleckstrin homology domain containing, family B (evectins) member 1 [Source:HGNC Symbol;Acc:19079]
1832	ENSG00000137845	3375.331411	0.582643692	0.066473464	1.91E-17	ADAM10	ADAM metalloproteinase domain 10 [Source:HGNC Symbol;Acc:188]
1833	ENSG00000246575	329.5775547	-1.586587604	0.18112683	2.00E-17	AC093162.5	
1834	ENSG00000198932	369.8851152	1.634073443	0.18658079	2.03E-17	GPRASP1	G protein-coupled receptor associated sorting protein 1 [Source:HGNC Symbol;Acc:24834]
1835	ENSG00000134061	300.1852416	1.698787529	0.194084303	2.12E-17	CD180	CD180 molecule [Source:HGNC Symbol;Acc:6726]
1836	ENSG00000227063	3465.338131	0.806629969	0.092170665	2.15E-17	RPL41P1	ribosomal protein L41 pseudogene 1 [Source:HGNC Symbol;Acc:10356]
1837	ENSG00000104852	5534.159658	0.602584758	0.0688656	2.17E-17	SNRNP70	small nuclear ribonucleoprotein 70kDa (U1) [Source:HGNC Symbol;Acc:11150]
1838	ENSG00000206208	3032.861828	0.685653557	0.078369791	2.19E-17	TAPBP	TAP binding protein (tapasin) [Source:HGNC Symbol;Acc:11566]
1839	ENSG00000156575	37.29677218	-4.530619383	0.517999753	2.24E-17	PRG3	proteoglycan 3 [Source:HGNC Symbol;Acc:9363]
1840	ENSG00000070190	1893.217575	0.736376185	0.08419813	2.25E-17	DAPP1	dual adaptor of phosphotyrosine and 3-phosphoinositides [Source:HGNC Symbol;Acc:16500]
1841	ENSG00000167635	981.93297	1.006474371	0.115112355	2.30E-17	ZNF146	zinc finger protein 146 [Source:HGNC Symbol;Acc:12931]
1842	ENSG00000092067	804.308173	-1.348660297	0.154283464	2.34E-17	CEBPE	CCAAT/enhancer binding protein (C/EBP), epsilon [Source:HGNC Symbol;Acc:1836]



1843	ENSG00000161911	97.50493555	3.078188796	0.352141665	2.34E-17	TREML1	triggering receptor expressed on myeloid cells-like 1 [Source:HGNC Symbol;Acc:20434]
1844	ENSG00000205726	213.3136279	-1.896164624	0.216992851	2.40E-17	ITSN1	intersectin 1 (SH3 domain protein) [Source:HGNC Symbol;Acc:6183]
1845	ENSG00000100605	2600.718948	0.776025706	0.088809712	2.41E-17	ITPK1	inositol-tetrakisphosphate 1-kinase [Source:HGNC Symbol;Acc:6177]
1846	ENSG00000141298	7772.426819	0.541882259	0.062016335	2.41E-17	SSH2	slingshot protein phosphatase 2 [Source:HGNC Symbol;Acc:30580]
1847	ENSG00000143862	1414.132566	-0.817827801	0.093657008	2.53E-17	ARL8A	ADP-ribosylation factor-like 8A [Source:HGNC Symbol;Acc:25192]
1848	ENSG00000182022	4108.8445	0.593907736	0.068022313	2.55E-17	CHST15	carbohydrate (N-acetylgalactosamine 4-sulfate 6-O) sulfotransferase 15 [Source:HGNC Symbol;Acc:18137]
1849	ENSG00000048028	763.7068087	1.288531748	0.147728981	2.76E-17	USP28	ubiquitin specific peptidase 28 [Source:HGNC Symbol;Acc:12625]
1850	ENSG00000131051	10404.86937	0.529935549	0.060760764	2.77E-17	RBM39	RNA binding motif protein 39 [Source:HGNC Symbol;Acc:15923]
1851	ENSG00000229828	92.61483834	3.097643394	0.355372197	2.90E-17	RP11-94I2.1	
1852	ENSG00000115419	2653.281756	0.659239517	0.07563138	2.90E-17	GLS	glutaminase [Source:HGNC Symbol;Acc:4331]
1853	ENSG00000136040	5733.340503	-0.582752952	0.066882079	2.99E-17	PLXNC1	plexin C1 [Source:HGNC Symbol;Acc:9106]
1854	ENSG00000047410	4068.97752	0.6713222	0.077062129	3.03E-17	TPR	translocated promoter region, nuclear basket protein [Source:HGNC Symbol;Acc:12017]
1855	ENSG00000186407	667.1227534	1.153841662	0.132472237	3.06E-17	CD300E	CD300e molecule [Source:HGNC Symbol;Acc:28874]
1856	ENSG00000176435	49.7397672	4.205201118	0.482815261	3.07E-17	CLEC14A	C-type lectin domain family 14, member A [Source:HGNC Symbol;Acc:19832]
1857	ENSG00000115295	349.5389058	2.063239193	0.237090477	3.28E-17	CLIP4	CAP-GLY domain containing linker protein family, member 4 [Source:HGNC Symbol;Acc:26108]
1858	ENSG00000154127	1426.573221	0.807586714	0.092882033	3.50E-17	UBASH3B	ubiquitin associated and SH3 domain containing B [Source:HGNC Symbol;Acc:29884]
1859	ENSG00000128815	3270.28309	-0.605636953	0.069676462	3.58E-17	WDFY4	WDFY family member 4 [Source:HGNC Symbol;Acc:29323]
1860	ENSG00000152219	395.277685	1.53392365	0.176519187	3.65E-17	ARL14EP	ADP-ribosylation factor-like 14 effector protein [Source:HGNC Symbol;Acc:26798]
1861	ENSG00000239887	291.8401587	-1.646869199	0.189585339	3.75E-17	C1orf226	chromosome 1 open reading frame 226 [Source:HGNC Symbol;Acc:34351]
1862	ENSG00000118508	939.1847014	-0.942140352	0.10857357	4.07E-17	RAB32	RAB32, member RAS oncogene family [Source:HGNC Symbol;Acc:9772]
1863	ENSG00000005238	3395.559736	-0.563348707	0.064936964	4.14E-17	FAM214B	family with sequence similarity 214, member B [Source:HGNC Symbol;Acc:25666]
1864	ENSG00000130038	970.7504215	-0.932171175	0.107452956	4.15E-17	EFCAB4B	EF-hand calcium binding domain 4B [Source:HGNC Symbol;Acc:28657]
1865	ENSG00000188921	4317.043702	-0.636909955	0.073421925	4.16E-17	PTPLAD2	protein tyrosine phosphatase-like A domain containing 2 [Source:HGNC Symbol;Acc:20920]
1866	ENSG00000136541	375.1585968	1.529889727	0.176375945	4.18E-17	ERMN	ermin, ERM-like protein [Source:HGNC Symbol;Acc:29208]
1867	ENSG00000185885	4161.555453	1.586721065	0.183146265	4.58E-17	IFITM1	interferon induced transmembrane protein 1 [Source:HGNC Symbol;Acc:5412]
1868	ENSG00000033867	580.4773404	1.483985758	0.171321275	4.64E-17	SLC4A7	solute carrier family 4, sodium bicarbonate cotransporter, member 7 [Source:HGNC Symbol;Acc:11033]
1869	ENSG00000255098	255.6549715	-1.74021429	0.200925063	4.68E-17	RP11-481A20.11	Protein LOC101060662 [Source:UniProtKB/TrEMBL;Acc:E9PP17]
1870	ENSG00000178764	878.0118932	0.977599629	0.1129481	4.92E-17	ZHX2	zinc fingers and homeoboxes 2 [Source:HGNC Symbol;Acc:18513]

1871	ENSG00000108106	296.9808412	-1.816867053	0.209936631	4.96E-17	UBE2S	ubiquitin-conjugating enzyme E2S [Source:HGNC Symbol;Acc:17895]
1872	ENSG00000177879	1950.762107	-0.786930371	0.090936817	4.99E-17	AP3S1	adaptor-related protein complex 3, sigma 1 subunit [Source:HGNC Symbol;Acc:2013]
1873	ENSG00000090889	147.9112322	-2.213428243	0.255876009	5.13E-17	KIF4A	kinesin family member 4A [Source:HGNC Symbol;Acc:13339]
1874	ENSG00000154997	618.6511495	-1.145926992	0.132505156	5.23E-17	SEPT14	septin 14 [Source:HGNC Symbol;Acc:33280]
1875	ENSG00000003402	20671.99001	-0.38442937	0.044461244	5.31E-17	CFLAR	CASP8 and FADD-like apoptosis regulator [Source:HGNC Symbol;Acc:1876]
1876	ENSG00000151208	221.3759682	1.987190177	0.229847755	5.33E-17	DLG5	discs, large homolog 5 (Drosophila) [Source:HGNC Symbol;Acc:2904]
1877	ENSG00000114374	1085.856596	1.153612839	0.133432863	5.33E-17	USP9Y	ubiquitin specific peptidase 9, Y-linked [Source:HGNC Symbol;Acc:12633]
1878	ENSG00000051180	197.0321525	-2.127941838	0.246136426	5.34E-17	RAD51	RAD51 recombinase [Source:HGNC Symbol;Acc:9817]
1879	ENSG00000139211	162.3994851	2.303317147	0.26643315	5.36E-17	AMIGO2	adhesion molecule with Ig-like domain 2 [Source:HGNC Symbol;Acc:24073]
1880	ENSG00000165178	5322.806129	-0.644512991	0.074567897	5.44E-17	NCF1C	neutrophil cytosolic factor 1C pseudogene [Source:HGNC Symbol;Acc:32523]
1881	ENSG00000066926	485.1775052	-1.479201996	0.171153735	5.47E-17	FECH	ferrochelatase [Source:HGNC Symbol;Acc:3647]
1882	ENSG00000227242	104.255954	2.985366446	0.345531663	5.59E-17	NBPF13P	neuroblastoma breakpoint family, member 13, pseudogene [Source:HGNC Symbol;Acc:31995]
1883	ENSG00000107819	654.8345483	1.262351643	0.146180389	5.81E-17	SFXN3	sideroflexin 3 [Source:HGNC Symbol;Acc:16087]
1884	ENSG00000010327	490.8501259	1.327638771	0.153780738	5.92E-17	STAB1	stabilin 1 [Source:HGNC Symbol;Acc:18628]
1885	ENSG00000087589	695.3872819	1.222468488	0.141626292	6.00E-17	CASS4	Cas scaffolding protein family member 4 [Source:HGNC Symbol;Acc:15878]
1886	ENSG00000135185	376.6628414	1.465649731	0.169824558	6.07E-17	TMEM243	transmembrane protein 243, mitochondrial [Source:HGNC Symbol;Acc:21707]
1887	ENSG00000130338	250.1736442	1.812734541	0.210141292	6.29E-17	TULP4	tubby like protein 4 [Source:HGNC Symbol;Acc:15530]
1888	ENSG00000169756	1506.987805	-0.792619517	0.091902023	6.37E-17	LIMS1	LIM and senescent cell antigen-like domains 1 [Source:HGNC Symbol;Acc:6616]
1889	ENSG00000154217	826.4728825	1.05926372	0.122852293	6.50E-17	PITPNC1	phosphatidylinositol transfer protein, cytoplasmic 1 [Source:HGNC Symbol;Acc:21045]
1890	ENSG00000198858	6366.500123	0.70812867	0.082128463	6.50E-17	R3HDM4	R3H domain containing 4 [Source:HGNC Symbol;Acc:28270]
1891	ENSG00000014216	3418.582611	-0.709287384	0.082277152	6.58E-17	CAPN1	calpain 1, (mu/l) large subunit [Source:HGNC Symbol;Acc:1476]
1892	ENSG00000101146	1039.096959	-0.889955556	0.103235176	6.58E-17	RAE1	ribonucleic acid export 1 [Source:HGNC Symbol;Acc:9828]
1893	ENSG00000109956	220.2485083	1.995476336	0.231535624	6.71E-17	B3GAT1	beta-1,3-glucuronyltransferase 1 (glucuronosyltransferase P) [Source:HGNC Symbol;Acc:921]
1894	ENSG00000143702	1670.218587	-0.797588273	0.092576705	6.88E-17	CEP170	centrosomal protein 170kDa [Source:HGNC Symbol;Acc:28920]
1895	ENSG00000100644	3620.031466	-0.65658554	0.076233059	7.03E-17	HIF1A	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor) [Source:HGNC Symbol;Acc:4910]
1896	ENSG00000214176	3495.590355	-0.646328696	0.07504285	7.03E-17	PLEKHM1P	pleckstrin homology domain containing, family M (with RUN domain) member 1 pseudogene [Source:HGNC Symbol;Acc:35411]
1897	ENSG00000262742	724.4015877	-1.046295481	0.121481931	7.03E-17	MCTP1	multiple C2 domains, transmembrane 1 [Source:HGNC Symbol;Acc:26183]
1898	ENSG00000090487	3760.819554	-0.552337408	0.064130441	7.03E-17	SPG21	spastic paraplegia 21 (autosomal recessive, Mast syndrome) [Source:HGNC Symbol;Acc:20373]

1899	ENSG00000069329	2490.008692	-0.829515453	0.096368124	7.34E-17	VPS35	vacuolar protein sorting 35 homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:13487]
1900	ENSG00000118513	2083.837161	-0.66946357	0.077779133	7.37E-17	MYB	v-myb avian myeloblastosis viral oncogene homolog [Source:HGNC Symbol;Acc:7545]
1901	ENSG00000176595	1099.163711	-0.892464223	0.103701646	7.44E-17	KBTBD11	kelch repeat and BTB (POZ) domain containing 11 [Source:HGNC Symbol;Acc:29104]
1902	ENSG00000176208	445.8527515	-1.305160897	0.151676566	7.52E-17	ATAD5	ATPase family, AAA domain containing 5 [Source:HGNC Symbol;Acc:25752]
1903	ENSG00000119729	2455.318707	0.711623535	0.082715557	7.62E-17	RHOQ	ras homolog family member Q [Source:HGNC Symbol;Acc:17736]
1904	ENSG00000259040	51.80346332	-4.242725	0.493178308	7.64E-17	BLOC1S5-TXNDC5	BLOC1S5-TXNDC5 readthrough (NMD candidate) [Source:HGNC Symbol;Acc:42001]
1905	ENSG00000130584	191.8858765	2.065261354	0.240098286	7.71E-17	ZBTB46	zinc finger and BTB domain containing 46 [Source:HGNC Symbol;Acc:16094]
1906	ENSG00000162174	382.494584	-1.509122606	0.175606591	8.26E-17	ASRGL1	asparaginase like 1 [Source:HGNC Symbol;Acc:16448]
1907	ENSG00000143228	224.9823738	-1.868064055	0.217413353	8.37E-17	NUF2	NUF2, NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:14621]
1908	ENSG00000161381	360.2297646	1.554416437	0.180918169	8.40E-17	PLXDC1	plexin domain containing 1 [Source:HGNC Symbol;Acc:20945]
1909	ENSG00000159216	1945.186829	-0.740033851	0.086149037	8.51E-17	RUNX1	runt-related transcription factor 1 [Source:HGNC Symbol;Acc:10471]
1910	ENSG00000168216	1343.122371	0.837265925	0.097472313	8.54E-17	LMBRD1	LMBR1 domain containing 1 [Source:HGNC Symbol;Acc:23038]
1911	ENSG00000160593	30559.67795	0.384037298	0.044710015	8.55E-17	AMICA1	adhesion molecule, interacts with CXADR antigen 1 [Source:HGNC Symbol;Acc:19084]
1912	ENSG00000116678	210.0681418	-1.918895399	0.223407571	8.57E-17	LEPR	leptin receptor [Source:HGNC Symbol;Acc:6554]
1913	ENSG00000133816	2083.000843	0.773624995	0.090153963	9.19E-17	MICAL2	microtubule associated monooxygenase, calponin and LIM domain containing 2 [Source:HGNC Symbol;Acc:24693]
1914	ENSG00000186265	242.9566207	1.869574396	0.217985221	9.55E-17	BTLA	B and T lymphocyte associated [Source:HGNC Symbol;Acc:21087]
1915	ENSG00000233327	692.0204196	-1.254767904	0.146378169	9.93E-17	USP32P2	ubiquitin specific peptidase 32 pseudogene 2 [Source:HGNC Symbol;Acc:30751]
1916	ENSG00000206281	2980.356823	0.707480727	0.082539494	9.98E-17	TAPBP	TAP binding protein (tapasin) [Source:HGNC Symbol;Acc:11566]
1917	ENSG00000078596	461.8995752	1.459641325	0.170336627	1.02E-16	ITM2A	integral membrane protein 2A [Source:HGNC Symbol;Acc:6173]
1918	ENSG00000173039	1583.82118	0.793696165	0.092634382	1.03E-16	RELA	v-rel avian reticuloendotheliosis viral oncogene homolog A [Source:HGNC Symbol;Acc:9955]
1919	ENSG00000158987	1143.442451	0.9645858	0.112592061	1.04E-16	RAPGEF6	Rap guanine nucleotide exchange factor (GEF) 6 [Source:HGNC Symbol;Acc:20655]
1920	ENSG00000187605	2301.959343	-0.635683309	0.074302984	1.15E-16	TET3	tet methylcytosine dioxygenase 3 [Source:HGNC Symbol;Acc:28313]
1921	ENSG00000126262	2800.483078	0.613201884	0.071705731	1.18E-16	FFAR2	free fatty acid receptor 2 [Source:HGNC Symbol;Acc:4501]
1922	ENSG00000250151	812.5259898	-1.000174835	0.116999979	1.21E-16	ARPC4-TLL3	ARPC4-TLL3 readthrough [Source:HGNC Symbol;Acc:38830]
1923	ENSG00000161912	997.4122356	-0.962585204	0.112638639	1.24E-16	ADCY10P1	adenylate cyclase 10 (soluble) pseudogene 1 [Source:HGNC Symbol;Acc:44143]
1924	ENSG00000122783	1007.188101	1.248266939	0.146070036	1.24E-16	C7orf49	chromosome 7 open reading frame 49 [Source:HGNC Symbol;Acc:22432]
1925	ENSG00000085999	205.7478712	-1.930032799	0.225868236	1.25E-16	RAD54L	RAD54-like ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:9826]
1926	ENSG00000137818	9829.943819	0.707250588	0.082861507	1.36E-16	RPLP1	ribosomal protein, large, P1 [Source:HGNC Symbol;Acc:10372]

1927	ENSG00000124224	740.8767694	-1.031566327	0.120881181	1.38E-16	PPP4R1L	protein phosphatase 4, regulatory subunit 1-like [Source:HGNC Symbol;Acc:15755]
1928	ENSG00000140396	2841.46075	-0.618394168	0.072490741	1.41E-16	NCOA2	nuclear receptor coactivator 2 [Source:HGNC Symbol;Acc:7669]
1929	ENSG00000148672	1376.437955	0.871264532	0.102133486	1.41E-16	GLUD1	glutamate dehydrogenase 1 [Source:HGNC Symbol;Acc:4335]
1930	ENSG00000108960	281.8158168	1.68948409	0.198131383	1.46E-16	MMD	monocyte to macrophage differentiation-associated [Source:HGNC Symbol;Acc:7153]
1931	ENSG00000163840	1882.036068	0.755757579	0.08863435	1.46E-16	DTX3L	deltex 3-like (Drosophila) [Source:HGNC Symbol;Acc:30323]
1932	ENSG00000157693	422.3526464	1.590402652	0.18670602	1.57E-16	C9orf91	chromosome 9 open reading frame 91 [Source:HGNC Symbol;Acc:24513]
1933	ENSG00000116871	3065.716103	0.69706843	0.081833166	1.57E-16	MAP7D1	MAP7 domain containing 1 [Source:HGNC Symbol;Acc:25514]
1934	ENSG00000142405	2496.801212	-0.643371427	0.075591709	1.67E-16	NLRP12	NLR family, pyrin domain containing 12 [Source:HGNC Symbol;Acc:22938]
1935	ENSG00000107745	1544.153972	-0.806066367	0.094736841	1.70E-16	MICU1	mitochondrial calcium uptake 1 [Source:HGNC Symbol;Acc:1530]
1936	ENSG00000234769	2580.863254	-0.769408845	0.090471198	1.76E-16	WASH4P	WAS protein family homolog 4 pseudogene [Source:HGNC Symbol;Acc:14126]
1937	ENSG00000146094	7553.558008	-0.500574466	0.058873865	1.79E-16	DOK3	docking protein 3 [Source:HGNC Symbol;Acc:24583]
1938	ENSG00000101421	3141.536228	-0.576769346	0.0679302	1.98E-16	CHMP4B	charged multivesicular body protein 4B [Source:HGNC Symbol;Acc:16171]
1939	ENSG00000067057	422.1228759	1.523695801	0.17948252	2.00E-16	PFKP	phosphofructokinase, platelet [Source:HGNC Symbol;Acc:8878]
1940	ENSG00000262785	36.94975788	-4.485886631	0.528596017	2.06E-16	PKLR	pyruvate kinase, liver and RBC [Source:HGNC Symbol;Acc:9020]
1941	ENSG00000140350	9067.847554	-0.454342304	0.053576398	2.17E-16	ANP32A	acidic (leucine-rich) nuclear phosphoprotein 32 family, member A [Source:HGNC Symbol;Acc:13233]
1942	ENSG00000143627	36.80601738	-4.48011211	0.528753762	2.31E-16	PKLR	pyruvate kinase, liver and RBC [Source:HGNC Symbol;Acc:9020]
1943	ENSG00000105383	1747.705968	-0.877655502	0.103636493	2.39E-16	CD33	CD33 molecule [Source:HGNC Symbol;Acc:1659]
1944	ENSG00000254415	2870.945451	-0.594181259	0.070169316	2.41E-16	SIGLEC14	sialic acid binding Ig-like lectin 14 [Source:HGNC Symbol;Acc:32926]
1945	ENSG00000136929	306.8578396	-1.541783528	0.182433051	2.77E-16	HEMGN	hemogen [Source:HGNC Symbol;Acc:17509]
1946	ENSG00000175063	336.5522469	-1.555463009	0.184162533	2.90E-16	UBE2C	ubiquitin-conjugating enzyme E2C [Source:HGNC Symbol;Acc:15937]
1947	ENSG00000198840	20906.053	0.434894647	0.051500335	2.93E-16	MT-ND3	mitochondrially encoded NADH dehydrogenase 3 [Source:HGNC Symbol;Acc:7458]
1948	ENSG00000204839	907.7392748	-1.484097504	0.175774001	2.97E-16	MROH6	maestro heat-like repeat family member 6 [Source:HGNC Symbol;Acc:27814]
1949	ENSG00000260353	32.39032701	4.58356542	0.542881216	2.97E-16	PGBD4P1	piggyBac transposable element derived 4 pseudogene 1 [Source:HGNC Symbol;Acc:44066]
1950	ENSG00000115457	117.8883382	-2.544172983	0.301417754	3.03E-16	IGFBP2	insulin-like growth factor binding protein 2, 36kDa [Source:HGNC Symbol;Acc:5471]
1951	ENSG00000140332	3048.030038	0.732547641	0.086792917	3.04E-16	TLE3	transducin-like enhancer of split 3 (E(sp1) homolog, Drosophila) [Source:HGNC Symbol;Acc:11839]
1952	ENSG00000128872	2417.290455	-0.744391789	0.08822627	3.11E-16	TMOD2	tropomodulin 2 (neuronal) [Source:HGNC Symbol;Acc:11872]
1953	ENSG00000115415	3547.054207	0.638144202	0.07570698	3.34E-16	STAT1	signal transducer and activator of transcription 1, 91kDa [Source:HGNC Symbol;Acc:11362]
1954	ENSG00000118263	3664.162057	-0.573055035	0.067990432	3.35E-16	KLF7	Kruppel-like factor 7 (ubiquitous) [Source:HGNC Symbol;Acc:6350]

1955	ENSG00000119408	701.6174074	-1.141559411	0.135449792	3.37E-16	NEK6	NIMA-related kinase 6 [Source:HGNC Symbol;Acc:7749]
1956	ENSG00000197701	229.2071582	-1.744554562	0.207077713	3.46E-16	ZNF595	zinc finger protein 595 [Source:HGNC Symbol;Acc:27196]
1957	ENSG00000227671	2555.856399	-0.642262237	0.076242464	3.48E-16	MIR3916	microRNA 3916 [Source:HGNC Symbol;Acc:38912]
1958	ENSG00000134256	501.3741133	-1.282731524	0.152317527	3.55E-16	CD101	CD101 molecule [Source:HGNC Symbol;Acc:5949]
1959	ENSG00000153310	7599.260192	-0.517506951	0.061498283	3.75E-16	FAM49B	family with sequence similarity 49, member B [Source:HGNC Symbol;Acc:25216]
1960	ENSG00000165512	585.3765063	1.166625332	0.13872091	3.92E-16	ZNF22	zinc finger protein 22 [Source:HGNC Symbol;Acc:13012]
1961	ENSG00000269087	393.5052193	-1.441927722	0.171511108	4.01E-16	G6PD	glucose-6-phosphate dehydrogenase [Source:HGNC Symbol;Acc:4057]
1962	ENSG00000198925	1893.229508	-0.706261201	0.084025663	4.07E-16	ATG9A	autophagy related 9A [Source:HGNC Symbol;Acc:22408]
1963	ENSG00000173208	134.0405335	2.602084383	0.309736547	4.22E-16	ABCD2	ATP-binding cassette, sub-family D (ALD), member 2 [Source:HGNC Symbol;Acc:66]
1964	ENSG00000100749	599.7111956	-1.137120356	0.13536132	4.23E-16	VRK1	vaccinia related kinase 1 [Source:HGNC Symbol;Acc:12718]
1965	ENSG00000198952	3160.015783	-0.656646514	0.078181322	4.29E-16	SMG5	SMG5 nonsense mediated mRNA decay factor [Source:HGNC Symbol;Acc:24644]
1966	ENSG00000075568	1882.050355	-0.742710616	0.088449601	4.36E-16	TMEM131	transmembrane protein 131 [Source:HGNC Symbol;Acc:30366]
1967	ENSG00000105122	3747.665207	-0.673861399	0.080259157	4.39E-16	RASAL3	RAS protein activator like 3 [Source:HGNC Symbol;Acc:26129]
1968	ENSG00000126001	1286.786106	-0.84043148	0.100170271	4.62E-16	CEP250	centrosomal protein 250kDa [Source:HGNC Symbol;Acc:1859]
1969	ENSG00000091651	315.9585865	-1.498785891	0.178652287	4.64E-16	ORC6	origin recognition complex, subunit 6 [Source:HGNC Symbol;Acc:17151]
1970	ENSG00000076770	793.9470872	1.085859614	0.129526516	4.89E-16	MBNL3	muscleblind-like splicing regulator 3 [Source:HGNC Symbol;Acc:20564]
1971	ENSG00000117519	96.16628431	3.300947535	0.39401197	5.12E-16	CNN3	calponin 3, acidic [Source:HGNC Symbol;Acc:2157]
1972	ENSG00000168906	5740.52668	-0.58725733	0.070130741	5.30E-16	MAT2A	methionine adenosyltransferase II, alpha [Source:HGNC Symbol;Acc:6904]
1973	ENSG00000147162	25932.75585	-0.390011598	0.046582368	5.35E-16	OGT	O-linked N-acetylglucosamine (GlcNAc) transferase [Source:HGNC Symbol;Acc:8127]
1974	ENSG00000072401	1943.984579	0.739979254	0.088405225	5.45E-16	UBE2D1	ubiquitin-conjugating enzyme E2D 1 [Source:HGNC Symbol;Acc:12474]
1975	ENSG00000198301	543.3179021	1.226009637	0.14648986	5.49E-16	SDAD1	SDA1 domain containing 1 [Source:HGNC Symbol;Acc:25537]
1976	ENSG00000233450	175.3185834	-2.041938742	0.244029176	5.57E-16	KIFC1	kinesin family member C1 [Source:HGNC Symbol;Acc:6389]
1977	ENSG00000183307	283.0538544	1.735327347	0.207474325	5.74E-16	CECR6	cat eye syndrome chromosome region, candidate 6 [Source:HGNC Symbol;Acc:1844]
1978	ENSG00000170802	2022.781952	-0.681634817	0.081523278	5.87E-16	FOXN2	forkhead box N2 [Source:HGNC Symbol;Acc:5281]
1979	ENSG00000113763	99.12219447	-2.7759135	0.332034357	5.91E-16	UNC5A	unc-5 homolog A (C. elegans) [Source:HGNC Symbol;Acc:12567]
1980	ENSG00000143819	591.2349143	-1.178787788	0.141000527	5.92E-16	EPHX1	epoxide hydrolase 1, microsomal (xenobiotic) [Source:HGNC Symbol;Acc:3401]
1981	ENSG00000186654	253.0004375	1.764103434	0.211319855	6.56E-16	PRR5	proline rich 5 (renal) [Source:HGNC Symbol;Acc:31682]
1982	ENSG00000237649	175.5143766	-2.032093582	0.24348799	6.68E-16	KIFC1	kinesin family member C1 [Source:HGNC Symbol;Acc:6389]

1983	ENSG00000111642	4102.12608	0.687742143	0.082409599	6.70E-16	CHD4	chromodomain helicase DNA binding protein 4 [Source:HGNC Symbol;Acc:1919]
1984	ENSG00000166889	2649.514799	-0.625260028	0.074930171	6.74E-16	PATL1	protein associated with topoisomerase II homolog 1 (yeast) [Source:HGNC Symbol;Acc:26721]
1985	ENSG00000140398	697.0363106	-1.020173549	0.122367097	7.18E-16	NEIL1	nei endonuclease VIII-like 1 (E. coli) [Source:HGNC Symbol;Acc:18448]
1986	ENSG00000104856	345.4182556	1.650552607	0.198034204	7.32E-16	RELB	v-rel avian reticuloendotheliosis viral oncogene homolog B [Source:HGNC Symbol;Acc:9956]
1987	ENSG00000039068	130.0278222	-2.495357023	0.299577215	7.64E-16	CDH1	cadherin 1, type 1, E-cadherin (epithelial) [Source:HGNC Symbol;Acc:1748]
1988	ENSG00000196562	4110.51218	0.525802149	0.06320323	8.33E-16	SULF2	sulfatase 2 [Source:HGNC Symbol;Acc:20392]
1989	ENSG00000175264	66.2287888	-3.207393462	0.385730204	8.62E-16	CHST1	carbohydrate (keratan sulfate Gal-6) sulfotransferase 1 [Source:HGNC Symbol;Acc:1969]
1990	ENSG00000137959	803.1840507	-1.175736303	0.141431946	8.77E-16	IFI44L	interferon-induced protein 44-like [Source:HGNC Symbol;Acc:17817]
1991	ENSG00000062524	191.681441	2.029142219	0.244093575	8.77E-16	LTK	leukocyte receptor tyrosine kinase [Source:HGNC Symbol;Acc:6721]
1992	ENSG00000054219	1849.522781	0.711006848	0.085534156	8.80E-16	LY75	lymphocyte antigen 75 [Source:HGNC Symbol;Acc:6729]
1993	ENSG00000117281	160.0631021	2.501640117	0.301020348	8.95E-16	CD160	CD160 molecule [Source:HGNC Symbol;Acc:17013]
1994	ENSG00000176903	301.4174097	1.567020805	0.188633412	9.19E-16	PNMA1	paraneoplastic Ma antigen 1 [Source:HGNC Symbol;Acc:9158]
1995	ENSG00000075240	613.009551	-1.259620952	0.151687301	9.44E-16	GRAMD4	GRAM domain containing 4 [Source:HGNC Symbol;Acc:29113]
1996	ENSG00000089486	601.9817208	1.200017171	0.144510507	9.44E-16	CDIP1	cell death-inducing p53 target 1 [Source:HGNC Symbol;Acc:13234]
1997	ENSG00000139266	319.860229	1.535206925	0.184953395	9.71E-16	MARCH9	membrane-associated ring finger (C3HC4) 9 [Source:HGNC Symbol;Acc:25139]
1998	ENSG00000163964	1144.549108	0.869961282	0.104878444	1.02E-15	PIGX	phosphatidylinositol glycan anchor biosynthesis, class X [Source:HGNC Symbol;Acc:26046]
1999	ENSG00000100060	1791.670275	0.704593728	0.084943135	1.02E-15	MFNG	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Source:HGNC Symbol;Acc:7038]
2000	ENSG00000153944	1477.035065	0.835757112	0.100877549	1.11E-15	MSI2	musashi RNA-binding protein 2 [Source:HGNC Symbol;Acc:18585]
2001	ENSG00000013016	163.427905	2.13590163	0.257828467	1.11E-15	EHD3	EH-domain containing 3 [Source:HGNC Symbol;Acc:3244]
2002	ENSG00000151690	354.8771799	1.563790236	0.188782378	1.12E-15	MFSD6	major facilitator superfamily domain containing 6 [Source:HGNC Symbol;Acc:24711]
2003	ENSG00000116754	7476.708403	0.438815193	0.052975573	1.12E-15	SRSF11	serine/arginine-rich splicing factor 11 [Source:HGNC Symbol;Acc:10782]
2004	ENSG00000105643	1577.930297	0.788635508	0.095256995	1.16E-15	ARRDC2	arrestin domain containing 2 [Source:HGNC Symbol;Acc:25225]
2005	ENSG00000168229	234.4429549	1.987251715	0.240042674	1.16E-15	PTGDR	prostaglandin D2 receptor (DP) [Source:HGNC Symbol;Acc:9591]
2006	ENSG00000123992	448.48407	1.380194155	0.16680918	1.21E-15	DNPEP	aspartyl aminopeptidase [Source:HGNC Symbol;Acc:2981]
2007	ENSG00000182541	2924.836235	0.644132104	0.077851751	1.21E-15	LIMK2	LIM domain kinase 2 [Source:HGNC Symbol;Acc:6614]
2008	ENSG00000154153	163.0829233	2.300768458	0.278082788	1.21E-15	FAM134B	family with sequence similarity 134, member B [Source:HGNC Symbol;Acc:25964]
2009	ENSG00000068724	1091.287127	0.94410848	0.114138441	1.23E-15	TTC7A	tetratricopeptide repeat domain 7A [Source:HGNC Symbol;Acc:19750]
2010	ENSG00000197872	2104.08067	0.720391111	0.087129161	1.27E-15	FAM49A	family with sequence similarity 49, member A [Source:HGNC Symbol;Acc:25373]

2011	ENSG00000178607	1804.486496	0.719970794	0.087102725	1.29E-15	ERN1	endoplasmic reticulum to nucleus signaling 1 [Source:HGNC Symbol;Acc:3449]
2012	ENSG00000102786	1162.14156	-0.885386165	0.107140368	1.31E-15	INTS6	integrator complex subunit 6 [Source:HGNC Symbol;Acc:14879]
2013	ENSG00000084731	481.9970458	-1.406122973	0.170241769	1.36E-15	KIF3C	kinesin family member 3C [Source:HGNC Symbol;Acc:6321]
2014	ENSG00000085840	201.6745775	-1.810621087	0.219282253	1.39E-15	ORC1	origin recognition complex, subunit 1 [Source:HGNC Symbol;Acc:8487]
2015	ENSG00000130827	237.6155849	1.807360836	0.218904422	1.39E-15	PLXNA3	plexin A3 [Source:HGNC Symbol;Acc:9101]
2016	ENSG00000132467	461.2473576	1.278741903	0.154884154	1.40E-15	UTP3	UTP3, small subunit (SSU) processome component, homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:24477]
2017	ENSG00000160298	406.6296142	-1.469484449	0.177991684	1.40E-15	C21orf58	chromosome 21 open reading frame 58 [Source:HGNC Symbol;Acc:1300]
2018	ENSG00000121957	846.131911	-0.974031329	0.117996033	1.41E-15	GPSM2	G-protein signaling modulator 2 [Source:HGNC Symbol;Acc:29501]
2019	ENSG00000030356	3304.966772	0.551370486	0.066809749	1.43E-15	M6PR	mannose-6-phosphate receptor (cation dependent) [Source:HGNC Symbol;Acc:6752]
2020	ENSG00000112406	4265.741149	0.538956199	0.065306565	1.43E-15	HECA	headcase homolog ( <i>Drosophila</i> ) [Source:HGNC Symbol;Acc:21041]
2021	ENSG00000161547	6227.737032	-0.50118002	0.060730079	1.44E-15	SRSF2	serine/arginine-rich splicing factor 2 [Source:HGNC Symbol;Acc:10783]
2022	ENSG00000132635	704.5999299	1.152267715	0.13964194	1.45E-15	PCED1A	PC-esterase domain containing 1A [Source:HGNC Symbol;Acc:16212]
2023	ENSG00000133424	138.5254053	2.327961919	0.282171229	1.46E-15	LARGE	like-glycosyltransferase [Source:HGNC Symbol;Acc:6511]
2024	ENSG00000196547	8748.153478	-0.610994884	0.074074589	1.48E-15	MAN2A2	mannosidase, alpha, class 2A, member 2 [Source:HGNC Symbol;Acc:6825]
2025	ENSG00000182952	1403.949673	0.914389672	0.110860753	1.49E-15	HMGNA4	high mobility group nucleosomal binding domain 4 [Source:HGNC Symbol;Acc:4989]
2026	ENSG00000256043	149.4410291	2.225643808	0.26984758	1.49E-15	CTSO	cathepsin O [Source:HGNC Symbol;Acc:2542]
2027	ENSG00000141736	221.9701605	2.019063508	0.244929054	1.54E-15	ERBB2	v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2 [Source:HGNC Symbol;Acc:3430]
2028	ENSG00000187922	142.555702	2.480570711	0.300984942	1.57E-15	LCN10	lipocalin 10 [Source:HGNC Symbol;Acc:20892]
2029	ENSG00000134222	743.4327235	-1.004084638	0.121836322	1.57E-15	PSRC1	proline/serine-rich coiled-coil 1 [Source:HGNC Symbol;Acc:24472]
2030	ENSG00000263238	150.106767	2.214310072	0.268785749	1.61E-15	CTSO	cathepsin O [Source:HGNC Symbol;Acc:2542]
2031	ENSG00000241343	2197.339558	0.656115964	0.079672193	1.65E-15	RPL36A	ribosomal protein L36a [Source:HGNC Symbol;Acc:10359]
2032	ENSG00000134369	414.6814569	1.393435905	0.169246906	1.68E-15	NAV1	neuron navigator 1 [Source:HGNC Symbol;Acc:15989]
2033	ENSG00000269315	2197.624629	0.656313062	0.079784885	1.78E-15	RPL36A	ribosomal protein L36a [Source:HGNC Symbol;Acc:10359]
2034	ENSG00000174652	3210.026689	0.596872062	0.072598462	1.85E-15	ZNF266	zinc finger protein 266 [Source:HGNC Symbol;Acc:13059]
2035	ENSG00000085998	435.3554806	1.314485901	0.159914957	1.87E-15	POMGNT1	protein O-linked mannose N-acetylglucosaminyltransferase 1 (beta 1,2-) [Source:HGNC Symbol;Acc:19139]
2036	ENSG00000105953	2101.019681	-0.718814648	0.087462283	1.89E-15	OGDH	oxoglutarate (alpha-ketoglutarate) dehydrogenase (lipoamide) [Source:HGNC Symbol;Acc:8124]
2037	ENSG00000114784	1571.4928	-0.731339592	0.088998598	1.91E-15	EIF1B	eukaryotic translation initiation factor 1B [Source:HGNC Symbol;Acc:30792]
2038	ENSG00000239521	634.9081574	-1.062284484	0.129279117	1.92E-15	GATS	

2039	ENSG00000178913	4337.040051	0.577037677	0.070250665	1.96E-15	TAF7	TAF7 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 55kDa [Source:HGNC Symbol;Acc:11541]
2040	ENSG00000177674	4061.75351	-0.734750885	0.089479743	2.01E-15	AGTRAP	angiotensin II receptor-associated protein [Source:HGNC Symbol;Acc:13539]
2041	ENSG00000065621	361.9314627	-1.388881878	0.169258095	2.10E-15	GSTO2	glutathione S-transferase omega 2 [Source:HGNC Symbol;Acc:23064]
2042	ENSG00000188559	2127.693219	-0.716328068	0.087299551	2.11E-15	RALGAPA2	Ral GTPase activating protein, alpha subunit 2 (catalytic) [Source:HGNC Symbol;Acc:16207]
2043	ENSG00000158481	129.6391212	2.374727163	0.289665301	2.24E-15	CD1C	CD1c molecule [Source:HGNC Symbol;Acc:1636]
2044	ENSG00000082458	189.3980361	2.069715189	0.252504877	2.26E-15	DLG3	discs, large homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:2902]
2045	ENSG00000134308	2189.897006	0.729477915	0.089109908	2.47E-15	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, theta [Source:HGNC Symbol;Acc:12854]
2046	ENSG00000101695	944.4954798	1.092997061	0.133599269	2.57E-15	RNF125	ring finger protein 125, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:21150]
2047	ENSG00000162825	1836.512317	0.750153725	0.091719838	2.62E-15	NBPF8	neuroblastoma breakpoint family, member 8 [Source:HGNC Symbol;Acc:31990]
2048	ENSG00000186049	95.25018067	2.912380586	0.356113012	2.63E-15	KRT73	keratin 73 [Source:HGNC Symbol;Acc:28928]
2049	ENSG00000130775	7503.582209	0.432323648	0.052868521	2.65E-15	THEMIS2	thymocyte selection associated family member 2 [Source:HGNC Symbol;Acc:16839]
2050	ENSG00000206082	4736.156881	-0.635521772	0.077733041	2.69E-15	LINC01002	long intergenic non-protein coding RNA 1002 [Source:HGNC Symbol;Acc:38538]
2051	ENSG00000088766	620.2207392	-1.12210688	0.13724984	2.69E-15	CRLS1	cardiolipin synthase 1 [Source:HGNC Symbol;Acc:16148]
2052	ENSG00000169499	3288.209162	-0.539887451	0.066078709	2.80E-15	PLEKHA2	pleckstrin homology domain containing, family A (phosphoinositide binding specific) member 2 [Source:HGNC Symbol;Acc:14336]
2053	ENSG00000166532	920.4871397	0.952914625	0.116634475	2.81E-15	RIMKLB	ribosomal modification protein rimK-like family member B [Source:HGNC Symbol;Acc:29228]
2054	ENSG00000165802	241.8319123	1.796287045	0.220083516	3.01E-15	NSMF	NMDA receptor synaptonuclear signaling and neuronal migration factor [Source:HGNC Symbol;Acc:29843]
2055	ENSG00000169413	892.6637333	1.003340498	0.122932631	3.01E-15	RNASE6	ribonuclease, RNase A family, k6 [Source:HGNC Symbol;Acc:10048]
2056	ENSG00000089012	221.8868306	1.865911637	0.228647809	3.03E-15	SIRPG	signal-regulatory protein gamma [Source:HGNC Symbol;Acc:15757]
2057	ENSG00000104765	4030.176965	-0.584134464	0.071616485	3.14E-15	BNIP3L	BCL2/adenovirus E1B 19kDa interacting protein 3-like [Source:HGNC Symbol;Acc:1085]
2058	ENSG00000114126	1495.76951	-0.761439335	0.09340492	3.25E-15	TFDP2	transcription factor Dp-2 (E2F dimerization partner 2) [Source:HGNC Symbol;Acc:11751]
2059	ENSG00000135083	217.0869695	1.984022637	0.243710209	3.57E-15	CCNJL	cyclin J-like [Source:HGNC Symbol;Acc:25876]
2060	ENSG00000164691	6196.023554	0.448820189	0.055135465	3.58E-15	TAGAP	T-cell activation RhoGTPase activating protein [Source:HGNC Symbol;Acc:15669]
2061	ENSG00000196141	239.9567457	1.654387904	0.203275967	3.63E-15	SPATS2L	spermatogenesis associated, serine-rich 2-like [Source:HGNC Symbol;Acc:24574]
2062	ENSG00000162734	588.9551539	1.141540211	0.140267048	3.64E-15	PEA15	phosphoprotein enriched in astrocytes 15 [Source:HGNC Symbol;Acc:8822]
2063	ENSG00000158882	462.6153856	-1.198092635	0.147218821	3.64E-15	TOMM40L	translocase of outer mitochondrial membrane 40 homolog (yeast)-like [Source:HGNC Symbol;Acc:25756]
2064	ENSG00000132356	3627.791162	-0.633738504	0.077875236	3.65E-15	PRKAA1	protein kinase, AMP-activated, alpha 1 catalytic subunit [Source:HGNC Symbol;Acc:9376]
2065	ENSG00000152291	10421.34604	-0.418307896	0.051409896	3.68E-15	TGOLN2	trans-golgi network protein 2 [Source:HGNC Symbol;Acc:15450]
2066	ENSG00000156515	2273.264074	-0.623143181	0.076585391	3.68E-15	HK1	hexokinase 1 [Source:HGNC Symbol;Acc:4922]



2067	ENSG00000111665	197.481838	-1.855361412	0.228223011	3.90E-15	CDCA3	cell division cycle associated 3 [Source:HGNC Symbol;Acc:14624]
2068	ENSG00000175471	739.1501222	-0.989368711	0.121726027	3.95E-15	MCTP1	multiple C2 domains, transmembrane 1 [Source:HGNC Symbol;Acc:26183]
2069	ENSG00000086015	456.6639194	-1.317458015	0.162126873	4.01E-15	MAST2	microtubule associated serine/threonine kinase 2 [Source:HGNC Symbol;Acc:19035]
2070	ENSG00000122025	160.4255064	2.138315671	0.263177194	4.04E-15	FLT3	fms-related tyrosine kinase 3 [Source:HGNC Symbol;Acc:3765]
2071	ENSG00000146757	282.8622624	1.664179115	0.204930195	4.19E-15	ZNF92	zinc finger protein 92 [Source:HGNC Symbol;Acc:13168]
2072	ENSG00000263647	560.8212556	-1.107551879	0.136405324	4.23E-15	RP11-927P21.5	
2073	ENSG00000159733	180.5154851	2.368253433	0.291713848	4.26E-15	ZFYVE28	zinc finger, FYVE domain containing 28 [Source:HGNC Symbol;Acc:29334]
2074	ENSG00000119242	357.3236494	1.432860643	0.176569527	4.38E-15	CCDC92	coiled-coil domain containing 92 [Source:HGNC Symbol;Acc:29563]
2075	ENSG00000172349	8664.826635	0.45796035	0.056443984	4.43E-15	IL16	interleukin 16 [Source:HGNC Symbol;Acc:5980]
2076	ENSG00000198846	217.6060094	1.864282036	0.229807898	4.48E-15	TOX	thymocyte selection-associated high mobility group box [Source:HGNC Symbol;Acc:18988]
2077	ENSG00000268136	197.2784308	-1.852872214	0.228418722	4.50E-15	CDCA3	cell division cycle associated 3 [Source:HGNC Symbol;Acc:14624]
2078	ENSG00000166326	443.8964119	1.354504776	0.167118149	4.75E-15	TRIM44	tripartite motif containing 44 [Source:HGNC Symbol;Acc:19016]
2079	ENSG00000130956	164.8314346	2.102198699	0.259416708	4.80E-15	HABP4	hyaluronan binding protein 4 [Source:HGNC Symbol;Acc:17062]
2080	ENSG00000204160	12368.90002	0.384534626	0.047481598	5.00E-15	ZDHC18	zinc finger, DHHC-type containing 18 [Source:HGNC Symbol;Acc:20712]
2081	ENSG00000141576	306.8941122	1.658795009	0.204907263	5.14E-15	RNF157	ring finger protein 157 [Source:HGNC Symbol;Acc:29402]
2082	ENSG00000162496	203.8349885	1.85669815	0.229461536	5.30E-15	DHRS3	dehydrogenase/reductase (SDR family) member 3 [Source:HGNC Symbol;Acc:17693]
2083	ENSG00000104093	6214.46331	-0.505147814	0.062442557	5.37E-15	DMXL2	Dmx-like 2 [Source:HGNC Symbol;Acc:2938]
2084	ENSG00000106415	1406.803294	-0.767198234	0.0948598	5.46E-15	GLCC1	glucocorticoid induced transcript 1 [Source:HGNC Symbol;Acc:18713]
2085	ENSG00000261698	1138.015922	-1.008672013	0.124758308	5.58E-15	DGAT1	diacylglycerol O-acyltransferase 1 [Source:HGNC Symbol;Acc:2843]
2086	ENSG00000125746	946.7361365	-0.931090257	0.115305359	6.05E-15	EML2	echinoderm microtubule associated protein like 2 [Source:HGNC Symbol;Acc:18035]
2087	ENSG00000187239	4883.765207	0.487814357	0.060427084	6.16E-15	FNBP1	formin binding protein 1 [Source:HGNC Symbol;Acc:17069]
2088	ENSG00000166341	134.8266884	2.438889612	0.302128652	6.18E-15	DCHS1	dachsous cadherin-related 1 [Source:HGNC Symbol;Acc:13681]
2089	ENSG00000138434	2672.144235	-0.693231052	0.085880653	6.19E-15	SSFA2	sperm specific antigen 2 [Source:HGNC Symbol;Acc:11319]
2090	ENSG00000126822	3982.661177	0.53939723	0.066853591	6.38E-15	PLEKHG3	pleckstrin homology domain containing, family G (with RhoGef domain) member 3 [Source:HGNC Symbol;Acc:20364]
2091	ENSG00000271438	392.155165	1.462245544	0.181332321	6.61E-15	IGHD	immunoglobulin heavy constant delta [Source:HGNC Symbol;Acc:5480]
2092	ENSG00000077232	1545.462043	0.845547765	0.104904075	6.81E-15	DNAJC10	DnaJ (Hsp40) homolog, subfamily C, member 10 [Source:HGNC Symbol;Acc:24637]
2093	ENSG00000178695	2370.286134	-0.660356479	0.08196412	7.01E-15	KCTD12	potassium channel tetramerization domain containing 12 [Source:HGNC Symbol;Acc:14678]
2094	ENSG00000254979	59.61039651	-3.360903821	0.417229562	7.09E-15	RP11-872D17.8	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:H0YCG3]

2095	ENSG00000101447	108.5600751	-2.488735295	0.309049359	7.22E-15	FAM83D	family with sequence similarity 83, member D [Source:HGNC Symbol;Acc:16122]
2096	ENSG00000167703	2126.939594	0.731530658	0.090847244	7.25E-15	SLC43A2	solute carrier family 43 (amino acid system L transporter), member 2 [Source:HGNC Symbol;Acc:23087]
2097	ENSG00000168939	358.0298335	-1.38072376	0.17168571	7.88E-15	SPRY3	sprouty homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:11271]
2098	ENSG00000169375	1587.358393	0.72477614	0.090140555	7.98E-15	SIN3A	SIN3 transcription regulator family member A [Source:HGNC Symbol;Acc:19353]
2099	ENSG00000135048	2030.878291	-0.661802249	0.082309238	7.98E-15	TMEM2	transmembrane protein 2 [Source:HGNC Symbol;Acc:11869]
2100	ENSG00000160305	4522.85456	-0.510891619	0.063558949	8.13E-15	DIP2A	DIP2 disco-interacting protein 2 homolog A (Drosophila) [Source:HGNC Symbol;Acc:17217]
2101	ENSG00000065534	388.7942484	1.774811912	0.220808632	8.15E-15	MYLK	myosin light chain kinase [Source:HGNC Symbol;Acc:7590]
2102	ENSG00000182253	101.4196055	2.718723785	0.338250616	8.16E-15	SYNM	synemin, intermediate filament protein [Source:HGNC Symbol;Acc:24466]
2103	ENSG00000103994	4076.771923	-0.571179442	0.071089493	8.35E-15	ZNF106	zinc finger protein 106 [Source:HGNC Symbol;Acc:12886]
2104	ENSG00000159111	522.9473365	1.170751485	0.145713923	8.35E-15	MRPL10	mitochondrial ribosomal protein L10 [Source:HGNC Symbol;Acc:14055]
2105	ENSG00000179094	437.334615	1.506201155	0.187487655	8.41E-15	PER1	period circadian clock 1 [Source:HGNC Symbol;Acc:8845]
2106	ENSG00000079337	270.3127239	1.549818604	0.192958666	8.53E-15	RAPGEF3	Rap guanine nucleotide exchange factor (GEF) 3 [Source:HGNC Symbol;Acc:16629]
2107	ENSG00000041353	188.7368291	1.98031025	0.246774398	9.03E-15	RAB27B	RAB27B, member RAS oncogene family [Source:HGNC Symbol;Acc:9767]
2108	ENSG00000134755	202.1110302	2.072517773	0.258266089	9.03E-15	DSC2	desmocollin 2 [Source:HGNC Symbol;Acc:3036]
2109	ENSG00000074047	61.46230993	3.526172407	0.439437745	9.06E-15	GLI2	GLI family zinc finger 2 [Source:HGNC Symbol;Acc:4318]
2110	ENSG00000143337	2547.24263	-0.650930812	0.081144014	9.23E-15	TOR1AIP1	torsin A interacting protein 1 [Source:HGNC Symbol;Acc:29456]
2111	ENSG00000197653	218.9190545	-1.807281869	0.225297817	9.24E-15	DNAH10	dynein, axonemal, heavy chain 10 [Source:HGNC Symbol;Acc:2941]
2112	ENSG00000160255	26906.09766	-0.541344492	0.067500217	9.38E-15	ITGB2	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit) [Source:HGNC Symbol;Acc:6155]
2113	ENSG00000182230	238.8637273	1.960766101	0.244532621	9.49E-15	FAM153B	family with sequence similarity 153, member B [Source:HGNC Symbol;Acc:27323]
2114	ENSG00000109458	962.2960794	1.07253506	0.133783002	9.59E-15	GAB1	GRB2-associated binding protein 1 [Source:HGNC Symbol;Acc:4066]
2115	ENSG00000136492	237.2743278	-2.024101883	0.252520013	9.70E-15	BRIP1	BRCA1 interacting protein C-terminal helicase 1 [Source:HGNC Symbol;Acc:20473]
2116	ENSG00000080546	883.822511	0.953421975	0.118957629	9.76E-15	SESN1	sestrin 1 [Source:HGNC Symbol;Acc:21595]
2117	ENSG00000244398	1474.009686	0.869287691	0.108478356	9.86E-15	RP11-466H18.1	
2118	ENSG00000156802	853.9759489	-1.006017526	0.125556668	9.93E-15	ATAD2	ATPase family, AAA domain containing 2 [Source:HGNC Symbol;Acc:30123]
2119	ENSG00000129691	1262.871813	-0.773550032	0.096564299	1.01E-14	ASH2L	ash2 (absent, small, or homeotic)-like (Drosophila) [Source:HGNC Symbol;Acc:744]
2120	ENSG00000262683	144.9468799	2.133869643	0.266602407	1.06E-14	FHIT	fragile histidine triad [Source:HGNC Symbol;Acc:3701]
2121	ENSG00000130518	476.9693393	1.366367939	0.170810954	1.10E-14	KIAA1683	KIAA1683 [Source:HGNC Symbol;Acc:29350]
2122	ENSG00000185386	76.93431439	2.956527672	0.370138863	1.21E-14	MAPK11	mitogen-activated protein kinase 11 [Source:HGNC Symbol;Acc:6873]

2123	ENSG00000002726	744.9968364	-1.058794928	0.132559397	1.22E-14	AOC1	amine oxidase, copper containing 1 [Source:HGNC Symbol;Acc:80]
2124	ENSG00000151502	2442.640651	-0.589429445	0.073812874	1.23E-14	VPS26B	vacuolar protein sorting 26 homolog B ( <i>S. pombe</i> ) [Source:HGNC Symbol;Acc:28119]
2125	ENSG00000206435	1098.618891	1.066852946	0.133620619	1.25E-14	HLA-C	major histocompatibility complex, class I, C [Source:HGNC Symbol;Acc:4933]
2126	ENSG00000109452	463.3676638	1.614760363	0.202261401	1.25E-14	INPP4B	inositol polyphosphate-4-phosphatase, type II, 105kDa [Source:HGNC Symbol;Acc:6075]
2127	ENSG00000262589	831.1750228	-1.30529182	0.16353645	1.27E-14	NSUN5	NOP2/Sun domain family, member 5 [Source:HGNC Symbol;Acc:16385]
2128	ENSG00000103226	1812.427739	-0.679518083	0.085143399	1.28E-14	NOMO3	NODAL modulator 3 [Source:HGNC Symbol;Acc:25242]
2129	ENSG00000154122	777.2065872	1.232151093	0.154479997	1.33E-14	ANKH	ANKH inorganic pyrophosphate transport regulator [Source:HGNC Symbol;Acc:15492]
2130	ENSG00000135441	2419.506462	-0.58012647	0.072759712	1.36E-14	BLOC1S1	biogenesis of lysosomal organelles complex-1, subunit 1 [Source:HGNC Symbol;Acc:4200]
2131	ENSG00000132514	171.9687241	2.081584787	0.261127831	1.38E-14	CLEC10A	C-type lectin domain family 10, member A [Source:HGNC Symbol;Acc:16916]
2132	ENSG00000108963	417.8223359	1.252061871	0.157112356	1.40E-14	DPH1	diphthamide biosynthesis 1 [Source:HGNC Symbol;Acc:3003]
2133	ENSG00000163781	2012.945993	-0.684416886	0.085883351	1.40E-14	TOPBP1	topoisomerase (DNA) II binding protein 1 [Source:HGNC Symbol;Acc:17008]
2134	ENSG00000164626	170.6019235	-1.903090713	0.238986625	1.47E-14	KCNK5	potassium channel, subfamily K, member 5 [Source:HGNC Symbol;Acc:6280]
2135	ENSG00000157388	183.0171058	-1.901129967	0.239040914	1.59E-14	CACNA1D	calcium channel, voltage-dependent, L type, alpha 1D subunit [Source:HGNC Symbol;Acc:1391]
2136	ENSG00000006453	174.0376128	-1.887882989	0.237388958	1.60E-14	BAIAP2L1	BAI1-associated protein 2-like 1 [Source:HGNC Symbol;Acc:21649]
2137	ENSG00000183023	468.3723251	1.478649174	0.185945145	1.61E-14	SLC8A1	solute carrier family 8 (sodium/calcium exchanger), member 1 [Source:HGNC Symbol;Acc:11068]
2138	ENSG00000174130	2510.719827	0.615650203	0.077435105	1.63E-14	TLR6	toll-like receptor 6 [Source:HGNC Symbol;Acc:16711]
2139	ENSG00000178996	2218.32871	-0.614098688	0.077249519	1.64E-14	SNX18	sorting nexin 18 [Source:HGNC Symbol;Acc:19245]
2140	ENSG00000138180	181.1844795	-1.921143666	0.241688571	1.65E-14	CEP55	centrosomal protein 55kDa [Source:HGNC Symbol;Acc:1161]
2141	ENSG00000143344	73.16229258	2.969059655	0.373727399	1.70E-14	RGL1	ral guanine nucleotide dissociation stimulator-like 1 [Source:HGNC Symbol;Acc:30281]
2142	ENSG00000080345	1831.722554	-0.715417915	0.090065694	1.72E-14	RIF1	RAP1 interacting factor homolog (yeast) [Source:HGNC Symbol;Acc:23207]
2143	ENSG00000167978	26923.18743	0.348710351	0.043901064	1.72E-14	SRRM2	serine/arginine repetitive matrix 2 [Source:HGNC Symbol;Acc:16639]
2144	ENSG00000142556	461.8235451	-1.268325848	0.159685567	1.73E-14	ZNF614	zinc finger protein 614 [Source:HGNC Symbol;Acc:24722]
2145	ENSG00000112339	1072.73036	0.866551808	0.109106534	1.73E-14	HBS1L	HBS1-like ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:4834]
2146	ENSG00000115267	542.943251	1.199996501	0.151098341	1.74E-14	IFIH1	interferon induced with helicase C domain 1 [Source:HGNC Symbol;Acc:18873]
2147	ENSG00000101596	16099.63083	0.36270653	0.045671935	1.74E-14	SMCHD1	structural maintenance of chromosomes flexible hinge domain containing 1 [Source:HGNC Symbol;Acc:29090]
2148	ENSG00000158163	333.9115472	-1.478060738	0.186173163	1.77E-14	DZIP1L	DAZ interacting zinc finger protein 1-like [Source:HGNC Symbol;Acc:26551]
2149	ENSG00000164463	3374.585003	0.579828368	0.0730512	1.80E-14	CREBRF	CREB3 regulatory factor [Source:HGNC Symbol;Acc:24050]
2150	ENSG00000185052	119.5175103	-2.311136614	0.291402764	1.89E-14	SLC24A3	solute carrier family 24 (sodium/potassium/calcium exchanger), member 3 [Source:HGNC Symbol;Acc:10977]

2151	ENSG00000131469	7245.186195	0.419013116	0.052838746	1.91E-14	RPL27	ribosomal protein L27 [Source:HGNC Symbol;Acc:10328]
2152	ENSG00000095370	1845.72367	0.856926073	0.108130055	1.98E-14	SH2D3C	SH2 domain containing 3C [Source:HGNC Symbol;Acc:16884]
2153	ENSG00000182272	29.98228787	4.215391171	0.532083504	2.02E-14	B4GALNT4	beta-1,4-N-acetyl-galactosaminyl transferase 4 [Source:HGNC Symbol;Acc:26315]
2154	ENSG00000228278	311.2429817	-1.46213853	0.18466324	2.10E-14	ORM2	orosomucoid 2 [Source:HGNC Symbol;Acc:8499]
2155	ENSG00000151893	2228.486346	-0.623249122	0.078727762	2.12E-14	CACUL1	CDK2-associated, cullin domain 1 [Source:HGNC Symbol;Acc:23727]
2156	ENSG00000261923	848.6147484	1.036088842	0.13088353	2.13E-14	PDE3B	phosphodiesterase 3B, cGMP-inhibited [Source:HGNC Symbol;Acc:8779]
2157	ENSG00000101294	2949.815137	-0.55458517	0.070078147	2.17E-14	HM13	histocompatibility (minor) 13 [Source:HGNC Symbol;Acc:16435]
2158	ENSG00000175591	226.3367344	-1.674897604	0.211723871	2.22E-14	P2RY2	purinergic receptor P2Y, G-protein coupled, 2 [Source:HGNC Symbol;Acc:8541]
2159	ENSG00000152270	848.4172009	1.035266928	0.130879314	2.23E-14	PDE3B	phosphodiesterase 3B, cGMP-inhibited [Source:HGNC Symbol;Acc:8779]
2160	ENSG00000169902	355.943178	1.471638339	0.186087957	2.26E-14	TPST1	tyrosylprotein sulfotransferase 1 [Source:HGNC Symbol;Acc:12020]
2161	ENSG00000140968	626.3462748	1.212073993	0.153299712	2.29E-14	IRF8	interferon regulatory factor 8 [Source:HGNC Symbol;Acc:5358]
2162	ENSG00000122986	1557.878308	0.744903585	0.094257891	2.36E-14	HVCN1	hydrogen voltage-gated channel 1 [Source:HGNC Symbol;Acc:28240]
2163	ENSG00000151623	169.6049499	2.266119615	0.286778352	2.37E-14	NR3C2	nuclear receptor subfamily 3, group C, member 2 [Source:HGNC Symbol;Acc:7979]
2164	ENSG00000149150	319.1522394	-1.419631447	0.179865972	2.56E-14	SLC43A1	solute carrier family 43 (amino acid system L transporter), member 1 [Source:HGNC Symbol;Acc:9225]
2165	ENSG00000092421	340.6852909	1.393445034	0.176550571	2.56E-14	SEMA6A	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A [Source:HGNC Symbol;Acc:10738]
2166	ENSG00000175344	257.0060092	-1.592249626	0.201786936	2.60E-14	CHRNA7	cholinergic receptor, nicotinic, alpha 7 (neuronal) [Source:HGNC Symbol;Acc:1960]
2167	ENSG00000140280	641.0350141	1.052508449	0.133459113	2.69E-14	LYSMD2	LysM, putative peptidoglycan-binding, domain containing 2 [Source:HGNC Symbol;Acc:28571]
2168	ENSG00000111145	663.6322457	1.122467508	0.142339757	2.70E-14	ELK3	ELK3, ETS-domain protein (SRF accessory protein 2) [Source:HGNC Symbol;Acc:3325]
2169	ENSG00000242386	119.8340936	2.41575913	0.306679089	2.89E-14	HLA-DMB	major histocompatibility complex, class II, DM beta [Source:HGNC Symbol;Acc:4935]
2170	ENSG00000138071	13337.15872	-0.393574484	0.049967351	2.90E-14	ACTR2	ARP2 actin-related protein 2 homolog (yeast) [Source:HGNC Symbol;Acc:169]
2171	ENSG00000182179	4273.276187	0.599481744	0.076130778	2.95E-14	UBA7	ubiquitin-like modifier activating enzyme 7 [Source:HGNC Symbol;Acc:12471]
2172	ENSG00000100353	2980.403076	0.548052811	0.069626699	3.02E-14	EIF3D	eukaryotic translation initiation factor 3, subunit D [Source:HGNC Symbol;Acc:3278]
2173	ENSG00000133316	700.8649112	-1.182528685	0.150237342	3.03E-14	WDR74	WD repeat domain 74 [Source:HGNC Symbol;Acc:25529]
2174	ENSG00000114779	610.3162577	1.178343524	0.149711916	3.03E-14	ABHD14B	abhydrolase domain containing 14B [Source:HGNC Symbol;Acc:28235]
2175	ENSG00000119917	1147.754565	0.841934398	0.10697087	3.03E-14	IFIT3	interferon-induced protein with tetratricopeptide repeats 3 [Source:HGNC Symbol;Acc:5411]
2176	ENSG00000136888	1604.784161	0.712625993	0.090545341	3.04E-14	ATP6V1G1	ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G1 [Source:HGNC Symbol;Acc:864]
2177	ENSG00000130270	548.272725	-1.167374435	0.148364299	3.09E-14	ATP8B3	ATPase, aminophospholipid transporter, class I, type 8B, member 3 [Source:HGNC Symbol;Acc:13535]
2178	ENSG00000241296	119.6820624	2.412774753	0.306706351	3.13E-14	HLA-DMB	major histocompatibility complex, class II, DM beta [Source:HGNC Symbol;Acc:4935]

2179	ENSG00000158856	499.2144334	1.215455895	0.15450995	3.13E-14	DMTN	dematin actin binding protein [Source:HGNC Symbol;Acc:3382]
2180	ENSG00000110880	3450.772772	-0.572430123	0.072773606	3.15E-14	CORO1C	coronin, actin binding protein, 1C [Source:HGNC Symbol;Acc:2254]
2181	ENSG00000242588	1539.467822	-0.742737511	0.09444086	3.18E-14	RP11-274B21.1	
2182	ENSG00000126882	2050.669932	0.820414323	0.104380035	3.30E-14	FAM78A	family with sequence similarity 78, member A [Source:HGNC Symbol;Acc:25465]
2183	ENSG00000113083	60.6442346	3.474901253	0.442925162	3.70E-14	LOX	lysyl oxidase [Source:HGNC Symbol;Acc:6664]
2184	ENSG00000156735	576.7638185	-1.051306761	0.134012463	3.71E-14	BAG4	BCL2-associated athanogene 4 [Source:HGNC Symbol;Acc:940]
2185	ENSG00000198948	266.2535678	-1.602698902	0.204341798	3.76E-14	MFAP3L	microfibrillar-associated protein 3-like [Source:HGNC Symbol;Acc:29083]
2186	ENSG00000198055	4631.188208	-0.717684704	0.091526317	3.82E-14	GRK6	G protein-coupled receptor kinase 6 [Source:HGNC Symbol;Acc:4545]
2187	ENSG00000259851	57.59940925	3.443446709	0.439156525	3.82E-14	TRBV28	T cell receptor beta variable 28 [Source:HGNC Symbol;Acc:12209]
2188	ENSG00000139187	332.1275905	1.428056106	0.182239159	3.97E-14	KLRG1	killer cell lectin-like receptor subfamily G, member 1 [Source:HGNC Symbol;Acc:6380]
2189	ENSG00000162704	12093.68278	-0.394857925	0.050392079	3.99E-14	ARPCS	actin related protein 2/3 complex, subunit 5, 16kDa [Source:HGNC Symbol;Acc:708]
2190	ENSG00000158201	2919.455824	0.591638888	0.075509261	4.00E-14	ABHD3	abhydrolase domain containing 3 [Source:HGNC Symbol;Acc:18718]
2191	ENSG00000128699	2104.062859	0.701722931	0.089567769	4.02E-14	ORMDL1	ORM1-like 1 ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:16036]
2192	ENSG00000126804	1463.817413	0.794877719	0.101496374	4.11E-14	ZBTB1	zinc finger and BTB domain containing 1 [Source:HGNC Symbol;Acc:20259]
2193	ENSG00000204933	56.54100035	-3.372409934	0.43062487	4.12E-14	CD177P1	CD177 molecule pseudogene 1 [Source:HGNC Symbol;Acc:34508]
2194	ENSG00000171310	2608.317582	0.572911748	0.073163972	4.14E-14	CHST11	carbohydrate (chondroitin 4) sulfotransferase 11 [Source:HGNC Symbol;Acc:17422]
2195	ENSG00000120063	3554.052401	0.527054237	0.067339699	4.27E-14	GNA13	guanine nucleotide binding protein (G protein), alpha 13 [Source:HGNC Symbol;Acc:4381]
2196	ENSG00000023171	584.9015467	-1.070685899	0.137106805	4.91E-14	GRAMD1B	GRAM domain containing 1B [Source:HGNC Symbol;Acc:29214]
2197	ENSG00000164032	4281.188397	-0.484187464	0.062012401	4.95E-14	H2AFZ	H2A histone family, member Z [Source:HGNC Symbol;Acc:4741]
2198	ENSG00000213937	394.3872737	-1.266808015	0.162252172	4.96E-14	CLDN9	claudin 9 [Source:HGNC Symbol;Acc:2051]
2199	ENSG00000211753	57.25532633	3.434643264	0.439913935	4.96E-14	TRBV28	T cell receptor beta variable 28 [Source:HGNC Symbol;Acc:12209]
2200	ENSG00000083799	5089.705257	0.557442894	0.071428397	5.09E-14	CYLD	cylindromatosis (turban tumor syndrome) [Source:HGNC Symbol;Acc:2584]
2201	ENSG00000171596	183.4972847	1.939787325	0.248617845	5.17E-14	NMUR1	neuromedin U receptor 1 [Source:HGNC Symbol;Acc:4518]
2202	ENSG00000196074	473.5155745	-1.328254082	0.170285982	5.26E-14	SYCP2	synaptonemal complex protein 2 [Source:HGNC Symbol;Acc:11490]
2203	ENSG00000141424	482.5922992	1.292608423	0.165727346	5.28E-14	SLC39A6	solute carrier family 39 (zinc transporter), member 6 [Source:HGNC Symbol;Acc:18607]
2204	ENSG00000114805	97.06085005	-2.502974555	0.320995474	5.36E-14	PLCH1	phospholipase C, eta 1 [Source:HGNC Symbol;Acc:29185]
2205	ENSG00000111897	4838.509626	0.496195368	0.063694635	5.68E-14	SERINC1	serine incorporator 1 [Source:HGNC Symbol;Acc:13464]
2206	ENSG00000132510	5374.47573	-0.760309136	0.09765857	5.90E-14	KDM6B	lysine (K)-specific demethylase 6B [Source:HGNC Symbol;Acc:29012]

2207	ENSG00000135414	200.5019835	2.072320147	0.266282775	6.03E-14	GDF11	growth differentiation factor 11 [Source:HGNC Symbol;Acc:4216]
2208	ENSG00000163820	530.7314976	1.229986016	0.158048026	6.03E-14	FYCO1	FYVE and coiled-coil domain containing 1 [Source:HGNC Symbol;Acc:14673]
2209	ENSG00000151835	728.5971204	1.122571091	0.144268771	6.09E-14	SACS	spastic ataxia of Charlevoix-Saguenay (sacsin) [Source:HGNC Symbol;Acc:10519]
2210	ENSG00000085185	935.5366221	-0.852050739	0.109526257	6.17E-14	BCORL1	BCL6 corepressor-like 1 [Source:HGNC Symbol;Acc:25657]
2211	ENSG00000110395	5068.123583	-0.465188816	0.059840938	6.45E-14	CBL	Cbl proto-oncogene, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:1541]
2212	ENSG00000164466	1063.974307	-0.940381672	0.121010893	6.59E-14	SFXN1	sideroflexin 1 [Source:HGNC Symbol;Acc:16085]
2213	ENSG00000114331	5884.007662	-0.496775518	0.063953725	6.76E-14	ACAP2	ArfGAP with coiled-coil, ankyrin repeat and PH domains 2 [Source:HGNC Symbol;Acc:16469]
2214	ENSG00000125304	5718.679671	-0.45899682	0.059129163	7.03E-14	TM9SF2	transmembrane 9 superfamily member 2 [Source:HGNC Symbol;Acc:11865]
2215	ENSG00000159433	458.2608277	1.198653868	0.154492453	7.25E-14	STARD9	StAR-related lipid transfer (START) domain containing 9 [Source:HGNC Symbol;Acc:19162]
2216	ENSG00000153113	3927.511854	-0.612013589	0.078895675	7.33E-14	CAST	calpastatin [Source:HGNC Symbol;Acc:1515]
2217	ENSG00000169919	1593.198747	-0.681261773	0.087828674	7.36E-14	GUSB	glucuronidase, beta [Source:HGNC Symbol;Acc:4696]
2218	ENSG00000182606	819.6779684	0.91473432	0.118011645	7.68E-14	TRAK1	trafficking protein, kinesin binding 1 [Source:HGNC Symbol;Acc:29947]
2219	ENSG00000145569	863.6918591	-0.930580684	0.120057562	7.68E-14	FAM105A	family with sequence similarity 105, member A [Source:HGNC Symbol;Acc:25629]
2220	ENSG00000051341	280.4923136	-1.593374123	0.205634682	7.83E-14	POLQ	polymerase (DNA directed), theta [Source:HGNC Symbol;Acc:9186]
2221	ENSG00000196586	112.2925902	2.4748064	0.31942912	7.89E-14	MYO6	myosin VI [Source:HGNC Symbol;Acc:7605]
2222	ENSG00000039560	75.19456903	3.07439998	0.396859104	7.93E-14	RAI14	retinoic acid induced 14 [Source:HGNC Symbol;Acc:14873]
2223	ENSG00000226264	141.3248476	2.069990566	0.267232404	7.98E-14	HLA-DMB	major histocompatibility complex, class II, DM beta [Source:HGNC Symbol;Acc:4935]
2224	ENSG00000196937	301.8545438	1.56113472	0.201613571	8.16E-14	FAM3C	family with sequence similarity 3, member C [Source:HGNC Symbol;Acc:18664]
2225	ENSG00000172375	2004.468803	-0.732648223	0.094658195	8.37E-14	C2CD2L	C2CD2-like [Source:HGNC Symbol;Acc:29000]
2226	ENSG00000107371	499.5798182	-1.176654372	0.152129188	8.72E-14	EXOSC3	exosome component 3 [Source:HGNC Symbol;Acc:17944]
2227	ENSG00000134996	3524.420856	-0.524975123	0.067878048	8.75E-14	OSTF1	osteoclast stimulating factor 1 [Source:HGNC Symbol;Acc:8510]
2228	ENSG00000078124	400.2822503	-1.262580561	0.16328626	8.87E-14	ACER3	alkaline ceramidase 3 [Source:HGNC Symbol;Acc:16066]
2229	ENSG00000067182	3638.444258	0.573856987	0.074222237	8.92E-14	TNFRSF1A	tumor necrosis factor receptor superfamily, member 1A [Source:HGNC Symbol;Acc:11916]
2230	ENSG00000076685	7522.962946	-0.440325974	0.056972843	9.12E-14	NT5C2	5'-nucleotidase, cytosolic II [Source:HGNC Symbol;Acc:8022]
2231	ENSG00000169100	2333.26737	0.876575924	0.113425194	9.15E-14	SLC25A6	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 6 [Source:HGNC Symbol;Acc:10992]
2232	ENSG00000196814	508.477768	-1.281690589	0.165886106	9.28E-14	MVB12B	multivesicular body subunit 12B [Source:HGNC Symbol;Acc:23368]
2233	ENSG00000125827	3267.008193	0.566373122	0.073335421	9.52E-14	TMX4	thioredoxin-related transmembrane protein 4 [Source:HGNC Symbol;Acc:25237]
2234	ENSG00000169740	235.9098471	1.664794772	0.215875964	1.04E-13	ZNF32	zinc finger protein 32 [Source:HGNC Symbol;Acc:13095]

2235	ENSG00000068489	255.1929244	-1.501759148	0.194965196	1.12E-13	PRR11	proline rich 11 [Source:HGNC Symbol;Acc:25619]
2236	ENSG00000131634	102.3244953	2.71338138	0.352304003	1.12E-13	TMEM204	transmembrane protein 204 [Source:HGNC Symbol;Acc:14158]
2237	ENSG00000136878	2099.400976	-0.943966268	0.122585201	1.13E-13	USP20	ubiquitin specific peptidase 20 [Source:HGNC Symbol;Acc:12619]
2238	ENSG00000160117	386.4466997	-1.265690257	0.164462487	1.17E-13	ANKLE1	ankyrin repeat and LEM domain containing 1 [Source:HGNC Symbol;Acc:26812]
2239	ENSG00000111229	12195.71127	-0.388217359	0.05056328	1.35E-13	ARPC3	actin related protein 2/3 complex, subunit 3, 21kDa [Source:HGNC Symbol;Acc:706]
2240	ENSG00000119865	119.4609428	-2.158710841	0.281263572	1.38E-13	CNRIP1	cannabinoid receptor interacting protein 1 [Source:HGNC Symbol;Acc:24546]
2241	ENSG00000169203	1928.463809	-0.610631041	0.079579241	1.40E-13	RP11-231C14.4	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:A8MQ56]
2242	ENSG00000076003	946.4942896	-0.91620426	0.119548439	1.51E-13	MCM6	minichromosome maintenance complex component 6 [Source:HGNC Symbol;Acc:6949]
2243	ENSG00000164066	697.9174085	-0.962985661	0.125654268	1.51E-13	INTU	inturned planar cell polarity protein [Source:HGNC Symbol;Acc:29239]
2244	ENSG00000158711	1510.656736	0.881227996	0.115046517	1.55E-13	ELK4	ELK4, ETS-domain protein (SRF accessory protein 1) [Source:HGNC Symbol;Acc:3326]
2245	ENSG00000158805	2716.928543	0.685589509	0.089514494	1.56E-13	ZNF276	zinc finger protein 276 [Source:HGNC Symbol;Acc:23330]
2246	ENSG00000273135	988.6794618	0.977127228	0.127616202	1.59E-13	RPS9	
2247	ENSG00000273385	988.6794618	0.977127228	0.127616202	1.59E-13	RPS9	
2248	ENSG00000272943	988.6794618	0.977127228	0.127616202	1.59E-13	RPS9	
2249	ENSG00000273467	988.6794618	0.977127228	0.127616202	1.59E-13	RPS9	
2250	ENSG00000142687	4715.670212	-0.506681338	0.066179057	1.59E-13	KIAA0319L	KIAA0319-like [Source:HGNC Symbol;Acc:30071]
2251	ENSG00000057252	866.0908601	0.905910282	0.118336225	1.60E-13	SOAT1	sterol O-acyltransferase 1 [Source:HGNC Symbol;Acc:11177]
2252	ENSG00000141854	274.8084676	-1.485424712	0.194041283	1.60E-13	hsa-mir-1199	hsa-mir-1199 [Source:miRBase;Acc:MI0020340]
2253	ENSG00000110665	5137.477072	-0.541557512	0.070760853	1.63E-13	C11orf21	chromosome 11 open reading frame 21 [Source:HGNC Symbol;Acc:13231]
2254	ENSG00000182923	2319.895776	0.597318163	0.078055564	1.64E-13	CEP63	centrosomal protein 63kDa [Source:HGNC Symbol;Acc:25815]
2255	ENSG00000178752	48.54172067	-3.474757273	0.454077486	1.64E-13	FAM132B	family with sequence similarity 132, member B [Source:HGNC Symbol;Acc:26727]
2256	ENSG00000179335	3142.374043	-0.544526963	0.071190084	1.68E-13	CLK3	CDC-like kinase 3 [Source:HGNC Symbol;Acc:2071]
2257	ENSG00000126391	1054.983818	0.898956445	0.117554908	1.70E-13	FRMD8	FERM domain containing 8 [Source:HGNC Symbol;Acc:25462]
2258	ENSG00000137492	1268.298247	0.800006776	0.104693928	1.78E-13	PRKRIR	protein-kinase, interferon-inducible double stranded RNA dependent inhibitor, repressor of (P58 repressor) [Source:HGNC Symbol;Acc:9440]
2259	ENSG00000172175	942.668931	0.919946529	0.120450304	1.83E-13	MALT1	mucosa associated lymphoid tissue lymphoma translocation gene 1 [Source:HGNC Symbol;Acc:6819]
2260	ENSG00000204252	69.12616516	3.194750985	0.418348821	1.85E-13	HLA-DOA	major histocompatibility complex, class II, DO alpha [Source:HGNC Symbol;Acc:4936]
2261	ENSG00000140367	487.1122495	1.32506076	0.17358666	1.89E-13	UBE2Q2	ubiquitin-conjugating enzyme E2Q family member 2 [Source:HGNC Symbol;Acc:19248]
2262	ENSG00000126432	3142.34992	-0.616365654	0.08075565	1.91E-13	PRDX5	peroxiredoxin 5 [Source:HGNC Symbol;Acc:9355]

2263	ENSG00000272643	989.0857548	0.976046577	0.127882637	1.91E-13	RPS9	
2264	ENSG00000272614	989.274561	0.976611646	0.127973676	1.92E-13	RPS9	
2265	ENSG00000128641	105.7427384	2.438530406	0.31958903	1.94E-13	MYO1B	myosin IB [Source:HGNC Symbol;Acc:7596]
2266	ENSG00000143365	141.9219915	2.270809759	0.297649152	1.95E-13	RORC	RAR-related orphan receptor C [Source:HGNC Symbol;Acc:10260]
2267	ENSG00000162383	58.50124259	3.314844625	0.434541861	1.96E-13	SLC1A7	solute carrier family 1 (glutamate transporter), member 7 [Source:HGNC Symbol;Acc:10945]
2268	ENSG00000164663	678.9087634	-0.956798898	0.12545442	1.99E-13	USP49	ubiquitin specific peptidase 49 [Source:HGNC Symbol;Acc:20078]
2269	ENSG00000163694	1580.132196	0.701034024	0.091957413	2.04E-13	RBM47	RNA binding motif protein 47 [Source:HGNC Symbol;Acc:30358]
2270	ENSG00000113448	1117.359808	-0.996768272	0.13077655	2.06E-13	PDE4D	phosphodiesterase 4D, cAMP-specific [Source:HGNC Symbol;Acc:8783]
2271	ENSG00000146215	216.2108077	-1.772464578	0.232630297	2.10E-13	CRIP3	cysteine-rich protein 3 [Source:HGNC Symbol;Acc:17751]
2272	ENSG00000164649	1405.765602	-0.756998385	0.099375687	2.13E-13	CDCA7L	cell division cycle associated 7-like [Source:HGNC Symbol;Acc:30777]
2273	ENSG00000172164	948.3939786	-1.086912271	0.142689545	2.13E-13	SNTB1	syntrophin, beta 1 (dystrophin-associated protein A1, 59kDa, basic component 1) [Source:HGNC Symbol;Acc:11168]
2274	ENSG00000072958	1588.176527	-0.764209636	0.100346707	2.16E-13	AP1M1	adaptor-related protein complex 1, mu 1 subunit [Source:HGNC Symbol;Acc:13667]
2275	ENSG00000168876	978.2012472	0.849470867	0.111549184	2.17E-13	ANKRD49	ankyrin repeat domain 49 [Source:HGNC Symbol;Acc:25970]
2276	ENSG00000116514	3027.24954	0.530683755	0.069722155	2.23E-13	RNF19B	ring finger protein 19B [Source:HGNC Symbol;Acc:26886]
2277	ENSG00000144746	4095.310629	0.513311117	0.067460389	2.27E-13	ARL6IP5	ADP-ribosylation-like factor 6 interacting protein 5 [Source:HGNC Symbol;Acc:16937]
2278	ENSG00000082074	10394.64547	0.414069975	0.054451423	2.35E-13	FYB	FYN binding protein [Source:HGNC Symbol;Acc:4036]
2279	ENSG00000099139	221.2040606	-1.86979085	0.246049135	2.45E-13	PCSK5	proprotein convertase subtilisin/kexin type 5 [Source:HGNC Symbol;Acc:8747]
2280	ENSG00000169554	2385.798315	0.597548293	0.078646189	2.47E-13	ZEB2	zinc finger E-box binding homeobox 2 [Source:HGNC Symbol;Acc:14881]
2281	ENSG00000114648	1404.290292	-0.787286863	0.10366792	2.54E-13	KLHL18	kelch-like family member 18 [Source:HGNC Symbol;Acc:29120]
2282	ENSG00000269374	79.686892	-2.629614864	0.346323152	2.56E-13	CTB-50E14.5	
2283	ENSG00000134313	3017.629466	-0.67822236	0.089324772	2.57E-13	KIDINS220	kinase D-interacting substrate, 220kDa [Source:HGNC Symbol;Acc:29508]
2284	ENSG00000223547	431.2955491	1.205751975	0.15881652	2.58E-13	ZNF844	zinc finger protein 844 [Source:HGNC Symbol;Acc:25932]
2285	ENSG00000139496	1903.598444	-0.669896333	0.088256002	2.61E-13	NUPL1	nucleoporin like 1 [Source:HGNC Symbol;Acc:20261]
2286	ENSG00000175455	1983.715447	-0.76200241	0.100402345	2.63E-13	CCDC14	coiled-coil domain containing 14 [Source:HGNC Symbol;Acc:25766]
2287	ENSG00000169908	40.64900538	3.854522912	0.508255573	2.75E-13	TM4SF1	transmembrane 4 L six family member 1 [Source:HGNC Symbol;Acc:11853]
2288	ENSG00000118308	3445.205368	0.557994924	0.073579205	2.75E-13	LRMP	lymphoid-restricted membrane protein [Source:HGNC Symbol;Acc:6690]
2289	ENSG00000170049	414.6316225	-1.238330938	0.163384152	2.84E-13	KCNAB3	potassium voltage-gated channel, shaker-related subfamily, beta member 3 [Source:HGNC Symbol;Acc:6230]
2290	ENSG00000197766	180.77016	1.907528795	0.251693022	2.85E-13	CFD	complement factor D (adipsin) [Source:HGNC Symbol;Acc:2771]



2291	ENSG00000139793	226.7441405	1.72786225	0.228060569	2.90E-13	MBNL2	muscleblind-like splicing regulator 2 [Source:HGNC Symbol;Acc:16746]
2292	ENSG00000173262	156.6975807	-1.895589801	0.250199728	2.90E-13	SLC2A14	solute carrier family 2 (facilitated glucose transporter), member 14 [Source:HGNC Symbol;Acc:18301]
2293	ENSG00000084676	3234.347446	0.603016728	0.079601525	2.92E-13	NCOA1	nuclear receptor coactivator 1 [Source:HGNC Symbol;Acc:7668]
2294	ENSG00000105968	3074.66868	-0.626068037	0.082679638	2.99E-13	H2AFV	H2A histone family, member V [Source:HGNC Symbol;Acc:20664]
2295	ENSG00000176390	2923.837135	-0.550529499	0.072733787	3.06E-13	CRLF3	cytokine receptor-like factor 3 [Source:HGNC Symbol;Acc:17177]
2296	ENSG00000107262	1106.451651	0.771691799	0.101958982	3.07E-13	BAG1	BCL2-associated athanogene [Source:HGNC Symbol;Acc:937]
2297	ENSG00000142186	1027.822156	0.981472961	0.129704582	3.11E-13	SCYL1	SCY1-like 1 (S. cerevisiae) [Source:HGNC Symbol;Acc:14372]
2298	ENSG00000147138	201.5211015	1.858826731	0.245693339	3.14E-13	GPR174	G protein-coupled receptor 174 [Source:HGNC Symbol;Acc:30245]
2299	ENSG00000170956	3422.191988	-0.502860913	0.066468533	3.15E-13	CEACAM3	carcinoembryonic antigen-related cell adhesion molecule 3 [Source:HGNC Symbol;Acc:1815]
2300	ENSG00000239713	1454.659777	0.705815508	0.093335702	3.23E-13	APOBEC3G	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3G [Source:HGNC Symbol;Acc:17357]
2301	ENSG00000196865	939.5354719	-0.929934794	0.123000206	3.27E-13	NHLRC2	NHL repeat containing 2 [Source:HGNC Symbol;Acc:24731]
2302	ENSG00000166046	1510.580995	-0.829955258	0.109796159	3.30E-13	TCP11L2	t-complex 11, testis-specific-like 2 [Source:HGNC Symbol;Acc:28627]
2303	ENSG00000263528	287.8750729	1.532073454	0.202792593	3.41E-13	IKBKE	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon [Source:HGNC Symbol;Acc:14552]
2304	ENSG00000167671	917.4973411	1.043193435	0.138109769	3.45E-13	UBXN6	UBX domain protein 6 [Source:HGNC Symbol;Acc:14928]
2305	ENSG00000140368	4057.534172	-0.687937262	0.091090561	3.47E-13	PSTPIP1	proline-serine-threonine phosphatase interacting protein 1 [Source:HGNC Symbol;Acc:9580]
2306	ENSG00000007264	293.9104318	1.578942915	0.209115655	3.52E-13	MATK	megakaryocyte-associated tyrosine kinase [Source:HGNC Symbol;Acc:6906]
2307	ENSG00000167693	81.54175057	-2.730501532	0.361645401	3.52E-13	NXN	nucleoredoxin [Source:HGNC Symbol;Acc:18008]
2308	ENSG00000139178	3414.306795	-0.542973526	0.071916906	3.53E-13	C1RL	complement component 1, r subcomponent-like [Source:HGNC Symbol;Acc:21265]
2309	ENSG00000170921	664.818573	-1.106680332	0.146684709	3.68E-13	TANC2	tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2 [Source:HGNC Symbol;Acc:30212]
2310	ENSG00000104450	483.4417162	-1.108588756	0.146953009	3.70E-13	SPAG1	sperm associated antigen 1 [Source:HGNC Symbol;Acc:11212]
2311	ENSG00000065559	1414.627721	0.809449925	0.107308845	3.71E-13	MAP2K4	mitogen-activated protein kinase kinase 4 [Source:HGNC Symbol;Acc:6844]
2312	ENSG00000175097	78.80209995	2.636772356	0.34965443	3.77E-13	RAG2	recombination activating gene 2 [Source:HGNC Symbol;Acc:9832]
2313	ENSG00000244560	140.6585568	2.043794828	0.271083552	3.82E-13	RP4-800G7.2	
2314	ENSG00000234704	2140.880848	-0.632567099	0.083921106	3.87E-13	BRD2	bromodomain containing 2 [Source:HGNC Symbol;Acc:1103]
2315	ENSG00000164828	712.8086191	0.986183862	0.130845544	3.89E-13	SUN1	Sad1 and UNC84 domain containing 1 [Source:HGNC Symbol;Acc:18587]
2316	ENSG00000136877	427.4466665	1.194794342	0.15857009	3.95E-13	FPGS	folylpolyglutamate synthase [Source:HGNC Symbol;Acc:3824]
2317	ENSG00000115850	35.86295045	3.840700404	0.509990135	4.07E-13	LCT	lactase [Source:HGNC Symbol;Acc:6530]
2318	ENSG00000151338	966.3591084	-0.867554232	0.115205184	4.08E-13	MIPOL1	mirror-image polydactyly 1 [Source:HGNC Symbol;Acc:21460]

2319	ENSG00000089692	151.1680123	2.302710104	0.30591641	4.18E-13	LAG3	lymphocyte-activation gene 3 [Source:HGNC Symbol;Acc:6476]
2320	ENSG00000241674	140.0813232	2.013340332	0.267762128	4.45E-13	HLA-DMB	major histocompatibility complex, class II, DM beta [Source:HGNC Symbol;Acc:4935]
2321	ENSG00000258839	214.3296678	1.76044405	0.234170595	4.49E-13	MC1R	melanocortin 1 receptor (alpha melanocyte stimulating hormone receptor) [Source:HGNC Symbol;Acc:6929]
2322	ENSG00000140931	1381.086839	0.736283537	0.097958016	4.54E-13	CMTM3	CKLF-like MARVEL transmembrane domain containing 3 [Source:HGNC Symbol;Acc:19174]
2323	ENSG00000139192	751.8127658	1.032661913	0.137398644	4.56E-13	TAPBP1	TAP binding protein-like [Source:HGNC Symbol;Acc:30683]
2324	ENSG00000083444	1788.854529	-0.659339446	0.087727221	4.56E-13	PLOD1	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 1 [Source:HGNC Symbol;Acc:9081]
2325	ENSG00000129055	866.0700604	0.874908367	0.116460402	4.67E-13	ANAPC13	anaphase promoting complex subunit 13 [Source:HGNC Symbol;Acc:24540]
2326	ENSG00000147684	1088.575993	-0.74752199	0.099536791	4.76E-13	NDUFB9	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 9, 22kDa [Source:HGNC Symbol;Acc:7704]
2327	ENSG00000251369	335.7722659	1.343398886	0.17906421	5.04E-13	ZNF550	zinc finger protein 550 [Source:HGNC Symbol;Acc:28643]
2328	ENSG00000129187	605.5433371	1.04185101	0.138883338	5.07E-13	DCTD	dCMP deaminase [Source:HGNC Symbol;Acc:2710]
2329	ENSG00000161267	728.656698	-0.910892355	0.121436902	5.09E-13	BDH1	3-hydroxybutyrate dehydrogenase, type 1 [Source:HGNC Symbol;Acc:1027]
2330	ENSG00000253719	1993.10147	0.60636131	0.080852151	5.14E-13	ATXN7L3B	ataxin 7-like 3B [Source:HGNC Symbol;Acc:37931]
2331	ENSG00000092199	9855.738555	0.376136734	0.050154731	5.14E-13	HNRNPC	heterogeneous nuclear ribonucleoprotein C (C1/C2) [Source:HGNC Symbol;Acc:5035]
2332	ENSG00000010256	1764.713497	-0.618275566	0.082445035	5.15E-13	UQCRC1	ubiquinol-cytochrome c reductase core protein I [Source:HGNC Symbol;Acc:12585]
2333	ENSG00000116983	78.40796922	2.976851936	0.39704738	5.22E-13	HPCAL4	hippocalcin like 4 [Source:HGNC Symbol;Acc:18212]
2334	ENSG00000169184	81.18039712	3.205986448	0.427719043	5.29E-13	MN1	meningioma (disrupted in balanced translocation) 1 [Source:HGNC Symbol;Acc:7180]
2335	ENSG00000116147	151.5719516	-1.941499118	0.259071498	5.35E-13	TNR	tenascin R [Source:HGNC Symbol;Acc:11953]
2336	ENSG00000121413	395.6361388	1.291969086	0.172426742	5.40E-13	ZSCAN18	zinc finger and SCAN domain containing 18 [Source:HGNC Symbol;Acc:21037]
2337	ENSG00000255641	97.31198815	2.56232592	0.342068447	5.49E-13	NKG2-E	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:F5H6K3]
2338	ENSG00000056972	433.2844641	1.175729697	0.157004943	5.58E-13	TRAF3IP2	TRAF3 interacting protein 2 [Source:HGNC Symbol;Acc:1343]
2339	ENSG00000197415	172.7102087	-1.781414526	0.238074156	5.83E-13	VEPH1	ventricular zone expressed PH domain-containing 1 [Source:HGNC Symbol;Acc:25735]
2340	ENSG00000182287	2366.86426	-0.626660655	0.0837628	5.88E-13	AP1S2	adaptor-related protein complex 1, sigma 2 subunit [Source:HGNC Symbol;Acc:560]
2341	ENSG00000111252	2967.404478	0.529660089	0.070807197	5.93E-13	SH2B3	SH2B adaptor protein 3 [Source:HGNC Symbol;Acc:29605]
2342	ENSG00000175390	2910.221492	0.524534036	0.07015558	6.09E-13	EIF3F	eukaryotic translation initiation factor 3, subunit F [Source:HGNC Symbol;Acc:3275]
2343	ENSG00000137177	2119.553424	-0.660247455	0.088445753	6.65E-13	KIF13A	kinesin family member 13A [Source:HGNC Symbol;Acc:14566]
2344	ENSG00000051009	3034.145286	-0.614958759	0.082381552	6.66E-13	FAM160A2	family with sequence similarity 160, member A2 [Source:HGNC Symbol;Acc:25378]
2345	ENSG00000263185	390.8674236	-1.189694377	0.159442705	6.82E-13	TEX2	testis expressed 2 [Source:HGNC Symbol;Acc:30884]
2346	ENSG00000136478	390.8669322	-1.189687134	0.159441762	6.82E-13	TEX2	testis expressed 2 [Source:HGNC Symbol;Acc:30884]

2347	ENSG00000152465	266.8670332	1.541991497	0.206671198	6.84E-13	NMT2	N-myristoyltransferase 2 [Source:HGNC Symbol;Acc:7858]
2348	ENSG00000119684	236.837839	1.6642064	0.223074173	6.88E-13	MLH3	mutL homolog 3 [Source:HGNC Symbol;Acc:7128]
2349	ENSG00000174579	2441.753461	0.598669731	0.080253691	6.91E-13	MSL2	male-specific lethal 2 homolog (Drosophila) [Source:HGNC Symbol;Acc:25544]
2350	ENSG00000149532	4450.827905	0.488160371	0.065447045	6.95E-13	CPSF7	cleavage and polyadenylation specific factor 7, 59kDa [Source:HGNC Symbol;Acc:30098]
2351	ENSG00000121807	532.0911238	1.145404693	0.153565752	6.95E-13	CCR2	chemokine (C-C motif) receptor 2 [Source:HGNC Symbol;Acc:1603]
2352	ENSG00000085514	3638.80168	0.495360336	0.066421119	7.00E-13	PILRA	paired immunoglobulin-like type 2 receptor alpha [Source:HGNC Symbol;Acc:20396]
2353	ENSG00000107554	592.2087475	-0.987140549	0.132382308	7.05E-13	DNMBP	dynamitin binding protein [Source:HGNC Symbol;Acc:30373]
2354	ENSG00000021776	1364.753308	-0.883539375	0.118657836	7.64E-13	AQR	aquarius intron-binding spliceosomal factor [Source:HGNC Symbol;Acc:29513]
2355	ENSG00000211893	337.7719851	-1.298072131	0.17450378	8.08E-13	IGHG2	immunoglobulin heavy constant gamma 2 (G2m marker) [Source:HGNC Symbol;Acc:5526]
2356	ENSG00000270895	337.7719851	-1.298072131	0.17450378	8.08E-13	IGHG2	immunoglobulin heavy constant gamma 2 (G2m marker) [Source:HGNC Symbol;Acc:5526]
2357	ENSG00000189127	327.3702861	-1.542393479	0.207353958	8.09E-13	ANKRD34B	ankyrin repeat domain 34B [Source:HGNC Symbol;Acc:33736]
2358	ENSG00000185722	2393.099118	-0.552634425	0.07433354	8.33E-13	ANKFY1	ankyrin repeat and FYVE domain containing 1 [Source:HGNC Symbol;Acc:20763]
2359	ENSG00000138758	614.1341197	1.398469855	0.188145961	8.43E-13	SEPT11	septin 11 [Source:HGNC Symbol;Acc:25589]
2360	ENSG0000005339	4590.431176	-0.478577067	0.064399808	8.52E-13	CREBBP	CREB binding protein [Source:HGNC Symbol;Acc:2348]
2361	ENSG00000204789	100.587805	2.425938808	0.326533744	8.65E-13	ZNF204P	zinc finger protein 204, pseudogene [Source:HGNC Symbol;Acc:12995]
2362	ENSG00000189350	283.4039741	1.398807444	0.18830712	8.71E-13	FAM179A	family with sequence similarity 179, member A [Source:HGNC Symbol;Acc:33715]
2363	ENSG00000100376	613.7267551	-1.075294891	0.144774919	8.77E-13	FAM118A	family with sequence similarity 118, member A [Source:HGNC Symbol;Acc:1313]
2364	ENSG00000008394	290.8629535	-1.476292486	0.198791204	8.84E-13	MGST1	microsomal glutathione S-transferase 1 [Source:HGNC Symbol;Acc:7061]
2365	ENSG00000106991	521.6584656	1.107457357	0.149200863	9.09E-13	ENG	endoglin [Source:HGNC Symbol;Acc:3349]
2366	ENSG00000237724	1056.755717	-0.926358739	0.124841614	9.24E-13	HSPA1A	heat shock 70kDa protein 1A [Source:HGNC Symbol;Acc:5232]
2367	ENSG00000165813	1478.283184	-0.756270186	0.101959912	9.45E-13	C10orf118	chromosome 10 open reading frame 118 [Source:HGNC Symbol;Acc:24349]
2368	ENSG00000135976	752.762157	-1.143571879	0.154225497	9.62E-13	ANKRD36	ankyrin repeat domain 36 [Source:HGNC Symbol;Acc:24079]
2369	ENSG00000137193	2916.011952	0.538750548	0.072669414	9.70E-13	PIM1	pim-1 oncogene [Source:HGNC Symbol;Acc:8986]
2370	ENSG00000155097	1412.712969	-0.792863633	0.106960406	9.77E-13	ATP6V1C1	ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C1 [Source:HGNC Symbol;Acc:856]
2371	ENSG00000119707	8772.361836	0.454799335	0.061386312	1.01E-12	RBM25	RNA binding motif protein 25 [Source:HGNC Symbol;Acc:23244]
2372	ENSG00000112297	3115.628112	-0.553413758	0.074703442	1.01E-12	AIM1	absent in melanoma 1 [Source:HGNC Symbol;Acc:356]
2373	ENSG00000176597	762.5454362	-0.949028148	0.128204535	1.05E-12	B3GNT5	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5 [Source:HGNC Symbol;Acc:15684]
2374	ENSG00000163600	141.7697958	2.159089104	0.291851851	1.09E-12	ICOS	inducible T-cell co-stimulator [Source:HGNC Symbol;Acc:5351]

2375	ENSG00000198780	174.4365626	1.875691767	0.253561018	1.09E-12	FAM169A	family with sequence similarity 169, member A [Source:HGNC Symbol;Acc:29138]
2376	ENSG00000164930	232.8348988	1.685597742	0.22787904	1.10E-12	FZD6	frizzled family receptor 6 [Source:HGNC Symbol;Acc:4044]
2377	ENSG00000081307	903.2138832	-0.823659472	0.111386231	1.12E-12	UBA5	ubiquitin-like modifier activating enzyme 5 [Source:HGNC Symbol;Acc:23230]
2378	ENSG00000137965	923.6822021	-1.01191759	0.136848786	1.12E-12	IFI44	interferon-induced protein 44 [Source:HGNC Symbol;Acc:16938]
2379	ENSG00000136802	426.0836868	1.365675058	0.18472878	1.13E-12	LRRRC8A	leucine rich repeat containing 8 family, member A [Source:HGNC Symbol;Acc:19027]
2380	ENSG00000135114	464.1302233	1.141909993	0.154508632	1.15E-12	OASL	2'-5'-oligoadenylate synthetase-like [Source:HGNC Symbol;Acc:8090]
2381	ENSG00000173114	110.6520426	2.384032512	0.322610788	1.16E-12	LRRN3	leucine rich repeat neuronal 3 [Source:HGNC Symbol;Acc:17200]
2382	ENSG00000100345	35762.8997	-0.489571939	0.066253678	1.16E-12	MYH9	myosin, heavy chain 9, non-muscle [Source:HGNC Symbol;Acc:7579]
2383	ENSG00000163918	442.8295541	-1.127986164	0.152668051	1.17E-12	RFC4	replication factor C (activator 1) 4, 37kDa [Source:HGNC Symbol;Acc:9972]
2384	ENSG00000168286	449.1594143	1.135101272	0.153672326	1.18E-12	THAP11	THAP domain containing 11 [Source:HGNC Symbol;Acc:23194]
2385	ENSG00000157379	981.9473654	-0.799597085	0.108259695	1.19E-12	DHRS1	dehydrogenase/reductase (SDR family) member 1 [Source:HGNC Symbol;Acc:16445]
2386	ENSG00000143774	1813.436718	0.94464376	0.127932618	1.21E-12	GUK1	guanylate kinase 1 [Source:HGNC Symbol;Acc:4693]
2387	ENSG00000171241	249.1900429	-1.719590678	0.232983787	1.23E-12	SHCBP1	SHC SH2-domain binding protein 1 [Source:HGNC Symbol;Acc:29547]
2388	ENSG00000154928	277.0139888	1.613376195	0.218720301	1.27E-12	EPHB1	EPH receptor B1 [Source:HGNC Symbol;Acc:3392]
2389	ENSG00000149527	249.0102379	1.925489401	0.261071521	1.28E-12	PLCH2	phospholipase C, eta 2 [Source:HGNC Symbol;Acc:29037]
2390	ENSG00000262407	360.687466	-1.363149184	0.184839119	1.29E-12	CCDC125	coiled-coil domain containing 125 [Source:HGNC Symbol;Acc:28924]
2391	ENSG00000138032	1880.074751	-0.613483061	0.083186665	1.29E-12	PPM1B	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1B [Source:HGNC Symbol;Acc:9276]
2392	ENSG00000164023	212.9906883	-2.004480972	0.271996533	1.34E-12	SGMS2	sphingomyelin synthase 2 [Source:HGNC Symbol;Acc:28395]
2393	ENSG00000147677	3268.053686	0.485937848	0.065950573	1.35E-12	EIF3H	eukaryotic translation initiation factor 3, subunit H [Source:HGNC Symbol;Acc:3273]
2394	ENSG00000263233	43.17273768	3.436522847	0.466638739	1.39E-12	KIR2DS2	killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 2 [Source:HGNC Symbol;Acc:6334]
2395	ENSG00000145390	301.436873	1.525357513	0.207203293	1.42E-12	USP53	ubiquitin specific peptidase 53 [Source:HGNC Symbol;Acc:29255]
2396	ENSG00000267841	98.39824893	-2.264018966	0.30774335	1.47E-12	GATA1	GATA binding protein 1 (globin transcription factor 1) [Source:HGNC Symbol;Acc:4170]
2397	ENSG00000119969	459.4256293	-1.282101176	0.174409812	1.53E-12	HELLS	helicase, lymphoid-specific [Source:HGNC Symbol;Acc:4861]
2398	ENSG00000154814	376.5022955	1.26527559	0.172145279	1.55E-12	OXNAD1	oxidoreductase NAD-binding domain containing 1 [Source:HGNC Symbol;Acc:25128]
2399	ENSG00000237508	471.4503114	1.175321207	0.159909457	1.55E-12	HLA-F	major histocompatibility complex, class I, F [Source:HGNC Symbol;Acc:4963]
2400	ENSG00000206509	471.4510039	1.175379145	0.159921008	1.55E-12	HLA-F	major histocompatibility complex, class I, F [Source:HGNC Symbol;Acc:4963]
2401	ENSG00000090097	113.9700347	2.303364731	0.31347187	1.57E-12	PCBP4	poly(rC) binding protein 4 [Source:HGNC Symbol;Acc:8652]
2402	ENSG00000105352	1862.658696	-0.628958771	0.085619959	1.59E-12	CEACAM4	carcinoembryonic antigen-related cell adhesion molecule 4 [Source:HGNC Symbol;Acc:1816]

2403	ENSG00000183723	322.8343202	-1.329917725	0.181085635	1.61E-12	CMTM4	CKLF-like MARVEL transmembrane domain containing 4 [Source:HGNC Symbol;Acc:19175]
2404	ENSG00000151014	201.3345101	-1.673335389	0.227935778	1.65E-12	CCR4L	CCR4 carbon catabolite repression 4-like ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:14254]
2405	ENSG00000142046	2046.365888	-0.658457708	0.089715387	1.67E-12	TMEM91	transmembrane protein 91 [Source:HGNC Symbol;Acc:32393]
2406	ENSG00000139044	176.5574976	-1.837022758	0.250356613	1.69E-12	B4GALNT3	beta-1,4-N-acetyl-galactosaminyl transferase 3 [Source:HGNC Symbol;Acc:24137]
2407	ENSG00000188522	131.9271978	2.134586796	0.290991465	1.72E-12	FAM83G	family with sequence similarity 83, member G [Source:HGNC Symbol;Acc:32554]
2408	ENSG00000131797	168.8332947	1.88219736	0.256657517	1.74E-12	CLUHP3	clustered mitochondria (cluA/CLU1) homolog pseudogene 3 [Source:HGNC Symbol;Acc:28447]
2409	ENSG00000047346	1446.194216	0.746965749	0.101896678	1.78E-12	FAM214A	family with sequence similarity 214, member A [Source:HGNC Symbol;Acc:25609]
2410	ENSG00000172819	202.8662336	1.805183378	0.246346203	1.82E-12	RARG	retinoic acid receptor, gamma [Source:HGNC Symbol;Acc:9866]
2411	ENSG00000167900	268.6723547	-1.617769793	0.220796334	1.83E-12	TK1	thymidine kinase 1, soluble [Source:HGNC Symbol;Acc:11830]
2412	ENSG00000162063	215.1055516	-1.580234655	0.215721546	1.85E-12	CCNF	cyclin F [Source:HGNC Symbol;Acc:1591]
2413	ENSG00000102145	98.87204465	-2.237609893	0.30548427	1.86E-12	GATA1	GATA binding protein 1 (globin transcription factor 1) [Source:HGNC Symbol;Acc:4170]
2414	ENSG00000081377	166.4945664	2.02434151	0.276379109	1.86E-12	CDC14B	cell division cycle 14B [Source:HGNC Symbol;Acc:1719]
2415	ENSG00000102804	688.3790177	0.964981134	0.131752177	1.86E-12	TSC22D1	TSC22 domain family, member 1 [Source:HGNC Symbol;Acc:16826]
2416	ENSG00000157191	1846.666707	0.610255862	0.083340596	1.89E-12	NECAP2	NECAP endocytosis associated 2 [Source:HGNC Symbol;Acc:25528]
2417	ENSG00000008405	251.1325578	1.523010916	0.208028936	1.90E-12	CRY1	cryptochrome 1 (photolyase-like) [Source:HGNC Symbol;Acc:2384]
2418	ENSG00000123360	611.6232675	-1.020425389	0.139595004	2.07E-12	PDE1B	phosphodiesterase 1B, calmodulin-dependent [Source:HGNC Symbol;Acc:8775]
2419	ENSG00000225217	496.1019382	1.127178174	0.154201738	2.07E-12	HSPA7	heat shock 70kDa protein 7 (HSP70B) [Source:HGNC Symbol;Acc:5240]
2420	ENSG00000181472	526.3420448	1.090721434	0.149330603	2.16E-12	ZBTB2	zinc finger and BTB domain containing 2 [Source:HGNC Symbol;Acc:20868]
2421	ENSG00000264547	248.6891057	-1.449385421	0.198512545	2.20E-12	RP11-192H23.4	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:E9PMD0]
2422	ENSG00000110108	626.7756464	0.949363278	0.130030509	2.21E-12	TMEM109	transmembrane protein 109 [Source:HGNC Symbol;Acc:28771]
2423	ENSG00000211455	1821.652525	-0.633562692	0.086851567	2.31E-12	STK38L	serine/threonine kinase 38 like [Source:HGNC Symbol;Acc:17848]
2424	ENSG00000269666	3956.391905	-0.479378939	0.065724055	2.33E-12	PGK1	phosphoglycerate kinase 1 [Source:HGNC Symbol;Acc:8896]
2425	ENSG00000236409	123.6698687	-2.045336248	0.280496404	2.36E-12	NRADDP	neurotrophin receptor associated death domain, pseudogene [Source:HGNC Symbol;Acc:19337]
2426	ENSG00000102144	3957.011728	-0.478974007	0.065711434	2.41E-12	PGK1	phosphoglycerate kinase 1 [Source:HGNC Symbol;Acc:8896]
2427	ENSG00000143164	1088.040992	-0.730886444	0.100279539	2.42E-12	DCAF6	DDB1 and CUL4 associated factor 6 [Source:HGNC Symbol;Acc:30002]
2428	ENSG00000138433	1960.068444	0.643284362	0.08829543	2.47E-12	CIR1	corepressor interacting with RBPJ, 1 [Source:HGNC Symbol;Acc:24217]
2429	ENSG00000107201	1271.524471	0.694510567	0.095340431	2.49E-12	DDX58	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58 [Source:HGNC Symbol;Acc:19102]
2430	ENSG00000198561	736.0206572	-1.143520611	0.156980268	2.49E-12	CTNND1	catenin (cadherin-associated protein), delta 1 [Source:HGNC Symbol;Acc:2515]

2431	ENSG00000154589	672.9387788	0.988877702	0.135762555	2.50E-12	LY96	lymphocyte antigen 96 [Source:HGNC Symbol;Acc:17156]
2432	ENSG00000164512	206.1711376	-1.641974749	0.225607119	2.61E-12	ANKRD55	ankyrin repeat domain 55 [Source:HGNC Symbol;Acc:25681]
2433	ENSG00000152969	125.4530685	2.096575918	0.288076844	2.61E-12	JAKMIP1	janus kinase and microtubule interacting protein 1 [Source:HGNC Symbol;Acc:26460]
2434	ENSG00000065613	2332.253792	-0.62516333	0.085931794	2.66E-12	SLK	STE20-like kinase [Source:HGNC Symbol;Acc:11088]
2435	ENSG00000105173	135.3526528	-2.05977222	0.283262287	2.73E-12	CCNE1	cyclin E1 [Source:HGNC Symbol;Acc:1589]
2436	ENSG00000183431	2882.691393	-0.54012094	0.074310012	2.79E-12	SF3A3	splicing factor 3a, subunit 3, 60kDa [Source:HGNC Symbol;Acc:10767]
2437	ENSG00000184557	393.9444711	-1.175535685	0.161730664	2.79E-12	SOCS3	suppressor of cytokine signaling 3 [Source:HGNC Symbol;Acc:19391]
2438	ENSG00000160613	3425.083699	0.528728947	0.07275504	2.82E-12	PCSK7	proprotein convertase subtilisin/kexin type 7 [Source:HGNC Symbol;Acc:8748]
2439	ENSG00000185880	838.4181146	0.948786055	0.130570521	2.83E-12	TRIM69	tripartite motif containing 69 [Source:HGNC Symbol;Acc:17857]
2440	ENSG00000130703	2950.968492	-0.529263949	0.072856345	2.87E-12	OSBPL2	oxysterol binding protein-like 2 [Source:HGNC Symbol;Acc:15761]
2441	ENSG00000250138	924.8836915	0.972565555	0.133885103	2.88E-12	RP11-848G14.5	
2442	ENSG00000134248	1927.09371	-0.655200614	0.090215661	2.91E-12	LAMTOR5	late endosomal/lysosomal adaptor, MAPK and MTOR activator 5 [Source:HGNC Symbol;Acc:17955]
2443	ENSG00000130787	490.5235767	1.266496099	0.174399891	2.92E-12	HIP1R	huntingtin interacting protein 1 related [Source:HGNC Symbol;Acc:18415]
2444	ENSG00000273316	406.2985478	1.354306982	0.186519877	2.94E-12	MBOAT7	membrane bound O-acyltransferase domain containing 7 [Source:HGNC Symbol;Acc:15505]
2445	ENSG00000273130	406.2816672	1.354036531	0.186500578	2.96E-12	MBOAT7	membrane bound O-acyltransferase domain containing 7 [Source:HGNC Symbol;Acc:15505]
2446	ENSG00000177666	4668.677061	-1.255974313	0.173072219	3.03E-12	PNPLA2	patatin-like phospholipase domain containing 2 [Source:HGNC Symbol;Acc:30802]
2447	ENSG00000109674	128.7495434	-2.019131861	0.278250564	3.04E-12	NEIL3	nei endonuclease VIII-like 3 (E. coli) [Source:HGNC Symbol;Acc:24573]
2448	ENSG00000186130	329.015455	1.400515962	0.193092308	3.11E-12	ZBTB6	zinc finger and BTB domain containing 6 [Source:HGNC Symbol;Acc:16764]
2449	ENSG00000259885	110.3352598	2.504355176	0.345291416	3.12E-12	SH2B2	SH2B adaptor protein 2 [Source:HGNC Symbol;Acc:17381]
2450	ENSG00000125505	406.2132125	1.354201443	0.186716436	3.12E-12	MBOAT7	membrane bound O-acyltransferase domain containing 7 [Source:HGNC Symbol;Acc:15505]
2451	ENSG00000172667	727.2188913	0.891323345	0.122897795	3.12E-12	ZMAT3	zinc finger, matrin-type 3 [Source:HGNC Symbol;Acc:29983]
2452	ENSG00000228314	166.102262	1.988270815	0.274257689	3.19E-12	CYP4F29P	cytochrome P450, family 4, subfamily F, polypeptide 29, pseudogene [Source:HGNC Symbol;Acc:2647]
2453	ENSG00000272809	406.1504582	1.35149255	0.186433539	3.20E-12	MBOAT7	membrane bound O-acyltransferase domain containing 7 [Source:HGNC Symbol;Acc:15505]
2454	ENSG00000273057	406.1549452	1.352779258	0.186650466	3.23E-12	MBOAT7	membrane bound O-acyltransferase domain containing 7 [Source:HGNC Symbol;Acc:15505]
2455	ENSG00000132405	2810.539728	0.541983732	0.074781227	3.23E-12	TBC1D14	TBC1 domain family, member 14 [Source:HGNC Symbol;Acc:29246]
2456	ENSG00000273470	406.1607071	1.352862985	0.186674332	3.24E-12	MBOAT7	membrane bound O-acyltransferase domain containing 7 [Source:HGNC Symbol;Acc:15505]
2457	ENSG00000273446	406.1581415	1.352838712	0.186676132	3.25E-12	MBOAT7	membrane bound O-acyltransferase domain containing 7 [Source:HGNC Symbol;Acc:15505]
2458	ENSG00000241386	108.8249088	2.259397242	0.31215721	3.47E-12	HLA-DOB	major histocompatibility complex, class II, DO beta [Source:HGNC Symbol;Acc:4937]

2459	ENSG00000165682	577.8150495	-1.011604739	0.139816895	3.54E-12	CLEC1B	C-type lectin domain family 1, member B [Source:HGNC Symbol;Acc:24356]
2460	ENSG00000112796	81.30485173	2.682694154	0.370936334	3.61E-12	ENPP5	ectonucleotide pyrophosphatase/phosphodiesterase 5 (putative) [Source:HGNC Symbol;Acc:13717]
2461	ENSG00000213965	359.8687172	-1.208057525	0.1670625	3.64E-12	NUDT19	nudix (nucleoside diphosphate linked moiety X)-type motif 19 [Source:HGNC Symbol;Acc:32036]
2462	ENSG00000100813	8009.917999	-0.36309814	0.050225968	3.69E-12	ACIN1	apoptotic chromatin condensation inducer 1 [Source:HGNC Symbol;Acc:17066]
2463	ENSG00000107789	352.9089898	-1.235664411	0.170950019	3.72E-12	MINPP1	multiple inositol-polyphosphate phosphatase 1 [Source:HGNC Symbol;Acc:7102]
2464	ENSG00000101004	48.85684432	3.194988582	0.442085678	3.75E-12	NINL	ninein-like [Source:HGNC Symbol;Acc:29163]
2465	ENSG00000113319	231.8142674	1.656854593	0.229341964	3.82E-12	RASGRF2	Ras protein-specific guanine nucleotide-releasing factor 2 [Source:HGNC Symbol;Acc:9876]
2466	ENSG00000172057	1339.043393	0.775302613	0.107336736	3.86E-12	ORMDL3	ORM1-like 3 ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:16038]
2467	ENSG00000203799	122.7656377	-2.427116406	0.33614605	3.93E-12	CCDC162P	coiled-coil domain containing 162, pseudogene [Source:HGNC Symbol;Acc:21565]
2468	ENSG00000070214	1441.67398	-0.738401705	0.102275157	3.95E-12	SLC44A1	solute carrier family 44 (choline transporter), member 1 [Source:HGNC Symbol;Acc:18798]
2469	ENSG00000144645	158.4785704	1.832460144	0.25382775	3.96E-12	OSBPL10	oxysterol binding protein-like 10 [Source:HGNC Symbol;Acc:16395]
2470	ENSG00000142731	269.0232472	-1.572225539	0.21796409	4.14E-12	PLK4	polo-like kinase 4 [Source:HGNC Symbol;Acc:11397]
2471	ENSG00000185278	3005.737002	-0.508556974	0.070544734	4.27E-12	ZBTB37	zinc finger and BTB domain containing 37 [Source:HGNC Symbol;Acc:28365]
2472	ENSG00000164307	2859.769916	0.572156994	0.079398787	4.36E-12	ERAP1	endoplasmic reticulum aminopeptidase 1 [Source:HGNC Symbol;Acc:18173]
2473	ENSG00000110047	4826.968264	-0.610577522	0.084758273	4.43E-12	EHD1	EH-domain containing 1 [Source:HGNC Symbol;Acc:3242]
2474	ENSG00000143499	522.2279824	1.131079637	0.157023679	4.45E-12	SMYD2	SET and MYND domain containing 2 [Source:HGNC Symbol;Acc:20982]
2475	ENSG00000137101	298.3549938	1.347546267	0.187080814	4.45E-12	CD72	CD72 molecule [Source:HGNC Symbol;Acc:1696]
2476	ENSG00000075218	229.645855	-1.551803714	0.215466907	4.48E-12	GTSE1	G-2 and S-phase expressed 1 [Source:HGNC Symbol;Acc:13698]
2477	ENSG00000107341	3119.376512	0.489857832	0.068029283	4.53E-12	UBE2R2	ubiquitin-conjugating enzyme E2R 2 [Source:HGNC Symbol;Acc:19907]
2478	ENSG00000184271	256.9645973	1.494165852	0.207747327	4.81E-12	POU6F1	POU class 6 homeobox 1 [Source:HGNC Symbol;Acc:9224]
2479	ENSG00000272876	342.4748682	-1.254996498	0.174540264	4.88E-12	AC243960.1	
2480	ENSG00000168476	637.8206306	-0.993320183	0.138326011	5.22E-12	REEP4	receptor accessory protein 4 [Source:HGNC Symbol;Acc:26176]
2481	ENSG00000176463	2315.200428	-0.603066759	0.08399412	5.26E-12	SLCO3A1	solute carrier organic anion transporter family, member 3A1 [Source:HGNC Symbol;Acc:10952]
2482	ENSG00000156510	57.92806605	3.020585045	0.420818253	5.34E-12	HKDC1	hexokinase domain containing 1 [Source:HGNC Symbol;Acc:23302]
2483	ENSG00000104529	5743.744794	0.554035291	0.07719868	5.38E-12	EEF1D	eukaryotic translation elongation factor 1 delta (guanine nucleotide exchange protein) [Source:HGNC Symbol;Acc:3211]
2484	ENSG00000197146	2191.01422	0.563713614	0.07855059	5.39E-12	AL133458.1	
2485	ENSG00000165782	1673.321878	0.683179523	0.095202139	5.40E-12	TMEM55B	transmembrane protein 55B [Source:HGNC Symbol;Acc:19299]
2486	ENSG00000184785	34.03462216	-3.520238737	0.490678696	5.47E-12	SMIM10	small integral membrane protein 10 [Source:HGNC Symbol;Acc:41913]

2487	ENSG00000166979	105.0840713	2.479408591	0.345783147	5.63E-12	EVA1C	eva-1 homolog C (C. elegans) [Source:HGNC Symbol;Acc:13239]
2488	ENSG00000135899	3073.461078	0.502910458	0.070142526	5.65E-12	SP110	SP110 nuclear body protein [Source:HGNC Symbol;Acc:5401]
2489	ENSG00000166170	869.3048964	0.833343589	0.116232737	5.65E-12	BAG5	BCL2-associated athanogene 5 [Source:HGNC Symbol;Acc:941]
2490	ENSG00000135077	256.7328462	1.583630423	0.220898455	5.68E-12	HAVCR2	hepatitis A virus cellular receptor 2 [Source:HGNC Symbol;Acc:18437]
2491	ENSG00000035499	162.9050779	-1.740513189	0.24293136	5.86E-12	DEPDC1B	DEP domain containing 1B [Source:HGNC Symbol;Acc:24902]
2492	ENSG00000121578	622.3887592	-1.009883862	0.140965783	5.88E-12	B4GALT4	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 4 [Source:HGNC Symbol;Acc:927]
2493	ENSG00000176624	839.8278346	0.829794521	0.115870828	6.00E-12	MEX3C	mex-3 RNA binding family member C [Source:HGNC Symbol;Acc:28040]
2494	ENSG00000263304	596.4610518	-0.971803363	0.135704588	6.00E-12	MILR1	mast cell immunoglobulin-like receptor 1 [Source:HGNC Symbol;Acc:27570]
2495	ENSG00000235220	649.9821172	0.979587466	0.136817355	6.06E-12	HLA-F	major histocompatibility complex, class I, F [Source:HGNC Symbol;Acc:4963]
2496	ENSG00000141279	5400.190074	-0.476667942	0.066587282	6.11E-12	NPEPPS	aminopeptidase puromycin sensitive [Source:HGNC Symbol;Acc:7900]
2497	ENSG00000135736	53.15552152	3.34075398	0.467189946	6.47E-12	CCDC102A	coiled-coil domain containing 102A [Source:HGNC Symbol;Acc:28097]
2498	ENSG00000163602	2337.18196	0.552583004	0.077337426	6.74E-12	RYBP	RING1 and YY1 binding protein [Source:HGNC Symbol;Acc:10480]
2499	ENSG00000163864	83.51478755	-2.567719084	0.359454972	6.82E-12	NMNAT3	nicotinamide nucleotide adenyltransferase 3 [Source:HGNC Symbol;Acc:20989]
2500	ENSG00000171502	68.77977192	2.689324744	0.376493887	6.83E-12	COL24A1	collagen, type XXIV, alpha 1 [Source:HGNC Symbol;Acc:20821]
2501	ENSG00000170893	29.29162865	3.795322959	0.531387319	6.87E-12	TRH	thyrotropin-releasing hormone [Source:HGNC Symbol;Acc:12298]
2502	ENSG00000197971	5312.440181	0.422603158	0.059173544	6.89E-12	MBP	myelin basic protein [Source:HGNC Symbol;Acc:6925]
2503	ENSG00000132357	1023.506976	-0.758968808	0.106332899	7.10E-12	CARD6	caspase recruitment domain family, member 6 [Source:HGNC Symbol;Acc:16394]
2504	ENSG00000163162	9268.903913	0.387785286	0.054332373	7.11E-12	RNF149	ring finger protein 149 [Source:HGNC Symbol;Acc:23137]
2505	ENSG00000131196	360.7739136	1.295715634	0.181646167	7.33E-12	NFATC1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1 [Source:HGNC Symbol;Acc:7775]
2506	ENSG00000183291	1817.447676	0.706496714	0.099083237	7.48E-12	SEP15	Homo sapiens 15 kDa selenoprotein (SEP15), transcript variant 2, mRNA. [Source:RefSeq mRNA;Acc:NM_203341]
2507	ENSG00000008226	362.7910038	-1.240056954	0.17396396	7.59E-12	DLEC1	deleted in lung and esophageal cancer 1 [Source:HGNC Symbol;Acc:2899]
2508	ENSG00000067369	743.0430531	0.936533857	0.131433101	7.73E-12	TP53BP1	tumor protein p53 binding protein 1 [Source:HGNC Symbol;Acc:11999]
2509	ENSG00000198589	851.2829527	0.911154414	0.127978246	8.07E-12	LRBA	LPS-responsive vesicle trafficking, beach and anchor containing [Source:HGNC Symbol;Acc:1742]
2510	ENSG00000266714	6895.745766	-0.639779512	0.089866813	8.09E-12	MYO15B	myosin XVb pseudogene [Source:HGNC Symbol;Acc:14083]
2511	ENSG00000108509	2495.195187	-0.609573549	0.085635496	8.15E-12	CAMTA2	calmodulin binding transcription activator 2 [Source:HGNC Symbol;Acc:18807]
2512	ENSG00000092439	1257.120424	0.731358732	0.102785687	8.31E-12	TRPM7	transient receptor potential cation channel, subfamily M, member 7 [Source:HGNC Symbol;Acc:17994]
2513	ENSG00000256594	696.7007935	0.985768844	0.138581217	8.44E-12	RP11-705C15.2	
2514	ENSG00000163362	199.5685044	-1.684972152	0.236920627	8.52E-12	C1orf106	chromosome 1 open reading frame 106 [Source:HGNC Symbol;Acc:25599]



2515	ENSG00000233750	575.8579786	-0.990310751	0.139285453	8.64E-12	CICP27	capicua transcriptional repressor pseudogene 27 [Source:HGNC Symbol;Acc:48835]
2516	ENSG00000174371	111.7420984	-2.508629415	0.352890366	8.71E-12	EXO1	exonuclease 1 [Source:HGNC Symbol;Acc:3511]
2517	ENSG00000187951	431.9958773	-1.190731241	0.167526503	8.77E-12	ARHGAP11B	Rho GTPase activating protein 11B [Source:HGNC Symbol;Acc:15782]
2518	ENSG00000227191	666.4551687	0.89741434	0.126373064	9.18E-12	TRGC2	T cell receptor gamma constant 2 [Source:HGNC Symbol;Acc:12276]
2519	ENSG00000108840	2049.932444	0.782596715	0.110268539	9.46E-12	HDAC5	histone deacetylase 5 [Source:HGNC Symbol;Acc:14068]
2520	ENSG00000152760	312.7332726	-1.300644433	0.18344192	9.94E-12	TCTEX1D1	Tctex1 domain containing 1 [Source:HGNC Symbol;Acc:26882]
2521	ENSG00000125898	519.9267608	1.019538525	0.143917424	1.04E-11	FAM110A	family with sequence similarity 110, member A [Source:HGNC Symbol;Acc:16188]
2522	ENSG00000166963	93.12999161	2.258052731	0.318762876	1.04E-11	MAP1A	microtubule-associated protein 1A [Source:HGNC Symbol;Acc:6835]
2523	ENSG00000204116	209.4481826	1.724420246	0.243434918	1.04E-11	CHIC1	cysteine-rich hydrophobic domain 1 [Source:HGNC Symbol;Acc:1934]
2524	ENSG00000113240	2906.738318	-0.540407033	0.0762906	1.04E-11	CLK4	CDC-like kinase 4 [Source:HGNC Symbol;Acc:13659]
2525	ENSG00000271447	29.93724531	3.798836533	0.53641839	1.05E-11	MMP28	Homo sapiens matrix metalloproteinase 28 (MMP28), transcript variant 1, mRNA. [Source:RefSeq mRNA;Acc:NM_024302]
2526	ENSG00000152409	309.1549145	1.320234314	0.186462171	1.06E-11	JMY	junction mediating and regulatory protein, p53 cofactor [Source:HGNC Symbol;Acc:28916]
2527	ENSG00000143669	13879.05498	-0.424144699	0.059917638	1.08E-11	LYST	lysosomal trafficking regulator [Source:HGNC Symbol;Acc:1968]
2528	ENSG00000141664	1576.098698	0.628035834	0.088735588	1.09E-11	ZCCHC2	zinc finger, CCHC domain containing 2 [Source:HGNC Symbol;Acc:22916]
2529	ENSG00000158773	2841.867734	0.529501115	0.074836435	1.10E-11	USF1	upstream transcription factor 1 [Source:HGNC Symbol;Acc:12593]
2530	ENSG00000129933	3458.142508	-0.591354789	0.08359666	1.11E-11	MAU2	MAU2 sister chromatid cohesion factor [Source:HGNC Symbol;Acc:29140]
2531	ENSG00000113532	1753.378791	0.611902215	0.086565907	1.16E-11	ST8SIA4	ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 4 [Source:HGNC Symbol;Acc:10871]
2532	ENSG00000224383	85.85946439	2.522146198	0.35693853	1.18E-11	C17orf72	chromosome 17 open reading frame 72 [Source:HGNC Symbol;Acc:25673]
2533	ENSG00000133169	332.3267467	-1.286821192	0.182123599	1.18E-11	BEX1	brain expressed, X-linked 1 [Source:HGNC Symbol;Acc:1036]
2534	ENSG00000182224	353.2226649	-1.222216296	0.172998569	1.19E-11	CYB5D1	cytochrome b5 domain containing 1 [Source:HGNC Symbol;Acc:26516]
2535	ENSG00000069424	5627.979231	-0.547269569	0.077469267	1.19E-11	KCNAB2	potassium voltage-gated channel, shaker-related subfamily, beta member 2 [Source:HGNC Symbol;Acc:6229]
2536	ENSG00000101384	325.7070758	-1.253183805	0.177443901	1.21E-11	JAG1	jagged 1 [Source:HGNC Symbol;Acc:6188]
2537	ENSG00000086200	350.6662468	1.314320752	0.186151248	1.22E-11	IPO11	importin 11 [Source:HGNC Symbol;Acc:20628]
2538	ENSG00000108107	7914.246638	1.0267516	0.145440411	1.23E-11	RPL28	ribosomal protein L28 [Source:HGNC Symbol;Acc:10330]
2539	ENSG00000257242	217.6264178	-1.548348185	0.219356652	1.24E-11	C12orf79	chromosome 12 open reading frame 79 [Source:HGNC Symbol;Acc:27409]
2540	ENSG00000180628	1021.312473	0.927825579	0.131458436	1.25E-11	PCGF5	polycomb group ring finger 5 [Source:HGNC Symbol;Acc:28264]
2541	ENSG00000173812	18999.26457	-0.321425215	0.045581788	1.30E-11	EIF1	eukaryotic translation initiation factor 1 [Source:HGNC Symbol;Acc:3249]
2542	ENSG00000153933	452.7130258	1.176112656	0.166793251	1.30E-11	DGKE	diacylglycerol kinase, epsilon 64kDa [Source:HGNC Symbol;Acc:2852]

2543	ENSG00000054965	2957.134682	-0.538420839	0.076381916	1.33E-11	FAM168A	family with sequence similarity 168, member A [Source:HGNC Symbol;Acc:28999]
2544	ENSG00000170037	948.6081405	-0.789449061	0.111999403	1.33E-11	CNTROB	centrobin, centrosomal BRCA2 interacting protein [Source:HGNC Symbol;Acc:29616]
2545	ENSG00000185128	874.1024747	-0.873406943	0.123929641	1.34E-11	TBC1D3F	TBC1 domain family, member 3F [Source:HGNC Symbol;Acc:18257]
2546	ENSG00000121895	252.764869	1.5171444	0.21528491	1.34E-11	TMEM156	transmembrane protein 156 [Source:HGNC Symbol;Acc:26260]
2547	ENSG00000175115	4102.454118	0.529340524	0.075154397	1.38E-11	PACS1	phosphofurin acidic cluster sorting protein 1 [Source:HGNC Symbol;Acc:30032]
2548	ENSG00000167549	72.10809769	2.754502454	0.391145893	1.39E-11	CORO6	coronin 6 [Source:HGNC Symbol;Acc:21356]
2549	ENSG00000188486	411.3744701	-1.132333905	0.160825144	1.40E-11	H2AFX	H2A histone family, member X [Source:HGNC Symbol;Acc:4739]
2550	ENSG00000059728	24666.27201	-0.352181665	0.050035656	1.42E-11	MXD1	MAX dimerization protein 1 [Source:HGNC Symbol;Acc:6761]
2551	ENSG00000005448	147.7979211	1.896007534	0.269423631	1.44E-11	WDR54	WD repeat domain 54 [Source:HGNC Symbol;Acc:25770]
2552	ENSG00000154265	957.7743145	-0.799962969	0.113705537	1.46E-11	ABCA5	ATP-binding cassette, sub-family A (ABC1), member 5 [Source:HGNC Symbol;Acc:35]
2553	ENSG00000122641	563.0163089	-0.965435546	0.137247798	1.47E-11	INHBA	inhibin, beta A [Source:HGNC Symbol;Acc:6066]
2554	ENSG00000162302	426.3827911	1.226457945	0.174385225	1.48E-11	RPS6KA4	ribosomal protein S6 kinase, 90kDa, polypeptide 4 [Source:HGNC Symbol;Acc:10433]
2555	ENSG00000137145	935.1212155	0.857225002	0.121887218	1.48E-11	DENND4C	DENN/MADD domain containing 4C [Source:HGNC Symbol;Acc:26079]
2556	ENSG00000164535	1023.157806	-0.752636364	0.107106187	1.54E-11	DAGLB	diacylglycerol lipase, beta [Source:HGNC Symbol;Acc:28923]
2557	ENSG00000198369	179.1759229	-1.967181345	0.279949063	1.55E-11	SPRED2	sprouty-related, EVH1 domain containing 2 [Source:HGNC Symbol;Acc:17722]
2558	ENSG00000144791	1023.39968	0.748964064	0.106590965	1.55E-11	LIMD1	LIM domains containing 1 [Source:HGNC Symbol;Acc:6612]
2559	ENSG00000136167	58130.23122	-0.315835013	0.044960889	1.57E-11	LCP1	lymphocyte cytosolic protein 1 (L-plastin) [Source:HGNC Symbol;Acc:6528]
2560	ENSG00000167483	994.1771026	0.826053965	0.117601843	1.57E-11	FAM129C	family with sequence similarity 129, member C [Source:HGNC Symbol;Acc:24130]
2561	ENSG00000110315	3160.759036	-0.522540219	0.074400216	1.58E-11	RNF141	ring finger protein 141 [Source:HGNC Symbol;Acc:21159]
2562	ENSG00000182487	3296.641608	-0.586311452	0.083483405	1.59E-11	NCF1B	neutrophil cytosolic factor 1B pseudogene [Source:HGNC Symbol;Acc:32522]
2563	ENSG00000262984	3296.642924	-0.586314179	0.08348501	1.59E-11	NCF1B	neutrophil cytosolic factor 1B pseudogene [Source:HGNC Symbol;Acc:32522]
2564	ENSG00000111674	262.8922093	1.55260218	0.221142379	1.61E-11	ENO2	enolase 2 (gamma, neuronal) [Source:HGNC Symbol;Acc:3353]
2565	ENSG00000186204	269.2290239	-1.405447685	0.200185344	1.61E-11	CYP4F12	cytochrome P450, family 4, subfamily F, polypeptide 12 [Source:HGNC Symbol;Acc:18857]
2566	ENSG00000022277	3782.125451	-0.458247627	0.065273799	1.61E-11	RTFDC1	replication termination factor 2 domain containing 1 [Source:HGNC Symbol;Acc:15890]
2567	ENSG00000168792	302.582067	1.314965137	0.18734445	1.63E-11	ABHD15	abhydrolase domain containing 15 [Source:HGNC Symbol;Acc:26971]
2568	ENSG00000269528	262.7376761	1.552419031	0.221216353	1.64E-11	ENO2	enolase 2 (gamma, neuronal) [Source:HGNC Symbol;Acc:3353]
2569	ENSG00000267369	155.6286794	1.849009053	0.263614578	1.69E-11	RP11-1094M14.8	
2570	ENSG00000163956	1806.163752	-0.789352776	0.112572206	1.71E-11	LRPAP1	low density lipoprotein receptor-related protein associated protein 1 [Source:HGNC Symbol;Acc:6701]

2571	ENSG00000101109	7861.561953	0.383278594	0.054672577	1.73E-11	STK4	serine/threonine kinase 4 [Source:HGNC Symbol;Acc:11408]
2572	ENSG00000168769	4950.632082	-0.44629022	0.063689956	1.77E-11	TET2	tet methylcytosine dioxygenase 2 [Source:HGNC Symbol;Acc:25941]
2573	ENSG00000164414	1092.564697	-0.741410487	0.105817517	1.78E-11	SLC35A1	solute carrier family 35 (CMP-sialic acid transporter), member A1 [Source:HGNC Symbol;Acc:11021]
2574	ENSG00000163466	20242.79061	-0.38288657	0.054648287	1.78E-11	ARPC2	actin related protein 2/3 complex, subunit 2, 34kDa [Source:HGNC Symbol;Acc:705]
2575	ENSG00000188549	326.1249365	-1.233786342	0.17612692	1.79E-11	C15orf52	chromosome 15 open reading frame 52 [Source:HGNC Symbol;Acc:33488]
2576	ENSG00000273047	74.48702686	2.80813008	0.4011373	1.85E-11	RP4-583P15.14	
2577	ENSG00000262897	44.86758593	3.350587964	0.478701186	1.87E-11	KIR3DL2	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2 [Source:HGNC Symbol;Acc:6339]
2578	ENSG00000186115	173.5453331	-1.741974931	0.248882247	1.87E-11	CYP4F2	cytochrome P450, family 4, subfamily F, polypeptide 2 [Source:HGNC Symbol;Acc:2645]
2579	ENSG00000162852	777.8346746	0.84615131	0.120964271	1.92E-11	CNST	consortin, connexin sorting protein [Source:HGNC Symbol;Acc:26486]
2580	ENSG00000261052	1712.755211	-0.717389753	0.102566582	1.93E-11	SULT1A3	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 3 [Source:HGNC Symbol;Acc:11455]
2581	ENSG00000164161	63.74009761	3.292511795	0.470806007	1.95E-11	HHIP	hedgehog interacting protein [Source:HGNC Symbol;Acc:14866]
2582	ENSG00000137449	1644.124165	-0.628800279	0.08996474	2.00E-11	CPEB2	cytoplasmic polyadenylation element binding protein 2 [Source:HGNC Symbol;Acc:21745]
2583	ENSG00000211747	99.62039179	2.40092485	0.343629967	2.04E-11	TRBV20-1	T cell receptor beta variable 20-1 [Source:HGNC Symbol;Acc:12196]
2584	ENSG00000087495	99.63865874	-2.190668531	0.313598084	2.05E-11	PHACTR3	phosphatase and actin regulator 3 [Source:HGNC Symbol;Acc:15833]
2585	ENSG00000182646	507.490905	-1.077290003	0.154233577	2.07E-11	FAM156A	family with sequence similarity 156, member A [Source:HGNC Symbol;Acc:30114]
2586	ENSG00000140545	142.7221089	1.881930994	0.269442212	2.07E-11	MFGE8	milk fat globule-EGF factor 8 protein [Source:HGNC Symbol;Acc:7036]
2587	ENSG00000164327	3998.399413	0.520689967	0.074553077	2.07E-11	RICTOR	RPTOR independent companion of MTOR, complex 2 [Source:HGNC Symbol;Acc:28611]
2588	ENSG00000109790	365.0230165	1.226725724	0.175681838	2.09E-11	KLHL5	kelch-like family member 5 [Source:HGNC Symbol;Acc:6356]
2589	ENSG00000111203	610.0979047	1.042230251	0.149307147	2.13E-11	ITFG2	integrin alpha FG-GAP repeat containing 2 [Source:HGNC Symbol;Acc:30879]
2590	ENSG00000265277	288.6408908	-1.296028145	0.18572382	2.16E-11	ACP6	Lysophosphatidic acid phosphatase type 6 [Source:UniProtKB/Swiss-Prot;Acc:Q9NPH0]
2591	ENSG00000104921	287.7242799	1.333628857	0.191132383	2.17E-11	FCER2	Fc fragment of IgE, low affinity II, receptor for (CD23) [Source:HGNC Symbol;Acc:3612]
2592	ENSG00000135506	10162.47912	-0.367770684	0.05271467	2.18E-11	OS9	osteosarcoma amplified 9, endoplasmic reticulum lectin [Source:HGNC Symbol;Acc:16994]
2593	ENSG00000094975	1594.292163	-0.655655425	0.093996248	2.20E-11	SUCO	SUN domain containing ossification factor [Source:HGNC Symbol;Acc:1240]
2594	ENSG00000174123	653.1895337	1.014330508	0.145434057	2.21E-11	TLR10	toll-like receptor 10 [Source:HGNC Symbol;Acc:15634]
2595	ENSG00000149503	333.8181398	-1.215863382	0.174350809	2.23E-11	INCENP	inner centromere protein antigens 135/155kDa [Source:HGNC Symbol;Acc:6058]
2596	ENSG00000073350	284.4296738	1.716844727	0.246227263	2.24E-11	LLGL2	lethal giant larvae homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:6629]
2597	ENSG00000125817	457.319081	1.134461614	0.16278485	2.30E-11	CENPB	centromere protein B, 80kDa [Source:HGNC Symbol;Acc:1852]
2598	ENSG00000183624	836.7924137	0.80266408	0.115176595	2.30E-11	HMCES	5-hydroxymethylcytosine (hmC) binding, ES cell-specific [Source:HGNC Symbol;Acc:24446]

2599	ENSG00000088205	1177.871206	0.72618961	0.104216628	2.31E-11	DDX18	DEAD (Asp-Glu-Ala-Asp) box polypeptide 18 [Source:HGNC Symbol;Acc:2741]
2600	ENSG00000099875	4631.830627	0.523855557	0.075190792	2.33E-11	MKNK2	MAP kinase interacting serine/threonine kinase 2 [Source:HGNC Symbol;Acc:7111]
2601	ENSG00000108669	7272.737529	0.368672049	0.052920302	2.34E-11	CYTH1	cytohesin 1 [Source:HGNC Symbol;Acc:9501]
2602	ENSG00000136630	996.7461521	-0.913650521	0.13115216	2.34E-11	HLX	H2.0-like homeobox [Source:HGNC Symbol;Acc:4978]
2603	ENSG00000167766	1205.38511	0.701154751	0.100650376	2.34E-11	ZNF83	zinc finger protein 83 [Source:HGNC Symbol;Acc:13158]
2604	ENSG00000158050	307.001589	1.35208029	0.194108808	2.35E-11	DUSP2	dual specificity phosphatase 2 [Source:HGNC Symbol;Acc:3068]
2605	ENSG00000116711	130.4387364	-1.949634666	0.279920147	2.36E-11	PLA2G4A	phospholipase A2, group IVA (cytosolic, calcium-dependent) [Source:HGNC Symbol;Acc:9035]
2606	ENSG00000205038	25.72112319	3.613637366	0.518932657	2.38E-11	PKHD1L1	polycystic kidney and hepatic disease 1 (autosomal recessive)-like 1 [Source:HGNC Symbol;Acc:20313]
2607	ENSG00000133943	2536.941926	0.530484683	0.076199081	2.41E-11	C14orf159	chromosome 14 open reading frame 159 [Source:HGNC Symbol;Acc:20498]
2608	ENSG00000243696	647.18868	-0.964191553	0.138512434	2.42E-11	RP5-966M1.6	Musculoskeletal embryonic nuclear protein 1 [Source:UniProtKB/TrEMBL;Acc:D6R8Y8]
2609	ENSG00000105755	596.7701111	-0.923197766	0.132717172	2.51E-11	ETHE1	ethylmalonic encephalopathy 1 [Source:HGNC Symbol;Acc:23287]
2610	ENSG00000120727	3065.265019	0.47482393	0.068346075	2.67E-11	PAIP2	poly(A) binding protein interacting protein 2 [Source:HGNC Symbol;Acc:17970]
2611	ENSG00000162511	35205.59358	0.297369867	0.042830317	2.75E-11	LAPTM5	lysosomal protein transmembrane 5 [Source:HGNC Symbol;Acc:29612]
2612	ENSG00000077254	2059.426805	-0.630965552	0.090907824	2.80E-11	USP33	ubiquitin specific peptidase 33 [Source:HGNC Symbol;Acc:20059]
2613	ENSG00000213443	420.3079064	1.139139018	0.164140279	2.81E-11	RP11-75L1.2	
2614	ENSG00000136731	2912.18915	-0.575982785	0.082996205	2.81E-11	UGGT1	UDP-glucose glycoprotein glucosyltransferase 1 [Source:HGNC Symbol;Acc:15663]
2615	ENSG00000106537	299.3231095	1.259617972	0.181509117	2.81E-11	TSPAN13	tetraspanin 13 [Source:HGNC Symbol;Acc:21643]
2616	ENSG00000121210	2962.911585	-0.506618077	0.073059719	2.92E-11	KIAA0922	KIAA0922 [Source:HGNC Symbol;Acc:29146]
2617	ENSG00000111729	1807.480417	-0.641429859	0.092511336	2.94E-11	CLEC4A	C-type lectin domain family 4, member A [Source:HGNC Symbol;Acc:13257]
2618	ENSG00000160445	1129.600051	0.750344906	0.108227138	2.94E-11	ZER1	zyg-11 related, cell cycle regulator [Source:HGNC Symbol;Acc:30960]
2619	ENSG00000106799	3114.03209	-0.530335587	0.076535195	3.02E-11	TGFBR1	transforming growth factor, beta receptor 1 [Source:HGNC Symbol;Acc:11772]
2620	ENSG00000089737	2249.911118	0.554635306	0.080071084	3.08E-11	DDX24	DEAD (Asp-Glu-Ala-Asp) box helicase 24 [Source:HGNC Symbol;Acc:13266]
2621	ENSG00000100225	3430.257128	0.446826606	0.064523045	3.11E-11	FBXO7	F-box protein 7 [Source:HGNC Symbol;Acc:13586]
2622	ENSG00000087085	24.8179563	-3.684766803	0.532246638	3.15E-11	ACHE	acetylcholinesterase (Yt blood group) [Source:HGNC Symbol;Acc:108]
2623	ENSG00000150991	46679.49595	-0.314806604	0.045485768	3.20E-11	UBC	ubiquitin C [Source:HGNC Symbol;Acc:12468]
2624	ENSG00000158555	309.0417097	1.421388143	0.205404875	3.22E-11	GDPD5	glycerophosphodiester phosphodiesterase domain containing 5 [Source:HGNC Symbol;Acc:28804]
2625	ENSG00000086062	2828.874095	0.48370212	0.069901037	3.22E-11	B4GALT1	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1 [Source:HGNC Symbol;Acc:924]
2626	ENSG00000173473	1662.170262	0.650855271	0.094103903	3.30E-11	SMARCC1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 1 [Source:HGNC Symbol;Acc:11104]

2627	ENSG00000039319	2414.805814	-0.704328604	0.101844335	3.32E-11	ZFYVE16	zinc finger, FYVE domain containing 16 [Source:HGNC Symbol;Acc:20756]
2628	ENSG00000171206	1076.532597	0.747406885	0.108147135	3.43E-11	TRIM8	tripartite motif containing 8 [Source:HGNC Symbol;Acc:15579]
2629	ENSG00000123374	887.2410756	-0.928806111	0.134421798	3.46E-11	CDK2	cyclin-dependent kinase 2 [Source:HGNC Symbol;Acc:1771]
2630	ENSG00000129270	35.37377786	3.431710935	0.496665485	3.46E-11	MMP28	matrix metalloproteinase 28 [Source:HGNC Symbol;Acc:14366]
2631	ENSG00000092758	395.9001845	-1.166768624	0.168916851	3.51E-11	COL9A3	collagen, type IX, alpha 3 [Source:HGNC Symbol;Acc:2219]
2632	ENSG00000105808	639.0555447	1.203757831	0.174276134	3.51E-11	RASA4	RAS p21 protein activator 4 [Source:HGNC Symbol;Acc:23181]
2633	ENSG00000159713	80.0558961	2.676855675	0.387581052	3.53E-11	TPPP3	tubulin polymerization-promoting protein family member 3 [Source:HGNC Symbol;Acc:24162]
2634	ENSG00000129534	1515.816803	-0.730506781	0.105772307	3.53E-11	MIS18BP1	MIS18 binding protein 1 [Source:HGNC Symbol;Acc:20190]
2635	ENSG00000108262	801.8311156	0.957361045	0.138654674	3.57E-11	GIT1	G protein-coupled receptor kinase interacting ArfGAP 1 [Source:HGNC Symbol;Acc:4272]
2636	ENSG00000138185	6745.536379	-0.501408233	0.072641771	3.63E-11	ENTPD1	ectonucleoside triphosphate diphosphohydrolase 1 [Source:HGNC Symbol;Acc:3363]
2637	ENSG00000147231	88.67725986	2.367597368	0.343107438	3.68E-11	CXorf57	chromosome X open reading frame 57 [Source:HGNC Symbol;Acc:25486]
2638	ENSG00000203618	20.51253617	3.849797577	0.558104263	3.74E-11	GP1BB	glycoprotein Ib (platelet), beta polypeptide [Source:HGNC Symbol;Acc:4440]
2639	ENSG00000107560	1171.368076	-0.72319361	0.104857109	3.77E-11	RAB11FIP2	RAB11 family interacting protein 2 (class I) [Source:HGNC Symbol;Acc:29152]
2640	ENSG00000170293	80.44372362	2.444030385	0.354408898	3.79E-11	CMTM8	CKLF-like MARVEL transmembrane domain containing 8 [Source:HGNC Symbol;Acc:19179]
2641	ENSG00000156650	772.9535636	0.827384727	0.119979842	3.79E-11	KAT6B	K(lysine) acetyltransferase 6B [Source:HGNC Symbol;Acc:17582]
2642	ENSG00000145780	1544.582222	-0.673434062	0.097696928	3.87E-11	FEM1C	fem-1 homolog c (C. elegans) [Source:HGNC Symbol;Acc:16933]
2643	ENSG00000125485	200.5563924	1.626052818	0.235931505	3.89E-11	DDX31	DEAD (Asp-Glu-Ala-Asp) box polypeptide 31 [Source:HGNC Symbol;Acc:16715]
2644	ENSG00000117906	546.795309	0.961425875	0.139523604	3.93E-11	RCN2	reticulocalbin 2, EF-hand calcium binding domain [Source:HGNC Symbol;Acc:9935]
2645	ENSG00000170348	2308.879513	0.56804459	0.082471013	4.01E-11	TMED10	transmembrane emp24-like trafficking protein 10 (yeast) [Source:HGNC Symbol;Acc:16998]
2646	ENSG00000147202	478.8941235	-1.005739037	0.146024727	4.02E-11	DIAPH2	diaphanous-related formin 2 [Source:HGNC Symbol;Acc:2877]
2647	ENSG00000090013	543.0521138	-0.994542624	0.144435305	4.06E-11	BLVRB	biliverdin reductase B (flavin reductase (NADPH)) [Source:HGNC Symbol;Acc:1063]
2648	ENSG00000145391	242.345853	1.431063953	0.207890058	4.12E-11	SETD7	SET domain containing (lysine methyltransferase) 7 [Source:HGNC Symbol;Acc:30412]
2649	ENSG00000168496	454.9892663	-1.127013582	0.163774318	4.18E-11	FEN1	flap structure-specific endonuclease 1 [Source:HGNC Symbol;Acc:3650]
2650	ENSG00000183421	57.80861399	-2.653536005	0.385829282	4.30E-11	RIPK4	receptor-interacting serine-threonine kinase 4 [Source:HGNC Symbol;Acc:496]
2651	ENSG00000146918	484.2703136	-1.026199983	0.149248034	4.35E-11	NCAPG2	non-SMC condensin II complex, subunit G2 [Source:HGNC Symbol;Acc:21904]
2652	ENSG00000091831	173.9958725	-1.901879313	0.276650001	4.38E-11	ESR1	estrogen receptor 1 [Source:HGNC Symbol;Acc:3467]
2653	ENSG00000213390	1510.643477	-0.60141313	0.087507411	4.44E-11	ARHGAP19	Rho GTPase activating protein 19 [Source:HGNC Symbol;Acc:23724]
2654	ENSG00000149294	95.4990149	2.580910092	0.375535365	4.44E-11	NCAM1	neural cell adhesion molecule 1 [Source:HGNC Symbol;Acc:7656]

2655	ENSG00000049089	865.4165654	-0.8852184	0.128813991	4.46E-11	COL9A2	collagen, type IX, alpha 2 [Source:HGNC Symbol;Acc:2218]
2656	ENSG00000136514	79.56994958	2.52570975	0.367570091	4.48E-11	RTP4	receptor (chemosensory) transporter protein 4 [Source:HGNC Symbol;Acc:23992]
2657	ENSG00000167863	1483.648945	-0.610977346	0.088916828	4.48E-11	ATP5H	ATP synthase, H+ transporting, mitochondrial Fo complex, subunit d [Source:HGNC Symbol;Acc:845]
2658	ENSG00000175449	87.13508099	-2.303887999	0.335394487	4.55E-11	RFESD	Rieske (Fe-S) domain containing [Source:HGNC Symbol;Acc:29587]
2659	ENSG00000185842	116.7097601	-1.973087906	0.287394778	4.67E-11	DNAH14	dynein, axonemal, heavy chain 14 [Source:HGNC Symbol;Acc:2945]
2660	ENSG00000149577	874.9786635	0.823433853	0.119950147	4.68E-11	SIDT2	SID1 transmembrane family, member 2 [Source:HGNC Symbol;Acc:24272]
2661	ENSG00000130811	1364.8884	0.860810493	0.125437421	4.76E-11	EIF3G	eukaryotic translation initiation factor 3, subunit G [Source:HGNC Symbol;Acc:3274]
2662	ENSG00000168384	77.26116698	2.445815108	0.356465402	4.80E-11	HLA-DPA1	major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:4938]
2663	ENSG00000060971	3950.198141	-0.464257572	0.067774014	5.19E-11	ACAA1	acetyl-CoA acyltransferase 1 [Source:HGNC Symbol;Acc:82]
2664	ENSG00000105204	262.9837318	1.411538247	0.206098062	5.23E-11	DYRK1B	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1B [Source:HGNC Symbol;Acc:3092]
2665	ENSG00000185115	259.1565021	1.386949792	0.202588294	5.33E-11	NDNL2	necdin-like 2 [Source:HGNC Symbol;Acc:7677]
2666	ENSG00000236177	77.13136092	2.441767236	0.35671266	5.36E-11	HLA-DPA1	major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:4938]
2667	ENSG00000235844	77.13129484	2.441762588	0.356712457	5.36E-11	HLA-DPA1	major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:4938]
2668	ENSG00000176454	765.8826307	0.863491359	0.126161658	5.39E-11	LPCAT4	lysophosphatidylcholine acyltransferase 4 [Source:HGNC Symbol;Acc:30059]
2669	ENSG00000241978	554.1307656	1.073357804	0.156827023	5.39E-11	AKAP2	A kinase (PRKA) anchor protein 2 [Source:HGNC Symbol;Acc:372]
2670	ENSG00000156831	347.4910003	-1.266482403	0.185050919	5.40E-11	NSMCE2	non-SMC element 2, MMS21 homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:26513]
2671	ENSG00000174021	2174.092854	-0.529614425	0.077439313	5.58E-11	GNG5	guanine nucleotide binding protein (G protein), gamma 5 [Source:HGNC Symbol;Acc:4408]
2672	ENSG00000174080	106.2727853	2.202048084	0.321983733	5.59E-11	CTSF	cathepsin F [Source:HGNC Symbol;Acc:2531]
2673	ENSG00000189241	1036.860004	0.760416572	0.111190659	5.59E-11	TSPYL1	TSPY-like 1 [Source:HGNC Symbol;Acc:12382]
2674	ENSG00000121858	2241.233403	0.59319179	0.086752072	5.63E-11	TNFSF10	tumor necrosis factor (ligand) superfamily, member 10 [Source:HGNC Symbol;Acc:11925]
2675	ENSG00000068383	1043.111238	-0.711668671	0.104101203	5.68E-11	INPP5A	inositol polyphosphate-5-phosphatase, 40kDa [Source:HGNC Symbol;Acc:6076]
2676	ENSG00000161395	277.5013795	1.354503061	0.198162107	5.72E-11	PGAP3	post-GPI attachment to proteins 3 [Source:HGNC Symbol;Acc:23719]
2677	ENSG00000165702	164.7082548	-1.625209886	0.237794849	5.75E-11	GFI1B	growth factor independent 1B transcription repressor [Source:HGNC Symbol;Acc:4238]
2678	ENSG00000170667	153.2748854	1.94098307	0.284026942	5.78E-11	RASA4B	RAS p21 protein activator 4B [Source:HGNC Symbol;Acc:35202]
2679	ENSG00000196792	626.3902921	-1.024203408	0.149932147	5.89E-11	STRN3	striatin, calmodulin binding protein 3 [Source:HGNC Symbol;Acc:15720]
2680	ENSG00000156642	2317.607296	-0.529495093	0.077516242	5.90E-11	NPTN	neuroplastin [Source:HGNC Symbol;Acc:17867]
2681	ENSG00000168899	275.6807862	1.296877139	0.18992836	6.00E-11	VAMP5	vesicle-associated membrane protein 5 [Source:HGNC Symbol;Acc:12646]
2682	ENSG00000122566	19491.85048	-0.348825454	0.051091118	6.03E-11	HNRNPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1 [Source:HGNC Symbol;Acc:5033]

2683	ENSG00000117425	108.1234604	-2.036402535	0.298288959	6.05E-11	PTCH2	patched 2 [Source:HGNC Symbol;Acc:9586]
2684	ENSG00000149357	2830.883552	-0.534934326	0.078388102	6.17E-11	LAMTOR1	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1 [Source:HGNC Symbol;Acc:26068]
2685	ENSG00000172216	2395.717217	0.537202783	0.078782367	6.40E-11	CEBPB	CCAAT/enhancer binding protein (C/EBP), beta [Source:HGNC Symbol;Acc:1834]
2686	ENSG00000169641	426.2953482	1.058093642	0.155198485	6.45E-11	LUZP1	leucine zipper protein 1 [Source:HGNC Symbol;Acc:14985]
2687	ENSG00000183044	1519.865257	-0.642631992	0.094264082	6.46E-11	ABAT	4-aminobutyrate aminotransferase [Source:HGNC Symbol;Acc:23]
2688	ENSG00000152601	9892.15787	0.397770401	0.058387107	6.67E-11	MBNL1	muscleblind-like splicing regulator 1 [Source:HGNC Symbol;Acc:6923]
2689	ENSG00000164111	2587.026008	-0.516206999	0.075797317	6.78E-11	ANXA5	annexin A5 [Source:HGNC Symbol;Acc:543]
2690	ENSG00000126016	77.0821826	2.546189326	0.374015035	6.90E-11	AMOT	angiominin [Source:HGNC Symbol;Acc:17810]
2691	ENSG00000159082	1407.646964	-0.68064594	0.100004416	6.97E-11	SYNJ1	synaptojanin 1 [Source:HGNC Symbol;Acc:11503]
2692	ENSG00000151849	385.9779174	-1.103283776	0.162118014	7.00E-11	CENPJ	centromere protein J [Source:HGNC Symbol;Acc:17272]
2693	ENSG00000140044	1569.189345	-0.791357261	0.116298379	7.04E-11	JDP2	Jun dimerization protein 2 [Source:HGNC Symbol;Acc:17546]
2694	ENSG00000105486	919.3004401	-0.754377234	0.110910243	7.18E-11	LIG1	ligase I, DNA, ATP-dependent [Source:HGNC Symbol;Acc:6598]
2695	ENSG00000198959	141.3704702	-1.769543697	0.260197795	7.23E-11	TGM2	transglutaminase 2 [Source:HGNC Symbol;Acc:11778]
2696	ENSG00000198763	65285.54918	0.398772203	0.058641732	7.25E-11	MT-ND2	mitochondrially encoded NADH dehydrogenase 2 [Source:HGNC Symbol;Acc:7456]
2697	ENSG00000169884	69.03925488	2.680450907	0.394199318	7.27E-11	WNT10B	wingless-type MMTV integration site family, member 10B [Source:HGNC Symbol;Acc:12775]
2698	ENSG00000163798	1206.745982	-0.70500085	0.103699623	7.33E-11	SLC4A1AP	solute carrier family 4 (anion exchanger), member 1, adaptor protein [Source:HGNC Symbol;Acc:13813]
2699	ENSG00000211825	43.14782981	3.203996445	0.471293944	7.34E-11	TRDJ1	T cell receptor delta joining 1 [Source:HGNC Symbol;Acc:12257]
2700	ENSG00000141295	372.8216841	1.183485232	0.174135403	7.44E-11	SCRN2	secernin 2 [Source:HGNC Symbol;Acc:30381]
2701	ENSG00000111843	524.1561694	-0.953747593	0.140337598	7.45E-11	TMEM14C	transmembrane protein 14C [Source:HGNC Symbol;Acc:20952]
2702	ENSG00000174405	834.6510371	0.780375231	0.1148538	7.53E-11	LIG4	ligase IV, DNA, ATP-dependent [Source:HGNC Symbol;Acc:6601]
2703	ENSG00000080189	1864.807389	-0.574122507	0.084532476	7.67E-11	SLC35C2	solute carrier family 35 (GDP-fucose transporter), member C2 [Source:HGNC Symbol;Acc:17117]
2704	ENSG00000066654	1167.15986	0.736809468	0.108528727	7.81E-11	THUMP1	THUMP domain containing 1 [Source:HGNC Symbol;Acc:23807]
2705	ENSG00000100731	5364.652644	-0.503170159	0.07412098	7.84E-11	PCNX	pecanex homolog (Drosophila) [Source:HGNC Symbol;Acc:19740]
2706	ENSG00000238083	1099.632441	-0.710851876	0.1047367	7.92E-11	LRRRC37A2	leucine rich repeat containing 37, member A2 [Source:HGNC Symbol;Acc:32404]
2707	ENSG00000178381	590.5627304	-0.90676424	0.133624016	7.97E-11	ZFAND2A	zinc finger, AN1-type domain 2A [Source:HGNC Symbol;Acc:28073]
2708	ENSG00000138613	983.9790125	-0.730602835	0.107682773	8.04E-11	APH1B	APH1B gamma secretase subunit [Source:HGNC Symbol;Acc:24080]
2709	ENSG00000184661	98.40722257	-2.297779431	0.338736453	8.11E-11	CDCA2	cell division cycle associated 2 [Source:HGNC Symbol;Acc:14623]
2710	ENSG00000102543	497.2544012	-1.014991552	0.149794803	8.54E-11	CDADC1	cytidine and dCMP deaminase domain containing 1 [Source:HGNC Symbol;Acc:20299]

2711	ENSG00000126561	2270.198064	0.551457195	0.081423802	8.73E-11	STAT5A	signal transducer and activator of transcription 5A [Source:HGNC Symbol;Acc:11366]
2712	ENSG00000172830	1174.036076	-0.970011958	0.143372619	9.16E-11	SSH3	slingshot protein phosphatase 3 [Source:HGNC Symbol;Acc:30581]
2713	ENSG00000167543	269.4571977	1.536958823	0.227291197	9.38E-11	TP53I13	tumor protein p53 inducible protein 13 [Source:HGNC Symbol;Acc:25102]
2714	ENSG00000163599	93.53160099	2.85356466	0.422073765	9.46E-11	CTLA4	cytotoxic T-lymphocyte-associated protein 4 [Source:HGNC Symbol;Acc:2505]
2715	ENSG00000104408	3943.029849	0.469010746	0.06940301	9.66E-11	EIF3E	eukaryotic translation initiation factor 3, subunit E [Source:HGNC Symbol;Acc:3277]
2716	ENSG00000162959	1133.837831	-0.731653767	0.108272622	9.67E-11	MEMO1	mediator of cell motility 1 [Source:HGNC Symbol;Acc:14014]
2717	ENSG00000134291	767.6993242	-0.894685111	0.132410084	9.71E-11	TMEM106C	transmembrane protein 106C [Source:HGNC Symbol;Acc:28775]
2718	ENSG00000100079	233.5911227	1.498152355	0.221722641	9.71E-11	LGALS2	lectin, galactoside-binding, soluble, 2 [Source:HGNC Symbol;Acc:6562]
2719	ENSG00000265434	1983.843934	-0.56286756	0.083304541	9.71E-11	HLA-ABC	MHC class I antigen [Source:UniProtKB/TrEMBL;Acc:Q5SUL5]
2720	ENSG00000094916	2129.918488	-0.528930488	0.078310266	9.88E-11	CBX5	chromobox homolog 5 [Source:HGNC Symbol;Acc:1555]
2721	ENSG00000094804	188.130306	-1.62077846	0.239980759	9.91E-11	CDC6	cell division cycle 6 [Source:HGNC Symbol;Acc:1744]
2722	ENSG00000120992	1527.79727	-0.643453686	0.095278731	9.93E-11	LYPLA1	lysophospholipase I [Source:HGNC Symbol;Acc:6737]
2723	ENSG00000237593	47.63364175	-2.846752922	0.421578519	9.98E-11	RP11-317B3.2	
2724	ENSG00000198160	2858.428525	-0.473639572	0.070147429	1.00E-10	MIER1	mesoderm induction early response 1, transcriptional regulator [Source:HGNC Symbol;Acc:29657]
2725	ENSG00000235588	3571.485193	0.483028395	0.071544005	1.00E-10	AIF1	allograft inflammatory factor 1 [Source:HGNC Symbol;Acc:352]
2726	ENSG00000177613	744.0786267	0.818744414	0.121294894	1.01E-10	CSTF2T	cleavage stimulation factor, 3' pre-RNA, subunit 2, 64kDa, tau variant [Source:HGNC Symbol;Acc:17086]
2727	ENSG00000153560	1778.446905	0.694276059	0.10292912	1.05E-10	UBP1	upstream binding protein 1 (LBP-1a) [Source:HGNC Symbol;Acc:12507]
2728	ENSG00000103653	3384.143344	0.725768033	0.107611126	1.05E-10	CSK	c-src tyrosine kinase [Source:HGNC Symbol;Acc:2444]
2729	ENSG00000059377	3020.750715	0.497572019	0.073862724	1.11E-10	TBXAS1	thromboxane A synthase 1 (platelet) [Source:HGNC Symbol;Acc:11609]
2730	ENSG00000115760	2883.476302	0.655984806	0.097382444	1.11E-10	BIRC6	baculoviral IAP repeat containing 6 [Source:HGNC Symbol;Acc:13516]
2731	ENSG00000157856	122.1277047	-1.945164887	0.288786642	1.12E-10	DRC1	dynein regulatory complex subunit 1 homolog (Chlamydomonas) [Source:HGNC Symbol;Acc:24245]
2732	ENSG00000103995	434.7213962	-1.120935485	0.166467724	1.13E-10	CEP152	centrosomal protein 152kDa [Source:HGNC Symbol;Acc:29298]
2733	ENSG00000025293	1334.617728	0.700910711	0.10411171	1.14E-10	PHF20	PHD finger protein 20 [Source:HGNC Symbol;Acc:16098]
2734	ENSG00000109466	1429.766051	-0.774939	0.115140774	1.16E-10	KLHL2	kelch-like family member 2 [Source:HGNC Symbol;Acc:6353]
2735	ENSG00000214796	72.15094732	-2.382367366	0.354240931	1.20E-10	RP11-480I12.5	
2736	ENSG00000166664	168.4076375	-1.645724164	0.244707817	1.20E-10	CHRFAM7A	CHRNA7 (cholinergic receptor, nicotinic, alpha 7, exons 5-10) and FAM7A (family with sequence similarity 7A, exons A-E) fusion [Source:HGNC Symbol;Acc:15781]
2737	ENSG00000169217	1872.045775	0.568148506	0.084493336	1.21E-10	CD2BP2	CD2 (cytoplasmic tail) binding protein 2 [Source:HGNC Symbol;Acc:1656]
2738	ENSG00000109971	13206.4207	0.324175976	0.048211075	1.21E-10	HSPA8	heat shock 70kDa protein 8 [Source:HGNC Symbol;Acc:5241]



2739	ENSG00000269858	3261.200048	0.468262647	0.069671537	1.23E-10	EGLN2	egl-9 family hypoxia-inducible factor 2 [Source:HGNC Symbol;Acc:14660]
2740	ENSG00000101017	147.9032494	1.788077892	0.266054055	1.23E-10	CD40	CD40 molecule, TNF receptor superfamily member 5 [Source:HGNC Symbol;Acc:11919]
2741	ENSG00000184292	393.486685	-1.086829143	0.161765206	1.25E-10	TACSTD2	tumor-associated calcium signal transducer 2 [Source:HGNC Symbol;Acc:11530]
2742	ENSG00000097046	493.9932822	-1.090927042	0.162450794	1.28E-10	CDC7	cell division cycle 7 [Source:HGNC Symbol;Acc:1745]
2743	ENSG00000182841	334.320685	1.18944969	0.177168707	1.29E-10	RRP7B	ribosomal RNA processing 7 homolog B (S. cerevisiae) [Source:HGNC Symbol;Acc:30454]
2744	ENSG00000146373	401.8479783	-1.309940343	0.195140143	1.30E-10	RNF217	ring finger protein 217 [Source:HGNC Symbol;Acc:21487]
2745	ENSG00000136824	460.534804	-1.034949026	0.154220457	1.32E-10	SMC2	structural maintenance of chromosomes 2 [Source:HGNC Symbol;Acc:14011]
2746	ENSG00000090339	993.477372	0.720445984	0.107385717	1.34E-10	ICAM1	intercellular adhesion molecule 1 [Source:HGNC Symbol;Acc:5344]
2747	ENSG00000079277	2422.84439	-0.496460892	0.07400741	1.34E-10	MKNK1	MAP kinase interacting serine/threonine kinase 1 [Source:HGNC Symbol;Acc:7110]
2748	ENSG00000196154	22946.68177	-0.315357798	0.047012671	1.34E-10	S100A4	S100 calcium binding protein A4 [Source:HGNC Symbol;Acc:10494]
2749	ENSG00000144445	863.8442565	-0.821655294	0.122507947	1.35E-10	KANSL1L	KAT8 regulatory NSL complex subunit 1-like [Source:HGNC Symbol;Acc:26310]
2750	ENSG00000124177	901.9241298	0.761101807	0.113511999	1.37E-10	CHD6	chromodomain helicase DNA binding protein 6 [Source:HGNC Symbol;Acc:19057]
2751	ENSG00000101220	743.6227705	-0.836311943	0.124736316	1.37E-10	C20orf27	chromosome 20 open reading frame 27 [Source:HGNC Symbol;Acc:15873]
2752	ENSG00000101290	3036.284059	0.708881221	0.105762495	1.39E-10	CDS2	CDP-diacylglycerol synthase (phosphatidate cytidyltransferase) 2 [Source:HGNC Symbol;Acc:1801]
2753	ENSG00000135766	2216.006498	0.515847785	0.076975298	1.40E-10	EGLN1	egl-9 family hypoxia-inducible factor 1 [Source:HGNC Symbol;Acc:1232]
2754	ENSG00000129465	1176.963314	-0.662736882	0.098920729	1.42E-10	RIPK3	receptor-interacting serine-threonine kinase 3 [Source:HGNC Symbol;Acc:10021]
2755	ENSG00000145979	452.4914876	-1.023759317	0.152841011	1.43E-10	TBC1D7	TBC1 domain family, member 7 [Source:HGNC Symbol;Acc:21066]
2756	ENSG00000105287	2443.909443	0.51771525	0.077292964	1.43E-10	PRKD2	protein kinase D2 [Source:HGNC Symbol;Acc:17293]
2757	ENSG00000128245	2992.052056	-0.478722142	0.071500554	1.46E-10	YWHAH	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta [Source:HGNC Symbol;Acc:12853]
2758	ENSG00000197208	668.197885	-0.83183824	0.124291972	1.49E-10	SLC22A4	solute carrier family 22 (organic cation/zwitterion transporter), member 4 [Source:HGNC Symbol;Acc:10968]
2759	ENSG00000126524	640.1352895	-0.850443042	0.127075163	1.49E-10	SBDS	Shwachman-Bodian-Diamond syndrome [Source:HGNC Symbol;Acc:19440]
2760	ENSG00000196911	302.2464434	1.239004318	0.185170053	1.50E-10	KPNA5	karyopherin alpha 5 (importin alpha 6) [Source:HGNC Symbol;Acc:6398]
2761	ENSG00000141096	503.4003311	1.052283119	0.15737544	1.55E-10	DPEP3	dipeptidase 3 [Source:HGNC Symbol;Acc:23029]
2762	ENSG00000145247	226.7958224	1.53308711	0.229294914	1.55E-10	OClAD2	OClA domain containing 2 [Source:HGNC Symbol;Acc:28685]
2763	ENSG00000177951	1647.263546	-0.679129898	0.10158182	1.56E-10	BET1L	Bet1 golgi vesicular membrane trafficking protein-like [Source:HGNC Symbol;Acc:19348]
2764	ENSG00000105136	241.3782794	1.442336423	0.215741197	1.56E-10	ZNF419	zinc finger protein 419 [Source:HGNC Symbol;Acc:20648]
2765	ENSG00000110074	744.2227082	-0.815746709	0.122038575	1.57E-10	FOXRED1	FAD-dependent oxidoreductase domain containing 1 [Source:HGNC Symbol;Acc:26927]
2766	ENSG00000109685	1605.410866	-0.62065265	0.092879009	1.59E-10	WHSC1	Wolf-Hirschhorn syndrome candidate 1 [Source:HGNC Symbol;Acc:12766]

2767	ENSG00000163608	885.2539551	0.760619626	0.113880156	1.63E-10	C3orf17	chromosome 3 open reading frame 17 [Source:HGNC Symbol;Acc:24496]
2768	ENSG00000158321	195.3007139	1.777731716	0.266179399	1.63E-10	AUTS2	autism susceptibility candidate 2 [Source:HGNC Symbol;Acc:14262]
2769	ENSG00000135486	14351.66888	0.333517201	0.049999263	1.72E-10	HNRNPA1	heterogeneous nuclear ribonucleoprotein A1 [Source:HGNC Symbol;Acc:5031]
2770	ENSG00000150054	685.5285225	-0.846803945	0.12703249	1.78E-10	MPP7	membrane protein, palmitoylated 7 (MAGUK p55 subfamily member 7) [Source:HGNC Symbol;Acc:26542]
2771	ENSG00000095787	6292.600407	-0.411773979	0.061834766	1.86E-10	WAC	WW domain containing adaptor with coiled-coil [Source:HGNC Symbol;Acc:17327]
2772	ENSG00000116688	3191.742493	-0.483885314	0.072688251	1.89E-10	MFN2	mitofusin 2 [Source:HGNC Symbol;Acc:16877]
2773	ENSG00000167325	736.8942814	-0.788096375	0.118479362	1.95E-10	RRM1	ribonucleotide reductase M1 [Source:HGNC Symbol;Acc:10451]
2774	ENSG00000173207	261.8414542	-1.298704762	0.195273424	1.97E-10	CKS1B	CDC28 protein kinase regulatory subunit 1B [Source:HGNC Symbol;Acc:19083]
2775	ENSG00000131067	225.4878945	1.628705336	0.244919583	1.98E-10	GGT7	gamma-glutamyltransferase 7 [Source:HGNC Symbol;Acc:4259]
2776	ENSG00000135912	996.6187859	0.715065949	0.107542322	1.99E-10	TTL4	tubulin tyrosine ligase-like family, member 4 [Source:HGNC Symbol;Acc:28976]
2777	ENSG00000149328	62.17217726	2.61745854	0.393656044	1.99E-10	GLB1L2	galactosidase, beta 1-like 2 [Source:HGNC Symbol;Acc:25129]
2778	ENSG00000170004	7553.015511	-0.392663081	0.059061692	2.00E-10	CHD3	chromodomain helicase DNA binding protein 3 [Source:HGNC Symbol;Acc:1918]
2779	ENSG00000132740	473.337269	-1.014989544	0.152759194	2.05E-10	IGHMBP2	immunoglobulin mu binding protein 2 [Source:HGNC Symbol;Acc:5542]
2780	ENSG00000145335	355.2013224	1.189785294	0.179073567	2.05E-10	SNCA	synuclein, alpha (non A4 component of amyloid precursor) [Source:HGNC Symbol;Acc:11138]
2781	ENSG00000178163	531.4571263	1.005222708	0.15134755	2.08E-10	ZNF518B	zinc finger protein 518B [Source:HGNC Symbol;Acc:29365]
2782	ENSG00000009790	6139.932676	0.402848891	0.060669115	2.11E-10	TRAF3IP3	TRAF3 interacting protein 3 [Source:HGNC Symbol;Acc:30766]
2783	ENSG00000152495	736.5179956	2.051340434	0.309091468	2.16E-10	CAMK4	calcium/calmodulin-dependent protein kinase IV [Source:HGNC Symbol;Acc:1464]
2784	ENSG00000076053	632.0855874	-0.849914657	0.128065977	2.16E-10	RBM7	RNA binding motif protein 7 [Source:HGNC Symbol;Acc:9904]
2785	ENSG00000137819	138.5094089	-1.736819026	0.261706357	2.16E-10	PAQR5	progesterin and adipoQ receptor family member V [Source:HGNC Symbol;Acc:29645]
2786	ENSG00000119537	338.6501509	1.289556136	0.194323985	2.16E-10	KDSR	3-ketodihydrospingosine reductase [Source:HGNC Symbol;Acc:4021]
2787	ENSG00000125249	587.2071598	1.112557995	0.167705392	2.19E-10	RAP2A	RAP2A, member of RAS oncogene family [Source:HGNC Symbol;Acc:9861]
2788	ENSG00000221978	4062.773027	0.513664304	0.07747842	2.26E-10	CCNL2	cyclin L2 [Source:HGNC Symbol;Acc:20570]
2789	ENSG00000176542	1193.421588	0.65239144	0.098466204	2.32E-10	KIAA2018	KIAA2018 [Source:HGNC Symbol;Acc:30494]
2790	ENSG00000151967	346.352399	3.302597685	0.498852145	2.40E-10	SCHIP1	schwannomin interacting protein 1 [Source:HGNC Symbol;Acc:15678]
2791	ENSG00000164080	1100.915144	-0.676542833	0.102232556	2.45E-10	RAD54L2	RAD54-like 2 (S. cerevisiae) [Source:HGNC Symbol;Acc:29123]
2792	ENSG00000185379	318.8782005	-1.186778641	0.179344324	2.45E-10	RAD51D	RAD51 paralog D [Source:HGNC Symbol;Acc:9823]
2793	ENSG00000141968	3856.977177	-0.43111037	0.06516914	2.49E-10	VAV1	vav 1 guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:12657]
2794	ENSG00000042980	834.6467428	0.884588926	0.133738476	2.50E-10	ADAM28	ADAM metallopeptidase domain 28 [Source:HGNC Symbol;Acc:206]

2795	ENSG00000164109	226.7260229	-1.359932696	0.205646855	2.52E-10	MAD2L1	MAD2 mitotic arrest deficient-like 1 (yeast) [Source:HGNC Symbol;Acc:6763]
2796	ENSG00000187601	116.792519	1.980265843	0.299460993	2.52E-10	MAGEH1	melanoma antigen family H, 1 [Source:HGNC Symbol;Acc:24092]
2797	ENSG00000065615	2943.773658	-0.455227018	0.068851725	2.54E-10	CYB5R4	cytochrome b5 reductase 4 [Source:HGNC Symbol;Acc:20147]
2798	ENSG00000101126	2129.827371	0.542760199	0.082123102	2.59E-10	ADNP	activity-dependent neuroprotector homeobox [Source:HGNC Symbol;Acc:15766]
2799	ENSG00000166454	861.6263862	0.77228033	0.116904829	2.64E-10	ATMIN	ATM interactor [Source:HGNC Symbol;Acc:29034]
2800	ENSG00000064225	1155.212568	-0.729818873	0.110566188	2.73E-10	ST3GAL6	ST3 beta-galactoside alpha-2,3-sialyltransferase 6 [Source:HGNC Symbol;Acc:18080]
2801	ENSG00000144824	136.3746557	1.833302355	0.277810876	2.76E-10	PHLDB2	pleckstrin homology-like domain, family B, member 2 [Source:HGNC Symbol;Acc:29573]
2802	ENSG00000093009	247.247523	-1.370645321	0.207752785	2.79E-10	CDC45	cell division cycle 45 [Source:HGNC Symbol;Acc:1739]
2803	ENSG00000080815	3153.541071	-0.459642531	0.069702242	2.85E-10	PSEN1	presenilin 1 [Source:HGNC Symbol;Acc:9508]
2804	ENSG00000143190	1039.445339	-0.899858395	0.136593488	2.98E-10	POU2F1	POU class 2 homeobox 1 [Source:HGNC Symbol;Acc:9212]
2805	ENSG00000250588	61.03674111	2.595822807	0.394097499	3.00E-10	IQCI-SCHIP1	IQCI-SCHIP1 readthrough [Source:HGNC Symbol;Acc:38842]
2806	ENSG00000145428	372.4937701	1.11794042	0.169745327	3.01E-10	RNF175	ring finger protein 175 [Source:HGNC Symbol;Acc:27735]
2807	ENSG00000105227	93.01971282	2.789736317	0.423602155	3.02E-10	PRX	periaxin [Source:HGNC Symbol;Acc:13797]
2808	ENSG00000196188	25.50614933	-3.522071962	0.534824924	3.02E-10	CTSE	cathepsin E [Source:HGNC Symbol;Acc:2530]
2809	ENSG00000166272	1905.302927	0.547526283	0.083143062	3.02E-10	WBP1L	WW domain binding protein 1-like [Source:HGNC Symbol;Acc:23510]
2810	ENSG00000264606	25.50527588	-3.521998972	0.5348265	3.02E-10	CTSE	cathepsin E [Source:HGNC Symbol;Acc:2530]
2811	ENSG00000069869	1176.560487	-0.70369019	0.10687383	3.04E-10	NEDD4	neural precursor cell expressed, developmentally down-regulated 4, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:7727]
2812	ENSG00000166333	3094.571443	-0.457499864	0.069492944	3.06E-10	ILK	integrin-linked kinase [Source:HGNC Symbol;Acc:6040]
2813	ENSG00000072736	3249.527854	0.433890591	0.065935038	3.12E-10	NFATC3	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3 [Source:HGNC Symbol;Acc:7777]
2814	ENSG00000010671	1227.988866	-0.644978705	0.098018297	3.12E-10	BTK	Bruton agammaglobulinemia tyrosine kinase [Source:HGNC Symbol;Acc:1133]
2815	ENSG00000221890	121.2231301	1.979161307	0.300788258	3.13E-10	NPTXR	neuronal pentraxin receptor [Source:HGNC Symbol;Acc:7954]
2816	ENSG00000154511	97.66447358	2.114333448	0.3213716	3.15E-10	FAM69A	family with sequence similarity 69, member A [Source:HGNC Symbol;Acc:32213]
2817	ENSG00000163507	212.7395034	-1.473317895	0.224066082	3.22E-10	KIAA1524	KIAA1524 [Source:HGNC Symbol;Acc:29302]
2818	ENSG00000095383	615.8038991	-0.927389607	0.14105399	3.24E-10	TBC1D2	TBC1 domain family, member 2 [Source:HGNC Symbol;Acc:18026]
2819	ENSG00000139832	509.8737543	-0.946509463	0.143976849	3.25E-10	RAB20	RAB20, member RAS oncogene family [Source:HGNC Symbol;Acc:18260]
2820	ENSG00000205542	98639.85684	-0.285786404	0.043483645	3.29E-10	TMSB4X	thymosin beta 4, X-linked [Source:HGNC Symbol;Acc:11881]
2821	ENSG00000033327	3490.960212	0.436968581	0.066498713	3.31E-10	GAB2	GRB2-associated binding protein 2 [Source:HGNC Symbol;Acc:14458]
2822	ENSG00000268897	1227.780887	-0.64449099	0.098086272	3.32E-10	BTK	Bruton agammaglobulinemia tyrosine kinase [Source:HGNC Symbol;Acc:1133]

2823	ENSG00000134873	1216.734958	0.697694383	0.106203344	3.35E-10	CLDN10	claudin 10 [Source:HGNC Symbol;Acc:2033]
2824	ENSG00000139537	209.7186824	1.480708659	0.225476721	3.40E-10	CCDC65	coiled-coil domain containing 65 [Source:HGNC Symbol;Acc:29937]
2825	ENSG00000092853	161.7030921	-1.650793096	0.251418193	3.43E-10	CLSPN	claspin [Source:HGNC Symbol;Acc:19715]
2826	ENSG00000182534	800.1438983	0.804481566	0.122547889	3.45E-10	MXRA7	matrix-remodelling associated 7 [Source:HGNC Symbol;Acc:7541]
2827	ENSG00000165502	2072.053473	0.514718878	0.078426984	3.49E-10	RPL36AL	ribosomal protein L36a-like [Source:HGNC Symbol;Acc:10346]
2828	ENSG00000140443	2594.143682	-0.517423801	0.078839943	3.49E-10	IGF1R	insulin-like growth factor 1 receptor [Source:HGNC Symbol;Acc:5465]
2829	ENSG00000137563	154.4839717	-1.70683013	0.260073829	3.49E-10	GGH	gamma-glutamyl hydrolase (conjugase, folic polyglutamyl hydrolase) [Source:HGNC Symbol;Acc:4248]
2830	ENSG00000172889	127.5045285	2.030430458	0.309382857	3.49E-10	EGFL7	EGF-like-domain, multiple 7 [Source:HGNC Symbol;Acc:20594]
2831	ENSG00000196683	2148.289365	0.50428356	0.076873567	3.56E-10	TOMM7	translocase of outer mitochondrial membrane 7 homolog (yeast) [Source:HGNC Symbol;Acc:21648]
2832	ENSG00000163751	102.5334969	-2.021602465	0.308213511	3.58E-10	CPA3	carboxypeptidase A3 (mast cell) [Source:HGNC Symbol;Acc:2298]
2833	ENSG00000137070	727.9276258	0.871345811	0.13286312	3.60E-10	IL11RA	interleukin 11 receptor, alpha [Source:HGNC Symbol;Acc:5967]
2834	ENSG00000127720	256.3819004	-1.336553108	0.203835621	3.62E-10	METTL25	methyltransferase like 25 [Source:HGNC Symbol;Acc:26228]
2835	ENSG00000005961	443.1859032	1.046449831	0.159675424	3.71E-10	ITGA2B	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41) [Source:HGNC Symbol;Acc:6138]
2836	ENSG00000150995	665.0456922	1.060738309	0.161909636	3.76E-10	ITPR1	inositol 1,4,5-trisphosphate receptor, type 1 [Source:HGNC Symbol;Acc:6180]
2837	ENSG00000124215	206.8827943	-1.424192321	0.217446319	3.80E-10	CDH26	cadherin 26 [Source:HGNC Symbol;Acc:15902]
2838	ENSG00000100526	128.62532	-1.833402284	0.279976727	3.83E-10	CDKN3	cyclin-dependent kinase inhibitor 3 [Source:HGNC Symbol;Acc:1791]
2839	ENSG00000180357	1077.105987	0.732202369	0.111825151	3.85E-10	ZNF609	zinc finger protein 609 [Source:HGNC Symbol;Acc:29003]
2840	ENSG00000136490	6848.580361	0.963289904	0.147190716	3.93E-10	LIMD2	LIM domain containing 2 [Source:HGNC Symbol;Acc:28142]
2841	ENSG00000197077	159.796078	1.678348098	0.256550849	4.00E-10	KIAA1671	KIAA1671 [Source:HGNC Symbol;Acc:29345]
2842	ENSG00000175054	798.7013136	0.95614653	0.146156388	4.00E-10	ATR	ataxia telangiectasia and Rad3 related [Source:HGNC Symbol;Acc:882]
2843	ENSG00000044459	265.690687	-1.296659521	0.198230907	4.02E-10	CNTLN	centlein, centrosomal protein [Source:HGNC Symbol;Acc:23432]
2844	ENSG00000176978	634.1318146	1.096087818	0.1675728	4.02E-10	DPP7	dipeptidyl-peptidase 7 [Source:HGNC Symbol;Acc:14892]
2845	ENSG00000141367	4374.08657	-0.413872707	0.063280868	4.04E-10	CLTC	clathrin, heavy chain (Hc) [Source:HGNC Symbol;Acc:2092]
2846	ENSG00000154237	611.0145495	-0.864801374	0.132240668	4.06E-10	LRRK1	leucine-rich repeat kinase 1 [Source:HGNC Symbol;Acc:18608]
2847	ENSG00000211792	44.51804532	3.079985043	0.47136604	4.20E-10	TRAV14DV4	T cell receptor alpha variable 14/delta variable 4 [Source:HGNC Symbol;Acc:12110]
2848	ENSG00000178038	146.659591	1.797055896	0.275118315	4.27E-10	ALS2CL	ALS2 C-terminal like [Source:HGNC Symbol;Acc:20605]
2849	ENSG00000131759	2241.143631	0.584110286	0.089431397	4.28E-10	RARA	retinoic acid receptor, alpha [Source:HGNC Symbol;Acc:9864]
2850	ENSG00000165806	248.3673406	1.331525051	0.203885394	4.30E-10	CASP7	caspase 7, apoptosis-related cysteine peptidase [Source:HGNC Symbol;Acc:1508]

2851	ENSG00000243406	247.6808205	1.325038856	0.203054113	4.45E-10	MRPS31P5	mitochondrial ribosomal protein S31 pseudogene 5 [Source:HGNC Symbol;Acc:39253]
2852	ENSG00000183401	1295.974828	-0.657020267	0.100703853	4.48E-10	CCDC159	coiled-coil domain containing 159 [Source:HGNC Symbol;Acc:26996]
2853	ENSG00000075413	3057.814451	-0.43969389	0.067394283	4.48E-10	MARK3	MAP/microtubule affinity-regulating kinase 3 [Source:HGNC Symbol;Acc:6897]
2854	ENSG00000138617	650.811523	-0.847277455	0.129977356	4.65E-10	PARP16	poly (ADP-ribose) polymerase family, member 16 [Source:HGNC Symbol;Acc:26040]
2855	ENSG00000184574	109.8492155	2.086131735	0.320060737	4.67E-10	LPAR5	lysophosphatidic acid receptor 5 [Source:HGNC Symbol;Acc:13307]
2856	ENSG00000177426	360.0025103	1.136135654	0.174349017	4.72E-10	TGIF1	TGFB-induced factor homeobox 1 [Source:HGNC Symbol;Acc:11776]
2857	ENSG00000133138	571.3350329	-0.936093713	0.143671791	4.75E-10	TBC1D8B	TBC1 domain family, member 8B (with GRAM domain) [Source:HGNC Symbol;Acc:24715]
2858	ENSG00000196123	274.9143125	-1.236096651	0.189796356	4.83E-10	KIAA0895L	KIAA0895-like [Source:HGNC Symbol;Acc:34408]
2859	ENSG00000243958	545.2034689	0.995085227	0.152810814	4.86E-10	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 [Source:HGNC Symbol;Acc:9546]
2860	ENSG00000240508	545.2004867	0.995013144	0.152808098	4.87E-10	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 [Source:HGNC Symbol;Acc:9546]
2861	ENSG00000169220	3906.609348	-0.471209621	0.072366127	4.87E-10	RGS14	regulator of G-protein signaling 14 [Source:HGNC Symbol;Acc:9996]
2862	ENSG00000100105	572.0493671	0.968566029	0.148812735	4.96E-10	PATZ1	POZ (BTB) and AT hook containing zinc finger 1 [Source:HGNC Symbol;Acc:13071]
2863	ENSG00000211793	54.53618777	2.774563591	0.426364548	4.99E-10	TRAV9-2	T cell receptor alpha variable 9-2 [Source:HGNC Symbol;Acc:12154]
2864	ENSG00000117650	90.82284488	-2.197728997	0.337755473	5.01E-10	NEK2	NIMA-related kinase 2 [Source:HGNC Symbol;Acc:7745]
2865	ENSG00000134262	1531.687491	-0.595994267	0.091601719	5.03E-10	AP4B1	adaptor-related protein complex 4, beta 1 subunit [Source:HGNC Symbol;Acc:572]
2866	ENSG00000198455	167.4813641	1.678257069	0.258030443	5.10E-10	ZXDB	zinc finger, X-linked, duplicated B [Source:HGNC Symbol;Acc:13199]
2867	ENSG00000137815	2429.552766	-0.62160997	0.095584999	5.13E-10	RTF1	Rtf1, Paf1/RNA polymerase II complex component, homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:28996]
2868	ENSG00000117984	12151.46672	-1.174551538	0.180666511	5.20E-10	CTSD	cathepsin D [Source:HGNC Symbol;Acc:2529]
2869	ENSG00000129518	895.5462742	0.796054758	0.122466247	5.23E-10	EAPP	E2F-associated phosphoprotein [Source:HGNC Symbol;Acc:19312]
2870	ENSG00000103154	274.8630851	1.33046901	0.204747854	5.30E-10	NECAB2	N-terminal EF-hand calcium binding protein 2 [Source:HGNC Symbol;Acc:23746]
2871	ENSG00000103222	1568.324786	0.569280599	0.087633714	5.37E-10	ABCC1	ATP-binding cassette, sub-family C (CFTR/MRP), member 1 [Source:HGNC Symbol;Acc:51]
2872	ENSG00000181804	138.433159	1.784081744	0.274657827	5.39E-10	SLC9A9	solute carrier family 9, subfamily A (NHE9, cation proton antiporter 9), member 9 [Source:HGNC Symbol;Acc:20653]
2873	ENSG00000170909	371.2284774	-1.059543053	0.163216704	5.53E-10	OSCAR	osteoclast associated, immunoglobulin-like receptor [Source:HGNC Symbol;Acc:29960]
2874	ENSG00000272919	371.2273188	-1.059509448	0.163216918	5.54E-10	OSCAR	osteoclast associated, immunoglobulin-like receptor [Source:HGNC Symbol;Acc:29960]
2875	ENSG00000272833	371.227218	-1.059511072	0.16321792	5.54E-10	OSCAR	osteoclast associated, immunoglobulin-like receptor [Source:HGNC Symbol;Acc:29960]
2876	ENSG00000242711	545.6531888	1.007826447	0.155270739	5.56E-10	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 [Source:HGNC Symbol;Acc:9546]
2877	ENSG00000179855	49.85194915	2.732322956	0.420958257	5.56E-10	GIPC3	GIPC PDZ domain containing family, member 3 [Source:HGNC Symbol;Acc:18183]
2878	ENSG00000133818	135.3472246	1.902031217	0.293109896	5.61E-10	RRAS2	related RAS viral (r-ras) oncogene homolog 2 [Source:HGNC Symbol;Acc:17271]

2879	ENSG00000272891	371.3787816	-1.059516706	0.163283432	5.62E-10	OSCAR	osteoclast associated, immunoglobulin-like receptor [Source:HGNC Symbol;Acc:29960]
2880	ENSG00000273239	371.3783675	-1.059491926	0.163282542	5.63E-10	OSCAR	osteoclast associated, immunoglobulin-like receptor [Source:HGNC Symbol;Acc:29960]
2881	ENSG00000181523	717.6001606	0.898921041	0.138573637	5.69E-10	SGSH	N-sulfoglucosamine sulfohydrolase [Source:HGNC Symbol;Acc:10818]
2882	ENSG00000125510	546.578684	-1.115244761	0.171932032	5.70E-10	OPRL1	opiate receptor-like 1 [Source:HGNC Symbol;Acc:8155]
2883	ENSG00000014138	601.7937686	-0.886497915	0.13666788	5.70E-10	POLA2	polymerase (DNA directed), alpha 2, accessory subunit [Source:HGNC Symbol;Acc:30073]
2884	ENSG00000169129	74.46605425	2.454145878	0.378361524	5.71E-10	AFAP1L2	actin filament associated protein 1-like 2 [Source:HGNC Symbol;Acc:25901]
2885	ENSG00000273074	371.2417575	-1.059547035	0.163393669	5.77E-10	OSCAR	osteoclast associated, immunoglobulin-like receptor [Source:HGNC Symbol;Acc:29960]
2886	ENSG00000104332	119.3907447	-1.869830094	0.288362906	5.78E-10	SFRP1	secreted frizzled-related protein 1 [Source:HGNC Symbol;Acc:10776]
2887	ENSG00000273380	371.2393583	-1.059471069	0.163393665	5.78E-10	OSCAR	osteoclast associated, immunoglobulin-like receptor [Source:HGNC Symbol;Acc:29960]
2888	ENSG00000273222	371.2391287	-1.059461547	0.163392943	5.78E-10	OSCAR	osteoclast associated, immunoglobulin-like receptor [Source:HGNC Symbol;Acc:29960]
2889	ENSG00000273268	371.239064	-1.059458504	0.163393248	5.78E-10	OSCAR	osteoclast associated, immunoglobulin-like receptor [Source:HGNC Symbol;Acc:29960]
2890	ENSG00000004399	928.7544288	0.783926316	0.120998219	5.99E-10	PLXND1	plexin D1 [Source:HGNC Symbol;Acc:9107]
2891	ENSG00000166847	1169.338168	-0.701198316	0.10825191	6.04E-10	DCTN5	dynactin 5 (p25) [Source:HGNC Symbol;Acc:24594]
2892	ENSG00000156509	100.9664348	-2.051547749	0.316843851	6.14E-10	FBXO43	F-box protein 43 [Source:HGNC Symbol;Acc:28521]
2893	ENSG00000132199	1167.427428	-0.633671201	0.097894562	6.22E-10	ENOSF1	enolase superfamily member 1 [Source:HGNC Symbol;Acc:30365]
2894	ENSG00000184205	425.7194108	1.012613839	0.156487153	6.30E-10	TSPYL2	TSPY-like 2 [Source:HGNC Symbol;Acc:24358]
2895	ENSG00000171860	996.3034119	-0.688583478	0.10641389	6.30E-10	C3AR1	complement component 3a receptor 1 [Source:HGNC Symbol;Acc:1319]
2896	ENSG00000165609	1484.686177	0.737801715	0.114048446	6.36E-10	NUDT5	nudix (nucleoside diphosphate linked moiety X)-type motif 5 [Source:HGNC Symbol;Acc:8052]
2897	ENSG00000104973	1556.742752	0.66451369	0.102719819	6.36E-10	MED25	mediator complex subunit 25 [Source:HGNC Symbol;Acc:28845]
2898	ENSG00000116791	219.5126696	1.449751018	0.224125219	6.39E-10	CRYZ	crystallin, zeta (quinone reductase) [Source:HGNC Symbol;Acc:2419]
2899	ENSG00000139675	252.0301156	1.375955022	0.212758652	6.44E-10	HNRNPA1L2	heterogeneous nuclear ribonucleoprotein A1-like 2 [Source:HGNC Symbol;Acc:27067]
2900	ENSG00000143158	912.0283035	-0.769934818	0.119117281	6.59E-10	MPC2	mitochondrial pyruvate carrier 2 [Source:HGNC Symbol;Acc:24515]
2901	ENSG00000179222	263.6372137	1.245884506	0.192844369	6.73E-10	MAGED1	melanoma antigen family D, 1 [Source:HGNC Symbol;Acc:6813]
2902	ENSG00000168288	1654.305022	-0.618328358	0.095753787	6.87E-10	MMADHC	methylmalonic aciduria (cobalamin deficiency) cblD type, with homocystinuria [Source:HGNC Symbol;Acc:25221]
2903	ENSG00000108679	355.592068	1.181478298	0.183097259	7.08E-10	LGALS3BP	lectin, galactoside-binding, soluble, 3 binding protein [Source:HGNC Symbol;Acc:6564]
2904	ENSG00000213782	719.4824232	0.861471208	0.133532536	7.14E-10	DDX47	DEAD (Asp-Glu-Ala-Asp) box polypeptide 47 [Source:HGNC Symbol;Acc:18682]
2905	ENSG00000268018	263.4034303	1.243700537	0.192850939	7.25E-10	MAGED1	melanoma antigen family D, 1 [Source:HGNC Symbol;Acc:6813]
2906	ENSG00000183250	146.5466755	-1.646460137	0.255312111	7.26E-10	C21orf67	chromosome 21 open reading frame 67 [Source:HGNC Symbol;Acc:15707]

2907	ENSG00000196352	2685.356053	-0.526159167	0.081603086	7.31E-10	CD55	CD55 molecule, decay accelerating factor for complement (Cromer blood group) [Source:HGNC Symbol;Acc:2665]
2908	ENSG00000105939	3131.456881	0.475369972	0.073752531	7.42E-10	ZC3HAV1	zinc finger CCCH-type, antiviral 1 [Source:HGNC Symbol;Acc:23721]
2909	ENSG00000166130	955.1613906	0.73740603	0.114410163	7.42E-10	IKBIP	IKBKB interacting protein [Source:HGNC Symbol;Acc:26430]
2910	ENSG00000268269	426.0338089	1.008983971	0.156616159	7.56E-10	TSPYL2	TSPY-like 2 [Source:HGNC Symbol;Acc:24358]
2911	ENSG00000133026	318.1808072	-1.336952253	0.20754432	7.59E-10	MYH10	myosin, heavy chain 10, non-muscle [Source:HGNC Symbol;Acc:7568]
2912	ENSG00000061676	132.0979804	1.786002654	0.277401422	7.76E-10	NCKAP1	NCK-associated protein 1 [Source:HGNC Symbol;Acc:7666]
2913	ENSG00000139116	175.8883759	1.768157194	0.274686481	7.83E-10	KIF21A	kinesin family member 21A [Source:HGNC Symbol;Acc:19349]
2914	ENSG00000264364	2117.13679	0.506292816	0.078656301	7.84E-10	DYNLL2	dynein, light chain, LC8-type 2 [Source:HGNC Symbol;Acc:24596]
2915	ENSG00000059588	1149.83895	0.736358882	0.114430124	7.93E-10	TARBP1	TAR (HIV-1) RNA binding protein 1 [Source:HGNC Symbol;Acc:11568]
2916	ENSG00000262960	938.7359982	-0.753638454	0.117139169	7.99E-10	NCF1C	neutrophil cytosolic factor 1C pseudogene [Source:HGNC Symbol;Acc:32523]
2917	ENSG00000137267	44.1766411	-2.794744975	0.434409507	8.00E-10	TUBB2A	tubulin, beta 2A class IIa [Source:HGNC Symbol;Acc:12412]
2918	ENSG00000120733	4104.97988	-0.397039493	0.061733393	8.10E-10	KDM3B	lysine (K)-specific demethylase 3B [Source:HGNC Symbol;Acc:1337]
2919	ENSG00000248124	394.6176831	1.142769445	0.177723571	8.18E-10	RRN3P1	RNA polymerase I transcription factor homolog ( <i>S. cerevisiae</i> ) pseudogene 1 [Source:HGNC Symbol;Acc:30548]
2920	ENSG00000262556	63.27569434	2.572929809	0.400162329	8.19E-10	KIR2DL1	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 1 [Source:HGNC Symbol;Acc:6329]
2921	ENSG00000119401	112.8304521	1.95917402	0.304752574	8.24E-10	TRIM32	tripartite motif containing 32 [Source:HGNC Symbol;Acc:16380]
2922	ENSG00000106665	132.4144947	1.852689017	0.28825133	8.32E-10	CLIP2	CAP-GLY domain containing linker protein 2 [Source:HGNC Symbol;Acc:2586]
2923	ENSG00000263226	132.411862	1.852667255	0.288249802	8.32E-10	CLIP2	CAP-GLY domain containing linker protein 2 [Source:HGNC Symbol;Acc:2586]
2924	ENSG00000128000	901.8012139	-0.790023847	0.12294115	8.38E-10	ZNF780B	zinc finger protein 780B [Source:HGNC Symbol;Acc:33109]
2925	ENSG00000176928	86.72847338	2.287118261	0.355961485	8.43E-10	GCNT4	glucosaminyl (N-acetyl) transferase 4, core 2 [Source:HGNC Symbol;Acc:17973]
2926	ENSG00000001561	950.7378726	-0.754003167	0.117360369	8.45E-10	ENPP4	ectonucleotide pyrophosphatase/phosphodiesterase 4 (putative) [Source:HGNC Symbol;Acc:3359]
2927	ENSG00000131401	148.0684094	1.744904651	0.271688592	8.57E-10	NAPSB	napsin B aspartic peptidase, pseudogene [Source:HGNC Symbol;Acc:13396]
2928	ENSG00000165304	126.0931509	-1.812871147	0.282347633	8.67E-10	MELK	maternal embryonic leucine zipper kinase [Source:HGNC Symbol;Acc:16870]
2929	ENSG00000155849	2227.210847	-0.550266495	0.085706857	8.69E-10	ELMO1	engulfment and cell motility 1 [Source:HGNC Symbol;Acc:16286]
2930	ENSG00000163348	1144.894324	0.641076839	0.099878258	8.79E-10	PYGO2	pygopus family PHD finger 2 [Source:HGNC Symbol;Acc:30257]
2931	ENSG00000189079	1160.209752	-0.680066658	0.105961513	8.81E-10	ARID2	AT rich interactive domain 2 (ARID, RFX-like) [Source:HGNC Symbol;Acc:18037]
2932	ENSG00000120262	409.0195994	-1.141034587	0.177836741	8.92E-10	CCDC170	coiled-coil domain containing 170 [Source:HGNC Symbol;Acc:21177]
2933	ENSG00000204852	335.0745581	1.218320706	0.189927711	9.01E-10	TCTN1	tectonic family member 1 [Source:HGNC Symbol;Acc:26113]
2934	ENSG00000162341	1348.319165	-0.617698579	0.096296746	9.01E-10	TPCN2	two pore segment channel 2 [Source:HGNC Symbol;Acc:20820]

2935	ENSG00000142192	2479.083244	-0.505605238	0.078822814	9.01E-10	APP	amyloid beta (A4) precursor protein [Source:HGNC Symbol;Acc:620]
2936	ENSG00000188177	833.9297094	-0.745210093	0.11619978	9.08E-10	ZC3H6	zinc finger CCCH-type containing 6 [Source:HGNC Symbol;Acc:24762]
2937	ENSG00000137265	245.9251993	1.321281859	0.206058553	9.14E-10	IRF4	interferon regulatory factor 4 [Source:HGNC Symbol;Acc:6119]
2938	ENSG00000204219	61.04424007	2.567077742	0.400384838	9.18E-10	TCEA3	transcription elongation factor A (SII), 3 [Source:HGNC Symbol;Acc:11615]
2939	ENSG00000133961	5965.743553	0.362500621	0.056554224	9.28E-10	NUMB	numb homolog (Drosophila) [Source:HGNC Symbol;Acc:8060]
2940	ENSG00000154920	128.1882099	-1.721940704	0.268712504	9.38E-10	EME1	essential meiotic structure-specific endonuclease 1 [Source:HGNC Symbol;Acc:24965]
2941	ENSG00000106009	691.2514895	1.078595678	0.1683398	9.43E-10	BRAT1	BRCA1-associated ATM activator 1 [Source:HGNC Symbol;Acc:21701]
2942	ENSG00000134759	846.9619221	0.820508636	0.128070924	9.46E-10	ELP2	elongator acetyltransferase complex subunit 2 [Source:HGNC Symbol;Acc:18248]
2943	ENSG00000168758	268.4817744	1.381592988	0.215718695	9.59E-10	SEMA4C	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4C [Source:HGNC Symbol;Acc:10731]
2944	ENSG00000076555	470.7793687	-0.97459721	0.152207369	9.68E-10	ACACB	acetyl-CoA carboxylase beta [Source:HGNC Symbol;Acc:85]
2945	ENSG00000213073	480.4666532	-0.967996265	0.151203524	9.75E-10	RP11-288H12.3	
2946	ENSG00000102445	1420.784731	0.619414509	0.096799716	9.94E-10	KIAA0226L	KIAA0226-like [Source:HGNC Symbol;Acc:20420]
2947	ENSG00000159884	250.7669773	1.327927661	0.20762231	1.01E-09	CCDC107	coiled-coil domain containing 107 [Source:HGNC Symbol;Acc:28465]
2948	ENSG00000104320	2337.872527	-0.682310226	0.106726559	1.03E-09	NBN	nibrin [Source:HGNC Symbol;Acc:7652]
2949	ENSG00000197530	522.6868055	1.387030703	0.216976084	1.04E-09	MIB2	mindbomb E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:30577]
2950	ENSG00000132561	118.769361	-2.052393652	0.321281867	1.07E-09	MATN2	matrilin 2 [Source:HGNC Symbol;Acc:6908]
2951	ENSG00000111670	1846.034616	0.547557848	0.085769807	1.09E-09	GNPTAB	N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits [Source:HGNC Symbol;Acc:29670]
2952	ENSG00000088179	956.9393006	0.866235808	0.135780063	1.12E-09	PTPN4	protein tyrosine phosphatase, non-receptor type 4 (megakaryocyte) [Source:HGNC Symbol;Acc:9656]
2953	ENSG00000170854	260.5368235	1.331220242	0.208842286	1.16E-09	MINA	MYC induced nuclear antigen [Source:HGNC Symbol;Acc:19441]
2954	ENSG00000159720	4890.116733	-0.392413992	0.061567323	1.17E-09	ATP6V0D1	ATPase, H+ transporting, lysosomal 38kDa, V0 subunit d1 [Source:HGNC Symbol;Acc:13724]
2955	ENSG00000128266	55.34505869	2.633967246	0.413381713	1.18E-09	GNAZ	guanine nucleotide binding protein (G protein), alpha z polypeptide [Source:HGNC Symbol;Acc:4395]
2956	ENSG00000204592	1356.340818	0.861157639	0.135187261	1.20E-09	HLA-E	major histocompatibility complex, class I, E [Source:HGNC Symbol;Acc:4962]
2957	ENSG00000225201	1356.337159	0.861129258	0.135184686	1.20E-09	HLA-E	major histocompatibility complex, class I, E [Source:HGNC Symbol;Acc:4962]
2958	ENSG00000236632	1356.331574	0.861090427	0.13518363	1.20E-09	HLA-E	major histocompatibility complex, class I, E [Source:HGNC Symbol;Acc:4962]
2959	ENSG00000184117	462.6841855	0.991806553	0.155764411	1.22E-09	NIPSNAP1	nipsnap homolog 1 (C. elegans) [Source:HGNC Symbol;Acc:7827]
2960	ENSG00000130208	26.09287806	-3.262116982	0.512355948	1.22E-09	APOC1	apolipoprotein C-I [Source:HGNC Symbol;Acc:607]
2961	ENSG00000133612	366.7776636	1.083310142	0.170153584	1.22E-09	AGAP3	ArfGAP with GTPase domain, ankyrin repeat and PH domain 3 [Source:HGNC Symbol;Acc:16923]
2962	ENSG00000101335	92.95023818	2.028905549	0.318744214	1.23E-09	MYL9	myosin, light chain 9, regulatory [Source:HGNC Symbol;Acc:15754]



2963	ENSG00000136720	251.2025354	1.393046834	0.218868411	1.24E-09	HS6ST1	heparan sulfate 6-O-sulfotransferase 1 [Source:HGNC Symbol;Acc:5201]
2964	ENSG00000165025	5819.133449	-0.375623927	0.059024633	1.24E-09	SYK	spleen tyrosine kinase [Source:HGNC Symbol;Acc:11491]
2965	ENSG00000164323	432.7365625	1.011374295	0.158926157	1.24E-09	KIAA1430	KIAA1430 [Source:HGNC Symbol;Acc:29276]
2966	ENSG00000130684	792.5274691	0.743622868	0.116866376	1.25E-09	ZNF337	zinc finger protein 337 [Source:HGNC Symbol;Acc:15809]
2967	ENSG00000186810	81.74972116	2.482146322	0.390237462	1.27E-09	CXCR3	chemokine (C-X-C motif) receptor 3 [Source:HGNC Symbol;Acc:4540]
2968	ENSG00000132334	6354.285412	-0.358145576	0.056315425	1.28E-09	PTPRE	protein tyrosine phosphatase, receptor type, E [Source:HGNC Symbol;Acc:9669]
2969	ENSG00000197140	739.5683127	-0.849649554	0.133610248	1.28E-09	ADAM32	ADAM metalloproteinase domain 32 [Source:HGNC Symbol;Acc:15479]
2970	ENSG00000136261	470.5483641	0.959145114	0.150845474	1.28E-09	BZW2	basic leucine zipper and W2 domains 2 [Source:HGNC Symbol;Acc:18808]
2971	ENSG00000035720	162.6648956	1.544420816	0.242913421	1.29E-09	STAP1	signal transducing adaptor family member 1 [Source:HGNC Symbol;Acc:24133]
2972	ENSG00000183684	504.6844612	-0.979950956	0.154143938	1.29E-09	ALYREF	Aly/REF export factor [Source:HGNC Symbol;Acc:19071]
2973	ENSG00000198018	176.4576782	-1.518361868	0.238856481	1.30E-09	ENTPD7	ectonucleoside triphosphate diphosphohydrolase 7 [Source:HGNC Symbol;Acc:19745]
2974	ENSG00000135127	217.1632363	1.453719129	0.22875045	1.31E-09	CCDC64	coiled-coil domain containing 64 [Source:HGNC Symbol;Acc:28095]
2975	ENSG00000100321	401.8808531	-1.063344855	0.167421603	1.34E-09	SYNGR1	synaptogyrin 1 [Source:HGNC Symbol;Acc:11498]
2976	ENSG00000185864	1501.663471	-0.627296957	0.098776735	1.35E-09	NPIPB4	nuclear pore complex interacting protein family, member B4 [Source:HGNC Symbol;Acc:41985]
2977	ENSG00000123405	5627.326275	-0.387968013	0.061101523	1.36E-09	NFE2	nuclear factor, erythroid 2 [Source:HGNC Symbol;Acc:7780]
2978	ENSG00000168610	6887.226157	-0.343985342	0.054181859	1.36E-09	STAT3	signal transducer and activator of transcription 3 (acute-phase response factor) [Source:HGNC Symbol;Acc:11364]
2979	ENSG00000006047	17.09659201	-3.565515986	0.561776756	1.38E-09	YBX2	Y box binding protein 2 [Source:HGNC Symbol;Acc:17948]
2980	ENSG00000172939	2304.60811	-0.537963306	0.084789538	1.40E-09	OXS1	oxidative stress responsive 1 [Source:HGNC Symbol;Acc:8508]
2981	ENSG00000182168	18.98639454	3.508305932	0.553259207	1.43E-09	UNC5C	unc-5 homolog C (C. elegans) [Source:HGNC Symbol;Acc:12569]
2982	ENSG00000009307	7820.192589	0.353592656	0.055783784	1.45E-09	CSDE1	cold shock domain containing E1, RNA-binding [Source:HGNC Symbol;Acc:29905]
2983	ENSG00000113851	1355.625666	0.65155419	0.102829999	1.48E-09	CRBN	cereblon [Source:HGNC Symbol;Acc:30185]
2984	ENSG00000114503	894.9701911	0.726117826	0.114618758	1.49E-09	NCBP2	nuclear cap binding protein subunit 2, 20kDa [Source:HGNC Symbol;Acc:7659]
2985	ENSG00000090554	335.1694198	1.191311754	0.188104716	1.51E-09	FLT3LG	fms-related tyrosine kinase 3 ligand [Source:HGNC Symbol;Acc:3766]
2986	ENSG00000182810	235.7401066	1.367516368	0.216216438	1.59E-09	DDX28	DEAD (Asp-Glu-Ala-Asp) box polypeptide 28 [Source:HGNC Symbol;Acc:17330]
2987	ENSG00000115935	11435.00903	0.326285247	0.051596249	1.60E-09	WIPF1	WAS/WASL interacting protein family, member 1 [Source:HGNC Symbol;Acc:12736]
2988	ENSG00000125629	718.7151749	-0.903009874	0.142823144	1.61E-09	INSIG2	insulin induced gene 2 [Source:HGNC Symbol;Acc:20452]
2989	ENSG00000111786	3746.295296	-0.400392744	0.063368639	1.65E-09	SRSF9	serine/arginine-rich splicing factor 9 [Source:HGNC Symbol;Acc:10791]
2990	ENSG00000115902	492.8413987	-0.926637884	0.146679049	1.66E-09	SLC1A4	solute carrier family 1 (glutamate/neutral amino acid transporter), member 4 [Source:HGNC Symbol;Acc:10942]

2991	ENSG00000141720	1563.058667	0.579462639	0.091746793	1.68E-09	PIP4K2B	phosphatidylinositol-5-phosphate 4-kinase, type II, beta [Source:HGNC Symbol;Acc:8998]
2992	ENSG00000078304	4935.535467	0.407963056	0.064593428	1.68E-09	PPP2R5C	protein phosphatase 2, regulatory subunit B', gamma [Source:HGNC Symbol;Acc:9311]
2993	ENSG00000134324	834.9819105	0.922704209	0.146094313	1.68E-09	LPIN1	lipin 1 [Source:HGNC Symbol;Acc:13345]
2994	ENSG00000143545	798.2053537	-0.766375062	0.121369875	1.70E-09	RAB13	RAB13, member RAS oncogene family [Source:HGNC Symbol;Acc:9762]
2995	ENSG00000271601	896.2136361	0.815644621	0.129175902	1.70E-09	AC243547.1	
2996	ENSG00000139636	1728.046987	0.545743338	0.086443726	1.71E-09	LMBR1L	limb development membrane protein 1-like [Source:HGNC Symbol;Acc:18268]
2997	ENSG00000197403	101.4674658	-1.930873834	0.305846087	1.71E-09	OR6N1	olfactory receptor, family 6, subfamily N, member 1 [Source:HGNC Symbol;Acc:15034]
2998	ENSG00000159176	1059.403115	-0.643933543	0.102061815	1.75E-09	CSRP1	cysteine and glycine-rich protein 1 [Source:HGNC Symbol;Acc:2469]
2999	ENSG00000169564	8191.016586	0.322965952	0.05119067	1.75E-09	PCBP1	poly(rC) binding protein 1 [Source:HGNC Symbol;Acc:8647]
3000	ENSG00000149925	13521.82456	-0.486280648	0.077086458	1.76E-09	ALDOA	aldolase A, fructose-bisphosphate [Source:HGNC Symbol;Acc:414]
3001	ENSG00000161920	361.4399646	1.082499809	0.171615934	1.77E-09	MED11	mediator complex subunit 11 [Source:HGNC Symbol;Acc:32687]
3002	ENSG00000262523	146.8806505	1.669632272	0.264763839	1.78E-09	ENDOD1	endonuclease domain containing 1 [Source:HGNC Symbol;Acc:29129]
3003	ENSG00000215580	171.8939073	1.547267913	0.245369987	1.79E-09	BCORP1	BCL6 corepressor pseudogene 1 [Source:HGNC Symbol;Acc:23953]
3004	ENSG00000185022	168.0749862	-1.524757003	0.241838782	1.80E-09	MAFF	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog F [Source:HGNC Symbol;Acc:6780]
3005	ENSG00000169583	37.82748022	3.157794861	0.500933275	1.81E-09	CLIC3	chloride intracellular channel 3 [Source:HGNC Symbol;Acc:2064]
3006	ENSG00000157216	1060.764972	0.732079349	0.116235734	1.87E-09	SSBP3	single stranded DNA binding protein 3 [Source:HGNC Symbol;Acc:15674]
3007	ENSG00000124782	1223.156099	-0.647507554	0.102862292	1.91E-09	RREB1	ras responsive element binding protein 1 [Source:HGNC Symbol;Acc:10449]
3008	ENSG00000102871	541.3527824	0.87945286	0.139743517	1.93E-09	TRADD	TNFRSF1A-associated via death domain [Source:HGNC Symbol;Acc:12030]
3009	ENSG00000204634	625.198692	-0.895995509	0.142468023	1.99E-09	TBC1D8	TBC1 domain family, member 8 (with GRAM domain) [Source:HGNC Symbol;Acc:17791]
3010	ENSG00000171490	1282.05221	0.672770387	0.106988209	2.00E-09	RSL1D1	ribosomal L1 domain containing 1 [Source:HGNC Symbol;Acc:24534]
3011	ENSG00000180884	199.0064483	1.47571277	0.234715244	2.01E-09	ZNF792	zinc finger protein 792 [Source:HGNC Symbol;Acc:24751]
3012	ENSG00000179750	145.2002821	-1.627883218	0.259021933	2.04E-09	APOBEC3B	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3B [Source:HGNC Symbol;Acc:17352]
3013	ENSG00000161326	74.58631577	2.230400038	0.355083733	2.08E-09	DUSP14	dual specificity phosphatase 14 [Source:HGNC Symbol;Acc:17007]
3014	ENSG00000189283	139.3393921	1.799737836	0.286602173	2.11E-09	FHIT	fragile histidine triad [Source:HGNC Symbol;Acc:3701]
3015	ENSG00000183010	42.03982661	-2.794455454	0.445017009	2.11E-09	PYCR1	pyrroline-5-carboxylate reductase 1 [Source:HGNC Symbol;Acc:9721]
3016	ENSG00000182087	2215.67488	0.570663641	0.090926708	2.15E-09	TMEM259	transmembrane protein 259 [Source:HGNC Symbol;Acc:17039]
3017	ENSG00000255529	530.7919253	1.080030653	0.172095657	2.16E-09	POLR2M	polymerase (RNA) II (DNA directed) polypeptide M [Source:HGNC Symbol;Acc:14862]
3018	ENSG00000164164	1224.701876	0.629557706	0.100365078	2.20E-09	OTUD4	OTU domain containing 4 [Source:HGNC Symbol;Acc:24949]

3019	ENSG00000203880	2059.726646	0.512717343	0.081751683	2.21E-09	PCMTD2	protein-L-isoaspartate (D-aspartate) O-methyltransferase domain containing 2 [Source:HGNC Symbol;Acc:15882]
3020	ENSG00000102575	196.0897305	1.558626638	0.24860346	2.24E-09	ACP5	acid phosphatase 5, tartrate resistant [Source:HGNC Symbol;Acc:124]
3021	ENSG00000129810	111.3847189	-1.839270008	0.293414595	2.26E-09	SGOL1	shugoshin-like 1 (S. pombe) [Source:HGNC Symbol;Acc:25088]
3022	ENSG00000165533	161.8700999	-1.580620066	0.252299394	2.31E-09	TTC8	tetratricopeptide repeat domain 8 [Source:HGNC Symbol;Acc:20087]
3023	ENSG00000162599	128.1368904	-1.860634752	0.297042227	2.32E-09	NFIA	nuclear factor I/A [Source:HGNC Symbol;Acc:7784]
3024	ENSG00000269837	147.0170495	1.805714724	0.288423142	2.37E-09	RP11-15H20.5	
3025	ENSG00000205045	523.4469115	0.937403674	0.149756461	2.39E-09	SLFN12L	schlafen family member 12-like [Source:HGNC Symbol;Acc:33920]
3026	ENSG00000186298	2613.301508	0.519130192	0.082970012	2.43E-09	PPP1CC	protein phosphatase 1, catalytic subunit, gamma isozyme [Source:HGNC Symbol;Acc:9283]
3027	ENSG00000262327	308.8365852	1.233462014	0.197164991	2.44E-09	AGK	acylglycerol kinase [Source:HGNC Symbol;Acc:21869]
3028	ENSG00000235505	224.8769309	1.381662012	0.220877315	2.45E-09	RP11-693N9.2	
3029	ENSG00000134824	631.9377324	-0.798129172	0.127614015	2.47E-09	FADS2	fatty acid desaturase 2 [Source:HGNC Symbol;Acc:3575]
3030	ENSG00000170074	312.6823028	1.420264873	0.227209278	2.52E-09	FAM153A	family with sequence similarity 153, member A [Source:HGNC Symbol;Acc:29940]
3031	ENSG00000175198	236.7707831	1.534957634	0.245598113	2.54E-09	PCCA	propionyl CoA carboxylase, alpha polypeptide [Source:HGNC Symbol;Acc:8653]
3032	ENSG00000076928	12255.99561	-0.444066363	0.071074644	2.57E-09	ARHGEF1	Rho guanine nucleotide exchange factor (GEF) 1 [Source:HGNC Symbol;Acc:681]
3033	ENSG00000174125	2437.69574	0.487717222	0.078079005	2.59E-09	TLR1	toll-like receptor 1 [Source:HGNC Symbol;Acc:11847]
3034	ENSG00000196247	873.7883487	0.73801837	0.118258882	2.69E-09	ZNF107	zinc finger protein 107 [Source:HGNC Symbol;Acc:12887]
3035	ENSG00000138190	1177.260681	-0.69609587	0.11157124	2.71E-09	EXOC6	exocyst complex component 6 [Source:HGNC Symbol;Acc:23196]
3036	ENSG00000123219	297.923555	-1.159442036	0.18583704	2.71E-09	CENPK	centromere protein K [Source:HGNC Symbol;Acc:29479]
3037	ENSG00000150712	643.6963581	0.865488116	0.138729143	2.72E-09	MTMR12	myotubularin related protein 12 [Source:HGNC Symbol;Acc:18191]
3038	ENSG00000149218	147.5487043	1.647676498	0.264124999	2.73E-09	ENDOD1	endonuclease domain containing 1 [Source:HGNC Symbol;Acc:29129]
3039	ENSG00000090006	218.2967142	1.588544076	0.25471421	2.75E-09	LTPB4	latent transforming growth factor beta binding protein 4 [Source:HGNC Symbol;Acc:6717]
3040	ENSG00000151151	1069.097526	0.672290637	0.107826124	2.78E-09	IPMK	inositol polyphosphate multikinase [Source:HGNC Symbol;Acc:20739]
3041	ENSG00000164136	163.3145124	1.620570479	0.259922973	2.78E-09	IL15	interleukin 15 [Source:HGNC Symbol;Acc:5977]
3042	ENSG00000175183	213.9076961	1.749354254	0.28059331	2.79E-09	CSRP2	cysteine and glycine-rich protein 2 [Source:HGNC Symbol;Acc:2470]
3043	ENSG00000116903	1183.009242	0.634132694	0.101746727	2.82E-09	EXOC8	exocyst complex component 8 [Source:HGNC Symbol;Acc:24659]
3044	ENSG00000118495	969.4232503	-0.667529075	0.107132009	2.85E-09	PLAGL1	pleiomorphic adenoma gene-like 1 [Source:HGNC Symbol;Acc:9046]
3045	ENSG00000103326	505.3023647	1.006437323	0.161563946	2.88E-09	CAPN15	calpain 15 [Source:HGNC Symbol;Acc:11182]
3046	ENSG00000068745	1287.786449	0.660098892	0.106017323	2.93E-09	IP6K2	inositol hexakisphosphate kinase 2 [Source:HGNC Symbol;Acc:17313]

3047	ENSG00000148356	691.0200779	-0.853701042	0.137146155	2.96E-09	LRSAM1	leucine rich repeat and sterile alpha motif containing 1 [Source:HGNC Symbol;Acc:25135]
3048	ENSG00000031003	1295.464853	0.642834317	0.103327503	3.03E-09	FAM13B	family with sequence similarity 13, member B [Source:HGNC Symbol;Acc:1335]
3049	ENSG00000242247	1065.525955	0.638487852	0.102630242	3.03E-09	ARFGAP3	ADP-ribosylation factor GTPase activating protein 3 [Source:HGNC Symbol;Acc:661]
3050	ENSG00000171132	237.8926799	1.336092562	0.214780507	3.04E-09	PRKCE	protein kinase C, epsilon [Source:HGNC Symbol;Acc:9401]
3051	ENSG00000006530	309.5762277	1.225862683	0.197080168	3.05E-09	AGK	acylglycerol kinase [Source:HGNC Symbol;Acc:21869]
3052	ENSG00000105186	808.2115181	-0.853474218	0.137216712	3.05E-09	ANKRD27	ankyrin repeat domain 27 (VPS9 domain) [Source:HGNC Symbol;Acc:25310]
3053	ENSG00000100721	326.9790744	1.123056252	0.180591626	3.07E-09	TCL1A	T-cell leukemia/lymphoma 1A [Source:HGNC Symbol;Acc:11648]
3054	ENSG00000151474	348.9613092	-1.16358473	0.187197015	3.13E-09	FRMD4A	FERM domain containing 4A [Source:HGNC Symbol;Acc:25491]
3055	ENSG00000161888	268.0882637	-1.482566867	0.238549467	3.15E-09	SPC24	SPC24, NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:26913]
3056	ENSG00000101298	82.33038995	2.372946085	0.382141709	3.25E-09	SNPH	syntaphilin [Source:HGNC Symbol;Acc:15931]
3057	ENSG00000119915	73.66995803	-2.208451992	0.355701386	3.27E-09	ELOVL3	ELOVL fatty acid elongase 3 [Source:HGNC Symbol;Acc:18047]
3058	ENSG00000129450	1249.44607	-0.600570157	0.096734458	3.27E-09	SIGLEC9	sialic acid binding Ig-like lectin 9 [Source:HGNC Symbol;Acc:10878]
3059	ENSG00000100823	1540.391077	0.550231113	0.088701203	3.38E-09	APEX1	APEX nuclease (multifunctional DNA repair enzyme) 1 [Source:HGNC Symbol;Acc:587]
3060	ENSG00000088826	76.27034544	2.291277952	0.369416489	3.40E-09	SMOX	spermine oxidase [Source:HGNC Symbol;Acc:15862]
3061	ENSG00000076662	15746.66831	0.32966527	0.053183488	3.48E-09	ICAM3	intercellular adhesion molecule 3 [Source:HGNC Symbol;Acc:5346]
3062	ENSG00000134285	930.143406	0.72112869	0.116383096	3.54E-09	FKBP11	FK506 binding protein 11, 19 kDa [Source:HGNC Symbol;Acc:18624]
3063	ENSG00000162407	96.00504839	-1.941861773	0.313410081	3.54E-09	PPAP2B	phosphatidic acid phosphatase type 2B [Source:HGNC Symbol;Acc:9229]
3064	ENSG00000183763	108.6160864	-1.774477722	0.286485025	3.58E-09	TRAIIP	TRAF interacting protein [Source:HGNC Symbol;Acc:30764]
3065	ENSG00000147044	184.3467623	1.742833088	0.281378394	3.58E-09	CASK	calcium/calmodulin-dependent serine protein kinase (MAGUK family) [Source:HGNC Symbol;Acc:1497]
3066	ENSG00000140612	1949.8834	-0.521388002	0.084211749	3.64E-09	SEC11A	SEC11 homolog A (S. cerevisiae) [Source:HGNC Symbol;Acc:17718]
3067	ENSG00000111247	191.9918216	-1.502023096	0.242790341	3.75E-09	RAD51AP1	RAD51 associated protein 1 [Source:HGNC Symbol;Acc:16956]
3068	ENSG00000167513	155.4624801	-1.625886884	0.263034187	3.88E-09	CDT1	chromatin licensing and DNA replication factor 1 [Source:HGNC Symbol;Acc:24576]
3069	ENSG00000137575	15533.72482	0.322461729	0.052174834	3.90E-09	SDCBP	syndecan binding protein (syntenin) [Source:HGNC Symbol;Acc:10662]
3070	ENSG00000075826	1910.365459	-0.534341801	0.086461302	3.90E-09	SEC31B	SEC31 homolog B (S. cerevisiae) [Source:HGNC Symbol;Acc:23197]
3071	ENSG00000167851	3377.325022	0.421318794	0.068185564	3.93E-09	CD300A	CD300a molecule [Source:HGNC Symbol;Acc:19319]
3072	ENSG00000134250	6310.996832	0.350132757	0.056720377	4.08E-09	NOTCH2	notch 2 [Source:HGNC Symbol;Acc:7882]
3073	ENSG00000121104	1465.25948	0.580225413	0.094018438	4.12E-09	FAM117A	family with sequence similarity 117, member A [Source:HGNC Symbol;Acc:24179]
3074	ENSG00000068793	314.5169966	1.198726703	0.194260604	4.14E-09	CYFIP1	cytoplasmic FMR1 interacting protein 1 [Source:HGNC Symbol;Acc:13759]

3075	ENSG00000103472	200.4221956	-1.367630905	0.221669706	4.16E-09	RRN3P2	RNA polymerase I transcription factor homolog ( <i>S. cerevisiae</i> ) pseudogene 2 [Source:HGNC Symbol;Acc:37619]
3076	ENSG00000109920	3022.277909	0.475908178	0.077170507	4.24E-09	FNBP4	formin binding protein 4 [Source:HGNC Symbol;Acc:19752]
3077	ENSG00000166927	455.9384813	0.948371647	0.153809822	4.26E-09	MS4A7	membrane-spanning 4-domains, subfamily A, member 7 [Source:HGNC Symbol;Acc:13378]
3078	ENSG00000158747	47.38673537	2.824427793	0.458121468	4.28E-09	NBL1	neuroblastoma 1, DAN family BMP antagonist [Source:HGNC Symbol;Acc:7650]
3079	ENSG00000179841	111.2691739	1.899150249	0.308205739	4.37E-09	AKAP5	A kinase (PRKA) anchor protein 5 [Source:HGNC Symbol;Acc:375]
3080	ENSG00000137094	86.6489147	2.040949383	0.331286282	4.40E-09	DNAJB5	DnaJ (Hsp40) homolog, subfamily B, member 5 [Source:HGNC Symbol;Acc:14887]
3081	ENSG00000188158	518.9562167	1.039901394	0.168864557	4.47E-09	NHS	Nance-Horan syndrome (congenital cataracts and dental anomalies) [Source:HGNC Symbol;Acc:7820]
3082	ENSG00000106565	196.9805026	1.396001487	0.226695415	4.47E-09	TMEM176B	transmembrane protein 176B [Source:HGNC Symbol;Acc:29596]
3083	ENSG00000173933	1809.728947	0.526904488	0.085589184	4.52E-09	RBM4	RNA binding motif protein 4 [Source:HGNC Symbol;Acc:9901]
3084	ENSG00000103657	3036.384401	0.484339729	0.078683411	4.54E-09	HERC1	HECT and RLD domain containing E3 ubiquitin protein ligase family member 1 [Source:HGNC Symbol;Acc:4867]
3085	ENSG00000154310	396.7274033	1.089832612	0.177058145	4.55E-09	TNIK	TRAF2 and NCK interacting kinase [Source:HGNC Symbol;Acc:30765]
3086	ENSG00000171604	299.3395242	1.227546773	0.19943237	4.55E-09	CXXC5	CXXC finger protein 5 [Source:HGNC Symbol;Acc:26943]
3087	ENSG00000108654	28935.63265	-0.324826457	0.052810646	4.67E-09	DDX5	DEAD (Asp-Glu-Ala-Asp) box helicase 5 [Source:HGNC Symbol;Acc:2746]
3088	ENSG00000254470	2661.464594	-0.668542327	0.108720516	4.72E-09	AP5B1	adaptor-related protein complex 5, beta 1 subunit [Source:HGNC Symbol;Acc:25104]
3089	ENSG00000213762	353.1005765	1.134090179	0.184437571	4.73E-09	ZNF134	zinc finger protein 134 [Source:HGNC Symbol;Acc:12918]
3090	ENSG00000142168	1003.922493	0.661890597	0.107660042	4.75E-09	SOD1	superoxide dismutase 1, soluble [Source:HGNC Symbol;Acc:11179]
3091	ENSG00000225553	2615.384926	-0.496729557	0.08080291	4.77E-09	PHF1	PHD finger protein 1 [Source:HGNC Symbol;Acc:8919]
3092	ENSG00000134215	1680.041971	-0.563038621	0.091602449	4.79E-09	VAV3	vav 3 guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:12659]
3093	ENSG00000145020	783.8045175	-0.749678121	0.122075359	4.96E-09	AMT	aminomethyltransferase [Source:HGNC Symbol;Acc:473]
3094	ENSG00000018280	10062.96352	0.490735345	0.079928953	5.00E-09	SLC11A1	solute carrier family 11 (proton-coupled divalent metal ion transporter), member 1 [Source:HGNC Symbol;Acc:10907]
3095	ENSG00000197147	293.5725231	1.211466542	0.197349415	5.03E-09	LRRC8B	leucine rich repeat containing 8 family, member B [Source:HGNC Symbol;Acc:30692]
3096	ENSG00000122694	6286.331774	-0.353225295	0.057544657	5.04E-09	GLIPR2	GLI pathogenesis-related 2 [Source:HGNC Symbol;Acc:18007]
3097	ENSG00000261785	80.17067097	2.246498698	0.365993969	5.05E-09	TRBV7-2	T cell receptor beta variable 7-2 [Source:HGNC Symbol;Acc:12236]
3098	ENSG00000166432	1074.345158	0.655786312	0.10686332	5.09E-09	ZMAT1	zinc finger, matrin-type 1 [Source:HGNC Symbol;Acc:29377]
3099	ENSG00000169230	2032.184608	0.527984215	0.086056019	5.13E-09	PRELID1	PRELI domain containing 1 [Source:HGNC Symbol;Acc:30255]
3100	ENSG00000105708	200.7300134	1.409009405	0.229764296	5.23E-09	ZNF14	zinc finger protein 14 [Source:HGNC Symbol;Acc:12924]
3101	ENSG00000060237	6225.701311	-0.415989112	0.067839477	5.24E-09	WNK1	WNK lysine deficient protein kinase 1 [Source:HGNC Symbol;Acc:14540]
3102	ENSG00000163950	1107.092511	0.638532828	0.10419825	5.37E-09	SLBP	stem-loop binding protein [Source:HGNC Symbol;Acc:10904]

3103	ENSG00000140836	247.7574335	1.245972519	0.203483669	5.53E-09	ZFH3	zinc finger homeobox 3 [Source:HGNC Symbol;Acc:777]
3104	ENSG00000240053	931.2000484	-0.832437404	0.136015248	5.63E-09	LY6G5B	lymphocyte antigen 6 complex, locus G5B [Source:HGNC Symbol;Acc:13931]
3105	ENSG00000185158	998.1100644	-0.649140912	0.106065975	5.63E-09	LRRRC37B	leucine rich repeat containing 37B [Source:HGNC Symbol;Acc:29070]
3106	ENSG00000214826	444.8682487	-0.952443294	0.155626219	5.64E-09	DDX12P	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide 12, pseudogene [Source:HGNC Symbol;Acc:2737]
3107	ENSG00000175073	2123.282889	0.522147665	0.085325072	5.65E-09	VCIPI1	valosin containing protein (p97)/p47 complex interacting protein 1 [Source:HGNC Symbol;Acc:30897]
3108	ENSG00000067191	107.5576859	2.050774422	0.335129479	5.66E-09	CACNB1	calcium channel, voltage-dependent, beta 1 subunit [Source:HGNC Symbol;Acc:1401]
3109	ENSG00000114346	233.5960897	-1.322781776	0.216188828	5.68E-09	ECT2	epithelial cell transforming sequence 2 oncogene [Source:HGNC Symbol;Acc:3155]
3110	ENSG00000135299	283.1739875	-1.162979218	0.190142334	5.76E-09	ANKRD6	ankyrin repeat domain 6 [Source:HGNC Symbol;Acc:17280]
3111	ENSG00000103876	360.258567	-1.10661362	0.180951735	5.79E-09	FAH	fumarylacetoacetate hydrolase (fumarylacetoacetase) [Source:HGNC Symbol;Acc:3579]
3112	ENSG00000224103	101.37927	2.265591784	0.370532898	5.83E-09	HLA-DPA1	major histocompatibility complex, class II, DP alpha 1 [Source:HGNC Symbol;Acc:4938]
3113	ENSG00000251196	78.1889523	-2.106332097	0.344514742	5.84E-09	RP11-54F2.1	
3114	ENSG00000111653	1107.802274	0.615761108	0.100756297	5.94E-09	ING4	inhibitor of growth family, member 4 [Source:HGNC Symbol;Acc:19423]
3115	ENSG00000102531	1569.066712	-0.537758456	0.088148908	6.35E-09	FNDC3A	fibronectin type III domain containing 3A [Source:HGNC Symbol;Acc:20296]
3116	ENSG00000183166	69.52761514	2.2848149	0.374703774	6.46E-09	CALN1	calneuron 1 [Source:HGNC Symbol;Acc:13248]
3117	ENSG00000213347	1082.323121	-0.93465218	0.153341109	6.56E-09	MXD3	MAX dimerization protein 3 [Source:HGNC Symbol;Acc:14008]
3118	ENSG00000110799	128.2195262	1.939577351	0.318267859	6.60E-09	VWF	von Willebrand factor [Source:HGNC Symbol;Acc:12726]
3119	ENSG00000182621	235.7718625	1.302758512	0.213915825	6.77E-09	PLCB1	phospholipase C, beta 1 (phosphoinositide-specific) [Source:HGNC Symbol;Acc:15917]
3120	ENSG00000124659	811.4982146	0.728223106	0.119578612	6.78E-09	TBCC	tubulin folding cofactor C [Source:HGNC Symbol;Acc:11580]
3121	ENSG00000167083	68.16973067	2.378675904	0.390717219	6.86E-09	GNGT2	guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 2 [Source:HGNC Symbol;Acc:4412]
3122	ENSG00000131748	1968.47767	-0.515618327	0.084709499	6.90E-09	STARD3	StAR-related lipid transfer (START) domain containing 3 [Source:HGNC Symbol;Acc:17579]
3123	ENSG00000151929	102.0709567	1.955829089	0.321321655	6.90E-09	BAG3	BCL2-associated athanogene 3 [Source:HGNC Symbol;Acc:939]
3124	ENSG00000180353	22695.98455	-0.267562621	0.043972562	6.99E-09	HCLS1	hematopoietic cell-specific Lyn substrate 1 [Source:HGNC Symbol;Acc:4844]
3125	ENSG00000168209	739.4011803	0.787666698	0.129473547	7.04E-09	DDIT4	DNA-damage-inducible transcript 4 [Source:HGNC Symbol;Acc:24944]
3126	ENSG00000128944	424.8891224	-0.965431486	0.158694292	7.04E-09	KNSTRN	kinetochore-localized astrin/SPAG5 binding protein [Source:HGNC Symbol;Acc:30767]
3127	ENSG00000183475	1045.467768	-0.652379133	0.107263573	7.10E-09	ASB7	ankyrin repeat and SOCS box containing 7 [Source:HGNC Symbol;Acc:17182]
3128	ENSG00000178026	133.5341596	-1.614462697	0.265567444	7.22E-09	FAM211B	family with sequence similarity 211, member B [Source:HGNC Symbol;Acc:33155]
3129	ENSG00000179397	83.91327223	-2.018515498	0.332078745	7.26E-09	C1orf101	chromosome 1 open reading frame 101 [Source:HGNC Symbol;Acc:28491]
3130	ENSG00000115282	1293.842057	-0.582311943	0.095814387	7.30E-09	TTC31	tetratricopeptide repeat domain 31 [Source:HGNC Symbol;Acc:25759]

3131	ENSG00000148660	4399.777745	-0.362585208	0.059678272	7.38E-09	CAMK2G	calcium/calmodulin-dependent protein kinase II gamma [Source:HGNC Symbol;Acc:1463]
3132	ENSG00000068308	1385.732261	0.574580524	0.094571995	7.38E-09	OTUD5	OTU domain containing 5 [Source:HGNC Symbol;Acc:25402]
3133	ENSG00000164346	1186.145732	0.659125392	0.108506481	7.43E-09	NSA2	NSA2 ribosome biogenesis homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:30728]
3134	ENSG00000101544	456.0738023	1.326704831	0.218583208	7.66E-09	ADNP2	ADNP homeobox 2 [Source:HGNC Symbol;Acc:23803]
3135	ENSG00000256062	164.8554216	-1.481101103	0.244029282	7.67E-09	ABO	ABO blood group (transferase A, alpha 1-3-N-acetylgalactosaminyltransferase; transferase B, alpha 1-3-galactosyltransferase) [Source:HGNC Symbol;Acc:79]
3136	ENSG00000132185	261.9957629	1.264800788	0.208425242	7.71E-09	FCRLA	Fc receptor-like A [Source:HGNC Symbol;Acc:18504]
3137	ENSG00000139531	509.7221298	-0.881738958	0.145317579	7.74E-09	SUOX	sulfite oxidase [Source:HGNC Symbol;Acc:11460]
3138	ENSG00000267983	1385.704327	0.574104253	0.094636133	7.80E-09	OTUD5	OTU domain containing 5 [Source:HGNC Symbol;Acc:25402]
3139	ENSG00000159445	473.1232948	0.943864253	0.155608145	7.84E-09	THEM4	thioesterase superfamily member 4 [Source:HGNC Symbol;Acc:17947]
3140	ENSG00000203811	31.01208022	-2.930047958	0.48310624	7.86E-09	HIST2H3C	histone cluster 2, H3c [Source:HGNC Symbol;Acc:20503]
3141	ENSG00000203852	31.01208022	-2.930047958	0.48310624	7.86E-09	HIST2H3A	histone cluster 2, H3a [Source:HGNC Symbol;Acc:20505]
3142	ENSG00000270263	31.01208022	-2.930047958	0.48310624	7.86E-09	HIST2H3A	histone cluster 2, H3a [Source:HGNC Symbol;Acc:20505]
3143	ENSG00000270827	31.01208022	-2.930047958	0.48310624	7.86E-09	HIST2H3C	histone cluster 2, H3c [Source:HGNC Symbol;Acc:20503]
3144	ENSG00000133454	136.2436879	3.420172359	0.564009104	7.90E-09	MYO18B	myosin XVIIIIB [Source:HGNC Symbol;Acc:18150]
3145	ENSG00000197548	1039.813922	-0.69684811	0.114917074	7.90E-09	ATG7	autophagy related 7 [Source:HGNC Symbol;Acc:16935]
3146	ENSG00000058600	589.9521411	0.837024306	0.138075124	7.99E-09	POLR3E	polymerase (RNA) III (DNA directed) polypeptide E (80kD) [Source:HGNC Symbol;Acc:30347]
3147	ENSG00000151136	148.3837334	1.660976721	0.2741643	8.18E-09	BTBD11	BTB (POZ) domain containing 11 [Source:HGNC Symbol;Acc:23844]
3148	ENSG00000168298	33.53489607	-2.920768934	0.482347074	8.33E-09	HIST1H1E	histone cluster 1, H1e [Source:HGNC Symbol;Acc:4718]
3149	ENSG00000101412	367.4206757	-1.008221365	0.166565194	8.45E-09	E2F1	E2F transcription factor 1 [Source:HGNC Symbol;Acc:3113]
3150	ENSG00000181827	597.2213627	0.859231762	0.142021203	8.60E-09	RFX7	regulatory factor X, 7 [Source:HGNC Symbol;Acc:25777]
3151	ENSG00000213799	299.6330184	1.151313346	0.190299505	8.60E-09	ZNF845	zinc finger protein 845 [Source:HGNC Symbol;Acc:25112]
3152	ENSG00000153814	1139.128776	-0.610807342	0.100976976	8.65E-09	JAZF1	JAZF zinc finger 1 [Source:HGNC Symbol;Acc:28917]
3153	ENSG00000140320	636.9542769	0.840669116	0.139067807	8.87E-09	BAHD1	bromo adjacent homology domain containing 1 [Source:HGNC Symbol;Acc:29153]
3154	ENSG00000026508	6207.122513	-0.402511764	0.066618103	9.03E-09	CD44	CD44 molecule (Indian blood group) [Source:HGNC Symbol;Acc:1681]
3155	ENSG00000111639	944.8848506	-0.699260303	0.115785053	9.18E-09	MRPL51	mitochondrial ribosomal protein L51 [Source:HGNC Symbol;Acc:14044]
3156	ENSG00000182557	185.8006411	-1.428710246	0.236593574	9.21E-09	SPNS3	spinster homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:28433]
3157	ENSG00000163743	934.708942	-0.661952165	0.109639531	9.28E-09	RCHY1	ring finger and CHY zinc finger domain containing 1, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:17479]
3158	ENSG00000135535	6722.217793	-0.339175359	0.056178843	9.28E-09	CD164	CD164 molecule, sialomucin [Source:HGNC Symbol;Acc:1632]

3159	ENSG00000110497	529.541548	0.850677163	0.140923691	9.33E-09	AMBRA1	autophagy/beclin-1 regulator 1 [Source:HGNC Symbol;Acc:25990]
3160	ENSG00000132481	39.89074788	2.928644339	0.485207824	9.36E-09	TRIM47	tripartite motif containing 47 [Source:HGNC Symbol;Acc:19020]
3161	ENSG00000012232	1050.718397	0.680876813	0.112824441	9.42E-09	EXTL3	exostosin-like glycosyltransferase 3 [Source:HGNC Symbol;Acc:3518]
3162	ENSG00000105717	71.16543088	2.441202939	0.404632039	9.52E-09	PBX4	pre-B-cell leukemia homeobox 4 [Source:HGNC Symbol;Acc:13403]
3163	ENSG00000154328	151.3549377	1.555992502	0.25791431	9.52E-09	NEIL2	nei endonuclease VIII-like 2 (E. coli) [Source:HGNC Symbol;Acc:18956]
3164	ENSG00000131148	476.1081297	-0.868800405	0.144089463	9.72E-09	EMC8	ER membrane protein complex subunit 8 [Source:HGNC Symbol;Acc:7864]
3165	ENSG00000244115	487.8388451	1.316145352	0.218293036	9.74E-09	DNAJC25-GNG10	DNAJC25-GNG10 readthrough [Source:HGNC Symbol;Acc:37501]
3166	ENSG00000125810	8468.284883	0.314278292	0.052132227	9.78E-09	CD93	CD93 molecule [Source:HGNC Symbol;Acc:15855]
3167	ENSG00000082701	2121.990051	-0.55541932	0.09217061	9.93E-09	GSK3B	glycogen synthase kinase 3 beta [Source:HGNC Symbol;Acc:4617]
3168	ENSG00000157554	1567.88294	-0.522906511	0.086799902	1.00E-08	ERG	v-ets avian erythroblastosis virus E26 oncogene homolog [Source:HGNC Symbol;Acc:3446]
3169	ENSG00000262868	255.0623962	1.234094582	0.204880452	1.01E-08	TSEN34	TSEN34 tRNA splicing endonuclease subunit [Source:HGNC Symbol;Acc:15506]
3170	ENSG00000172247	23.72260536	3.262684519	0.541698555	1.01E-08	C1QTNF4	C1q and tumor necrosis factor related protein 4 [Source:HGNC Symbol;Acc:14346]
3171	ENSG00000026652	954.6458732	0.703412828	0.116804705	1.02E-08	AGPAT4	1-acylglycerol-3-phosphate O-acyltransferase 4 [Source:HGNC Symbol;Acc:20885]
3172	ENSG00000145919	222.7717145	1.261527164	0.209483549	1.02E-08	BOD1	bioorientation of chromosomes in cell division 1 [Source:HGNC Symbol;Acc:25114]
3173	ENSG00000123191	148.4090434	-1.925194451	0.319819085	1.03E-08	ATP7B	ATPase, Cu <sup>++</sup> transporting, beta polypeptide [Source:HGNC Symbol;Acc:870]
3174	ENSG00000185033	1949.188325	-0.64747118	0.107569223	1.03E-08	SEMA4B	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4B [Source:HGNC Symbol;Acc:10730]
3175	ENSG00000186417	132.7379692	-1.662683614	0.276243794	1.04E-08	GLDN	gliomedin [Source:HGNC Symbol;Acc:29514]
3176	ENSG00000139668	1139.529754	-0.621250255	0.103236538	1.04E-08	WDFY2	WD repeat and FYVE domain containing 2 [Source:HGNC Symbol;Acc:20482]
3177	ENSG00000262716	254.9079016	1.234043056	0.205074275	1.04E-08	TSEN34	TSEN34 tRNA splicing endonuclease subunit [Source:HGNC Symbol;Acc:15506]
3178	ENSG00000162702	1468.567442	0.565422073	0.093976617	1.05E-08	ZNF281	zinc finger protein 281 [Source:HGNC Symbol;Acc:13075]
3179	ENSG00000158715	277.7026426	1.130717142	0.187936892	1.05E-08	SLC45A3	solute carrier family 45, member 3 [Source:HGNC Symbol;Acc:8642]
3180	ENSG00000157106	7153.467163	-0.351123305	0.058362407	1.05E-08	SMG1	SMG1 phosphatidylinositol 3-kinase-related kinase [Source:HGNC Symbol;Acc:30045]
3181	ENSG00000165185	287.2647715	-1.126991523	0.187365191	1.06E-08	KIAA1958	KIAA1958 [Source:HGNC Symbol;Acc:23427]
3182	ENSG00000177932	142.9593262	1.615240489	0.268656881	1.08E-08	ZNF354C	zinc finger protein 354C [Source:HGNC Symbol;Acc:16736]
3183	ENSG00000168538	1318.544004	-0.580418599	0.096554317	1.08E-08	TRAPPC11	trafficking protein particle complex 11 [Source:HGNC Symbol;Acc:25751]
3184	ENSG00000126214	2115.651787	-0.471498048	0.078555902	1.15E-08	KLC1	kinesin light chain 1 [Source:HGNC Symbol;Acc:6387]
3185	ENSG00000156299	232.3725584	1.330345219	0.221778641	1.17E-08	TIAM1	T-cell lymphoma invasion and metastasis 1 [Source:HGNC Symbol;Acc:11805]
3186	ENSG00000120217	140.2479969	1.711193604	0.285341261	1.18E-08	CD274	CD274 molecule [Source:HGNC Symbol;Acc:17635]



3187	ENSG00000198162	821.2402877	0.729523874	0.121652105	1.18E-08	MAN1A2	mannosidase, alpha, class 1A, member 2 [Source:HGNC Symbol;Acc:6822]
3188	ENSG00000188641	2447.47499	-0.449609244	0.074976187	1.18E-08	DPYD	dihydropyrimidine dehydrogenase [Source:HGNC Symbol;Acc:3012]
3189	ENSG00000163349	4696.099669	-0.376758469	0.062854077	1.20E-08	HIPK1	homeodomain interacting protein kinase 1 [Source:HGNC Symbol;Acc:19006]
3190	ENSG00000100523	393.0911237	0.986908585	0.164655851	1.20E-08	DDHD1	DDHD domain containing 1 [Source:HGNC Symbol;Acc:19714]
3191	ENSG00000162676	1136.795536	-0.639915245	0.106766821	1.20E-08	GFI1	growth factor independent 1 transcription repressor [Source:HGNC Symbol;Acc:4237]
3192	ENSG00000029993	144.59663	-1.584268173	0.264435226	1.22E-08	HMGB3	high mobility group box 3 [Source:HGNC Symbol;Acc:5004]
3193	ENSG00000187147	1826.952698	0.544135272	0.09082565	1.22E-08	RNF220	ring finger protein 220 [Source:HGNC Symbol;Acc:25552]
3194	ENSG00000100982	1037.2532	0.704141598	0.117539363	1.22E-08	PCIF1	PDX1 C-terminal inhibiting factor 1 [Source:HGNC Symbol;Acc:16200]
3195	ENSG00000270502	255.1093057	1.227403668	0.204922892	1.23E-08	TSEN34	TSEN34 tRNA splicing endonuclease subunit [Source:HGNC Symbol;Acc:15506]
3196	ENSG00000213689	281.2017826	1.207439032	0.201590377	1.23E-08	TREX1	three prime repair exonuclease 1 [Source:HGNC Symbol;Acc:12269]
3197	ENSG00000269411	144.5823482	-1.583803106	0.264480331	1.24E-08	HMGB3	high mobility group box 3 [Source:HGNC Symbol;Acc:5004]
3198	ENSG00000211698	67.1500093	2.310237396	0.385805094	1.24E-08	TRGV4	T cell receptor gamma variable 4 [Source:HGNC Symbol;Acc:12289]
3199	ENSG00000151503	737.375026	-0.769704609	0.128585216	1.26E-08	NCAPD3	non-SMC condensin II complex, subunit D3 [Source:HGNC Symbol;Acc:28952]
3200	ENSG00000004809	269.8165269	-1.169044664	0.195459677	1.30E-08	SLC22A16	solute carrier family 22 (organic cation/carnitine transporter), member 16 [Source:HGNC Symbol;Acc:20302]
3201	ENSG00000178814	134.4286066	-1.760186822	0.294476344	1.33E-08	OPLAH	5-oxoprolinase (ATP-hydrolysing) [Source:HGNC Symbol;Acc:8149]
3202	ENSG00000185619	2657.300812	-0.437316015	0.073174462	1.33E-08	PCGF3	polycomb group ring finger 3 [Source:HGNC Symbol;Acc:10066]
3203	ENSG00000145779	3659.335835	-0.422459054	0.070704188	1.34E-08	TNFAIP8	tumor necrosis factor, alpha-induced protein 8 [Source:HGNC Symbol;Acc:17260]
3204	ENSG00000272602	837.8274919	-0.685587152	0.114766541	1.35E-08	ZNF595	Homo sapiens zinc finger protein 595 (ZNF595), transcript variant 1, mRNA. [Source:RefSeq mRNA;Acc:NM_182524]
3205	ENSG00000155265	122.5984941	1.856840111	0.311259357	1.42E-08	GOLGA7B	golgin A7 family, member B [Source:HGNC Symbol;Acc:31668]
3206	ENSG00000077152	140.6335105	-1.580907228	0.2651946	1.46E-08	UBE2T	ubiquitin-conjugating enzyme E2T (putative) [Source:HGNC Symbol;Acc:25009]
3207	ENSG00000198625	4135.13412	-0.398724397	0.066918407	1.49E-08	MDM4	Mdm4 p53 binding protein homolog (mouse) [Source:HGNC Symbol;Acc:6974]
3208	ENSG00000132825	887.0736411	-0.691383772	0.116116947	1.52E-08	PPP1R3D	protein phosphatase 1, regulatory subunit 3D [Source:HGNC Symbol;Acc:9294]
3209	ENSG00000186001	1367.269206	-0.663529285	0.111449831	1.53E-08	LRCH3	leucine-rich repeats and calponin homology (CH) domain containing 3 [Source:HGNC Symbol;Acc:28637]
3210	ENSG00000196584	290.9062354	-1.097421235	0.184451309	1.57E-08	XRCC2	X-ray repair complementing defective repair in Chinese hamster cells 2 [Source:HGNC Symbol;Acc:12829]
3211	ENSG00000132879	456.0222576	0.953620224	0.16039837	1.61E-08	FBXO44	F-box protein 44 [Source:HGNC Symbol;Acc:24847]
3212	ENSG00000138594	1640.177043	-0.574382646	0.096679984	1.65E-08	TMOD3	tropomodulin 3 (ubiquitous) [Source:HGNC Symbol;Acc:11873]
3213	ENSG00000223629	122.9287467	-1.782088832	0.30036118	1.73E-08	DEFA8P	defensin, alpha 8 pseudogene [Source:HGNC Symbol;Acc:31799]
3214	ENSG00000168003	1148.933076	-0.604002159	0.101864732	1.77E-08	SLC3A2	solute carrier family 3 (amino acid transporter heavy chain), member 2 [Source:HGNC Symbol;Acc:11026]

3215	ENSG00000130770	1417.915268	-0.531966228	0.089719328	1.77E-08	ATPIF1	ATPase inhibitory factor 1 [Source:HGNC Symbol;Acc:871]
3216	ENSG00000242028	569.4363154	-1.009033211	0.170194113	1.78E-08	HYPK	huntingtin interacting protein K [Source:HGNC Symbol;Acc:18418]
3217	ENSG00000185482	346.9901684	-1.134743909	0.191415663	1.78E-08	STAC3	SH3 and cysteine rich domain 3 [Source:HGNC Symbol;Acc:28423]
3218	ENSG00000138757	1746.060004	0.523255294	0.088338721	1.84E-08	G3BP2	GTPase activating protein (SH3 domain) binding protein 2 [Source:HGNC Symbol;Acc:30291]
3219	ENSG00000083223	2997.38905	0.449463716	0.075889443	1.84E-08	ZCCHC6	zinc finger, CCHC domain containing 6 [Source:HGNC Symbol;Acc:25817]
3220	ENSG00000136279	7934.401909	-0.397892075	0.06720526	1.86E-08	DBNL	drebrin-like [Source:HGNC Symbol;Acc:2696]
3221	ENSG00000156968	724.5661695	-0.723436592	0.122213201	1.88E-08	MPV17L	MPV17 mitochondrial membrane protein-like [Source:HGNC Symbol;Acc:26827]
3222	ENSG00000125885	356.9522802	-1.01329972	0.171241542	1.90E-08	MCM8	minichromosome maintenance complex component 8 [Source:HGNC Symbol;Acc:16147]
3223	ENSG00000176953	2523.150211	-0.438774873	0.07417615	1.92E-08	NFATC2IP	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2 interacting protein [Source:HGNC Symbol;Acc:25906]
3224	ENSG00000160703	1015.992115	-0.685473602	0.115898651	1.93E-08	NLRX1	NLR family member X1 [Source:HGNC Symbol;Acc:29890]
3225	ENSG00000146476	772.451977	-0.699093923	0.118286908	1.98E-08	C6orf211	chromosome 6 open reading frame 211 [Source:HGNC Symbol;Acc:17872]
3226	ENSG00000139734	65.71718969	-2.221853631	0.375997228	1.99E-08	DIAPH3	diaphanous-related formin 3 [Source:HGNC Symbol;Acc:15480]
3227	ENSG00000095397	81.97625176	2.106680909	0.356506949	1.99E-08	DFNB31	deafness, autosomal recessive 31 [Source:HGNC Symbol;Acc:16361]
3228	ENSG00000162604	673.7066235	-0.824537069	0.139561025	2.01E-08	TM2D1	TM2 domain containing 1 [Source:HGNC Symbol;Acc:24142]
3229	ENSG00000155957	3291.988561	-0.386376617	0.065435123	2.05E-08	TMBIM4	transmembrane BAX inhibitor motif containing 4 [Source:HGNC Symbol;Acc:24257]
3230	ENSG00000271363	97.45568786	2.146031976	0.36347619	2.05E-08	PHF16	Protein Jade-3 [Source:UniProtKB/TrEMBL;Acc:F2Z3N8]
3231	ENSG00000066923	635.2733388	-0.814167069	0.137922822	2.07E-08	STAG3	stromal antigen 3 [Source:HGNC Symbol;Acc:11356]
3232	ENSG00000099821	355.7928575	1.097385891	0.185901845	2.07E-08	POLRMT	polymerase (RNA) mitochondrial (DNA directed) [Source:HGNC Symbol;Acc:9200]
3233	ENSG00000111644	392.9141028	1.055242161	0.178804695	2.08E-08	ACRBP	acrosin binding protein [Source:HGNC Symbol;Acc:17195]
3234	ENSG00000178982	2391.785697	0.471010743	0.079813111	2.09E-08	EIF3K	eukaryotic translation initiation factor 3, subunit K [Source:HGNC Symbol;Acc:24656]
3235	ENSG00000154165	67.37433645	2.388260972	0.405142009	2.17E-08	GPR15	G protein-coupled receptor 15 [Source:HGNC Symbol;Acc:4469]
3236	ENSG00000133488	33.20596128	-2.767717029	0.469648798	2.19E-08	SEC14L4	SEC14-like 4 ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:20627]
3237	ENSG00000166295	2218.937618	0.465193242	0.078957681	2.21E-08	ANAPC16	anaphase promoting complex subunit 16 [Source:HGNC Symbol;Acc:26976]
3238	ENSG00000131389	13723.32526	-0.270284136	0.04591421	2.28E-08	SLC6A6	solute carrier family 6 (neurotransmitter transporter), member 6 [Source:HGNC Symbol;Acc:11052]
3239	ENSG00000134070	301.3623293	-1.090969205	0.185339666	2.28E-08	IRAK2	interleukin-1 receptor-associated kinase 2 [Source:HGNC Symbol;Acc:6113]
3240	ENSG00000173442	6296.266254	0.426341498	0.07243503	2.29E-08	EHBP1L1	EH domain binding protein 1-like 1 [Source:HGNC Symbol;Acc:30682]
3241	ENSG00000189171	192.9599853	1.313521038	0.223188935	2.30E-08	S100A13	S100 calcium binding protein A13 [Source:HGNC Symbol;Acc:10490]
3242	ENSG00000103510	1442.851407	0.547020286	0.093016349	2.36E-08	KAT8	K(lysine) acetyltransferase 8 [Source:HGNC Symbol;Acc:17933]

3243	ENSG00000163050	1206.505845	0.637053641	0.108454373	2.46E-08	ADCK3	aarF domain containing kinase 3 [Source:HGNC Symbol;Acc:16812]
3244	ENSG00000076604	131.8965357	1.689404113	0.287627485	2.46E-08	TRAF4	TNF receptor-associated factor 4 [Source:HGNC Symbol;Acc:12034]
3245	ENSG00000157796	454.2426641	1.035886075	0.176366612	2.46E-08	WDR19	WD repeat domain 19 [Source:HGNC Symbol;Acc:18340]
3246	ENSG00000198648	324.5734211	1.081618022	0.184210151	2.49E-08	STK39	serine threonine kinase 39 [Source:HGNC Symbol;Acc:17717]
3247	ENSG00000167074	162.2852126	1.476686031	0.251494443	2.49E-08	TEF	thyrotrophic embryonic factor [Source:HGNC Symbol;Acc:11722]
3248	ENSG00000089818	1696.134862	-0.510863928	0.087010965	2.49E-08	NECAP1	NECAP endocytosis associated 1 [Source:HGNC Symbol;Acc:24539]
3249	ENSG00000135960	43.27042462	2.659462448	0.453190296	2.54E-08	EDAR	ectodysplasin A receptor [Source:HGNC Symbol;Acc:2895]
3250	ENSG00000130881	209.5128857	-1.67542097	0.285534309	2.54E-08	LRP3	low density lipoprotein receptor-related protein 3 [Source:HGNC Symbol;Acc:6695]
3251	ENSG00000128487	1089.486581	-0.639962027	0.109096552	2.57E-08	SPECC1	sperm antigen with calponin homology and coiled-coil domains 1 [Source:HGNC Symbol;Acc:30615]
3252	ENSG00000152332	3311.933876	0.398091684	0.067871122	2.58E-08	UHMK1	U2AF homology motif (UHM) kinase 1 [Source:HGNC Symbol;Acc:19683]
3253	ENSG00000162433	105.7832803	-1.819309114	0.310325785	2.62E-08	AK4	adenylate kinase 4 [Source:HGNC Symbol;Acc:363]
3254	ENSG00000107242	287.9167236	-1.104146015	0.188403485	2.65E-08	PIP5K1B	phosphatidylinositol-4-phosphate 5-kinase, type I, beta [Source:HGNC Symbol;Acc:8995]
3255	ENSG00000100290	132.0176724	-1.545575039	0.263758558	2.66E-08	BIK	BCL2-interacting killer (apoptosis-inducing) [Source:HGNC Symbol;Acc:1051]
3256	ENSG00000103202	428.7340639	-0.95501874	0.162988593	2.67E-08	NME4	NME/NM23 nucleoside diphosphate kinase 4 [Source:HGNC Symbol;Acc:7852]
3257	ENSG00000102760	808.9713078	-0.73147426	0.12492148	2.73E-08	RGCC	regulator of cell cycle [Source:HGNC Symbol;Acc:20369]
3258	ENSG00000158292	50.63239173	2.476445831	0.42309614	2.77E-08	GPR153	G protein-coupled receptor 153 [Source:HGNC Symbol;Acc:23618]
3259	ENSG00000015676	983.9847208	0.717231238	0.122638239	2.85E-08	NUDCD3	NudC domain containing 3 [Source:HGNC Symbol;Acc:22208]
3260	ENSG00000109762	125.1342252	1.759376936	0.300930622	2.88E-08	SNX25	sorting nexin 25 [Source:HGNC Symbol;Acc:21883]
3261	ENSG00000167994	27.46673385	-2.995815847	0.512708096	2.94E-08	RAB31L1	RAB3A interacting protein (rabin3)-like 1 [Source:HGNC Symbol;Acc:9780]
3262	ENSG00000132604	670.2204312	0.741861081	0.126990777	2.96E-08	TERF2	telomeric repeat binding factor 2 [Source:HGNC Symbol;Acc:11729]
3263	ENSG00000171806	155.6276137	1.500444107	0.256882014	2.98E-08	METTL18	methyltransferase like 18 [Source:HGNC Symbol;Acc:28793]
3264	ENSG00000151883	6752.079406	0.347113466	0.059438477	3.00E-08	PARP8	poly (ADP-ribose) polymerase family, member 8 [Source:HGNC Symbol;Acc:26124]
3265	ENSG00000164574	1807.554085	-0.528547614	0.090514525	3.00E-08	GALNT10	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 10 (GalNAc-T10) [Source:HGNC Symbol;Acc:19873]
3266	ENSG00000159556	114.5074517	1.889386361	0.323649397	3.03E-08	ISL2	ISL LIM homeobox 2 [Source:HGNC Symbol;Acc:18524]
3267	ENSG00000124549	192.213063	1.337512631	0.229162526	3.05E-08	BTN2A3P	butyrophilin, subfamily 2, member A3, pseudogene [Source:HGNC Symbol;Acc:13229]
3268	ENSG00000141027	3800.135603	-0.423428672	0.072558978	3.07E-08	NCOR1	nuclear receptor corepressor 1 [Source:HGNC Symbol;Acc:7672]
3269	ENSG00000166986	4797.223432	-0.354797405	0.06080973	3.09E-08	MARS	methionyl-tRNA synthetase [Source:HGNC Symbol;Acc:6898]
3270	ENSG00000196449	328.9359448	-1.012889511	0.173681618	3.14E-08	YRDC	yrDC N(6)-threonylcarbamoyltransferase domain containing [Source:HGNC Symbol;Acc:28905]

3271	ENSG00000007168	3857.256389	-0.406641409	0.069739418	3.15E-08	PFAFH1B1	platelet-activating factor acetylhydrolase 1b, regulatory subunit 1 (45kDa) [Source:HGNC Symbol;Acc:8574]
3272	ENSG00000267972	52.44209521	2.664631523	0.457030009	3.16E-08	DGKK	Homo sapiens diacylglycerol kinase, kappa (DGKK), mRNA. [Source:RefSeq mRNA;Acc:NM_001013742]
3273	ENSG00000176049	100.1502438	1.805027877	0.309609177	3.17E-08	JAKMIP2	janus kinase and microtubule interacting protein 2 [Source:HGNC Symbol;Acc:29067]
3274	ENSG00000270498	73.28390316	-2.026147334	0.347563026	3.18E-08	IGHG4	immunoglobulin heavy constant gamma 4 (G4m marker) [Source:HGNC Symbol;Acc:5528]
3275	ENSG00000211892	73.28390316	-2.026147334	0.347563026	3.18E-08	IGHG4	immunoglobulin heavy constant gamma 4 (G4m marker) [Source:HGNC Symbol;Acc:5528]
3276	ENSG00000066933	447.8058059	0.939468955	0.161175494	3.19E-08	MYO9A	myosin IXA [Source:HGNC Symbol;Acc:7608]
3277	ENSG00000146433	1400.656904	0.571576611	0.098060928	3.19E-08	TMEM181	transmembrane protein 181 [Source:HGNC Symbol;Acc:20958]
3278	ENSG00000148344	83.33649038	-2.163336302	0.371196491	3.20E-08	PTGES	prostaglandin E synthase [Source:HGNC Symbol;Acc:9599]
3279	ENSG00000255398	742.0317015	0.726588577	0.124689611	3.22E-08	HCAR3	hydroxycarboxylic acid receptor 3 [Source:HGNC Symbol;Acc:16824]
3280	ENSG00000065308	608.5999051	0.77509347	0.13306739	3.26E-08	TRAM2	translocation associated membrane protein 2 [Source:HGNC Symbol;Acc:16855]
3281	ENSG00000156671	1821.10841	-0.541524588	0.0929796	3.27E-08	SAMD8	sterile alpha motif domain containing 8 [Source:HGNC Symbol;Acc:26320]
3282	ENSG00000113569	573.7704133	-0.803200645	0.137947899	3.31E-08	NUP155	nucleoporin 155kDa [Source:HGNC Symbol;Acc:8063]
3283	ENSG00000086189	594.9300138	0.921259911	0.158362704	3.41E-08	DIMT1	DIM1 dimethyladenosine transferase 1 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:30217]
3284	ENSG00000100941	6084.338993	-0.341865182	0.058785051	3.44E-08	PNN	pinin, desmosome associated protein [Source:HGNC Symbol;Acc:9162]
3285	ENSG00000124120	870.1951975	-0.682314269	0.117335859	3.45E-08	TTPAL	tocopherol (alpha) transfer protein-like [Source:HGNC Symbol;Acc:16114]
3286	ENSG00000268397	94.40309452	-1.852556591	0.31862055	3.47E-08	AC008443.1	CDNA: FLJ23158 fis, clone LNG09623; Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q9H5Q9]
3287	ENSG00000234475	23.46317111	-3.152288149	0.542198988	3.47E-08	HSPA1A	heat shock 70kDa protein 1A [Source:HGNC Symbol;Acc:5232]
3288	ENSG00000105516	438.4997516	-1.014672577	0.174555967	3.50E-08	DBP	D site of albumin promoter (albumin D-box) binding protein [Source:HGNC Symbol;Acc:2697]
3289	ENSG00000172893	265.4912337	-1.289513982	0.22186416	3.51E-08	DHCR7	7-dehydrocholesterol reductase [Source:HGNC Symbol;Acc:2860]
3290	ENSG00000147274	3661.642276	0.379390426	0.06527566	3.51E-08	RBMX	RNA binding motif protein, X-linked [Source:HGNC Symbol;Acc:9910]
3291	ENSG00000075702	201.1300634	-1.388212535	0.238896259	3.53E-08	WDR62	WD repeat domain 62 [Source:HGNC Symbol;Acc:24502]
3292	ENSG00000198081	574.6651636	0.833581353	0.143498594	3.57E-08	ZBTB14	zinc finger and BTB domain containing 14 [Source:HGNC Symbol;Acc:12860]
3293	ENSG00000170222	222.2700187	1.237720238	0.213072672	3.57E-08	ADPRM	ADP-ribose/CDP-alcohol diphosphatase, manganese-dependent [Source:HGNC Symbol;Acc:30925]
3294	ENSG00000130511	216.228206	1.345622438	0.231697941	3.60E-08	SSBP4	single stranded DNA binding protein 4 [Source:HGNC Symbol;Acc:15676]
3295	ENSG00000054793	391.3965063	-0.946987315	0.163123819	3.65E-08	ATP9A	ATPase, class II, type 9A [Source:HGNC Symbol;Acc:13540]
3296	ENSG00000185262	1968.37425	0.532132455	0.091701134	3.70E-08	UBALD2	UBA-like domain containing 2 [Source:HGNC Symbol;Acc:28438]
3297	ENSG00000153006	987.9910384	-0.776866316	0.133887863	3.71E-08	SREK1IP1	SREK1-interacting protein 1 [Source:HGNC Symbol;Acc:26716]
3298	ENSG00000058668	4155.728539	0.38147727	0.065768008	3.76E-08	ATP2B4	ATPase, Ca <sup>++</sup> transporting, plasma membrane 4 [Source:HGNC Symbol;Acc:817]

3299	ENSG00000145990	877.0529415	-0.743383226	0.128167949	3.76E-08	GFOD1	glucose-fructose oxidoreductase domain containing 1 [Source:HGNC Symbol;Acc:21096]
3300	ENSG00000237683	11870.22396	-0.817775064	0.140998018	3.76E-08	AL627309.1	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:R4GN28]
3301	ENSG00000223532	10461.76747	0.79459545	0.137025642	3.78E-08	HLA-B	major histocompatibility complex, class I, B [Source:HGNC Symbol;Acc:4932]
3302	ENSG00000255112	4527.640581	0.365976758	0.063136087	3.83E-08	CHMP1B	charged multivesicular body protein 1B [Source:HGNC Symbol;Acc:24287]
3303	ENSG00000007392	1520.123597	0.523522388	0.090320059	3.84E-08	LUC7L	LUC7-like ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:6723]
3304	ENSG00000127837	773.9434711	0.699226436	0.120676223	3.89E-08	AAMP	angio-associated, migratory cell protein [Source:HGNC Symbol;Acc:18]
3305	ENSG00000175029	1803.056803	-0.502980978	0.086835799	3.93E-08	CTBP2	C-terminal binding protein 2 [Source:HGNC Symbol;Acc:2495]
3306	ENSG00000204161	2685.233415	-0.451919499	0.078021095	3.93E-08	C10orf128	chromosome 10 open reading frame 128 [Source:HGNC Symbol;Acc:27274]
3307	ENSG00000137496	567.1291647	0.801467193	0.138383442	3.94E-08	IL18BP	interleukin 18 binding protein [Source:HGNC Symbol;Acc:5987]
3308	ENSG00000110801	929.9518085	-0.655070445	0.113124277	3.96E-08	PSMD9	proteasome (prosome, macropain) 26S subunit, non-ATPase, 9 [Source:HGNC Symbol;Acc:9567]
3309	ENSG00000147813	1074.45846	-0.804897211	0.139023024	3.99E-08	NAPRT1	nicotinate phosphoribosyltransferase domain containing 1 [Source:HGNC Symbol;Acc:30450]
3310	ENSG00000050767	110.588181	1.749329089	0.30222967	4.03E-08	COL23A1	collagen, type XXIII, alpha 1 [Source:HGNC Symbol;Acc:22990]
3311	ENSG00000129347	846.8159399	0.837806775	0.144751875	4.03E-08	KRI1	KRI1 homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:25769]
3312	ENSG00000135503	542.5944231	-0.821496413	0.141946111	4.04E-08	ACVR1B	activin A receptor, type IB [Source:HGNC Symbol;Acc:172]
3313	ENSG00000101310	1102.950873	-0.601701829	0.103989818	4.07E-08	SEC23B	Sec23 homolog B ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:10702]
3314	ENSG00000145029	580.1986752	-0.766831292	0.13253257	4.07E-08	NICN1	nicolin 1 [Source:HGNC Symbol;Acc:18317]
3315	ENSG00000135898	63.61841049	2.24734057	0.388489561	4.10E-08	GPR55	G protein-coupled receptor 55 [Source:HGNC Symbol;Acc:4511]
3316	ENSG00000197142	1242.459498	0.64913096	0.112366867	4.29E-08	ACSL5	acyl-CoA synthetase long-chain family member 5 [Source:HGNC Symbol;Acc:16526]
3317	ENSG00000105982	119.37321	-1.796649755	0.311007525	4.29E-08	RNF32	ring finger protein 32 [Source:HGNC Symbol;Acc:17118]
3318	ENSG00000176845	217.8157326	1.496227432	0.259091774	4.34E-08	METRNL	meteorin, glial cell differentiation regulator-like [Source:HGNC Symbol;Acc:27584]
3319	ENSG00000129680	210.3497725	1.242405372	0.215155815	4.35E-08	MAP7D3	MAP7 domain containing 3 [Source:HGNC Symbol;Acc:25742]
3320	ENSG00000107521	2598.798756	-0.462619108	0.080144788	4.41E-08	HPS1	Hermansky-Pudlak syndrome 1 [Source:HGNC Symbol;Acc:5163]
3321	ENSG00000174749	1481.574184	-0.508575817	0.088134674	4.46E-08	C4orf32	chromosome 4 open reading frame 32 [Source:HGNC Symbol;Acc:26813]
3322	ENSG00000122707	191.0134692	1.404114171	0.243371618	4.48E-08	RECK	reversion-inducing-cysteine-rich protein with kazal motifs [Source:HGNC Symbol;Acc:11345]
3323	ENSG00000266472	206.475751	1.322146735	0.229170613	4.48E-08	AC242988.1	
3324	ENSG00000198931	579.3866111	0.868213925	0.150502551	4.50E-08	APRT	adenine phosphoribosyltransferase [Source:HGNC Symbol;Acc:626]
3325	ENSG00000263309	715.0018794	0.726601031	0.125989965	4.54E-08	KRT23	keratin 23 (histone deacetylase inducible) [Source:HGNC Symbol;Acc:6438]
3326	ENSG00000198736	8587.431187	-0.398883222	0.06918985	4.59E-08	MSRB1	methionine sulfoxide reductase B1 [Source:HGNC Symbol;Acc:14133]

3327	ENSG00000109265	27.40694857	-2.993809986	0.519360072	4.61E-08	KIAA1211	KIAA1211 [Source:HGNC Symbol;Acc:29219]
3328	ENSG00000184014	5588.592157	0.431409175	0.074854881	4.64E-08	DENND5A	DENN/MADD domain containing 5A [Source:HGNC Symbol;Acc:19344]
3329	ENSG00000068400	2625.7007	-0.449287007	0.077969628	4.66E-08	GRIPAP1	GRIP1 associated protein 1 [Source:HGNC Symbol;Acc:18706]
3330	ENSG00000184260	48.83225849	-2.365108428	0.410503858	4.68E-08	HIST2H2AC	histone cluster 2, H2ac [Source:HGNC Symbol;Acc:4738]
3331	ENSG00000263521	48.83225849	-2.365108428	0.410503858	4.68E-08	HIST2H2AC	histone cluster 2, H2ac [Source:HGNC Symbol;Acc:4738]
3332	ENSG00000112312	220.5139395	-1.298675026	0.225434436	4.70E-08	GMNN	geminin, DNA replication inhibitor [Source:HGNC Symbol;Acc:17493]
3333	ENSG00000130522	3117.71814	0.41054352	0.071266739	4.70E-08	JUND	jun D proto-oncogene [Source:HGNC Symbol;Acc:6206]
3334	ENSG00000147119	71.19661983	2.160137137	0.374981663	4.70E-08	CHST7	carbohydrate (N-acetylglucosamine 6-O) sulfotransferase 7 [Source:HGNC Symbol;Acc:13817]
3335	ENSG00000145214	552.7095665	1.130579887	0.196282665	4.72E-08	DGKQ	diacylglycerol kinase, theta 110kDa [Source:HGNC Symbol;Acc:2856]
3336	ENSG00000130024	1092.524496	0.612615546	0.106360845	4.72E-08	PHF10	PHD finger protein 10 [Source:HGNC Symbol;Acc:18250]
3337	ENSG00000138964	10131.8768	-0.330072742	0.057340854	4.82E-08	PARVG	parvin, gamma [Source:HGNC Symbol;Acc:14654]
3338	ENSG00000026103	1061.583884	0.60841559	0.105735489	4.88E-08	FAS	Fas cell surface death receptor [Source:HGNC Symbol;Acc:11920]
3339	ENSG00000071539	83.57145234	-2.032655811	0.353342727	4.92E-08	TRIP13	thyroid hormone receptor interactor 13 [Source:HGNC Symbol;Acc:12307]
3340	ENSG00000103264	246.2884687	1.178462248	0.204876418	4.94E-08	FBXO31	F-box protein 31 [Source:HGNC Symbol;Acc:16510]
3341	ENSG00000010244	6554.760682	-0.362431517	0.063021286	4.97E-08	ZNF207	zinc finger protein 207 [Source:HGNC Symbol;Acc:12998]
3342	ENSG00000108244	714.8344308	0.724751761	0.126023514	4.97E-08	KRT23	keratin 23 (histone deacetylase inducible) [Source:HGNC Symbol;Acc:6438]
3343	ENSG00000153975	345.9892369	-0.994185237	0.172897786	4.99E-08	ZUFSP	zinc finger with UFM1-specific peptidase domain [Source:HGNC Symbol;Acc:21224]
3344	ENSG00000140451	124.0600953	-1.610883943	0.280369278	5.13E-08	PIF1	PIF1 5'-to-3' DNA helicase [Source:HGNC Symbol;Acc:26220]
3345	ENSG00000103018	722.0450411	0.73869089	0.128576982	5.14E-08	CYB5B	cytochrome b5 type B (outer mitochondrial membrane) [Source:HGNC Symbol;Acc:24374]
3346	ENSG00000236609	72.08365663	2.132401433	0.371227777	5.17E-08	ZNF853	zinc finger protein 853 [Source:HGNC Symbol;Acc:21767]
3347	ENSG00000118873	1189.735338	-0.699189064	0.121734757	5.18E-08	RAB3GAP2	RAB3 GTPase activating protein subunit 2 (non-catalytic) [Source:HGNC Symbol;Acc:17168]
3348	ENSG00000110422	4646.154859	0.359455457	0.062599799	5.23E-08	HIPK3	homeodomain interacting protein kinase 3 [Source:HGNC Symbol;Acc:4915]
3349	ENSG00000015479	4487.411912	0.401774208	0.070010087	5.33E-08	MATR3	matrin 3 [Source:HGNC Symbol;Acc:6912]
3350	ENSG00000129515	2264.073235	0.45271366	0.078903762	5.37E-08	SNX6	sorting nexin 6 [Source:HGNC Symbol;Acc:14970]
3351	ENSG00000169764	2368.586224	-0.457887266	0.07987473	5.52E-08	UGP2	UDP-glucose pyrophosphorylase 2 [Source:HGNC Symbol;Acc:12527]
3352	ENSG00000143772	2643.635609	0.418937918	0.073081863	5.53E-08	ITPKB	inositol-trisphosphate 3-kinase B [Source:HGNC Symbol;Acc:6179]
3353	ENSG00000162636	832.5891845	-0.666266254	0.116233326	5.53E-08	FAM102B	family with sequence similarity 102, member B [Source:HGNC Symbol;Acc:27637]
3354	ENSG00000123329	14472.70083	-0.276453048	0.048236981	5.57E-08	ARHGAP9	Rho GTPase activating protein 9 [Source:HGNC Symbol;Acc:14130]

3355	ENSG00000182400	1239.138362	-0.573655107	0.100120892	5.61E-08	TRAPPC6B	trafficking protein particle complex 6B [Source:HGNC Symbol;Acc:23066]
3356	ENSG00000158615	3397.378218	-0.379156906	0.06619385	5.67E-08	PPP1R15B	protein phosphatase 1, regulatory subunit 15B [Source:HGNC Symbol;Acc:14951]
3357	ENSG00000163486	917.4976115	-0.814348911	0.142173313	5.67E-08	SRGAP2	SLIT-ROBO Rho GTPase activating protein 2 [Source:HGNC Symbol;Acc:19751]
3358	ENSG00000164430	383.7593871	-0.960116537	0.16763442	5.68E-08	MB21D1	Mab-21 domain containing 1 [Source:HGNC Symbol;Acc:21367]
3359	ENSG00000185811	7108.89603	-0.349158346	0.060967595	5.70E-08	IKZF1	IKAROS family zinc finger 1 (Ikaros) [Source:HGNC Symbol;Acc:13176]
3360	ENSG00000112511	577.5410988	-0.825793512	0.144212036	5.72E-08	PHF1	PHD finger protein 1 [Source:HGNC Symbol;Acc:8919]
3361	ENSG00000154330	291.1908472	1.146714437	0.200364799	5.82E-08	PGM5	phosphoglucomutase 5 [Source:HGNC Symbol;Acc:8908]
3362	ENSG00000240247	233598.4211	-1.570557264	0.27448754	5.87E-08	DEFA1B	defensin, alpha 1B [Source:HGNC Symbol;Acc:33596]
3363	ENSG00000133422	579.982984	0.937233665	0.16386721	5.95E-08	MORC2	MORC family CW-type zinc finger 2 [Source:HGNC Symbol;Acc:23573]
3364	ENSG00000031698	1757.469717	0.485680994	0.084939885	6.00E-08	SARS	seryl-tRNA synthetase [Source:HGNC Symbol;Acc:10537]
3365	ENSG00000161544	58.36192417	2.257793761	0.394880394	6.01E-08	CYGB	cytoglobin [Source:HGNC Symbol;Acc:16505]
3366	ENSG00000064547	5125.930571	-0.364193376	0.063715879	6.07E-08	LPAR2	lysophosphatidic acid receptor 2 [Source:HGNC Symbol;Acc:3168]
3367	ENSG00000168614	1502.065096	-0.520657619	0.091090688	6.07E-08	NBPF9	neuroblastoma breakpoint family, member 9 [Source:HGNC Symbol;Acc:31991]
3368	ENSG00000176749	405.7431294	0.955659476	0.167219531	6.10E-08	CDK5R1	cyclin-dependent kinase 5, regulatory subunit 1 (p35) [Source:HGNC Symbol;Acc:1775]
3369	ENSG00000134900	1782.172298	0.566407835	0.099130605	6.14E-08	TPP2	tripeptidyl peptidase II [Source:HGNC Symbol;Acc:12016]
3370	ENSG00000136807	1350.748787	0.577395706	0.101077788	6.19E-08	CDK9	cyclin-dependent kinase 9 [Source:HGNC Symbol;Acc:1780]
3371	ENSG00000187323	78.70550295	-1.885133117	0.330011567	6.19E-08	DCC	deleted in colorectal carcinoma [Source:HGNC Symbol;Acc:2701]
3372	ENSG00000069020	189.0373408	1.349718484	0.23631465	6.21E-08	MAST4	microtubule associated serine/threonine kinase family member 4 [Source:HGNC Symbol;Acc:19037]
3373	ENSG00000185651	2196.671659	-0.429829446	0.075291552	6.31E-08	UBE2L3	ubiquitin-conjugating enzyme E2L 3 [Source:HGNC Symbol;Acc:12488]
3374	ENSG00000022567	2707.769749	0.472933773	0.082868001	6.37E-08	SLC45A4	solute carrier family 45, member 4 [Source:HGNC Symbol;Acc:29196]
3375	ENSG00000167778	822.4285782	0.674331782	0.118182022	6.42E-08	SPRYD3	SPRY domain containing 3 [Source:HGNC Symbol;Acc:25920]
3376	ENSG00000269380	50.75229347	-2.251081941	0.3945979	6.46E-08	XK	X-linked Kx blood group (McLeod syndrome) [Source:HGNC Symbol;Acc:12811]
3377	ENSG00000170837	663.9805706	-0.773558271	0.135602229	6.46E-08	GPR27	G protein-coupled receptor 27 [Source:HGNC Symbol;Acc:4482]
3378	ENSG00000102554	738.8038791	-2.101293578	0.36850131	6.55E-08	KLF5	Kruppel-like factor 5 (intestinal) [Source:HGNC Symbol;Acc:6349]
3379	ENSG00000148481	767.0724667	-0.700089854	0.122809064	6.61E-08	FAM188A	family with sequence similarity 188, member A [Source:HGNC Symbol;Acc:23578]
3380	ENSG00000179218	4375.53959	-0.336409094	0.059016692	6.62E-08	CALR	calreticulin [Source:HGNC Symbol;Acc:1455]
3381	ENSG00000150401	561.4999176	-0.817854347	0.143508033	6.67E-08	DCUN1D2	DCN1, defective in cullin neddylation 1, domain containing 2 [Source:HGNC Symbol;Acc:20328]
3382	ENSG00000198133	278.4998846	1.137158566	0.199546777	6.68E-08	TMEM229B	transmembrane protein 229B [Source:HGNC Symbol;Acc:20130]

3383	ENSG00000111321	730.5307276	0.738040449	0.129520891	6.70E-08	LTBR	lymphotoxin beta receptor (TNFR superfamily, member 3) [Source:HGNC Symbol;Acc:6718]
3384	ENSG00000139631	2713.049794	-0.40101696	0.070376242	6.70E-08	CSAD	cysteine sulfinic acid decarboxylase [Source:HGNC Symbol;Acc:18966]
3385	ENSG00000185480	146.5972401	-1.413658691	0.248109155	6.71E-08	PARPBP	PARP1 binding protein [Source:HGNC Symbol;Acc:26074]
3386	ENSG00000196227	1139.527235	-0.58575406	0.102815893	6.73E-08	FAM217B	family with sequence similarity 217, member B [Source:HGNC Symbol;Acc:16170]
3387	ENSG00000140932	3960.68355	0.395887597	0.069532705	6.87E-08	CMTM2	CKLF-like MARVEL transmembrane domain containing 2 [Source:HGNC Symbol;Acc:19173]
3388	ENSG00000108309	45.47092205	2.431651202	0.427124755	6.89E-08	RUNDC3A	RUN domain containing 3A [Source:HGNC Symbol;Acc:16984]
3389	ENSG00000164048	1232.246777	-0.609593261	0.107129326	7.00E-08	ZNF589	zinc finger protein 589 [Source:HGNC Symbol;Acc:16747]
3390	ENSG00000126264	1648.221353	-0.543021185	0.095434254	7.01E-08	HCST	hematopoietic cell signal transducer [Source:HGNC Symbol;Acc:16977]
3391	ENSG00000235328	53.8038977	-2.324116418	0.408480948	7.03E-08	AC006946.12	
3392	ENSG00000196975	1212.222907	-0.571839841	0.100506723	7.03E-08	ANXA4	annexin A4 [Source:HGNC Symbol;Acc:542]
3393	ENSG00000142634	8885.017064	0.446086457	0.078431225	7.11E-08	EFHD2	EF-hand domain family, member D2 [Source:HGNC Symbol;Acc:28670]
3394	ENSG00000116675	62.48278848	-2.375455435	0.417758644	7.16E-08	DNAJC6	DnaJ (Hsp40) homolog, subfamily C, member 6 [Source:HGNC Symbol;Acc:15469]
3395	ENSG00000001036	586.5204741	-0.837545847	0.147298413	7.17E-08	FUCA2	fucosidase, alpha-L- 2, plasma [Source:HGNC Symbol;Acc:4008]
3396	ENSG00000047634	127.1187141	1.665030454	0.292855371	7.19E-08	SCML1	sex comb on midleg-like 1 (Drosophila) [Source:HGNC Symbol;Acc:10580]
3397	ENSG00000007341	233.1380796	-1.216800953	0.214076357	7.25E-08	ST7L	suppression of tumorigenicity 7 like [Source:HGNC Symbol;Acc:18441]
3398	ENSG00000042445	1092.953272	-0.657773882	0.115745144	7.29E-08	RETSAT	retinol saturase (all-trans-retinol 13,14-reductase) [Source:HGNC Symbol;Acc:25991]
3399	ENSG00000182247	49.61284618	2.359617914	0.415335634	7.36E-08	UBE2E2	ubiquitin-conjugating enzyme E2E 2 [Source:HGNC Symbol;Acc:12478]
3400	ENSG00000121671	527.8331909	0.818182898	0.144165837	7.62E-08	CRY2	cryptochrome 2 (photolyase-like) [Source:HGNC Symbol;Acc:2385]
3401	ENSG00000182504	708.6269324	-0.699715316	0.123293188	7.62E-08	CEP97	centrosomal protein 97kDa [Source:HGNC Symbol;Acc:26244]
3402	ENSG00000175727	2419.899821	0.65041866	0.114651725	7.72E-08	MLXIP	MLX interacting protein [Source:HGNC Symbol;Acc:17055]
3403	ENSG00000149554	256.3636179	-1.224419803	0.216019692	7.94E-08	CHEK1	checkpoint kinase 1 [Source:HGNC Symbol;Acc:1925]
3404	ENSG00000174238	2720.394182	0.429133491	0.075712426	7.95E-08	PITPNA	phosphatidylinositol transfer protein, alpha [Source:HGNC Symbol;Acc:9001]
3405	ENSG00000078804	1049.774112	-0.623244364	0.109977692	7.99E-08	TP53INP2	tumor protein p53 inducible nuclear protein 2 [Source:HGNC Symbol;Acc:16104]
3406	ENSG00000211787	47.07586836	2.534372897	0.44730242	8.04E-08	TRAV8-3	T cell receptor alpha variable 8-3 [Source:HGNC Symbol;Acc:12148]
3407	ENSG00000135363	1703.517851	-0.509987655	0.090020064	8.06E-08	LMO2	LIM domain only 2 (rhombotin-like 1) [Source:HGNC Symbol;Acc:6642]
3408	ENSG00000163659	591.5041957	0.782815916	0.138224561	8.15E-08	TIPARP	TCDD-inducible poly(ADP-ribose) polymerase [Source:HGNC Symbol;Acc:23696]
3409	ENSG00000047597	51.02362452	-2.226927759	0.393232691	8.16E-08	XK	X-linked Kx blood group (McLeod syndrome) [Source:HGNC Symbol;Acc:12811]
3410	ENSG00000120685	1234.646634	-0.710452517	0.125452759	8.16E-08	PROSER1	proline and serine rich 1 [Source:HGNC Symbol;Acc:20291]



3411	ENSG00000272611	152.8164968	-1.426800537	0.251960945	8.17E-08	CEACAM3	carcinoembryonic antigen-related cell adhesion molecule 3 [Source:HGNC Symbol;Acc:1815]
3412	ENSG00000267910	1458.452214	0.614044625	0.108444197	8.19E-08	KMT2A	lysine (K)-specific methyltransferase 2A [Source:HGNC Symbol;Acc:7132]
3413	ENSG00000101182	2645.837608	-0.409529473	0.07232776	8.20E-08	PSMA7	proteasome (prosome, macropain) subunit, alpha type, 7 [Source:HGNC Symbol;Acc:9536]
3414	ENSG00000110218	125.1292986	1.585375346	0.280129629	8.32E-08	PANX1	pannexin 1 [Source:HGNC Symbol;Acc:8599]
3415	ENSG00000102910	2684.404259	-0.405506725	0.071651941	8.32E-08	LONP2	lon peptidase 2, peroxisomal [Source:HGNC Symbol;Acc:20598]
3416	ENSG00000118058	1458.799853	0.613548604	0.108433322	8.38E-08	KMT2A	lysine (K)-specific methyltransferase 2A [Source:HGNC Symbol;Acc:7132]
3417	ENSG00000169629	207.9450177	-1.289113796	0.227941293	8.51E-08	RGPD8	RANBP2-like and GRIP domain containing 8 [Source:HGNC Symbol;Acc:9849]
3418	ENSG00000085063	1683.673491	-0.566605093	0.10021171	8.58E-08	CD59	CD59 molecule, complement regulatory protein [Source:HGNC Symbol;Acc:1689]
3419	ENSG00000186462	59.0467651	2.311000402	0.408916666	8.70E-08	NAP1L2	nucleosome assembly protein 1-like 2 [Source:HGNC Symbol;Acc:7638]
3420	ENSG00000164440	68.43003614	2.075659021	0.367311592	8.73E-08	TXLNB	taxilin beta [Source:HGNC Symbol;Acc:21617]
3421	ENSG00000255103	107.9413004	-1.660211603	0.293842555	8.78E-08	KIAA0754	KIAA0754 [Source:HGNC Symbol;Acc:29111]
3422	ENSG00000173511	192.2131633	1.343167552	0.237786306	8.84E-08	VEGFB	vascular endothelial growth factor B [Source:HGNC Symbol;Acc:12681]
3423	ENSG00000156711	1286.340436	-0.61182444	0.108337264	8.91E-08	MAPK13	mitogen-activated protein kinase 13 [Source:HGNC Symbol;Acc:6875]
3424	ENSG00000128274	29.5229559	-2.826627859	0.501130323	9.27E-08	A4GALT	alpha 1,4-galactosyltransferase [Source:HGNC Symbol;Acc:18149]
3425	ENSG00000214425	1673.692243	-0.491063402	0.087076509	9.32E-08	LRRRC37A4P	leucine rich repeat containing 37, member A4, pseudogene [Source:HGNC Symbol;Acc:25479]
3426	ENSG00000100814	320.0492562	0.984037891	0.174544478	9.41E-08	CCNB1IP1	cyclin B1 interacting protein 1, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:19437]
3427	ENSG00000089351	2534.888649	-0.500087224	0.088711203	9.44E-08	GRAMD1A	GRAM domain containing 1A [Source:HGNC Symbol;Acc:29305]
3428	ENSG00000146223	1744.06418	0.477474367	0.084702561	9.44E-08	RPL7L1	ribosomal protein L7-like 1 [Source:HGNC Symbol;Acc:21370]
3429	ENSG00000114735	585.0230064	0.775690607	0.137631686	9.50E-08	HEMK1	HemK methyltransferase family member 1 [Source:HGNC Symbol;Acc:24923]
3430	ENSG00000215378	115.828791	-1.630001079	0.289271264	9.56E-08	DEFT1P	defensin, theta 1 pseudogene [Source:HGNC Symbol;Acc:18339]
3431	ENSG00000244509	1659.789484	0.495367101	0.087929746	9.62E-08	APOBEC3C	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3C [Source:HGNC Symbol;Acc:17353]
3432	ENSG00000159423	251.6819045	-1.157513546	0.20555981	9.77E-08	ALDH4A1	aldehyde dehydrogenase 4 family, member A1 [Source:HGNC Symbol;Acc:406]
3433	ENSG00000166887	3617.117923	-0.397246269	0.070551161	9.79E-08	VPS39	vacuolar protein sorting 39 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:20593]
3434	ENSG00000104343	2291.492489	-0.462524044	0.082170515	9.89E-08	UBE2W	ubiquitin-conjugating enzyme E2W (putative) [Source:HGNC Symbol;Acc:25616]
3435	ENSG00000128908	814.8975892	0.806090029	0.143216101	9.90E-08	INO80	INO80 complex subunit [Source:HGNC Symbol;Acc:26956]
3436	ENSG00000213551	686.6450025	-0.706511169	0.125526565	9.91E-08	DNAJC9	DnaJ (Hsp40) homolog, subfamily C, member 9 [Source:HGNC Symbol;Acc:19123]
3437	ENSG00000101337	1531.928538	0.516691708	0.091831091	1.00E-07	TM9SF4	transmembrane 9 superfamily protein member 4 [Source:HGNC Symbol;Acc:30797]
3438	ENSG00000106617	880.3598762	0.676729144	0.120282043	1.00E-07	PRKAG2	protein kinase, AMP-activated, gamma 2 non-catalytic subunit [Source:HGNC Symbol;Acc:9386]

3439	ENSG00000071537	2579.906913	-0.407902816	0.072526127	1.01E-07	SEL1L	sel-1 suppressor of lin-12-like (C. elegans) [Source:HGNC Symbol;Acc:10717]
3440	ENSG00000177721	353.9592684	0.980246115	0.174319749	1.02E-07	ANXA2R	annexin A2 receptor [Source:HGNC Symbol;Acc:33463]
3441	ENSG00000143882	124.9951744	-1.681164824	0.298995455	1.02E-07	ATP6V1C2	ATPase, H+ transporting, lysosomal 42kDa, V1 subunit C2 [Source:HGNC Symbol;Acc:18264]
3442	ENSG00000154380	117.8221289	1.653862156	0.294189398	1.03E-07	ENAH	enabled homolog (Drosophila) [Source:HGNC Symbol;Acc:18271]
3443	ENSG00000115657	247.8466155	-1.118914871	0.199041452	1.03E-07	ABCB6	ATP-binding cassette, sub-family B (MDR/TAP), member 6 [Source:HGNC Symbol;Acc:47]
3444	ENSG00000117298	3930.815848	-0.412880291	0.073451306	1.03E-07	ECE1	endothelin converting enzyme 1 [Source:HGNC Symbol;Acc:3146]
3445	ENSG00000168878	136.1791304	-1.532361996	0.272631334	1.03E-07	SFTPB	surfactant protein B [Source:HGNC Symbol;Acc:10801]
3446	ENSG00000224740	2066.14761	-0.441007357	0.078491135	1.05E-07	FLOT1	flotillin 1 [Source:HGNC Symbol;Acc:3757]
3447	ENSG00000242221	111.7924783	-1.612368445	0.287004238	1.05E-07	PSG2	pregnancy specific beta-1-glycoprotein 2 [Source:HGNC Symbol;Acc:9519]
3448	ENSG00000168495	349.1058867	1.152633892	0.205222038	1.06E-07	POLR3D	polymerase (RNA) III (DNA directed) polypeptide D, 44kDa [Source:HGNC Symbol;Acc:1080]
3449	ENSG00000137760	144.7512669	1.478927214	0.263393209	1.07E-07	ALKBH8	alkB, alkylation repair homolog 8 (E. coli) [Source:HGNC Symbol;Acc:25189]
3450	ENSG00000188672	30.9373886	-2.702388139	0.481452094	1.08E-07	RHCE	Rh blood group, CcEe antigens [Source:HGNC Symbol;Acc:10008]
3451	ENSG00000125686	1146.279445	0.58060187	0.103455926	1.08E-07	MED1	mediator complex subunit 1 [Source:HGNC Symbol;Acc:9234]
3452	ENSG00000035115	458.969693	0.92928554	0.165605207	1.09E-07	SH3YL1	SH3 and SYLF domain containing 1 [Source:HGNC Symbol;Acc:29546]
3453	ENSG00000108883	1977.978909	-0.478630438	0.08530216	1.09E-07	EFTUD2	elongation factor Tu GTP binding domain containing 2 [Source:HGNC Symbol;Acc:30858]
3454	ENSG00000167468	1173.117213	0.619172206	0.110363851	1.09E-07	GPX4	glutathione peroxidase 4 [Source:HGNC Symbol;Acc:4556]
3455	ENSG00000172775	3489.992422	-0.37983927	0.067720423	1.10E-07	FAM192A	family with sequence similarity 192, member A [Source:HGNC Symbol;Acc:29856]
3456	ENSG00000163902	3424.477067	0.366780963	0.06539878	1.11E-07	RPN1	ribophorin I [Source:HGNC Symbol;Acc:10381]
3457	ENSG00000004455	2546.759948	-0.456491517	0.081403387	1.11E-07	AK2	adenylate kinase 2 [Source:HGNC Symbol;Acc:362]
3458	ENSG00000211779	43.686094	2.486744789	0.443462374	1.11E-07	TRAV5	T cell receptor alpha variable 5 [Source:HGNC Symbol;Acc:12143]
3459	ENSG00000174437	2106.262343	-0.459782442	0.082036418	1.13E-07	ATP2A2	ATPase, Ca++ transporting, cardiac muscle, slow twitch 2 [Source:HGNC Symbol;Acc:812]
3460	ENSG00000148459	138.8875999	-1.425303656	0.254309929	1.13E-07	PDS1	prenyl (decaprenyl) diphosphate synthase, subunit 1 [Source:HGNC Symbol;Acc:17759]
3461	ENSG00000177548	199.7833835	1.391381231	0.248337682	1.14E-07	RABEP2	rabaptin, RAB GTPase binding effector protein 2 [Source:HGNC Symbol;Acc:24817]
3462	ENSG00000133067	108.9254995	1.862901107	0.332504069	1.14E-07	LGR6	leucine-rich repeat containing G protein-coupled receptor 6 [Source:HGNC Symbol;Acc:19719]
3463	ENSG00000185432	834.8325672	0.686727087	0.122577985	1.14E-07	METTL7A	methyltransferase like 7A [Source:HGNC Symbol;Acc:24550]
3464	ENSG00000088726	60.52596067	2.150599009	0.384088671	1.16E-07	TMEM40	transmembrane protein 40 [Source:HGNC Symbol;Acc:25620]
3465	ENSG00000157014	1993.072551	-0.488839974	0.087319556	1.17E-07	TATDN2	TatD DNase domain containing 2 [Source:HGNC Symbol;Acc:28988]
3466	ENSG00000169255	93.93526795	-1.753666135	0.313265789	1.17E-07	B3GALNT1	beta-1,3-N-acetylgalactosaminyltransferase 1 (globoside blood group) [Source:HGNC Symbol;Acc:918]

3467	ENSG00000198771	6695.507874	0.293482755	0.052453946	1.19E-07	RCS D1	RCS D domain containing 1 [Source:HGNC Symbol;Acc:28310]
3468	ENSG00000148396	3152.300822	-0.383678262	0.068599871	1.20E-07	SEC16A	SEC16 homolog A ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:29006]
3469	ENSG00000090975	232.1277941	1.288631758	0.230436993	1.21E-07	PITPNM2	phosphatidylinositol transfer protein, membrane-associated 2 [Source:HGNC Symbol;Acc:21044]
3470	ENSG00000074370	8718.756658	-0.477272483	0.085374543	1.22E-07	ATP2A3	ATPase, Ca <sup>++</sup> transporting, ubiquitous [Source:HGNC Symbol;Acc:813]
3471	ENSG00000186635	10995.56912	-0.379898232	0.067959624	1.22E-07	ARAP1	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 1 [Source:HGNC Symbol;Acc:16925]
3472	ENSG00000241553	6768.744567	-0.312795955	0.055968545	1.23E-07	ARPC4	actin related protein 2/3 complex, subunit 4, 20kDa [Source:HGNC Symbol;Acc:707]
3473	ENSG00000163219	9761.708561	0.305489171	0.054700642	1.26E-07	ARHGAP25	Rho GTPase activating protein 25 [Source:HGNC Symbol;Acc:28951]
3474	ENSG00000178209	1397.17879	-0.6353005	0.113797021	1.28E-07	PLEC	plectin [Source:HGNC Symbol;Acc:9069]
3475	ENSG00000177885	7346.921121	-0.305978212	0.054812899	1.28E-07	GRB2	growth factor receptor-bound protein 2 [Source:HGNC Symbol;Acc:4566]
3476	ENSG00000261109	1395.65515	-0.634911227	0.113745027	1.28E-07	PLEC	plectin [Source:HGNC Symbol;Acc:9069]
3477	ENSG00000197841	170.2721241	1.387798552	0.248654432	1.29E-07	ZNF181	zinc finger protein 181 [Source:HGNC Symbol;Acc:12971]
3478	ENSG00000167323	2481.509281	-0.467996042	0.083858293	1.29E-07	STIM1	stromal interaction molecule 1 [Source:HGNC Symbol;Acc:11386]
3479	ENSG00000268123	203.0836934	1.266618769	0.227038073	1.30E-07	C12orf57	chromosome 12 open reading frame 57 [Source:HGNC Symbol;Acc:29521]
3480	ENSG00000156521	295.9845851	1.085388657	0.19456582	1.30E-07	TYSND1	trypsin domain containing 1 [Source:HGNC Symbol;Acc:28531]
3481	ENSG00000184634	2269.784811	-0.46678579	0.083680616	1.31E-07	MED12	mediator complex subunit 12 [Source:HGNC Symbol;Acc:11957]
3482	ENSG00000268501	565.2287796	-0.886413673	0.158907589	1.31E-07	CCDC22	coiled-coil domain containing 22 [Source:HGNC Symbol;Acc:28909]
3483	ENSG00000074054	1589.698744	-0.498584008	0.089416654	1.32E-07	CLASP1	cytoplasmic linker associated protein 1 [Source:HGNC Symbol;Acc:17088]
3484	ENSG00000124496	1769.614362	0.471639139	0.084584978	1.32E-07	TRERF1	transcriptional regulating factor 1 [Source:HGNC Symbol;Acc:18273]
3485	ENSG00000175197	1220.536306	-0.552870484	0.099167274	1.33E-07	DDIT3	DNA-damage-inducible transcript 3 [Source:HGNC Symbol;Acc:2726]
3486	ENSG00000164151	1072.82746	0.600489856	0.107754266	1.35E-07	KIAA0947	KIAA0947 [Source:HGNC Symbol;Acc:29154]
3487	ENSG00000157107	1201.565433	0.637987144	0.11449042	1.35E-07	FCHO2	FCH domain only 2 [Source:HGNC Symbol;Acc:25180]
3488	ENSG00000197586	510.216773	0.906243895	0.162667637	1.36E-07	ENTPD6	ectonucleoside triphosphate diphosphohydrolase 6 (putative) [Source:HGNC Symbol;Acc:3368]
3489	ENSG00000028528	4135.806279	-0.404725915	0.072655623	1.36E-07	SNX1	sorting nexin 1 [Source:HGNC Symbol;Acc:11172]
3490	ENSG00000108175	2578.301499	0.633307661	0.113695327	1.36E-07	ZMIZ1	zinc finger, MIZ-type containing 1 [Source:HGNC Symbol;Acc:16493]
3491	ENSG00000112679	1917.604461	-0.462071355	0.082965879	1.37E-07	DUSP22	dual specificity phosphatase 22 [Source:HGNC Symbol;Acc:16077]
3492	ENSG00000013583	334.3057279	-1.036650039	0.186137353	1.37E-07	HEBP1	heme binding protein 1 [Source:HGNC Symbol;Acc:17176]
3493	ENSG00000152684	338.4823604	-0.981142969	0.176278202	1.40E-07	PELO	pelota homolog ( <i>Drosophila</i> ) [Source:HGNC Symbol;Acc:8829]
3494	ENSG00000132952	855.0510967	0.635652921	0.114223226	1.40E-07	USP1	ubiquitin specific peptidase like 1 [Source:HGNC Symbol;Acc:20294]

3495	ENSG00000143393	2708.067616	-0.40041283	0.071966479	1.41E-07	PI4KB	phosphatidylinositol 4-kinase, catalytic, beta [Source:HGNC Symbol;Acc:8984]
3496	ENSG00000131941	174.6864423	-1.313723686	0.236149799	1.42E-07	RHPN2	rhophilin, Rho GTPase binding protein 2 [Source:HGNC Symbol;Acc:19974]
3497	ENSG00000152223	1716.103574	-0.604221345	0.108619903	1.42E-07	EPG5	ectopic P-granules autophagy protein 5 homolog (C. elegans) [Source:HGNC Symbol;Acc:29331]
3498	ENSG00000069966	230.6362237	1.200922757	0.215897931	1.42E-07	GNB5	guanine nucleotide binding protein (G protein), beta 5 [Source:HGNC Symbol;Acc:4401]
3499	ENSG00000077238	4138.421942	-0.351379634	0.063196038	1.44E-07	IL4R	interleukin 4 receptor [Source:HGNC Symbol;Acc:6015]
3500	ENSG00000186088	2059.435772	-0.497171732	0.089449502	1.46E-07	GSAP	gamma-secretase activating protein [Source:HGNC Symbol;Acc:28042]
3501	ENSG00000111678	203.2452439	1.261101135	0.226954372	1.47E-07	C12orf57	chromosome 12 open reading frame 57 [Source:HGNC Symbol;Acc:29521]
3502	ENSG00000115163	71.94044702	-1.968640834	0.354405116	1.49E-07	CENPA	centromere protein A [Source:HGNC Symbol;Acc:1851]
3503	ENSG00000159086	986.4812608	-0.615044062	0.110738572	1.49E-07	PAXBP1	PAX3 and PAX7 binding protein 1 [Source:HGNC Symbol;Acc:13579]
3504	ENSG00000132530	1462.806676	0.550668578	0.099165353	1.50E-07	XAF1	XIAP associated factor 1 [Source:HGNC Symbol;Acc:30932]
3505	ENSG00000122643	1296.583594	-0.578691131	0.104217084	1.50E-07	NT5C3A	5'-nucleotidase, cytosolic IIIA [Source:HGNC Symbol;Acc:17820]
3506	ENSG00000214114	1137.580367	-0.630363801	0.113589343	1.53E-07	MYCBP	MYC binding protein [Source:HGNC Symbol;Acc:7554]
3507	ENSG00000137261	171.510087	1.440380201	0.259721107	1.56E-07	KIAA0319	KIAA0319 [Source:HGNC Symbol;Acc:21580]
3508	ENSG00000187862	70.23573616	2.029151395	0.365925845	1.57E-07	TTC24	tetratricopeptide repeat domain 24 [Source:HGNC Symbol;Acc:32348]
3509	ENSG00000204103	132.7871226	1.543729597	0.278457366	1.58E-07	MAFB	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog B [Source:HGNC Symbol;Acc:6408]
3510	ENSG00000213923	873.1076712	0.683885336	0.123359132	1.58E-07	CSNK1E	casein kinase 1, epsilon [Source:HGNC Symbol;Acc:2453]
3511	ENSG00000108848	6802.663294	0.338217938	0.061027331	1.59E-07	LUC7L3	LUC7-like 3 (S. cerevisiae) [Source:HGNC Symbol;Acc:24309]
3512	ENSG00000040633	996.658486	0.61198611	0.110446207	1.60E-07	PHF23	PHD finger protein 23 [Source:HGNC Symbol;Acc:28428]
3513	ENSG00000117480	276.0076399	-1.230498368	0.222119715	1.61E-07	FAAH	fatty acid amide hydrolase [Source:HGNC Symbol;Acc:3553]
3514	ENSG00000263141	985.86677	-0.613444832	0.110811402	1.65E-07	PAXBP1	PAX3 and PAX7 binding protein 1 [Source:HGNC Symbol;Acc:13579]
3515	ENSG00000158373	260.0198579	-1.184993243	0.214094885	1.66E-07	HIST1H2BD	histone cluster 1, H2bd [Source:HGNC Symbol;Acc:4747]
3516	ENSG00000137309	1127.016065	-0.544378306	0.098409524	1.69E-07	HMGA1	high mobility group AT-hook 1 [Source:HGNC Symbol;Acc:5010]
3517	ENSG00000072042	650.9343403	0.707286432	0.12787456	1.69E-07	RDH11	retinol dehydrogenase 11 (all-trans/9-cis/11-cis) [Source:HGNC Symbol;Acc:17964]
3518	ENSG00000180573	3335.943542	0.36092122	0.065273562	1.71E-07	HIST1H2AC	histone cluster 1, H2ac [Source:HGNC Symbol;Acc:4733]
3519	ENSG00000119048	2971.528929	0.386584573	0.069925567	1.72E-07	UBE2B	ubiquitin-conjugating enzyme E2B [Source:HGNC Symbol;Acc:12473]
3520	ENSG00000151327	1060.38535	-0.648220865	0.117294396	1.74E-07	FAM177A1	family with sequence similarity 177, member A1 [Source:HGNC Symbol;Acc:19829]
3521	ENSG00000115339	614.9331071	-0.791211371	0.143173364	1.74E-07	GALNT3	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 3 (GalNAc-T3) [Source:HGNC Symbol;Acc:4125]
3522	ENSG00000175130	1637.24671	-0.488471086	0.088426323	1.76E-07	MARCKSL1	MARCKS-like 1 [Source:HGNC Symbol;Acc:7142]

3523	ENSG00000143742	3403.241027	-0.374043641	0.067713586	1.76E-07	SRP9	signal recognition particle 9kDa [Source:HGNC Symbol;Acc:11304]
3524	ENSG00000136045	522.4240899	0.782218205	0.141618243	1.77E-07	PWP1	PWP1 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:17015]
3525	ENSG00000138166	123.0070932	1.519614128	0.275336257	1.81E-07	DUSP5	dual specificity phosphatase 5 [Source:HGNC Symbol;Acc:3071]
3526	ENSG00000167702	429.4926193	0.873682871	0.158319126	1.81E-07	KIFC2	kinesin family member C2 [Source:HGNC Symbol;Acc:29530]
3527	ENSG00000022840	4550.454435	-0.431174931	0.078151198	1.83E-07	RNF10	ring finger protein 10 [Source:HGNC Symbol;Acc:10055]
3528	ENSG00000113296	258.9089106	-1.098087213	0.199042519	1.83E-07	THBS4	thrombospondin 4 [Source:HGNC Symbol;Acc:11788]
3529	ENSG00000129003	3197.189705	0.44836469	0.081291379	1.84E-07	VPS13C	vacuolar protein sorting 13 homolog C (S. cerevisiae) [Source:HGNC Symbol;Acc:23594]
3530	ENSG00000074755	3214.114721	-0.388651036	0.070472714	1.85E-07	ZZEF1	zinc finger, ZZ-type with EF-hand domain 1 [Source:HGNC Symbol;Acc:29027]
3531	ENSG00000198818	1521.264291	-0.551805368	0.100064474	1.85E-07	SFT2D1	SFT2 domain containing 1 [Source:HGNC Symbol;Acc:21102]
3532	ENSG00000101439	1614.999625	0.561504784	0.101845097	1.87E-07	CST3	cystatin C [Source:HGNC Symbol;Acc:2475]
3533	ENSG00000143933	7873.824545	0.312795501	0.056737098	1.87E-07	CALM2	calmodulin 2 (phosphorylase kinase, delta) [Source:HGNC Symbol;Acc:1445]
3534	ENSG00000181418	31.91186522	-2.598106878	0.471494065	1.90E-07	DDN	dendrin [Source:HGNC Symbol;Acc:24458]
3535	ENSG00000126070	1569.950267	-0.527848745	0.095795616	1.90E-07	AGO3	argonaute RISC catalytic component 3 [Source:HGNC Symbol;Acc:18421]
3536	ENSG00000151726	11010.62193	-0.30374654	0.055134081	1.91E-07	ACSL1	acyl-CoA synthetase long-chain family member 1 [Source:HGNC Symbol;Acc:3569]
3537	ENSG00000104341	185.7110216	-1.259541595	0.228642977	1.91E-07	LAPTM4B	lysosomal protein transmembrane 4 beta [Source:HGNC Symbol;Acc:13646]
3538	ENSG00000143569	2884.866097	-0.435732226	0.079111967	1.92E-07	UBAP2L	ubiquitin associated protein 2-like [Source:HGNC Symbol;Acc:29877]
3539	ENSG00000232528	128.343699	-1.50902537	0.274050664	1.94E-07	RP4-673D20.3	
3540	ENSG00000205189	186.2604411	1.344495507	0.244236536	1.95E-07	ZBTB10	zinc finger and BTB domain containing 10 [Source:HGNC Symbol;Acc:30953]
3541	ENSG00000174780	1217.87814	0.680619135	0.123715716	1.99E-07	SRP72	signal recognition particle 72kDa [Source:HGNC Symbol;Acc:11303]
3542	ENSG00000075420	2035.122988	-0.494507392	0.089892657	1.99E-07	FNDC3B	fibronectin type III domain containing 3B [Source:HGNC Symbol;Acc:24670]
3543	ENSG00000225079	41.60553313	2.558775934	0.465268474	2.01E-07	FTH1P22	ferritin, heavy polypeptide 1 pseudogene 22 [Source:HGNC Symbol;Acc:37640]
3544	ENSG00000178802	365.0795339	0.957223239	0.174056496	2.01E-07	MPI	mannose phosphate isomerase [Source:HGNC Symbol;Acc:7216]
3545	ENSG00000086717	63.11239329	-1.977917599	0.359676757	2.01E-07	PPEF1	protein phosphatase, EF-hand calcium binding domain 1 [Source:HGNC Symbol;Acc:9243]
3546	ENSG00000179295	1573.663656	-0.506305365	0.092104483	2.04E-07	PTPN11	protein tyrosine phosphatase, non-receptor type 11 [Source:HGNC Symbol;Acc:9644]
3547	ENSG00000156313	636.0085123	0.761422172	0.138520363	2.04E-07	RPGR	retinitis pigmentosa GTPase regulator [Source:HGNC Symbol;Acc:10295]
3548	ENSG00000071246	362.0264708	0.990146648	0.180138276	2.04E-07	VASH1	vasohibin 1 [Source:HGNC Symbol;Acc:19964]
3549	ENSG00000196199	2773.638466	0.400593823	0.072912143	2.07E-07	MPHOSPH8	M-phase phosphoprotein 8 [Source:HGNC Symbol;Acc:29810]
3550	ENSG00000146066	624.1832431	0.712651959	0.129714352	2.07E-07	HIGD2A	HIG1 hypoxia inducible domain family, member 2A [Source:HGNC Symbol;Acc:28311]

3551	ENSG00000168763	578.2075938	0.828530721	0.150824195	2.08E-07	CNNM3	cyclin M3 [Source:HGNC Symbol;Acc:104]
3552	ENSG00000113231	76.9560162	1.883431767	0.342915189	2.09E-07	PDE8B	phosphodiesterase 8B [Source:HGNC Symbol;Acc:8794]
3553	ENSG00000122557	1694.925409	0.498293962	0.090746871	2.10E-07	HERPUD2	HERPUD family member 2 [Source:HGNC Symbol;Acc:21915]
3554	ENSG00000167984	1741.733534	0.478338327	0.08714409	2.13E-07	NLRC3	NLR family, CARD domain containing 3 [Source:HGNC Symbol;Acc:29889]
3555	ENSG00000162517	1371.857554	-0.513709534	0.093628365	2.16E-07	PEF1	penta-EF-hand domain containing 1 [Source:HGNC Symbol;Acc:30009]
3556	ENSG00000116691	975.878225	-0.868432937	0.158289969	2.16E-07	MIIIP	migration and invasion inhibitory protein [Source:HGNC Symbol;Acc:25715]
3557	ENSG00000021645	121.6107885	3.109559005	0.566986931	2.18E-07	NRXN3	neurexin 3 [Source:HGNC Symbol;Acc:8010]
3558	ENSG00000089639	6194.904649	-0.377209492	0.068815899	2.22E-07	GMIP	GEM interacting protein [Source:HGNC Symbol;Acc:24852]
3559	ENSG00000125037	1077.274977	0.603406258	0.110102086	2.23E-07	EMC3	ER membrane protein complex subunit 3 [Source:HGNC Symbol;Acc:23999]
3560	ENSG00000106069	155.2990106	1.394866637	0.25455733	2.24E-07	CHN2	chimerin 2 [Source:HGNC Symbol;Acc:1944]
3561	ENSG00000155016	91.34636225	1.845227115	0.336815873	2.25E-07	CYP2U1	cytochrome P450, family 2, subfamily U, polypeptide 1 [Source:HGNC Symbol;Acc:20582]
3562	ENSG00000065911	578.6284173	-0.727573619	0.132856545	2.28E-07	MTHFD2	methylenetetrahydrofolate dehydrogenase (NADP+ dependent) 2, methylenetetrahydrofolate cyclohydrolase [Source:HGNC Symbol;Acc:7434]
3563	ENSG00000165914	291.0480309	-1.008433407	0.184154544	2.28E-07	TTC7B	tetratricopeptide repeat domain 7B [Source:HGNC Symbol;Acc:19858]
3564	ENSG00000214753	3515.411398	0.388372584	0.070946749	2.31E-07	HNRNPUL2	heterogeneous nuclear ribonucleoprotein U-like 2 [Source:HGNC Symbol;Acc:25451]
3565	ENSG00000113368	2051.367804	-0.490896904	0.089735747	2.36E-07	LMNB1	lamin B1 [Source:HGNC Symbol;Acc:6637]
3566	ENSG00000131153	187.2478471	-1.325042823	0.242218121	2.36E-07	GINS2	GINS complex subunit 2 (Psf2 homolog) [Source:HGNC Symbol;Acc:24575]
3567	ENSG00000261964	80.49137903	2.155040165	0.393945196	2.36E-07	ADAMTS10	ADAM metalloproteinase with thrombospondin type 1 motif, 10 [Source:HGNC Symbol;Acc:13201]
3568	ENSG00000163386	5424.024315	0.351323788	0.064238307	2.37E-07	NBPF10	neuroblastoma breakpoint family, member 10 [Source:HGNC Symbol;Acc:31992]
3569	ENSG00000239457	27.41557585	2.876728184	0.526128881	2.39E-07	HLA-DOB	major histocompatibility complex, class II, DO beta [Source:HGNC Symbol;Acc:4937]
3570	ENSG00000211694	67.92175524	2.087001368	0.3817744	2.41E-07	TRGV10	T cell receptor gamma variable 10 (non-functional) [Source:HGNC Symbol;Acc:12285]
3571	ENSG00000165480	94.14466723	-1.840530301	0.336786329	2.43E-07	SKA3	spindle and kinetochore associated complex subunit 3 [Source:HGNC Symbol;Acc:20262]
3572	ENSG00000145088	319.46953	-0.957670629	0.175253603	2.43E-07	EAF2	ELL associated factor 2 [Source:HGNC Symbol;Acc:23115]
3573	ENSG00000147457	1347.884314	0.529658049	0.096950159	2.45E-07	CHMP7	charged multivesicular body protein 7 [Source:HGNC Symbol;Acc:28439]
3574	ENSG00000178761	2108.131672	-0.494419851	0.090521962	2.47E-07	FAM219B	family with sequence similarity 219, member B [Source:HGNC Symbol;Acc:24695]
3575	ENSG00000186074	2123.105512	-0.432151181	0.079130552	2.48E-07	CD300LF	CD300 molecule-like family member f [Source:HGNC Symbol;Acc:29883]
3576	ENSG00000136108	453.376315	-0.84551899	0.154848976	2.49E-07	CKAP2	cytoskeleton associated protein 2 [Source:HGNC Symbol;Acc:1990]
3577	ENSG00000123159	131.8112518	1.533496284	0.280950281	2.52E-07	GIPC1	GIPC PDZ domain containing family, member 1 [Source:HGNC Symbol;Acc:1226]
3578	ENSG00000198000	1000.814013	0.586912492	0.107554547	2.53E-07	NOL8	nucleolar protein 8 [Source:HGNC Symbol;Acc:23387]

3579	ENSG00000058091	303.5401625	-1.193878078	0.218812344	2.54E-07	CDK14	cyclin-dependent kinase 14 [Source:HGNC Symbol;Acc:8883]
3580	ENSG00000187118	375.1105938	0.897617724	0.164636307	2.60E-07	CMC1	C-x(9)-C motif containing 1 [Source:HGNC Symbol;Acc:28783]
3581	ENSG00000113163	2414.553236	-0.462052686	0.084753236	2.61E-07	COL4A3BP	collagen, type IV, alpha 3 (Goodpasture antigen) binding protein [Source:HGNC Symbol;Acc:2205]
3582	ENSG00000204946	344.7322995	1.104441829	0.202610175	2.62E-07	ZNF783	zinc finger family member 783 [Source:HGNC Symbol;Acc:27222]
3583	ENSG00000187266	436.8264448	-0.83869947	0.153967369	2.67E-07	EPOR	erythropoietin receptor [Source:HGNC Symbol;Acc:3416]
3584	ENSG00000168807	603.6794313	-0.732197329	0.134427787	2.68E-07	SNTB2	syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2) [Source:HGNC Symbol;Acc:11169]
3585	ENSG00000127585	85.85467629	1.859352001	0.341417982	2.69E-07	FBXL16	F-box and leucine-rich repeat protein 16 [Source:HGNC Symbol;Acc:14150]
3586	ENSG00000198339	37.46292975	-2.416625729	0.443971271	2.73E-07	HIST1H4I	histone cluster 1, H4i [Source:HGNC Symbol;Acc:4793]
3587	ENSG00000177169	3234.182721	-0.607968707	0.111720798	2.75E-07	ULK1	unc-51 like autophagy activating kinase 1 [Source:HGNC Symbol;Acc:12558]
3588	ENSG00000206452	1723.064258	0.666965957	0.122599656	2.78E-07	HLA-C	major histocompatibility complex, class I, C [Source:HGNC Symbol;Acc:4933]
3589	ENSG00000106785	2027.760512	-0.455959752	0.083838196	2.80E-07	TRIM14	tripartite motif containing 14 [Source:HGNC Symbol;Acc:16283]
3590	ENSG00000033100	1468.363667	0.58757081	0.108038889	2.80E-07	CHPF2	chondroitin polymerizing factor 2 [Source:HGNC Symbol;Acc:29270]
3591	ENSG00000138036	128.3198121	-1.474218581	0.271098851	2.81E-07	DYNC2LI1	dynein, cytoplasmic 2, light intermediate chain 1 [Source:HGNC Symbol;Acc:24595]
3592	ENSG00000121989	103.1901786	1.756697393	0.323102598	2.82E-07	ACVR2A	activin A receptor, type IIA [Source:HGNC Symbol;Acc:173]
3593	ENSG00000271361	241.6356361	-1.145363761	0.210753859	2.86E-07	HTATSF1P2	HIV-1 Tat specific factor 1 pseudogene 2 [Source:HGNC Symbol;Acc:38586]
3594	ENSG00000232653	490.263286	-0.857088683	0.157754468	2.88E-07	GOLGA8N	golgin A8 family, member N [Source:HGNC Symbol;Acc:44405]
3595	ENSG00000225996	193.0513092	1.252369051	0.230538106	2.89E-07	AL356356.1	Protein LOC100996516 [Source:UniProtKB/TrEMBL;Acc:Q8WYY2]
3596	ENSG00000181220	1868.414896	0.503412991	0.09268494	2.91E-07	ZNF746	zinc finger protein 746 [Source:HGNC Symbol;Acc:21948]
3597	ENSG00000080822	1468.36013	0.507098224	0.093372269	2.92E-07	CLDN1	claudin domain containing 1 [Source:HGNC Symbol;Acc:1322]
3598	ENSG00000136938	3624.594819	-0.380210442	0.070043735	2.96E-07	ANP32B	acidic (leucine-rich) nuclear phosphoprotein 32 family, member B [Source:HGNC Symbol;Acc:16677]
3599	ENSG00000101265	16465.04279	-0.268309131	0.049463792	3.02E-07	RASSF2	Ras association (RalGDS/AF-6) domain family member 2 [Source:HGNC Symbol;Acc:9883]
3600	ENSG00000214279	176.8224751	1.421825766	0.26216945	3.04E-07	RP11-108K14.4	
3601	ENSG00000107362	360.6042351	0.914735574	0.168683087	3.05E-07	ABHD17B	abhydrolase domain containing 17B [Source:HGNC Symbol;Acc:24278]
3602	ENSG00000179010	2642.443479	0.388180244	0.071619192	3.10E-07	MRFAP1	Morf4 family associated protein 1 [Source:HGNC Symbol;Acc:24549]
3603	ENSG00000145416	466.5889466	0.878197133	0.16205798	3.11E-07	MARCH1	membrane-associated ring finger (C3HC4) 1, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:26077]
3604	ENSG00000213366	442.5201642	0.835462942	0.154183672	3.12E-07	GSTM2	glutathione S-transferase mu 2 (muscle) [Source:HGNC Symbol;Acc:4634]
3605	ENSG00000079432	1189.210571	0.751781745	0.138759871	3.13E-07	CIC	capicua transcriptional repressor [Source:HGNC Symbol;Acc:14214]
3606	ENSG00000122547	881.3086313	-0.615663025	0.113636053	3.13E-07	EEPD1	endonuclease/exonuclease/phosphatase family domain containing 1 [Source:HGNC Symbol;Acc:22223]

3607	ENSG00000204131	1135.364122	0.583270984	0.107691217	3.16E-07	NHSL2	NHS-like 2 [Source:HGNC Symbol;Acc:33737]
3608	ENSG00000269713	170.3220767	1.379636415	0.254728573	3.16E-07	NBPF10	Neuroblastoma breakpoint family member 10 [Source:UniProtKB/TrEMBL;Acc:11VE14]
3609	ENSG00000133104	1344.329565	-0.668043287	0.12335183	3.16E-07	SPG20	spastic paraplegia 20 (Troyer syndrome) [Source:HGNC Symbol;Acc:18514]
3610	ENSG00000101849	2241.532857	0.431912475	0.079753525	3.17E-07	TBL1X	transducin (beta)-like 1X-linked [Source:HGNC Symbol;Acc:11585]
3611	ENSG00000101161	1488.790644	0.553044361	0.10212103	3.17E-07	PRPF6	pre-mRNA processing factor 6 [Source:HGNC Symbol;Acc:15860]
3612	ENSG00000038210	868.500252	-0.668195344	0.123393587	3.17E-07	PI4K2B	phosphatidylinositol 4-kinase type 2 beta [Source:HGNC Symbol;Acc:18215]
3613	ENSG00000101003	183.8221191	-1.327844946	0.245347901	3.23E-07	GINS1	GINS complex subunit 1 (Psf1 homolog) [Source:HGNC Symbol;Acc:28980]
3614	ENSG00000229156	62.2338019	-2.055412645	0.37980397	3.23E-07	RP11-250H24.2	
3615	ENSG00000164163	707.7904041	0.666027315	0.123087406	3.24E-07	ABCE1	ATP-binding cassette, sub-family E (OABP), member 1 [Source:HGNC Symbol;Acc:69]
3616	ENSG00000237022	5577.60956	0.983104299	0.181709742	3.26E-07	HLA-C	major histocompatibility complex, class I, C [Source:HGNC Symbol;Acc:4933]
3617	ENSG00000173889	3178.877928	-0.468303703	0.086568126	3.27E-07	PHC3	polyhomeotic homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:15682]
3618	ENSG00000163535	178.9651346	-1.393196475	0.257777352	3.36E-07	SGOL2	shugoshin-like 2 (S. pombe) [Source:HGNC Symbol;Acc:30812]
3619	ENSG00000170889	939.8583818	0.63187798	0.116984357	3.42E-07	RPS9	ribosomal protein S9 [Source:HGNC Symbol;Acc:10442]
3620	ENSG00000161202	2037.197684	-0.427951348	0.079236931	3.43E-07	DVL3	dishevelled segment polarity protein 3 [Source:HGNC Symbol;Acc:3087]
3621	ENSG00000105993	3058.374134	0.402890779	0.074603733	3.44E-07	DNAJB6	DnaJ (Hsp40) homolog, subfamily B, member 6 [Source:HGNC Symbol;Acc:14888]
3622	ENSG00000138496	2113.588505	0.461632372	0.085486437	3.44E-07	PARP9	poly (ADP-ribose) polymerase family, member 9 [Source:HGNC Symbol;Acc:24118]
3623	ENSG00000145868	1665.048966	-0.471293692	0.087296541	3.47E-07	FBXO38	F-box protein 38 [Source:HGNC Symbol;Acc:28844]
3624	ENSG00000182208	503.2958683	0.78845818	0.146049492	3.47E-07	MOB2	MOB kinase activator 2 [Source:HGNC Symbol;Acc:24904]
3625	ENSG00000178773	46.86230867	2.365588565	0.43825471	3.48E-07	CPNE7	copine VII [Source:HGNC Symbol;Acc:2320]
3626	ENSG00000185499	66.60928933	-2.234188642	0.413969891	3.50E-07	MUC1	mucin 1, cell surface associated [Source:HGNC Symbol;Acc:7508]
3627	ENSG00000008853	236.2569023	1.219120424	0.225933143	3.52E-07	RHOBTB2	Rho-related BTB domain containing 2 [Source:HGNC Symbol;Acc:18756]
3628	ENSG00000131446	2976.547766	0.443103582	0.082125011	3.53E-07	MGAT1	mannosyl (alpha-1,3-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase [Source:HGNC Symbol;Acc:7044]
3629	ENSG00000136861	1261.260967	-0.603235984	0.111811095	3.53E-07	CDK5RAP2	CDK5 regulatory subunit associated protein 2 [Source:HGNC Symbol;Acc:18672]
3630	ENSG00000134444	2007.745467	-0.5119481	0.094891678	3.53E-07	KIAA1468	KIAA1468 [Source:HGNC Symbol;Acc:29289]
3631	ENSG00000166501	9106.380289	0.279859421	0.051898957	3.58E-07	PRKCB	protein kinase C, beta [Source:HGNC Symbol;Acc:9395]
3632	ENSG00000041880	134.9977849	1.429134252	0.265223787	3.66E-07	PARP3	poly (ADP-ribose) polymerase family, member 3 [Source:HGNC Symbol;Acc:273]
3633	ENSG00000169762	1400.019678	-0.521411031	0.096778526	3.68E-07	TAPT1	transmembrane anterior posterior transformation 1 [Source:HGNC Symbol;Acc:26887]
3634	ENSG00000170545	220.1910821	1.194848913	0.221801839	3.69E-07	SMAGP	small cell adhesion glycoprotein [Source:HGNC Symbol;Acc:26918]



3635	ENSG00000197044	295.9597317	1.058736774	0.196610094	3.73E-07	ZNF441	zinc finger protein 441 [Source:HGNC Symbol;Acc:20875]
3636	ENSG00000122068	1074.642718	0.645917569	0.119961821	3.74E-07	FYTTD1	forty-two-three domain containing 1 [Source:HGNC Symbol;Acc:25407]
3637	ENSG00000108064	681.5280069	0.796941508	0.148015817	3.74E-07	TFAM	transcription factor A, mitochondrial [Source:HGNC Symbol;Acc:11741]
3638	ENSG00000065802	1101.176002	-0.637727181	0.118456047	3.75E-07	ASB1	ankyrin repeat and SOCS box containing 1 [Source:HGNC Symbol;Acc:16011]
3639	ENSG00000217128	1699.0054	0.508066406	0.094374305	3.76E-07	FNIP1	folliculin interacting protein 1 [Source:HGNC Symbol;Acc:29418]
3640	ENSG00000141401	1342.100331	-0.568393901	0.105630499	3.81E-07	IMPA2	inositol(myo)-1(or 4)-monophosphatase 2 [Source:HGNC Symbol;Acc:6051]
3641	ENSG00000116001	3753.21822	0.37162591	0.069065053	3.81E-07	TIA1	TIA1 cytotoxic granule-associated RNA binding protein [Source:HGNC Symbol;Acc:11802]
3642	ENSG00000158158	278.7123322	1.049163188	0.195009101	3.83E-07	CNNM4	cyclin M4 [Source:HGNC Symbol;Acc:105]
3643	ENSG00000261739	340.7230845	-0.918050382	0.170645378	3.83E-07	GOLGA8S	golgin A8 family, member S [Source:HGNC Symbol;Acc:44409]
3644	ENSG00000155893	430.5786623	-0.856183544	0.159146985	3.83E-07	ACPL2	acid phosphatase-like 2 [Source:HGNC Symbol;Acc:26303]
3645	ENSG00000150477	786.8278436	-0.668474805	0.124259131	3.83E-07	KIAA1328	KIAA1328 [Source:HGNC Symbol;Acc:29248]
3646	ENSG00000169246	7281.476102	-0.376427829	0.06997642	3.84E-07	NPIPB3	nuclear pore complex interacting protein family, member B3 [Source:HGNC Symbol;Acc:28989]
3647	ENSG00000262128	3216.676623	0.360670443	0.067048211	3.84E-07	LAT2	linker for activation of T cells family, member 2 [Source:HGNC Symbol;Acc:12749]
3648	ENSG00000162104	248.4045406	1.201695364	0.223395942	3.84E-07	ADCY9	adenylate cyclase 9 [Source:HGNC Symbol;Acc:240]
3649	ENSG00000119888	28.33607149	-2.769072155	0.514912575	3.87E-07	EPCAM	epithelial cell adhesion molecule [Source:HGNC Symbol;Acc:11529]
3650	ENSG00000146830	2819.818587	0.507031155	0.09428507	3.87E-07	GIGYF1	GRB10 interacting GYF protein 1 [Source:HGNC Symbol;Acc:9126]
3651	ENSG00000091436	319.1965238	-0.931270938	0.173176539	3.87E-07	MLTK	Mitogen-activated protein kinase kinase kinase MLT [Source:UniProtKB/Swiss-Prot;Acc:Q9NYL2]
3652	ENSG00000138439	314.5474418	0.995563704	0.185149489	3.88E-07	FAM117B	family with sequence similarity 117, member B [Source:HGNC Symbol;Acc:14440]
3653	ENSG00000145012	2245.656126	-0.525427034	0.097718156	3.88E-07	LPP	LIM domain containing preferred translocation partner in lipoma [Source:HGNC Symbol;Acc:6679]
3654	ENSG00000161929	399.0859681	0.940154537	0.174848841	3.88E-07	SCIMP	SLP adaptor and CSK interacting membrane protein [Source:HGNC Symbol;Acc:33504]
3655	ENSG00000161940	27.14603962	2.771557434	0.515622876	3.92E-07	BCL6B	B-cell CLL/lymphoma 6, member B [Source:HGNC Symbol;Acc:1002]
3656	ENSG00000262063	316.3417685	1.030716061	0.191758798	3.92E-07	LIMK1	LIM domain kinase 1 [Source:HGNC Symbol;Acc:6613]
3657	ENSG00000117020	306.1946659	1.141336433	0.212356239	3.93E-07	AKT3	v-akt murine thymoma viral oncogene homolog 3 [Source:HGNC Symbol;Acc:393]
3658	ENSG00000178295	644.3141208	-0.846147104	0.157497819	3.97E-07	GEN1	GEN1 Holliday junction 5' flap endonuclease [Source:HGNC Symbol;Acc:26881]
3659	ENSG00000109436	146.0635848	1.499320911	0.279244047	4.04E-07	TBC1D9	TBC1 domain family, member 9 (with GRAM domain) [Source:HGNC Symbol;Acc:21710]
3660	ENSG00000122497	989.4222764	0.71773029	0.133694968	4.06E-07	NBPF14	neuroblastoma breakpoint family, member 14 [Source:HGNC Symbol;Acc:25232]
3661	ENSG00000234603	185.4890821	-1.291102373	0.240621663	4.12E-07	AL356740.1	
3662	ENSG00000106683	316.5343581	1.026353124	0.191289502	4.13E-07	LIMK1	LIM domain kinase 1 [Source:HGNC Symbol;Acc:6613]

3663	ENSG00000006625	600.0093427	-0.733245344	0.136663956	4.13E-07	GGCT	gamma-glutamylcyclotransferase [Source:HGNC Symbol;Acc:21705]
3664	ENSG00000171401	24.47983648	-2.812253437	0.524340789	4.17E-07	KRT13	keratin 13 [Source:HGNC Symbol;Acc:6415]
3665	ENSG00000086730	3216.811923	0.359740592	0.067077295	4.18E-07	LAT2	linker for activation of T cells family, member 2 [Source:HGNC Symbol;Acc:12749]
3666	ENSG00000107562	11.71177844	-3.029256495	0.564850214	4.18E-07	CXCL12	chemokine (C-X-C motif) ligand 12 [Source:HGNC Symbol;Acc:10672]
3667	ENSG00000140471	860.8131353	0.639907873	0.119355707	4.22E-07	LINS	lines homolog (Drosophila) [Source:HGNC Symbol;Acc:30922]
3668	ENSG00000173120	5545.893817	0.302617992	0.056447741	4.22E-07	KDM2A	lysine (K)-specific demethylase 2A [Source:HGNC Symbol;Acc:13606]
3669	ENSG00000171302	1397.276384	0.498878188	0.093057043	4.22E-07	CANT1	calcium activated nucleotidase 1 [Source:HGNC Symbol;Acc:19721]
3670	ENSG00000213533	589.3789668	-0.772809967	0.144234668	4.29E-07	TMEM110	transmembrane protein 110 [Source:HGNC Symbol;Acc:30526]
3671	ENSG00000054598	30.15076652	-2.559044753	0.477765376	4.33E-07	FOXO1	forkhead box C1 [Source:HGNC Symbol;Acc:3800]
3672	ENSG00000163959	423.244194	-0.82380538	0.153819758	4.34E-07	SLC51A	solute carrier family 51, alpha subunit [Source:HGNC Symbol;Acc:29955]
3673	ENSG00000168785	210.8294847	1.233122348	0.230268811	4.36E-07	TSPAN5	tetraspanin 5 [Source:HGNC Symbol;Acc:17753]
3674	ENSG00000221914	1886.783977	-0.473193802	0.088441135	4.47E-07	PPP2R2A	protein phosphatase 2, regulatory subunit B, alpha [Source:HGNC Symbol;Acc:9304]
3675	ENSG00000213178	558.2851044	0.822243561	0.153805721	4.58E-07	RP11-641D5.1	
3676	ENSG00000239704	330.7644666	-0.983999594	0.184078463	4.59E-07	CDRT4	CMT1A duplicated region transcript 4 [Source:HGNC Symbol;Acc:14383]
3677	ENSG00000198876	1482.157088	-0.475851562	0.089026672	4.60E-07	DCAF12	DDB1 and CUL4 associated factor 12 [Source:HGNC Symbol;Acc:19911]
3678	ENSG00000122435	545.7480242	0.780105851	0.145971834	4.62E-07	TRMT13	tRNA methyltransferase 13 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:25502]
3679	ENSG00000129244	43.05677246	-2.390378659	0.447478553	4.68E-07	ATP1B2	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 2 polypeptide [Source:HGNC Symbol;Acc:805]
3680	ENSG00000138621	426.2237299	0.892582169	0.167098761	4.68E-07	PPCDC	phosphopantothenoilcysteine decarboxylase [Source:HGNC Symbol;Acc:28107]
3681	ENSG00000198467	234.7039003	1.123228915	0.210308723	4.70E-07	TPM2	tropomyosin 2 (beta) [Source:HGNC Symbol;Acc:12011]
3682	ENSG00000128596	71.54822418	1.949283725	0.365291452	4.82E-07	CCDC136	coiled-coil domain containing 136 [Source:HGNC Symbol;Acc:22225]
3683	ENSG00000116584	4906.663768	-0.319366261	0.059865746	4.86E-07	ARHGEF2	Rho/Rac guanine nucleotide exchange factor (GEF) 2 [Source:HGNC Symbol;Acc:682]
3684	ENSG00000109323	2741.083262	-0.385949682	0.07238427	4.94E-07	MANBA	mannosidase, beta A, lysosomal [Source:HGNC Symbol;Acc:6831]
3685	ENSG00000108375	426.6169065	0.886698023	0.16634066	4.97E-07	RNF43	ring finger protein 43 [Source:HGNC Symbol;Acc:18505]
3686	ENSG00000162650	135.9395448	1.475389404	0.276818668	4.99E-07	ATXN7L2	ataxin 7-like 2 [Source:HGNC Symbol;Acc:28713]
3687	ENSG00000119314	7367.417201	-0.315167866	0.059136577	5.00E-07	PTBP3	polypyrimidine tract binding protein 3 [Source:HGNC Symbol;Acc:10253]
3688	ENSG00000184909	47.13407547	-2.327400076	0.43675633	5.02E-07	C1ORF220	
3689	ENSG00000125124	668.3285544	0.993193734	0.186384297	5.02E-07	BBS2	Bardet-Biedl syndrome 2 [Source:HGNC Symbol;Acc:967]
3690	ENSG00000203805	11.91673409	-3.008380187	0.564723501	5.06E-07	PPAPDC1A	phosphatidic acid phosphatase type 2 domain containing 1A [Source:HGNC Symbol;Acc:23531]

3691	ENSG00000168078	34.29377588	-2.545444229	0.478050901	5.13E-07	PBK	PDZ binding kinase [Source:HGNC Symbol;Acc:18282]
3692	ENSG00000184313	143.4930694	-1.418133933	0.266348449	5.14E-07	MROH7	maestro heat-like repeat family member 7 [Source:HGNC Symbol;Acc:24802]
3693	ENSG00000142166	1974.473612	0.488294961	0.091730221	5.17E-07	IFNAR1	interferon (alpha, beta and omega) receptor 1 [Source:HGNC Symbol;Acc:5432]
3694	ENSG00000148362	515.03307	0.870625873	0.163568158	5.18E-07	C9orf142	chromosome 9 open reading frame 142 [Source:HGNC Symbol;Acc:27849]
3695	ENSG00000166965	277.2546742	-0.977941047	0.183763244	5.21E-07	RCCD1	RCC1 domain containing 1 [Source:HGNC Symbol;Acc:30457]
3696	ENSG00000146109	220.8614901	1.16622469	0.219185202	5.23E-07	ABT1	activator of basal transcription 1 [Source:HGNC Symbol;Acc:17369]
3697	ENSG00000117625	1915.051047	-0.49343808	0.092749301	5.25E-07	RCOR3	REST corepressor 3 [Source:HGNC Symbol;Acc:25594]
3698	ENSG00000117174	375.1103406	0.884642261	0.166340427	5.30E-07	ZNHIT6	zinc finger, HIT-type containing 6 [Source:HGNC Symbol;Acc:26089]
3699	ENSG00000268612	221.0991497	1.162329948	0.218598739	5.33E-07	ABT1	activator of basal transcription 1 [Source:HGNC Symbol;Acc:17369]
3700	ENSG00000102977	320.3459795	0.97680269	0.183724304	5.35E-07	ACD	adrenocortical dysplasia homolog (mouse) [Source:HGNC Symbol;Acc:25070]
3701	ENSG00000115806	808.8025317	0.632414665	0.118973486	5.38E-07	GORASP2	golgi reassembly stacking protein 2, 55kDa [Source:HGNC Symbol;Acc:17500]
3702	ENSG00000140987	466.9947247	0.811606496	0.152778727	5.47E-07	ZSCAN32	zinc finger and SCAN domain containing 32 [Source:HGNC Symbol;Acc:20812]
3703	ENSG00000181555	3417.236512	-0.367685088	0.069225384	5.50E-07	SETD2	SET domain containing 2 [Source:HGNC Symbol;Acc:18420]
3704	ENSG00000103978	1276.347036	-0.541973506	0.102130116	5.64E-07	TMEM87A	transmembrane protein 87A [Source:HGNC Symbol;Acc:24522]
3705	ENSG00000183765	218.0092635	-1.129865015	0.212986687	5.70E-07	CHEK2	checkpoint kinase 2 [Source:HGNC Symbol;Acc:16627]
3706	ENSG00000144554	1224.206169	-0.509554223	0.096083248	5.74E-07	FANCD2	Fanconi anemia, complementation group D2 [Source:HGNC Symbol;Acc:3585]
3707	ENSG00000234518	110.7733115	1.573304348	0.296694453	5.76E-07	PTGES3P1	prostaglandin E synthase 3 (cytosolic) pseudogene 1 [Source:HGNC Symbol;Acc:43824]
3708	ENSG00000147488	133.9125382	2.966069422	0.55937897	5.77E-07	ST18	suppression of tumorigenicity 18 (breast carcinoma) (zinc finger protein) [Source:HGNC Symbol;Acc:18695]
3709	ENSG00000070476	1650.468746	-0.456427505	0.086084078	5.78E-07	ZXDC	ZXD family zinc finger C [Source:HGNC Symbol;Acc:28160]
3710	ENSG00000116138	464.2636281	0.815238098	0.153759535	5.78E-07	DNAJC16	DnaJ (Hsp40) homolog, subfamily C, member 16 [Source:HGNC Symbol;Acc:29157]
3711	ENSG00000072121	1257.687416	-0.566700103	0.106905149	5.81E-07	ZFYVE26	zinc finger, FYVE domain containing 26 [Source:HGNC Symbol;Acc:20761]
3712	ENSG00000080371	1615.588302	-0.468620802	0.088406541	5.81E-07	RAB21	RAB21, member RAS oncogene family [Source:HGNC Symbol;Acc:18263]
3713	ENSG00000160679	2459.52376	0.433308958	0.081748408	5.82E-07	CHTOP	chromatin target of PRMT1 [Source:HGNC Symbol;Acc:24511]
3714	ENSG00000151422	349.0071352	-0.878018434	0.165705259	5.88E-07	FER	fer (fps/fes related) tyrosine kinase [Source:HGNC Symbol;Acc:3655]
3715	ENSG00000211821	35.25083222	2.485754634	0.469146099	5.88E-07	TRDV2	T cell receptor delta variable 2 [Source:HGNC Symbol;Acc:12263]
3716	ENSG00000176973	611.3007754	0.844732362	0.159487406	5.94E-07	FAM89B	family with sequence similarity 89, member B [Source:HGNC Symbol;Acc:16708]
3717	ENSG00000196950	337.508325	1.054986779	0.199188649	5.95E-07	SLC39A10	solute carrier family 39 (zinc transporter), member 10 [Source:HGNC Symbol;Acc:20861]
3718	ENSG00000211695	62.59322341	2.020827921	0.381552597	5.95E-07	TRGV9	T cell receptor gamma variable 9 [Source:HGNC Symbol;Acc:12295]

3719	ENSG00000131899	251.0208355	1.108702624	0.209363046	5.97E-07	LLGL1	lethal giant larvae homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:6628]
3720	ENSG00000011105	34.72243847	2.532246575	0.478210054	5.98E-07	TSPAN9	tetraspanin 9 [Source:HGNC Symbol;Acc:21640]
3721	ENSG00000261721	1143.075172	-0.684129293	0.129204008	5.99E-07	GRINA	glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (glutamate binding) [Source:HGNC Symbol;Acc:4589]
3722	ENSG00000138468	2072.773929	0.464756283	0.087796371	6.03E-07	SENPF7	SUMO1/sentrin specific peptidase 7 [Source:HGNC Symbol;Acc:30402]
3723	ENSG00000162976	393.796683	0.92342827	0.174450333	6.04E-07	PQLC3	PQ loop repeat containing 3 [Source:HGNC Symbol;Acc:28503]
3724	ENSG00000148341	1395.777575	-0.550372958	0.103977661	6.04E-07	SH3GLB2	SH3-domain GRB2-like endophilin B2 [Source:HGNC Symbol;Acc:10834]
3725	ENSG00000038427	4336.190271	0.348832499	0.065921887	6.09E-07	VCAN	versican [Source:HGNC Symbol;Acc:2464]
3726	ENSG00000197170	892.3991379	-0.597350501	0.112909747	6.13E-07	PSMD12	proteasome (prosome, macropain) 26S subunit, non-ATPase, 12 [Source:HGNC Symbol;Acc:9557]
3727	ENSG00000204356	345.6809389	0.936975333	0.17716035	6.18E-07	NELFE	negative elongation factor complex member E [Source:HGNC Symbol;Acc:13974]
3728	ENSG00000268218	250.5267373	-1.103078375	0.208606608	6.21E-07	AC137932.1	
3729	ENSG00000123411	247.4867575	-1.177732906	0.222783901	6.26E-07	IKZF4	IKAROS family zinc finger 4 (Eos) [Source:HGNC Symbol;Acc:13179]
3730	ENSG00000146535	337.1343091	0.916663735	0.173420092	6.28E-07	GNA12	guanine nucleotide binding protein (G protein) alpha 12 [Source:HGNC Symbol;Acc:4380]
3731	ENSG00000152253	112.0382351	-1.586704582	0.300271696	6.33E-07	SPC25	SPC25, NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:24031]
3732	ENSG00000131187	100.0319877	-1.566360622	0.296504332	6.38E-07	F12	coagulation factor XII (Hageman factor) [Source:HGNC Symbol;Acc:3530]
3733	ENSG00000120156	75.29884632	2.016737144	0.381761387	6.38E-07	TEK	TEK tyrosine kinase, endothelial [Source:HGNC Symbol;Acc:11724]
3734	ENSG00000165527	1543.83045	0.46001295	0.087079188	6.38E-07	ARF6	ADP-ribosylation factor 6 [Source:HGNC Symbol;Acc:659]
3735	ENSG00000112029	256.2172449	-1.065579196	0.201766687	6.43E-07	FBXO5	F-box protein 5 [Source:HGNC Symbol;Acc:13584]
3736	ENSG00000125245	111.9341764	1.649816453	0.312393684	6.43E-07	GPR18	G protein-coupled receptor 18 [Source:HGNC Symbol;Acc:4472]
3737	ENSG00000146674	62.45004802	2.18004991	0.412878584	6.46E-07	IGFBP3	insulin-like growth factor binding protein 3 [Source:HGNC Symbol;Acc:5472]
3738	ENSG00000138642	277.9681573	1.02408781	0.193963177	6.47E-07	HERC6	HECT and RLD domain containing E3 ubiquitin protein ligase family member 6 [Source:HGNC Symbol;Acc:26072]
3739	ENSG00000089154	1549.284866	0.623506325	0.118120012	6.52E-07	GCN1L1	GCN1 general control of amino-acid synthesis 1-like 1 (yeast) [Source:HGNC Symbol;Acc:4199]
3740	ENSG00000083099	498.9732409	0.78595268	0.14890702	6.53E-07	LYRM2	LYR motif containing 2 [Source:HGNC Symbol;Acc:25229]
3741	ENSG00000196923	2956.265138	-0.547648818	0.103758053	6.53E-07	PDLIM7	PDZ and LIM domain 7 (enigma) [Source:HGNC Symbol;Acc:22958]
3742	ENSG00000167664	50.18598418	2.17979605	0.413096778	6.58E-07	TMIGD2	transmembrane and immunoglobulin domain containing 2 [Source:HGNC Symbol;Acc:28324]
3743	ENSG00000143106	1096.077765	0.545046682	0.103293721	6.58E-07	PSMA5	proteasome (prosome, macropain) subunit, alpha type, 5 [Source:HGNC Symbol;Acc:9534]
3744	ENSG00000184992	907.0992461	-0.593103757	0.112436085	6.63E-07	BRI3BP	BRI3 binding protein [Source:HGNC Symbol;Acc:14251]
3745	ENSG00000197355	259.1845065	1.058524693	0.200667731	6.63E-07	UAP1L1	UDP-N-acetylglucosamine pyrophosphorylase 1-like 1 [Source:HGNC Symbol;Acc:28082]
3746	ENSG00000137409	3200.859464	0.381867969	0.072392852	6.63E-07	MTCH1	mitochondrial carrier 1 [Source:HGNC Symbol;Acc:17586]

3747	ENSG00000089094	391.2436827	0.842492038	0.15974868	6.67E-07	KDM2B	lysine (K)-specific demethylase 2B [Source:HGNC Symbol;Acc:13610]
3748	ENSG00000144476	52.63036828	2.166234571	0.41079439	6.69E-07	ACKR3	atypical chemokine receptor 3 [Source:HGNC Symbol;Acc:23692]
3749	ENSG00000144635	1672.140886	0.502147335	0.095258408	6.76E-07	DYNC1L1	dynein, cytoplasmic 1, light intermediate chain 1 [Source:HGNC Symbol;Acc:18745]
3750	ENSG00000167291	46.54476167	2.248669834	0.426765271	6.84E-07	TBC1D16	TBC1 domain family, member 16 [Source:HGNC Symbol;Acc:28356]
3751	ENSG00000177311	1249.506629	0.597627721	0.113426525	6.85E-07	ZBTB38	zinc finger and BTB domain containing 38 [Source:HGNC Symbol;Acc:26636]
3752	ENSG00000164825	15.28799351	-2.917230212	0.553716306	6.86E-07	DEFB1	defensin, beta 1 [Source:HGNC Symbol;Acc:2766]
3753	ENSG00000161265	643.4735978	0.731767067	0.138929446	6.91E-07	U2AF1L4	U2 small nuclear RNA auxiliary factor 1-like 4 [Source:HGNC Symbol;Acc:23020]
3754	ENSG00000047365	2319.149418	-0.467221898	0.088712183	6.92E-07	ARAP2	ArfGAP with RhoGAP domain, ankyrin repeat and PH domain 2 [Source:HGNC Symbol;Acc:16924]
3755	ENSG00000092964	593.3226648	0.724324229	0.137539484	6.94E-07	DPYSL2	dihydropyrimidinase-like 2 [Source:HGNC Symbol;Acc:3014]
3756	ENSG00000074800	10474.47284	-0.31061184	0.058986265	6.95E-07	ENO1	enolase 1, (alpha) [Source:HGNC Symbol;Acc:3350]
3757	ENSG00000172260	321.3875482	-0.951760364	0.180765606	6.98E-07	NEGR1	neuronal growth regulator 1 [Source:HGNC Symbol;Acc:17302]
3758	ENSG00000264980	1082.745225	-0.534217399	0.101484233	7.02E-07	CHD1L	chromodomain helicase DNA binding protein 1-like [Source:HGNC Symbol;Acc:1916]
3759	ENSG00000167380	547.7361938	0.878623639	0.166915299	7.02E-07	ZNF226	zinc finger protein 226 [Source:HGNC Symbol;Acc:13019]
3760	ENSG00000109943	154.7518636	1.355215865	0.257461756	7.02E-07	CRTAM	cytotoxic and regulatory T cell molecule [Source:HGNC Symbol;Acc:24313]
3761	ENSG00000143162	1395.050676	-0.488772235	0.092873969	7.06E-07	CREG1	cellular repressor of E1A-stimulated genes 1 [Source:HGNC Symbol;Acc:2351]
3762	ENSG00000244731	112.1752404	-1.647865055	0.313150942	7.08E-07	C4A	complement component 4A (Rodgers blood group) [Source:HGNC Symbol;Acc:1323]
3763	ENSG00000130052	329.4649861	-0.9124958	0.173449624	7.13E-07	STAR8	StAR-related lipid transfer (START) domain containing 8 [Source:HGNC Symbol;Acc:19161]
3764	ENSG00000161996	275.4615139	-1.002834213	0.190683107	7.19E-07	WDR90	WD repeat domain 90 [Source:HGNC Symbol;Acc:26960]
3765	ENSG00000028203	486.0405737	0.960389389	0.18262009	7.20E-07	VEZT	vezatin, adherens junctions transmembrane protein [Source:HGNC Symbol;Acc:18258]
3766	ENSG00000115053	5579.493876	0.421813446	0.080214353	7.21E-07	NCL	nucleolin [Source:HGNC Symbol;Acc:7667]
3767	ENSG00000075188	247.8306234	-1.021743405	0.194333766	7.25E-07	NUP37	nucleoporin 37kDa [Source:HGNC Symbol;Acc:29929]
3768	ENSG00000224370	239.731017	-1.064399598	0.20247486	7.27E-07	RP11-814E24.3	
3769	ENSG00000157637	1518.728618	-0.581332517	0.110588759	7.28E-07	SLC38A10	solute carrier family 38, member 10 [Source:HGNC Symbol;Acc:28237]
3770	ENSG00000272358	391.4537594	0.839520542	0.159719347	7.30E-07	KDM2B	lysine (K)-specific demethylase 2B [Source:HGNC Symbol;Acc:13610]
3771	ENSG00000064687	5532.335522	-0.484609339	0.092209738	7.33E-07	ABCA7	ATP-binding cassette, sub-family A (ABC1), member 7 [Source:HGNC Symbol;Acc:37]
3772	ENSG00000139055	384.3475433	-0.914052655	0.173974607	7.39E-07	ERP27	endoplasmic reticulum protein 27 [Source:HGNC Symbol;Acc:26495]
3773	ENSG00000116991	331.8061267	-1.010807079	0.192401746	7.40E-07	SIPA1L2	signal-induced proliferation-associated 1 like 2 [Source:HGNC Symbol;Acc:23800]
3774	ENSG00000226882	398.905473	0.933608354	0.177710069	7.40E-07	GNL1	guanine nucleotide binding protein-like 1 [Source:HGNC Symbol;Acc:4413]

3775	ENSG00000162722	181.1775289	1.254150363	0.238725784	7.40E-07	TRIM58	tripartite motif containing 58 [Source:HGNC Symbol;Acc:24150]
3776	ENSG00000023516	1017.269745	0.618202495	0.117746414	7.53E-07	AKAP11	A kinase (PRKA) anchor protein 11 [Source:HGNC Symbol;Acc:369]
3777	ENSG00000135905	1146.819485	1.350439943	0.257237908	7.55E-07	DOCK10	dedicator of cytokinesis 10 [Source:HGNC Symbol;Acc:23479]
3778	ENSG00000108370	70.95725863	2.156794332	0.411058747	7.66E-07	RGS9	regulator of G-protein signaling 9 [Source:HGNC Symbol;Acc:10004]
3779	ENSG00000111237	2922.162329	-0.402703348	0.076757677	7.68E-07	VPS29	vacuolar protein sorting 29 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:14340]
3780	ENSG00000104763	7080.507001	-0.295107186	0.056261243	7.72E-07	ASAH1	N-acylsphingosine amidohydrolase (acid ceramidase) 1 [Source:HGNC Symbol;Acc:735]
3781	ENSG00000136527	3503.907068	-0.348211988	0.066389513	7.74E-07	TRA2B	transformer 2 beta homolog (Drosophila) [Source:HGNC Symbol;Acc:10781]
3782	ENSG00000162545	35.62152402	2.479510627	0.472746489	7.74E-07	CAMK2N1	calcium/calmodulin-dependent protein kinase II inhibitor 1 [Source:HGNC Symbol;Acc:24190]
3783	ENSG00000176623	973.2152607	-0.562951507	0.107379129	7.83E-07	RMDN1	regulator of microtubule dynamics 1 [Source:HGNC Symbol;Acc:24285]
3784	ENSG00000151348	406.1313732	0.830118834	0.158341983	7.83E-07	EXT2	exostosin glycosyltransferase 2 [Source:HGNC Symbol;Acc:3513]
3785	ENSG00000151116	497.396777	-0.771135913	0.147098881	7.84E-07	UEVLD	UEV and lactate/malate dehydrogenase domains [Source:HGNC Symbol;Acc:30866]
3786	ENSG00000181163	6182.059276	0.35493203	0.067717255	7.88E-07	NPM1	nucleophosmin (nucleolar phosphoprotein B23, numatrin) [Source:HGNC Symbol;Acc:7910]
3787	ENSG00000136560	2128.746727	-0.406880499	0.077630015	7.88E-07	TANK	TRAF family member-associated NFkB activator [Source:HGNC Symbol;Acc:11562]
3788	ENSG00000144589	856.2661571	-0.627025895	0.11965229	7.92E-07	STK11IP	serine/threonine kinase 11 interacting protein [Source:HGNC Symbol;Acc:19184]
3789	ENSG00000141526	3625.001977	-0.553836546	0.10569804	7.94E-07	SLC16A3	solute carrier family 16 (monocarboxylate transporter), member 3 [Source:HGNC Symbol;Acc:10924]
3790	ENSG00000162032	1007.081659	0.739870338	0.141207332	7.95E-07	SPSB3	splA/ryanodine receptor domain and SOCS box containing 3 [Source:HGNC Symbol;Acc:30629]
3791	ENSG00000067064	1782.326754	-0.486222955	0.092810756	7.98E-07	IDI1	isopentenyl-diphosphate delta isomerase 1 [Source:HGNC Symbol;Acc:5387]
3792	ENSG00000213462	885.5367236	0.615290793	0.117449132	7.98E-07	ERV3-1	endogenous retrovirus group 3, member 1 [Source:HGNC Symbol;Acc:3454]
3793	ENSG00000184731	36.36448976	2.432533137	0.464403326	8.01E-07	FAM110C	family with sequence similarity 110, member C [Source:HGNC Symbol;Acc:33340]
3794	ENSG00000262234	869.0027728	-0.643234728	0.122830329	8.06E-07	PIIP5K2	diphosphoinositol pentakisphosphate kinase 2 [Source:HGNC Symbol;Acc:29035]
3795	ENSG00000234353	794.2605107	-0.667661539	0.127504196	8.07E-07	AP000347.4	
3796	ENSG00000227097	3122.813733	1.231986003	0.235355643	8.15E-07	RP11-742N3.1	
3797	ENSG00000173852	380.7770686	-0.92021541	0.175859603	8.23E-07	DPY19L1	dpy-19-like 1 (C. elegans) [Source:HGNC Symbol;Acc:22205]
3798	ENSG00000143624	1747.498952	-0.434654291	0.083100208	8.33E-07	INTS3	integrator complex subunit 3 [Source:HGNC Symbol;Acc:26153]
3799	ENSG00000178971	2180.874082	0.436951253	0.083543037	8.34E-07	CTC1	CTS telomere maintenance complex component 1 [Source:HGNC Symbol;Acc:26169]
3800	ENSG00000042062	97.70647354	-1.60865787	0.307630829	8.38E-07	FAM65C	family with sequence similarity 65, member C [Source:HGNC Symbol;Acc:16168]
3801	ENSG00000248905	129.5865537	1.836187931	0.351188706	8.41E-07	FMN1	formin 1 [Source:HGNC Symbol;Acc:3768]
3802	ENSG00000181896	728.0320319	0.66759646	0.127684432	8.41E-07	ZNF101	zinc finger protein 101 [Source:HGNC Symbol;Acc:12881]

3803	ENSG00000163251	62.16272686	-1.895796985	0.362593159	8.41E-07	FZD5	frizzled family receptor 5 [Source:HGNC Symbol;Acc:4043]
3804	ENSG00000073969	1055.182867	-0.572853707	0.10959698	8.48E-07	NSF	N-ethylmaleimide-sensitive factor [Source:HGNC Symbol;Acc:8016]
3805	ENSG00000092621	107.5199932	-1.669605245	0.319441013	8.49E-07	PHGDH	phosphoglycerate dehydrogenase [Source:HGNC Symbol;Acc:8923]
3806	ENSG00000125735	1085.450373	0.561194739	0.107397048	8.54E-07	TNFSF14	tumor necrosis factor (ligand) superfamily, member 14 [Source:HGNC Symbol;Acc:11930]
3807	ENSG00000099942	2586.402006	0.392374354	0.075104564	8.59E-07	CRKL	v-crk avian sarcoma virus CT10 oncogene homolog-like [Source:HGNC Symbol;Acc:2363]
3808	ENSG00000183690	77.21936155	1.819417434	0.348292077	8.61E-07	EFHC2	EF-hand domain (C-terminal) containing 2 [Source:HGNC Symbol;Acc:26233]
3809	ENSG00000180787	283.8088267	1.009975466	0.193356363	8.63E-07	ZFP3	ZFP3 zinc finger protein [Source:HGNC Symbol;Acc:12861]
3810	ENSG00000150907	956.4311422	0.612002492	0.117202385	8.71E-07	FOXO1	forkhead box O1 [Source:HGNC Symbol;Acc:3819]
3811	ENSG00000145860	3059.305934	-0.394487721	0.075572732	8.79E-07	RNF145	ring finger protein 145 [Source:HGNC Symbol;Acc:20853]
3812	ENSG00000100906	5163.112676	-0.310269248	0.059463283	8.89E-07	NFKBIA	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha [Source:HGNC Symbol;Acc:7797]
3813	ENSG00000125458	216.2887673	1.177988484	0.225836661	8.97E-07	NT5C	5', 3'-nucleotidase, cytosolic [Source:HGNC Symbol;Acc:17144]
3814	ENSG00000229754	130.6528942	1.573685195	0.301791397	9.04E-07	CXCR2P1	chemokine (C-X-C motif) receptor 2 pseudogene 1 [Source:HGNC Symbol;Acc:6028]
3815	ENSG00000186399	167.0959351	-1.412880863	0.270990353	9.08E-07	GOLGA8R	golgin A8 family, member R [Source:HGNC Symbol;Acc:44407]
3816	ENSG00000104731	482.4165692	0.807616641	0.155066861	9.35E-07	KLHDC4	kelch domain containing 4 [Source:HGNC Symbol;Acc:25272]
3817	ENSG00000118242	102.514957	-1.546806143	0.297025005	9.38E-07	MREG	melanoregulin [Source:HGNC Symbol;Acc:25478]
3818	ENSG00000173083	496.4654246	0.847495083	0.16279406	9.46E-07	HPSE	heparanase [Source:HGNC Symbol;Acc:5164]
3819	ENSG00000181007	147.3774021	1.293216068	0.248415352	9.46E-07	ZFP82	ZFP82 zinc finger protein [Source:HGNC Symbol;Acc:28682]
3820	ENSG00000227921	233.9191153	1.11885971	0.215076224	9.65E-07	AL353791.1	
3821	ENSG00000115866	1067.897018	-0.552222329	0.106171865	9.70E-07	DARS	aspartyl-tRNA synthetase [Source:HGNC Symbol;Acc:2678]
3822	ENSG00000114654	23.77397142	2.734666728	0.526128034	9.88E-07	EFCC1	EF-hand and coiled-coil domain containing 1 [Source:HGNC Symbol;Acc:25692]
3823	ENSG00000164615	568.9518118	0.707399022	0.136105506	9.89E-07	CAMLG	calcium modulating ligand [Source:HGNC Symbol;Acc:1471]
3824	ENSG00000262985	312.1611813	1.072682127	0.206413312	9.92E-07	LILRB1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1 [Source:HGNC Symbol;Acc:6605]
3825	ENSG00000111816	631.1255928	-0.695280191	0.133805878	9.95E-07	FRK	fyn-related kinase [Source:HGNC Symbol;Acc:3955]
3826	ENSG00000101751	863.9967401	-0.788397799	0.151737832	9.97E-07	POLI	polymerase (DNA directed) iota [Source:HGNC Symbol;Acc:9182]
3827	ENSG00000198478	90.95301977	1.695814671	0.326497143	1.01E-06	SH3BGR12	SH3 domain binding glutamic acid-rich protein like 2 [Source:HGNC Symbol;Acc:15567]
3828	ENSG00000175265	5408.35328	0.310388296	0.059764418	1.01E-06	GOLGA8A	golgin A8 family, member A [Source:HGNC Symbol;Acc:31972]
3829	ENSG00000176092	127.9763132	-1.40272248	0.270162384	1.02E-06	AIM1L	absent in melanoma 1-like [Source:HGNC Symbol;Acc:17295]
3830	ENSG00000260890	66.18098394	2.026833997	0.390390333	1.02E-06	TRBV7-9	T cell receptor beta variable 7-9 [Source:HGNC Symbol;Acc:12243]

3831	ENSG00000165716	107.6394662	1.640068649	0.315990453	1.03E-06	FAM69B	family with sequence similarity 69, member B [Source:HGNC Symbol;Acc:28290]
3832	ENSG00000187764	8932.575755	0.266004564	0.051268818	1.04E-06	SEMA4D	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D [Source:HGNC Symbol;Acc:10732]
3833	ENSG00000064666	17141.94396	-0.326318517	0.062911931	1.04E-06	CNN2	calponin 2 [Source:HGNC Symbol;Acc:2156]
3834	ENSG00000212866	712.6427141	-0.76327959	0.147159774	1.04E-06	HSPA1B	heat shock 70kDa protein 1B [Source:HGNC Symbol;Acc:5233]
3835	ENSG00000185261	280.0645937	-1.010134726	0.194803931	1.05E-06	KIAA0825	KIAA0825 [Source:HGNC Symbol;Acc:28532]
3836	ENSG00000136930	1523.657178	-0.487281607	0.093972262	1.05E-06	PSMB7	proteasome (prosome, macropain) subunit, beta type, 7 [Source:HGNC Symbol;Acc:9544]
3837	ENSG00000205581	5112.970888	-0.349173912	0.067358444	1.06E-06	HMGN1	high mobility group nucleosome binding domain 1 [Source:HGNC Symbol;Acc:4984]
3838	ENSG00000115365	699.9741888	0.637879259	0.123069075	1.06E-06	LANCL1	LanC lantibiotic synthetase component C-like 1 (bacterial) [Source:HGNC Symbol;Acc:6508]
3839	ENSG00000141682	559.6837788	0.726785594	0.140256741	1.07E-06	PMAIP1	phorbol-12-myristate-13-acetate-induced protein 1 [Source:HGNC Symbol;Acc:9108]
3840	ENSG00000064886	123.4964866	1.515555248	0.292506112	1.07E-06	CHI3L2	chitinase 3-like 2 [Source:HGNC Symbol;Acc:1933]
3841	ENSG00000134748	1614.992299	-0.537705465	0.103804091	1.08E-06	PRPF38A	pre-mRNA processing factor 38A [Source:HGNC Symbol;Acc:25930]
3842	ENSG00000090857	1677.248093	0.453885361	0.087636905	1.09E-06	PDPR	pyruvate dehydrogenase phosphatase regulatory subunit [Source:HGNC Symbol;Acc:30264]
3843	ENSG00000070814	867.287976	0.657667365	0.126992643	1.09E-06	TCOF1	Treacher Collins-Franceschetti syndrome 1 [Source:HGNC Symbol;Acc:11654]
3844	ENSG00000197020	324.1670729	-1.043050186	0.201416979	1.09E-06	ZNF100	zinc finger protein 100 [Source:HGNC Symbol;Acc:12880]
3845	ENSG00000180178	148.9707326	-1.345809584	0.259883497	1.09E-06	FAR2P1	fatty acyl CoA reductase 2 pseudogene 1 [Source:HGNC Symbol;Acc:49284]
3846	ENSG00000116990	141.5582263	1.372928828	0.265171816	1.09E-06	MYCL	v-myc avian myelocytomatosis viral oncogene lung carcinoma derived homolog [Source:HGNC Symbol;Acc:7555]
3847	ENSG00000164087	139.1811585	-1.333947526	0.257649227	1.09E-06	POC1A	POC1 centriolar protein A [Source:HGNC Symbol;Acc:24488]
3848	ENSG00000162367	280.3428256	-0.95695604	0.184841972	1.10E-06	TAL1	T-cell acute lymphocytic leukemia 1 [Source:HGNC Symbol;Acc:11556]
3849	ENSG00000154556	28.00483404	2.543137785	0.491232272	1.10E-06	SORBS2	sorbin and SH3 domain containing 2 [Source:HGNC Symbol;Acc:24098]
3850	ENSG00000116299	1541.576403	0.55915	0.108064786	1.11E-06	KIAA1324	KIAA1324 [Source:HGNC Symbol;Acc:29618]
3851	ENSG00000145916	580.8057313	-0.722276324	0.139645422	1.12E-06	RMND5B	required for meiotic nuclear division 5 homolog B (S. cerevisiae) [Source:HGNC Symbol;Acc:26181]
3852	ENSG00000167280	1093.189653	0.700880791	0.135535498	1.13E-06	ENGASE	endo-beta-N-acetylglucosaminidase [Source:HGNC Symbol;Acc:24622]
3853	ENSG00000198938	130062.3343	-0.250206536	0.04839671	1.14E-06	MT-CO3	mitochondrially encoded cytochrome c oxidase III [Source:HGNC Symbol;Acc:7422]
3854	ENSG00000160208	571.1504549	0.694680272	0.134405874	1.15E-06	RRP1B	ribosomal RNA processing 1B [Source:HGNC Symbol;Acc:23818]
3855	ENSG00000257365	442.034708	-0.783048448	0.151573855	1.16E-06	FNTB	farnesyltransferase, CAAX box, beta [Source:HGNC Symbol;Acc:3785]
3856	ENSG00000124383	456.9853	0.789015923	0.152729891	1.16E-06	MPHOSPH10	M-phase phosphoprotein 10 (U3 small nucleolar ribonucleoprotein) [Source:HGNC Symbol;Acc:7213]
3857	ENSG00000099904	231.1916731	1.130943998	0.218921512	1.16E-06	ZDHC8	zinc finger, DHHC-type containing 8 [Source:HGNC Symbol;Acc:18474]
3858	ENSG00000136450	4502.639659	-0.306333785	0.059300187	1.16E-06	SRSF1	serine/arginine-rich splicing factor 1 [Source:HGNC Symbol;Acc:10780]



3859	ENSG00000186063	965.7455786	0.592099834	0.114647306	1.17E-06	AIDA	axin interactor, dorsalization associated [Source:HGNC Symbol;Acc:25761]
3860	ENSG00000142583	2712.909935	-0.401421406	0.07774026	1.17E-06	SLC2A5	solute carrier family 2 (facilitated glucose/fructose transporter), member 5 [Source:HGNC Symbol;Acc:11010]
3861	ENSG00000196912	535.4443488	-0.762044851	0.147634905	1.19E-06	ANKRD36B	ankyrin repeat domain 36B [Source:HGNC Symbol;Acc:29333]
3862	ENSG00000198692	1007.870659	0.557081419	0.107947723	1.19E-06	EIF1AY	eukaryotic translation initiation factor 1A, Y-linked [Source:HGNC Symbol;Acc:3252]
3863	ENSG00000168528	58.93342466	-2.018648042	0.391161178	1.19E-06	SERINC2	serine incorporator 2 [Source:HGNC Symbol;Acc:23231]
3864	ENSG00000159147	408.3542549	-0.800304817	0.15510824	1.20E-06	DONSON	downstream neighbor of SON [Source:HGNC Symbol;Acc:2993]
3865	ENSG00000163728	3315.191583	-0.439913814	0.085310047	1.22E-06	TTC14	tetratricopeptide repeat domain 14 [Source:HGNC Symbol;Acc:24697]
3866	ENSG00000126970	93.84041515	1.642695804	0.318735129	1.24E-06	ZC4H2	zinc finger, C4H2 domain containing [Source:HGNC Symbol;Acc:24931]
3867	ENSG00000100379	83.76320694	1.815648905	0.352403208	1.25E-06	KCTD17	potassium channel tetramerization domain containing 17 [Source:HGNC Symbol;Acc:25705]
3868	ENSG00000170776	7285.131889	0.297437054	0.057746124	1.26E-06	AKAP13	A kinase (PRKA) anchor protein 13 [Source:HGNC Symbol;Acc:371]
3869	ENSG00000107863	436.8572194	0.90325812	0.175400888	1.26E-06	ARHGAP21	Rho GTPase activating protein 21 [Source:HGNC Symbol;Acc:23725]
3870	ENSG00000184110	3076.256115	0.480530797	0.093316498	1.26E-06	EIF3C	eukaryotic translation initiation factor 3, subunit C [Source:HGNC Symbol;Acc:3279]
3871	ENSG00000115904	1972.387451	-0.517051355	0.100416954	1.27E-06	SOS1	son of sevenless homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:11187]
3872	ENSG00000203485	306.8717433	1.039094973	0.20182668	1.27E-06	INF2	inverted formin, FH2 and WH2 domain containing [Source:HGNC Symbol;Acc:23791]
3873	ENSG00000137135	160.075753	-1.309540268	0.254414393	1.28E-06	ARHGEF39	Rho guanine nucleotide exchange factor (GEF) 39 [Source:HGNC Symbol;Acc:25909]
3874	ENSG00000111788	313.4930177	-0.902247333	0.175319428	1.28E-06	RP11-22B23.1	
3875	ENSG00000251139	34.59385457	-2.422302624	0.470706687	1.28E-06	RP11-701P16.2	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:D6RF06]
3876	ENSG00000117859	2068.487403	-0.502759782	0.097717071	1.29E-06	OSBPL9	oxysterol binding protein-like 9 [Source:HGNC Symbol;Acc:16386]
3877	ENSG00000130741	2939.823295	0.364561446	0.070863408	1.29E-06	EIF2S3	eukaryotic translation initiation factor 2, subunit 3 gamma, 52kDa [Source:HGNC Symbol;Acc:3267]
3878	ENSG00000198324	63.86379121	1.89717916	0.368874171	1.30E-06	FAM109A	family with sequence similarity 109, member A [Source:HGNC Symbol;Acc:26509]
3879	ENSG00000260384	58.79271834	-2.016928007	0.392160655	1.30E-06	SERINC2	serine incorporator 2 [Source:HGNC Symbol;Acc:23231]
3880	ENSG00000172007	880.6776341	-0.57951358	0.112706974	1.31E-06	RAB33B	RAB33B, member RAS oncogene family [Source:HGNC Symbol;Acc:16075]
3881	ENSG00000185043	1355.894068	0.54852328	0.10671586	1.32E-06	CIB1	calcium and integrin binding 1 (calmyrin) [Source:HGNC Symbol;Acc:16920]
3882	ENSG00000153487	616.7442822	-0.760665997	0.148007789	1.33E-06	ING1	inhibitor of growth family, member 1 [Source:HGNC Symbol;Acc:6062]
3883	ENSG00000218672	16.08901923	2.85190444	0.554977829	1.33E-06	AC008060.7	HCG2000720; Hypothetical gene supported by AK054822; Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:A4D251]
3884	ENSG00000102970	32.40343207	2.513006087	0.489103274	1.34E-06	CCL17	chemokine (C-C motif) ligand 17 [Source:HGNC Symbol;Acc:10615]
3885	ENSG00000119638	2415.933085	-0.389552548	0.075822288	1.34E-06	NEK9	NIMA-related kinase 9 [Source:HGNC Symbol;Acc:18591]
3886	ENSG00000172771	289.7279612	-0.947572183	0.184438809	1.34E-06	EFCAB12	EF-hand calcium binding domain 12 [Source:HGNC Symbol;Acc:28061]

3887	ENSG00000173638	1504.096751	0.509698353	0.099240134	1.35E-06	SLC19A1	solute carrier family 19 (folate transporter), member 1 [Source:HGNC Symbol;Acc:10937]
3888	ENSG00000079263	708.1899851	0.642886681	0.125182934	1.35E-06	SP140	SP140 nuclear body protein [Source:HGNC Symbol;Acc:17133]
3889	ENSG00000162191	1774.526378	0.507761286	0.098920812	1.37E-06	UBXN1	UBX domain protein 1 [Source:HGNC Symbol;Acc:18402]
3890	ENSG00000185112	289.480889	0.983288002	0.191562597	1.37E-06	FAM43A	family with sequence similarity 43, member A [Source:HGNC Symbol;Acc:26888]
3891	ENSG00000106992	272.8681264	1.084774978	0.21137886	1.38E-06	AK1	adenylate kinase 1 [Source:HGNC Symbol;Acc:361]
3892	ENSG00000141002	2241.391897	0.438573206	0.085507637	1.40E-06	TCF25	transcription factor 25 (basic helix-loop-helix) [Source:HGNC Symbol;Acc:29181]
3893	ENSG00000153574	733.5794066	-0.622963089	0.121466731	1.40E-06	RPIA	ribose 5-phosphate isomerase A [Source:HGNC Symbol;Acc:10297]
3894	ENSG00000099889	71.02655855	1.81089111	0.353101339	1.40E-06	ARVCF	armadillo repeat gene deleted in velocardiocardial syndrome [Source:HGNC Symbol;Acc:728]
3895	ENSG00000144655	977.6216834	-0.545472418	0.106365387	1.40E-06	CSRNP1	cysteine-serine-rich nuclear protein 1 [Source:HGNC Symbol;Acc:14300]
3896	ENSG00000138760	837.3205232	-0.635842345	0.124034033	1.42E-06	SCARB2	scavenger receptor class B, member 2 [Source:HGNC Symbol;Acc:1665]
3897	ENSG00000174776	24.36451706	2.70371247	0.527569678	1.43E-06	WDR49	WD repeat domain 49 [Source:HGNC Symbol;Acc:26587]
3898	ENSG00000101654	770.2293013	0.674239508	0.131570975	1.43E-06	RNMT	RNA (guanine-7-) methyltransferase [Source:HGNC Symbol;Acc:10075]
3899	ENSG00000131016	152.958966	1.306065738	0.254865683	1.43E-06	AKAP12	A kinase (PRKA) anchor protein 12 [Source:HGNC Symbol;Acc:370]
3900	ENSG00000031081	137.6746002	1.393020248	0.27186542	1.44E-06	ARHGAP31	Rho GTPase activating protein 31 [Source:HGNC Symbol;Acc:29216]
3901	ENSG00000187514	15384.40762	0.267113492	0.052139722	1.44E-06	PTMA	prothymosin, alpha [Source:HGNC Symbol;Acc:9623]
3902	ENSG00000133858	3711.034475	-0.398408613	0.077777492	1.45E-06	ZFC3H1	zinc finger, C3H1-type containing [Source:HGNC Symbol;Acc:28328]
3903	ENSG00000213949	235.4777136	-1.165954104	0.227709276	1.46E-06	ITGA1	integrin, alpha 1 [Source:HGNC Symbol;Acc:6134]
3904	ENSG00000178719	1193.137161	-0.661197276	0.129137672	1.46E-06	GRINA	glutamate receptor, ionotropic, N-methyl D-aspartate-associated protein 1 (glutamate binding) [Source:HGNC Symbol;Acc:4589]
3905	ENSG00000178445	28.03873733	2.462325339	0.481091439	1.48E-06	GLDC	glycine dehydrogenase (decarboxylating) [Source:HGNC Symbol;Acc:4313]
3906	ENSG00000148337	1556.772127	-0.462138209	0.090315066	1.49E-06	CIZ1	CDKN1A interacting zinc finger protein 1 [Source:HGNC Symbol;Acc:16744]
3907	ENSG00000197183	1667.24149	0.466361751	0.091146161	1.49E-06	C20orf112	chromosome 20 open reading frame 112 [Source:HGNC Symbol;Acc:16106]
3908	ENSG00000205060	291.5102602	1.081462096	0.211470897	1.51E-06	SLC35B4	solute carrier family 35 (UDP-xylose/UDP-N-acetylglucosamine transporter), member B4 [Source:HGNC Symbol;Acc:20584]
3909	ENSG00000104490	249.1636726	1.170109181	0.228815656	1.51E-06	NCALD	neurocalcin delta [Source:HGNC Symbol;Acc:7655]
3910	ENSG00000188321	529.2393041	0.76399529	0.149446684	1.52E-06	ZNF559	zinc finger protein 559 [Source:HGNC Symbol;Acc:28197]
3911	ENSG00000127980	751.273138	0.642091277	0.125608105	1.53E-06	PEX1	peroxisomal biogenesis factor 1 [Source:HGNC Symbol;Acc:8850]
3912	ENSG00000211807	37.89503073	2.453323062	0.480170756	1.55E-06	TRAV26-1	T cell receptor alpha variable 26-1 [Source:HGNC Symbol;Acc:12123]
3913	ENSG00000099331	8069.650242	-0.335882121	0.065741163	1.55E-06	MYO9B	myosin IXB [Source:HGNC Symbol;Acc:7609]
3914	ENSG00000081791	2045.850549	-0.443034997	0.086715189	1.55E-06	KIAA0141	KIAA0141 [Source:HGNC Symbol;Acc:28969]

3915	ENSG00000121621	123.6532604	-1.423808802	0.278717786	1.55E-06	KIF18A	kinesin family member 18A [Source:HGNC Symbol;Acc:29441]
3916	ENSG00000157933	1766.579977	0.460053979	0.090066429	1.56E-06	SKI	v-ski avian sarcoma viral oncogene homolog [Source:HGNC Symbol;Acc:10896]
3917	ENSG00000115956	10812.71834	-0.26656568	0.052227307	1.59E-06	PLEK	pleckstrin [Source:HGNC Symbol;Acc:9070]
3918	ENSG00000171503	537.8570418	-0.74445571	0.145879045	1.59E-06	ETFDH	electron-transferring-flavoprotein dehydrogenase [Source:HGNC Symbol;Acc:3483]
3919	ENSG00000141469	276.5161587	1.1849727	0.232424584	1.64E-06	SLC14A1	solute carrier family 14 (urea transporter), member 1 (Kidd blood group) [Source:HGNC Symbol;Acc:10918]
3920	ENSG00000163681	1301.632618	-0.553854456	0.108635583	1.64E-06	SLMAP	sarcolemma associated protein [Source:HGNC Symbol;Acc:16643]
3921	ENSG00000105866	510.3416671	0.783803418	0.153753396	1.64E-06	SP4	Sp4 transcription factor [Source:HGNC Symbol;Acc:11209]
3922	ENSG00000198885	95.58520021	1.590393849	0.312030395	1.65E-06	ITPRIPL1	inositol 1,4,5-trisphosphate receptor interacting protein-like 1 [Source:HGNC Symbol;Acc:29371]
3923	ENSG00000188785	544.0908627	0.758512998	0.148863881	1.66E-06	ZNF548	zinc finger protein 548 [Source:HGNC Symbol;Acc:26561]
3924	ENSG00000197019	236.2553655	-1.050397993	0.206151551	1.66E-06	SERTAD1	SERTA domain containing 1 [Source:HGNC Symbol;Acc:17932]
3925	ENSG00000240972	229.2790446	1.213269337	0.238164234	1.67E-06	MIF	macrophage migration inhibitory factor (glycosylation-inhibiting factor) [Source:HGNC Symbol;Acc:7097]
3926	ENSG00000053900	1689.530291	-0.529271822	0.103909053	1.67E-06	ANAPC4	anaphase promoting complex subunit 4 [Source:HGNC Symbol;Acc:19990]
3927	ENSG00000088543	110.4209737	1.560669345	0.306453165	1.68E-06	C3orf18	chromosome 3 open reading frame 18 [Source:HGNC Symbol;Acc:24837]
3928	ENSG00000074660	656.6064415	0.749134665	0.147183263	1.71E-06	SCARF1	scavenger receptor class F, member 1 [Source:HGNC Symbol;Acc:16820]
3929	ENSG00000115942	990.5420279	-0.586289017	0.115191046	1.71E-06	ORC2	origin recognition complex, subunit 2 [Source:HGNC Symbol;Acc:8488]
3930	ENSG00000137731	28.07899418	2.541137177	0.499520531	1.73E-06	FXD2	FXD domain containing ion transport regulator 2 [Source:HGNC Symbol;Acc:4026]
3931	ENSG00000143437	1393.646972	-0.472637143	0.092915066	1.73E-06	ARNT	aryl hydrocarbon receptor nuclear translocator [Source:HGNC Symbol;Acc:700]
3932	ENSG00000164823	1145.364911	0.524079756	0.103082874	1.76E-06	OSGIN2	oxidative stress induced growth inhibitor family member 2 [Source:HGNC Symbol;Acc:1355]
3933	ENSG00000162869	1461.528286	-0.48778044	0.095949226	1.76E-06	PPP1R21	protein phosphatase 1, regulatory subunit 21 [Source:HGNC Symbol;Acc:30595]
3934	ENSG00000068831	5884.71075	0.414158947	0.081477259	1.77E-06	RASGRP2	RAS guanyl releasing protein 2 (calcium and DAG-regulated) [Source:HGNC Symbol;Acc:9879]
3935	ENSG00000185658	2011.883745	0.450816946	0.088704437	1.77E-06	BRWD1	bromodomain and WD repeat domain containing 1 [Source:HGNC Symbol;Acc:12760]
3936	ENSG00000069998	273.2027287	0.997311072	0.19627676	1.78E-06	CECR5	cat eye syndrome chromosome region, candidate 5 [Source:HGNC Symbol;Acc:1843]
3937	ENSG00000180071	294.6928189	-0.961721574	0.189280124	1.79E-06	ANKRD18A	ankyrin repeat domain 18A [Source:HGNC Symbol;Acc:23643]
3938	ENSG00000250361	46.90461956	-2.149068148	0.42305126	1.79E-06	GYPB	glycophorin B (MNS blood group) [Source:HGNC Symbol;Acc:4703]
3939	ENSG00000106868	811.3913053	-0.642408135	0.126507112	1.81E-06	SUSD1	sushi domain containing 1 [Source:HGNC Symbol;Acc:25413]
3940	ENSG00000141905	995.023832	-0.557631829	0.109815732	1.81E-06	NFIC	nuclear factor I/C (CCAAT-binding transcription factor) [Source:HGNC Symbol;Acc:7786]
3941	ENSG00000170927	41.03235205	-2.270749511	0.447292914	1.82E-06	PKHD1	polycystic kidney and hepatic disease 1 (autosomal recessive) [Source:HGNC Symbol;Acc:9016]
3942	ENSG00000232804	607.8715181	-0.960667896	0.189236108	1.82E-06	HSPA1B	heat shock 70kDa protein 1B [Source:HGNC Symbol;Acc:5233]

3943	ENSG00000075239	607.7654924	-0.737373156	0.145254905	1.83E-06	ACAT1	acetyl-CoA acetyltransferase 1 [Source:HGNC Symbol;Acc:93]
3944	ENSG00000186566	1547.142746	0.502592686	0.099063946	1.85E-06	GPATCH8	G patch domain containing 8 [Source:HGNC Symbol;Acc:29066]
3945	ENSG00000260128	119.7264957	-1.417261329	0.279364421	1.86E-06	ULK4P2	ULK4 pseudogene 2 [Source:HGNC Symbol;Acc:15776]
3946	ENSG00000131069	1401.628243	-0.52344005	0.10318147	1.86E-06	ACSS2	acyl-CoA synthetase short-chain family member 2 [Source:HGNC Symbol;Acc:15814]
3947	ENSG00000170382	265.9998754	1.012386881	0.199576229	1.86E-06	LRRN2	leucine rich repeat neuronal 2 [Source:HGNC Symbol;Acc:16914]
3948	ENSG00000161835	74.07784613	1.763473152	0.347642576	1.86E-06	GRASP	GRP1 (general receptor for phosphoinositides 1)-associated scaffold protein [Source:HGNC Symbol;Acc:18707]
3949	ENSG00000103740	104.7356063	-1.48397764	0.292571956	1.86E-06	ACSBG1	acyl-CoA synthetase bubblegum family member 1 [Source:HGNC Symbol;Acc:29567]
3950	ENSG00000243452	556.2908832	1.748044798	0.344768913	1.88E-06	NBPF15	neuroblastoma breakpoint family, member 15 [Source:HGNC Symbol;Acc:28791]
3951	ENSG00000171033	101.7674976	1.597477061	0.315096565	1.89E-06	PKIA	protein kinase (cAMP-dependent, catalytic) inhibitor alpha [Source:HGNC Symbol;Acc:9017]
3952	ENSG00000077549	8260.886194	-0.271139345	0.05348743	1.89E-06	CAPZB	capping protein (actin filament) muscle Z-line, beta [Source:HGNC Symbol;Acc:1491]
3953	ENSG00000269326	1800.563083	-0.43389694	0.085642356	1.92E-06	MPP1	membrane protein, palmitoylated 1, 55kDa [Source:HGNC Symbol;Acc:7219]
3954	ENSG00000049759	81.26549517	-1.984290444	0.391822209	1.94E-06	NEDD4L	neural precursor cell expressed, developmentally down-regulated 4-like, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:7728]
3955	ENSG00000006114	2096.667615	0.466531206	0.0921484	1.95E-06	SYNRG	synergin, gamma [Source:HGNC Symbol;Acc:557]
3956	ENSG00000108651	1205.24555	0.6118197	0.120893167	1.97E-06	UTP6	UTP6, small subunit (SSU) processome component, homolog (yeast) [Source:HGNC Symbol;Acc:18279]
3957	ENSG00000146263	546.876606	-0.880548843	0.173994847	1.97E-06	MMS22L	MMS22-like, DNA repair protein [Source:HGNC Symbol;Acc:21475]
3958	ENSG00000085721	576.2465494	0.72311074	0.142902561	1.98E-06	RRN3	RRN3 RNA polymerase I transcription factor homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:30346]
3959	ENSG00000143570	684.3649515	0.63198588	0.12489445	1.98E-06	SLC39A1	solute carrier family 39 (zinc transporter), member 1 [Source:HGNC Symbol;Acc:12876]
3960	ENSG00000151079	37.93179978	2.323475081	0.459238406	1.99E-06	KCNA6	potassium voltage-gated channel, shaker-related subfamily, member 6 [Source:HGNC Symbol;Acc:6225]
3961	ENSG00000109062	4892.203921	0.350527661	0.06928722	1.99E-06	SLC9A3R1	solute carrier family 9, subfamily A (NHE3, cation proton antiporter 3), member 3 regulator 1 [Source:HGNC Symbol;Acc:11075]
3962	ENSG00000130830	1800.344621	-0.433193716	0.085633794	1.99E-06	MPP1	membrane protein, palmitoylated 1, 55kDa [Source:HGNC Symbol;Acc:7219]
3963	ENSG00000080824	8176.846165	-0.302936578	0.05990886	2.02E-06	HSP90AA1	heat shock protein 90kDa alpha (cytosolic), class A member 1 [Source:HGNC Symbol;Acc:5253]
3964	ENSG00000238208	522.3350152	-0.737600919	0.145919255	2.03E-06	RP11-112N13.1	
3965	ENSG00000085491	637.2855392	-0.653653596	0.129340106	2.04E-06	SLC25A24	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 24 [Source:HGNC Symbol;Acc:20662]
3966	ENSG00000166451	101.2803011	-1.479233105	0.292767209	2.06E-06	CENPN	centromere protein N [Source:HGNC Symbol;Acc:30873]
3967	ENSG00000174292	53.92588446	2.065958208	0.408911087	2.06E-06	TNK1	tyrosine kinase, non-receptor, 1 [Source:HGNC Symbol;Acc:11940]
3968	ENSG00000061918	83.22457191	1.641686105	0.324960825	2.06E-06	GUCY1B3	guanylate cyclase 1, soluble, beta 3 [Source:HGNC Symbol;Acc:4687]
3969	ENSG00000083312	2099.539425	-0.446606645	0.088430829	2.08E-06	TNPO1	transportin 1 [Source:HGNC Symbol;Acc:6401]
3970	ENSG00000100994	758.5057396	0.663886286	0.131533302	2.11E-06	PYGB	phosphorylase, glycogen; brain [Source:HGNC Symbol;Acc:9723]

3971	ENSG00000170325	516.3049446	-0.705212914	0.139759581	2.13E-06	PRDM10	PR domain containing 10 [Source:HGNC Symbol;Acc:13995]
3972	ENSG00000104643	668.2432088	-0.672761004	0.133357639	2.14E-06	MTMR9	myotubularin related protein 9 [Source:HGNC Symbol;Acc:14596]
3973	ENSG00000166377	694.3955204	-0.733898506	0.145528363	2.16E-06	ATP9B	ATPase, class II, type 9B [Source:HGNC Symbol;Acc:13541]
3974	ENSG00000167670	414.2639593	-0.883307143	0.175202271	2.17E-06	CHAF1A	chromatin assembly factor 1, subunit A (p150) [Source:HGNC Symbol;Acc:1910]
3975	ENSG00000066405	66.0679204	-1.845068545	0.366036894	2.18E-06	CLDN18	claudin 18 [Source:HGNC Symbol;Acc:2039]
3976	ENSG00000115128	1185.00553	-0.490897307	0.097403424	2.19E-06	SF3B14	Pre-mRNA branch site protein p14 [Source:UniProtKB/Swiss-Prot;Acc:Q9Y3B4]
3977	ENSG00000065989	142.7148625	1.39117384	0.276099505	2.21E-06	PDE4A	phosphodiesterase 4A, cAMP-specific [Source:HGNC Symbol;Acc:8780]
3978	ENSG00000124160	837.7496666	0.592978687	0.117723714	2.22E-06	NCOA5	nuclear receptor coactivator 5 [Source:HGNC Symbol;Acc:15909]
3979	ENSG00000133878	16.279396	2.821847618	0.560517596	2.25E-06	DUSP26	dual specificity phosphatase 26 (putative) [Source:HGNC Symbol;Acc:28161]
3980	ENSG00000136689	2118.301825	-0.390185811	0.077516884	2.26E-06	IL1RN	interleukin 1 receptor antagonist [Source:HGNC Symbol;Acc:6000]
3981	ENSG00000080819	409.2297191	-0.775072001	0.154057382	2.29E-06	CPOX	coproporphyrinogen oxidase [Source:HGNC Symbol;Acc:2321]
3982	ENSG00000157557	1533.498615	-0.436955614	0.086857578	2.30E-06	ETS2	v-ets avian erythroblastosis virus E26 oncogene homolog 2 [Source:HGNC Symbol;Acc:3489]
3983	ENSG00000152207	59.84105353	1.99421024	0.396809526	2.36E-06	CYSLTR2	cysteinyl leukotriene receptor 2 [Source:HGNC Symbol;Acc:18274]
3984	ENSG00000257743	348.2222043	-0.892022828	0.177631089	2.40E-06	RP11-1220K2.2	Putative inactive maltase-glucoamylase-like protein LOC93432 [Source:UniProtKB/Swiss-Prot;Acc:Q2M2H8]
3985	ENSG00000186638	82.70201841	-1.609414413	0.320666313	2.44E-06	KIF24	kinesin family member 24 [Source:HGNC Symbol;Acc:19916]
3986	ENSG00000082805	418.5216283	-0.846310778	0.168672221	2.46E-06	ERC1	ELKS/RAB6-interacting/CAST family member 1 [Source:HGNC Symbol;Acc:17072]
3987	ENSG00000196214	460.3489876	0.780109979	0.155491928	2.46E-06	ZNF766	zinc finger protein 766 [Source:HGNC Symbol;Acc:28063]
3988	ENSG00000166091	54.12483033	2.048389743	0.408376695	2.48E-06	CMTM5	CKLF-like MARVEL transmembrane domain containing 5 [Source:HGNC Symbol;Acc:19176]
3989	ENSG00000108179	1789.086344	0.436177041	0.086988075	2.50E-06	PPIF	peptidylprolyl isomerase F [Source:HGNC Symbol;Acc:9259]
3990	ENSG00000197362	138.0659154	1.325134001	0.264322097	2.51E-06	ZNF786	zinc finger protein 786 [Source:HGNC Symbol;Acc:21806]
3991	ENSG00000044115	1672.161013	-0.463575241	0.092480584	2.52E-06	CTNNA1	catenin (cadherin-associated protein), alpha 1, 102kDa [Source:HGNC Symbol;Acc:2509]
3992	ENSG00000144668	239.4975365	-1.368005858	0.272965565	2.53E-06	ITGA9	integrin, alpha 9 [Source:HGNC Symbol;Acc:6145]
3993	ENSG00000133131	689.4776285	-0.638767012	0.127472568	2.54E-06	MORC4	MORC family CW-type zinc finger 4 [Source:HGNC Symbol;Acc:23485]
3994	ENSG00000118217	1372.455153	0.475847101	0.094963799	2.54E-06	ATF6	activating transcription factor 6 [Source:HGNC Symbol;Acc:791]
3995	ENSG00000095564	2657.138733	0.363575664	0.072564921	2.55E-06	BTA1	BTA1 RNA polymerase II, B-TFIID transcription factor-associated, 170kDa [Source:HGNC Symbol;Acc:17307]
3996	ENSG00000106211	231.9701993	1.129509811	0.225456884	2.55E-06	HSPB1	heat shock 27kDa protein 1 [Source:HGNC Symbol;Acc:5246]
3997	ENSG00000213297	92.31167581	1.634164288	0.326258309	2.56E-06	ZNF625-ZNF20	ZNF625-ZNF20 readthrough (NMD candidate) [Source:HGNC Symbol;Acc:48368]
3998	ENSG00000177144	20.98621184	2.720077472	0.543171762	2.58E-06	NUDT4P1	nudix (nucleoside diphosphate linked moiety X)-type motif 4 pseudogene 1 [Source:HGNC Symbol;Acc:18012]

3999	ENSG00000119977	244.6154763	1.034499656	0.20658073	2.58E-06	TCTN3	tectonic family member 3 [Source:HGNC Symbol;Acc:24519]
4000	ENSG00000103335	1447.292331	0.717357026	0.143283135	2.59E-06	PIEZO1	piezo-type mechanosensitive ion channel component 1 [Source:HGNC Symbol;Acc:28993]
4001	ENSG00000122674	1381.0516	-0.560892153	0.112066459	2.61E-06	CCZ1	CCZ1 vacuolar protein trafficking and biogenesis associated homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:21691]
4002	ENSG00000141965	523.6024588	0.732077303	0.146274973	2.61E-06	FEM1A	fem-1 homolog a ( <i>C. elegans</i> ) [Source:HGNC Symbol;Acc:16934]
4003	ENSG00000169231	1077.609559	-0.510862579	0.102104266	2.63E-06	THBS3	thrombospondin 3 [Source:HGNC Symbol;Acc:11787]
4004	ENSG00000004700	1233.983578	0.545876517	0.109139541	2.66E-06	RECQL	RecQ protein-like (DNA helicase Q1-like) [Source:HGNC Symbol;Acc:9948]
4005	ENSG00000120705	1728.81312	-0.526368135	0.105283098	2.69E-06	ETF1	eukaryotic translation termination factor 1 [Source:HGNC Symbol;Acc:3477]
4006	ENSG00000138670	109.7606958	1.705236168	0.341126191	2.69E-06	RASGEF1B	RasGEF domain family, member 1B [Source:HGNC Symbol;Acc:24881]
4007	ENSG00000010361	254.1298285	1.102936324	0.220714011	2.72E-06	FUZ	fuzzy planar cell polarity protein [Source:HGNC Symbol;Acc:26219]
4008	ENSG00000119522	761.6331292	-0.78114008	0.156430285	2.77E-06	DENND1A	DENN/MADD domain containing 1A [Source:HGNC Symbol;Acc:29324]
4009	ENSG00000154319	43.14713845	2.216503881	0.444019577	2.79E-06	FAM167A	family with sequence similarity 167, member A [Source:HGNC Symbol;Acc:15549]
4010	ENSG00000136011	97.03870185	-1.703070395	0.341178775	2.79E-06	STAB2	stabilin 2 [Source:HGNC Symbol;Acc:18629]
4011	ENSG00000260319	62.20367898	-1.888439979	0.378539074	2.84E-06	SPATC1	spermatogenesis and centriole associated 1 [Source:HGNC Symbol;Acc:30510]
4012	ENSG00000239836	246.9777131	1.018943318	0.20429934	2.85E-06	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 [Source:HGNC Symbol;Acc:9546]
4013	ENSG00000121281	5734.300321	-0.289007077	0.057946332	2.85E-06	ADCY7	adenylate cyclase 7 [Source:HGNC Symbol;Acc:238]
4014	ENSG00000148288	174.4068575	-1.150135311	0.230713764	2.89E-06	GBGT1	globoside alpha-1,3-N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:20460]
4015	ENSG00000147536	159.0293213	-1.239057498	0.248567912	2.89E-06	GIN5A	GIN5 complex subunit 4 (Sid5 homolog) [Source:HGNC Symbol;Acc:28226]
4016	ENSG00000171817	87.76705452	1.658466569	0.332733232	2.90E-06	ZNF540	zinc finger protein 540 [Source:HGNC Symbol;Acc:25331]
4017	ENSG00000266302	181.7119022	-1.348533044	0.270667045	2.93E-06	RP11-219A15.1	Coiled-coil domain-containing protein 144A [Source:UniProtKB/TrEMBL;Acc:C9JT67]
4018	ENSG00000147475	828.1442767	-0.595209027	0.119468766	2.93E-06	ERLIN2	ER lipid raft associated 2 [Source:HGNC Symbol;Acc:1356]
4019	ENSG00000165630	575.8105261	-0.663469376	0.133214285	2.95E-06	PRPF18	pre-mRNA processing factor 18 [Source:HGNC Symbol;Acc:17351]
4020	ENSG00000068654	574.3740426	0.819944529	0.164667288	2.97E-06	POLR1A	polymerase (RNA) I polypeptide A, 194kDa [Source:HGNC Symbol;Acc:17264]
4021	ENSG00000125648	136.3040194	1.590001087	0.319391561	2.99E-06	SLC25A23	solute carrier family 25 (mitochondrial carrier; phosphate carrier), member 23 [Source:HGNC Symbol;Acc:19375]
4022	ENSG00000078687	1273.763858	0.469789109	0.094376105	2.99E-06	TNRC6C	trinucleotide repeat containing 6C [Source:HGNC Symbol;Acc:29318]
4023	ENSG00000128438	52.31576271	2.026868245	0.40734129	3.02E-06	TBC1D27	TBC1 domain family, member 27 [Source:HGNC Symbol;Acc:28104]
4024	ENSG00000211746	45.5942984	2.157264289	0.433563737	3.02E-06	TRBV19	T cell receptor beta variable 19 [Source:HGNC Symbol;Acc:12194]
4025	ENSG00000115170	119.5473185	1.550398523	0.311651573	3.04E-06	ACVR1	activin A receptor, type I [Source:HGNC Symbol;Acc:171]
4026	ENSG00000135317	1567.033346	-0.498332088	0.100182895	3.05E-06	SNX14	sorting nexin 14 [Source:HGNC Symbol;Acc:14977]

4027	ENSG00000136531	12.22701026	2.807129159	0.564454399	3.06E-06	SCN2A	sodium channel, voltage-gated, type II, alpha subunit [Source:HGNC Symbol;Acc:10588]
4028	ENSG00000133059	1076.565759	-0.518506176	0.10430429	3.09E-06	DSTYK	dual serine/threonine and tyrosine protein kinase [Source:HGNC Symbol;Acc:29043]
4029	ENSG00000136048	761.8392311	-0.688384569	0.138480114	3.09E-06	DRAM1	DNA-damage regulated autophagy modulator 1 [Source:HGNC Symbol;Acc:25645]
4030	ENSG00000186583	62.0643797	-1.886693822	0.379600104	3.11E-06	SPATC1	spermatogenesis and centriole associated 1 [Source:HGNC Symbol;Acc:30510]
4031	ENSG00000189152	78.18268855	1.728236949	0.347760491	3.11E-06	GRAPL	GRB2-related adaptor protein-like [Source:HGNC Symbol;Acc:37240]
4032	ENSG00000126456	2249.808016	0.419947532	0.084506088	3.12E-06	IRF3	interferon regulatory factor 3 [Source:HGNC Symbol;Acc:6118]
4033	ENSG00000063322	846.3079155	0.622470723	0.125272045	3.12E-06	MED29	mediator complex subunit 29 [Source:HGNC Symbol;Acc:23074]
4034	ENSG00000100445	425.5504503	0.832881631	0.167678084	3.15E-06	SDR39U1	short chain dehydrogenase/reductase family 39U, member 1 [Source:HGNC Symbol;Acc:20275]
4035	ENSG00000148925	787.7426413	-0.584676425	0.117715204	3.16E-06	BTBD10	BTB (POZ) domain containing 10 [Source:HGNC Symbol;Acc:21445]
4036	ENSG00000163235	322.2512736	-0.892146754	0.179628456	3.16E-06	TGFA	transforming growth factor, alpha [Source:HGNC Symbol;Acc:11765]
4037	ENSG00000198727	61165.10207	0.258689666	0.052118796	3.21E-06	MT-CYB	mitochondrially encoded cytochrome b [Source:HGNC Symbol;Acc:7427]
4038	ENSG00000051523	6839.44898	-0.386396987	0.077867327	3.23E-06	CYBA	cytochrome b-245, alpha polypeptide [Source:HGNC Symbol;Acc:2577]
4039	ENSG00000272517	321.7257126	-0.890849594	0.179540899	3.24E-06	TGFA	transforming growth factor, alpha [Source:HGNC Symbol;Acc:11765]
4040	ENSG00000188305	330.1883688	-0.947168008	0.190948472	3.26E-06	C19orf35	chromosome 19 open reading frame 35 [Source:HGNC Symbol;Acc:24793]
4041	ENSG00000262295	300.6728456	1.060325399	0.213773793	3.26E-06	SBDSP1	Shwachman-Bodian-Diamond syndrome pseudogene 1 [Source:HGNC Symbol;Acc:21646]
4042	ENSG00000196205	322.3574006	0.940713972	0.189685492	3.27E-06	EEF1A1P5	eukaryotic translation elongation factor 1 alpha 1 pseudogene 5 [Source:HGNC Symbol;Acc:3200]
4043	ENSG00000243594	246.8885313	1.011735293	0.204071466	3.30E-06	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 [Source:HGNC Symbol;Acc:9546]
4044	ENSG00000077420	5390.593235	-0.298845719	0.060278906	3.30E-06	APBB1IP	amyloid beta (A4) precursor protein-binding, family B, member 1 interacting protein [Source:HGNC Symbol;Acc:17379]
4045	ENSG00000176087	979.8231096	0.522612465	0.105456598	3.33E-06	SLC35A4	solute carrier family 35, member A4 [Source:HGNC Symbol;Acc:20753]
4046	ENSG00000165312	781.0947433	0.605071865	0.122181125	3.39E-06	OTUD1	OTU domain containing 1 [Source:HGNC Symbol;Acc:27346]
4047	ENSG00000197050	172.5726402	1.375589041	0.277854895	3.42E-06	ZNF420	zinc finger protein 420 [Source:HGNC Symbol;Acc:20649]
4048	ENSG00000128923	973.1003203	-0.557071642	0.112537994	3.43E-06	FAM63B	family with sequence similarity 63, member B [Source:HGNC Symbol;Acc:26954]
4049	ENSG00000198585	955.0397534	0.569731496	0.115207485	3.51E-06	NUDT16	nudix (nucleoside diphosphate linked moiety X)-type motif 16 [Source:HGNC Symbol;Acc:26442]
4050	ENSG00000116701	25658.62487	-0.250978058	0.050753036	3.52E-06	NCF2	neutrophil cytosolic factor 2 [Source:HGNC Symbol;Acc:7661]
4051	ENSG00000113407	910.0930389	-0.61588716	0.124557614	3.52E-06	TARS	threonyl-tRNA synthetase [Source:HGNC Symbol;Acc:11572]
4052	ENSG00000213585	1029.665546	0.541089732	0.109467471	3.55E-06	VDAC1	voltage-dependent anion channel 1 [Source:HGNC Symbol;Acc:12669]
4053	ENSG00000140287	1100.119996	-0.509904382	0.10318486	3.58E-06	HDC	histidine decarboxylase [Source:HGNC Symbol;Acc:4855]
4054	ENSG00000105662	328.4782705	1.046532515	0.211794789	3.58E-06	CRTC1	CREB regulated transcription coactivator 1 [Source:HGNC Symbol;Acc:16062]

4055	ENSG00000105887	5880.120516	0.307925929	0.062322366	3.59E-06	MTPN	myotrophin [Source:HGNC Symbol;Acc:15667]
4056	ENSG00000055147	488.7350182	-0.75611417	0.153061132	3.61E-06	FAM114A2	family with sequence similarity 114, member A2 [Source:HGNC Symbol;Acc:1333]
4057	ENSG00000167302	1694.378381	0.539829289	0.109279441	3.61E-06	ENTHD2	ENTH domain containing 2 [Source:HGNC Symbol;Acc:26458]
4058	ENSG00000115875	2956.36285	0.35301997	0.071476883	3.62E-06	SRSF7	serine/arginine-rich splicing factor 7 [Source:HGNC Symbol;Acc:10789]
4059	ENSG00000078399	23.97478903	-2.544118681	0.515283617	3.65E-06	HOXA9	homeobox A9 [Source:HGNC Symbol;Acc:5109]
4060	ENSG00000099917	2215.322859	0.499059891	0.101090126	3.66E-06	MED15	mediator complex subunit 15 [Source:HGNC Symbol;Acc:14248]
4061	ENSG00000105701	4884.957733	1.040545775	0.210779817	3.66E-06	FKBP8	FK506 binding protein 8, 38kDa [Source:HGNC Symbol;Acc:3724]
4062	ENSG00000205246	232.8119341	1.040672688	0.210818352	3.67E-06	RPSAP58	ribosomal protein SA pseudogene 58 [Source:HGNC Symbol;Acc:36809]
4063	ENSG00000067992	613.9075652	-0.679107587	0.137578124	3.67E-06	PKD3	pyruvate dehydrogenase kinase, isozyme 3 [Source:HGNC Symbol;Acc:8811]
4064	ENSG00000173530	416.0015929	-0.758920409	0.153765465	3.68E-06	TNFRSF10D	tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death domain [Source:HGNC Symbol;Acc:11907]
4065	ENSG00000185947	866.3748234	0.589669822	0.119487003	3.69E-06	ZNF267	zinc finger protein 267 [Source:HGNC Symbol;Acc:13060]
4066	ENSG00000108406	852.1465485	0.589812799	0.119531664	3.70E-06	DHX40	DEAH (Asp-Glu-Ala-His) box polypeptide 40 [Source:HGNC Symbol;Acc:18018]
4067	ENSG00000130766	735.9048545	-0.615261561	0.124700571	3.71E-06	SESN2	sestrin 2 [Source:HGNC Symbol;Acc:20746]
4068	ENSG00000071794	409.5015337	-0.803037189	0.162774869	3.72E-06	HLTF	helicase-like transcription factor [Source:HGNC Symbol;Acc:11099]
4069	ENSG00000153162	38.52136383	2.279644772	0.462185661	3.74E-06	BMP6	bone morphogenetic protein 6 [Source:HGNC Symbol;Acc:1073]
4070	ENSG00000146021	196.5750878	1.109238456	0.225045913	3.80E-06	KLHL3	kelch-like family member 3 [Source:HGNC Symbol;Acc:6354]
4071	ENSG00000131437	192.0326234	1.432898133	0.290723051	3.80E-06	KIF3A	kinesin family member 3A [Source:HGNC Symbol;Acc:6319]
4072	ENSG00000167604	944.2298536	-0.573073489	0.11629461	3.82E-06	NFKBID	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, delta [Source:HGNC Symbol;Acc:15671]
4073	ENSG00000023892	4342.568469	-0.314630882	0.063892834	3.89E-06	DEF6	differentially expressed in FDCP 6 homolog (mouse) [Source:HGNC Symbol;Acc:2760]
4074	ENSG00000160712	6949.976253	-0.292839415	0.059488005	3.92E-06	IL6R	interleukin 6 receptor [Source:HGNC Symbol;Acc:6019]
4075	ENSG00000117597	314.8024549	0.885957867	0.180277395	4.09E-06	DIEXF	digestive organ expansion factor homolog (zebrafish) [Source:HGNC Symbol;Acc:28440]
4076	ENSG00000124772	111.1698364	1.515307448	0.308507373	4.14E-06	CPNE5	copine V [Source:HGNC Symbol;Acc:2318]
4077	ENSG00000173614	460.3346245	-0.783576781	0.159552142	4.16E-06	NMNAT1	nicotinamide nucleotide adenyltransferase 1 [Source:HGNC Symbol;Acc:17877]
4078	ENSG00000101842	116.1086932	1.626740093	0.331288749	4.17E-06	VSIG1	V-set and immunoglobulin domain containing 1 [Source:HGNC Symbol;Acc:28675]
4079	ENSG00000235602	126.4523295	-1.362243459	0.277436869	4.18E-06	POU5F1P3	POU class 5 homeobox 1 pseudogene 3 [Source:HGNC Symbol;Acc:9222]
4080	ENSG00000146556	979.6281007	-0.679662967	0.138453763	4.20E-06	WASH2P	WAS protein family homolog 2 pseudogene [Source:HGNC Symbol;Acc:33145]
4081	ENSG00000013523	313.3930664	0.921896032	0.187805991	4.20E-06	ANGEL1	angel homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:19961]
4082	ENSG00000130429	7226.512133	-0.272721158	0.055566852	4.22E-06	ARPC1B	actin related protein 2/3 complex, subunit 1B, 41kDa [Source:HGNC Symbol;Acc:704]



4083	ENSG00000198315	1086.660701	0.551924724	0.112458772	4.22E-06	ZKSCAN8	zinc finger with KRAB and SCAN domains 8 [Source:HGNC Symbol;Acc:12983]
4084	ENSG00000164300	288.3566357	0.922818648	0.188145146	4.28E-06	SERINC5	serine incorporator 5 [Source:HGNC Symbol;Acc:18825]
4085	ENSG00000135953	365.5750513	-0.861834442	0.175752833	4.31E-06	MFSD9	major facilitator superfamily domain containing 9 [Source:HGNC Symbol;Acc:28158]
4086	ENSG00000165891	60.65153637	-1.913329551	0.390241154	4.32E-06	E2F7	E2F transcription factor 7 [Source:HGNC Symbol;Acc:23820]
4087	ENSG00000121211	58.45551896	-1.804406255	0.368051004	4.33E-06	MND1	meiotic nuclear divisions 1 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:24839]
4088	ENSG00000204525	281.7576254	1.112600787	0.22702977	4.37E-06	HLA-C	major histocompatibility complex, class I, C [Source:HGNC Symbol;Acc:4933]
4089	ENSG00000105176	854.9632305	0.596869918	0.121884686	4.45E-06	URI1	URI1, prefoldin-like chaperone [Source:HGNC Symbol;Acc:13236]
4090	ENSG00000223865	48.80048925	2.149841467	0.439030889	4.46E-06	HLA-DPB1	major histocompatibility complex, class II, DP beta 1 [Source:HGNC Symbol;Acc:4940]
4091	ENSG00000168646	71.24048614	1.895682605	0.387193261	4.48E-06	AXIN2	axin 2 [Source:HGNC Symbol;Acc:904]
4092	ENSG00000196704	537.0767787	0.69850468	0.142744737	4.53E-06	AMZ2	archaelysin family metallopeptidase 2 [Source:HGNC Symbol;Acc:28041]
4093	ENSG00000267206	52.34539446	2.10117057	0.429425224	4.54E-06	LCN6	lipocalin 6 [Source:HGNC Symbol;Acc:17337]
4094	ENSG00000100285	65.30007874	-1.745439575	0.356752609	4.55E-06	NEFH	neurofilament, heavy polypeptide [Source:HGNC Symbol;Acc:7737]
4095	ENSG00000243067	243.2739628	1.007577996	0.205983957	4.57E-06	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 [Source:HGNC Symbol;Acc:9546]
4096	ENSG00000163810	48.13052251	-1.981083473	0.405028943	4.58E-06	TGM4	transglutaminase 4 [Source:HGNC Symbol;Acc:11780]
4097	ENSG00000132297	1283.339424	0.470586605	0.096210888	4.58E-06	HHLA1	HERV-H LTR-associating 1 [Source:HGNC Symbol;Acc:4904]
4098	ENSG00000226173	277.8595726	1.136210093	0.232300369	4.58E-06	TAP1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) [Source:HGNC Symbol;Acc:43]
4099	ENSG00000240118	237.7550349	1.016110539	0.207753398	4.58E-06	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 [Source:HGNC Symbol;Acc:9546]
4100	ENSG00000206297	277.8265403	1.135418966	0.232168701	4.59E-06	TAP1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) [Source:HGNC Symbol;Acc:43]
4101	ENSG00000099968	1006.736549	-0.548824616	0.112228229	4.60E-06	BCL2L13	BCL2-like 13 (apoptosis facilitator) [Source:HGNC Symbol;Acc:17164]
4102	ENSG00000262747	537.0642271	0.698096367	0.142774994	4.61E-06	AMZ2	archaelysin family metallopeptidase 2 [Source:HGNC Symbol;Acc:28041]
4103	ENSG00000115020	3055.149611	-0.364667297	0.074589253	4.62E-06	PIKFYVE	phosphoinositide kinase, FYVE finger containing [Source:HGNC Symbol;Acc:23785]
4104	ENSG00000104369	17.2814848	2.735106343	0.559467903	4.63E-06	JPH1	junctophilin 1 [Source:HGNC Symbol;Acc:14201]
4105	ENSG00000188312	119.1457494	-1.360927462	0.278410583	4.64E-06	CENPP	centromere protein P [Source:HGNC Symbol;Acc:32933]
4106	ENSG00000132549	1974.74846	-0.49007686	0.10029085	4.68E-06	VPS13B	vacuolar protein sorting 13 homolog B (yeast) [Source:HGNC Symbol;Acc:2183]
4107	ENSG00000173210	42.95671462	2.204309191	0.451101235	4.68E-06	ABLIM3	actin binding LIM protein family, member 3 [Source:HGNC Symbol;Acc:29132]
4108	ENSG00000173692	1172.189796	-0.651797102	0.133389198	4.68E-06	PSMD1	proteasome (prosome, macropain) 26S subunit, non-ATPase, 1 [Source:HGNC Symbol;Acc:9554]
4109	ENSG00000152953	52.85302929	2.014199893	0.412418025	4.74E-06	STK32B	serine/threonine kinase 32B [Source:HGNC Symbol;Acc:14217]
4110	ENSG00000134765	28.27214598	2.525010739	0.517060925	4.75E-06	DSC1	desmocollin 1 [Source:HGNC Symbol;Acc:3035]

4111	ENSG00000147576	211.6127699	1.093282079	0.223897742	4.76E-06	ADHFE1	alcohol dehydrogenase, iron containing, 1 [Source:HGNC Symbol;Acc:16354]
4112	ENSG00000112561	1414.396935	0.585664101	0.1199514	4.77E-06	TFEB	transcription factor EB [Source:HGNC Symbol;Acc:11753]
4113	ENSG00000100298	122.5895559	-1.388895855	0.284571882	4.81E-06	APOBEC3H	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3H [Source:HGNC Symbol;Acc:24100]
4114	ENSG00000016391	152.9125222	-1.297274399	0.265936705	4.87E-06	CHDH	choline dehydrogenase [Source:HGNC Symbol;Acc:24288]
4115	ENSG00000156411	1703.516483	-0.447338275	0.091713749	4.88E-06	C14orf2	chromosome 14 open reading frame 2 [Source:HGNC Symbol;Acc:1188]
4116	ENSG00000240065	242.6668998	1.006635016	0.206434465	4.91E-06	PSMB9	proteasome (prosome, macropain) subunit, beta type, 9 [Source:HGNC Symbol;Acc:9546]
4117	ENSG00000197780	303.0795189	-0.880854948	0.180651325	4.92E-06	TAF13	TAF13 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 18kDa [Source:HGNC Symbol;Acc:11546]
4118	ENSG00000132670	1564.554625	0.437475231	0.089724344	4.93E-06	PTPRA	protein tyrosine phosphatase, receptor type, A [Source:HGNC Symbol;Acc:9664]
4119	ENSG00000118680	7720.945243	-0.277203471	0.056864982	4.95E-06	MYL12B	myosin, light chain 12B, regulatory [Source:HGNC Symbol;Acc:29827]
4120	ENSG00000102898	670.8729488	0.624528141	0.12812629	4.96E-06	NUTF2	nuclear transport factor 2 [Source:HGNC Symbol;Acc:13722]
4121	ENSG00000175445	105.6441539	-1.459011932	0.299369794	4.98E-06	LPL	lipoprotein lipase [Source:HGNC Symbol;Acc:6677]
4122	ENSG00000160710	15743.67234	-0.250931212	0.05149022	4.98E-06	ADAR	adenosine deaminase, RNA-specific [Source:HGNC Symbol;Acc:225]
4123	ENSG00000166913	10457.25133	-0.28660062	0.058821731	5.01E-06	YWHAH	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, beta [Source:HGNC Symbol;Acc:12849]
4124	ENSG00000011198	1394.622477	-0.44388801	0.091123262	5.03E-06	ABHD5	abhydrolase domain containing 5 [Source:HGNC Symbol;Acc:21396]
4125	ENSG00000170892	106.2216655	1.481254034	0.304145685	5.06E-06	TSEN34	TSEN34 tRNA splicing endonuclease subunit [Source:HGNC Symbol;Acc:15506]
4126	ENSG00000272739	106.2216157	1.481244816	0.304145827	5.06E-06	TSEN34	TSEN34 tRNA splicing endonuclease subunit [Source:HGNC Symbol;Acc:15506]
4127	ENSG00000273053	106.2215489	1.481242243	0.304145836	5.06E-06	TSEN34	TSEN34 tRNA splicing endonuclease subunit [Source:HGNC Symbol;Acc:15506]
4128	ENSG00000272561	106.2214465	1.481232624	0.304145878	5.06E-06	TSEN34	TSEN34 tRNA splicing endonuclease subunit [Source:HGNC Symbol;Acc:15506]
4129	ENSG00000272705	106.2212962	1.481225344	0.304146656	5.06E-06	TSEN34	TSEN34 tRNA splicing endonuclease subunit [Source:HGNC Symbol;Acc:15506]
4130	ENSG00000273490	106.2213146	1.481215588	0.304147471	5.06E-06	TSEN34	TSEN34 tRNA splicing endonuclease subunit [Source:HGNC Symbol;Acc:15506]
4131	ENSG00000273235	106.2211988	1.481204835	0.304147977	5.06E-06	TSEN34	TSEN34 tRNA splicing endonuclease subunit [Source:HGNC Symbol;Acc:15506]
4132	ENSG00000100934	899.4385212	-0.537940618	0.110504441	5.10E-06	SEC23A	Sec23 homolog A (S. cerevisiae) [Source:HGNC Symbol;Acc:10701]
4133	ENSG00000163171	5527.184279	-0.315285467	0.064771525	5.11E-06	CDC42EP3	CDC42 effector protein (Rho GTPase binding) 3 [Source:HGNC Symbol;Acc:16943]
4134	ENSG00000112079	7096.054621	-0.26197002	0.053844707	5.17E-06	STK38	serine/threonine kinase 38 [Source:HGNC Symbol;Acc:17847]
4135	ENSG00000117592	1767.700237	0.404443436	0.083132825	5.18E-06	PRDX6	peroxiredoxin 6 [Source:HGNC Symbol;Acc:16753]
4136	ENSG00000131381	770.5965689	-0.588010399	0.120886246	5.20E-06	ZFYVE20	zinc finger, FYVE domain containing 20 [Source:HGNC Symbol;Acc:20759]
4137	ENSG00000203760	105.692647	-1.446056661	0.297364406	5.23E-06	CENPW	centromere protein W [Source:HGNC Symbol;Acc:21488]
4138	ENSG00000111676	176.7943021	1.177823876	0.242233843	5.25E-06	ATN1	atrophin 1 [Source:HGNC Symbol;Acc:3033]

4139	ENSG00000138801	1231.841856	0.487080482	0.100181013	5.25E-06	PAPSS1	3'-phosphoadenosine 5'-phosphosulfate synthase 1 [Source:HGNC Symbol;Acc:8603]
4140	ENSG00000099999	197.1284153	-1.058043998	0.217829288	5.38E-06	RNF215	ring finger protein 215 [Source:HGNC Symbol;Acc:33434]
4141	ENSG00000124243	72.21382991	1.688253306	0.347602902	5.39E-06	BCAS4	breast carcinoma amplified sequence 4 [Source:HGNC Symbol;Acc:14367]
4142	ENSG00000104972	277.5813792	1.22185007	0.251629878	5.42E-06	LILRB1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1 [Source:HGNC Symbol;Acc:6605]
4143	ENSG00000104164	2028.429728	-0.428647076	0.088278518	5.42E-06	BLOC1S6	biogenesis of lysosomal organelles complex-1, subunit 6, pallidin [Source:HGNC Symbol;Acc:8549]
4144	ENSG00000176915	2847.001876	0.393473916	0.081045818	5.44E-06	ANKLE2	ankyrin repeat and LEM domain containing 2 [Source:HGNC Symbol;Acc:29101]
4145	ENSG00000159348	787.3808071	-0.563839577	0.116136922	5.44E-06	CYB5R1	cytochrome b5 reductase 1 [Source:HGNC Symbol;Acc:13397]
4146	ENSG00000156873	1708.232894	-0.430492158	0.088685647	5.46E-06	PHKG2	phosphorylase kinase, gamma 2 (testis) [Source:HGNC Symbol;Acc:8931]
4147	ENSG00000003756	9936.427985	-0.273698724	0.056399132	5.49E-06	RBM5	RNA binding motif protein 5 [Source:HGNC Symbol;Acc:9902]
4148	ENSG00000205565	182.4546977	1.341040908	0.276348946	5.49E-06	RP11-497H16.6	
4149	ENSG00000167548	6861.098043	-0.294791688	0.060764265	5.53E-06	KMT2D	lysine (K)-specific methyltransferase 2D [Source:HGNC Symbol;Acc:7133]
4150	ENSG00000198520	1147.75944	0.645394649	0.133088223	5.58E-06	C1orf228	chromosome 1 open reading frame 228 [Source:HGNC Symbol;Acc:34345]
4151	ENSG00000073060	493.3665437	0.774086661	0.159629908	5.59E-06	SCARB1	scavenger receptor class B, member 1 [Source:HGNC Symbol;Acc:1664]
4152	ENSG00000109519	454.5050061	-0.774821546	0.159847148	5.64E-06	GRPEL1	GrpE-like 1, mitochondrial (E. coli) [Source:HGNC Symbol;Acc:19696]
4153	ENSG00000140632	2529.741848	-0.389022719	0.080293186	5.70E-06	GLYR1	glyoxylate reductase 1 homolog (Arabidopsis) [Source:HGNC Symbol;Acc:24434]
4154	ENSG00000182473	3020.694237	-0.376830268	0.077795871	5.74E-06	EXOC7	exocyst complex component 7 [Source:HGNC Symbol;Acc:23214]
4155	ENSG00000151729	91.82861759	1.595450355	0.32945632	5.77E-06	SLC25A4	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 4 [Source:HGNC Symbol;Acc:10990]
4156	ENSG00000254901	902.5169292	-0.537962637	0.111112016	5.80E-06	MEF2BNB	MEF2B neighbor [Source:HGNC Symbol;Acc:37247]
4157	ENSG00000148219	447.9422286	-0.736118257	0.15204358	5.80E-06	ASTN2	astrotactin 2 [Source:HGNC Symbol;Acc:17021]
4158	ENSG00000156218	282.0230916	-0.893738684	0.184604174	5.80E-06	ADAMTSL3	ADAMTS-like 3 [Source:HGNC Symbol;Acc:14633]
4159	ENSG00000125871	834.2567406	-0.554620109	0.114572664	5.82E-06	MGME1	mitochondrial genome maintenance exonuclease 1 [Source:HGNC Symbol;Acc:16205]
4160	ENSG00000228492	668.6628073	-0.640772675	0.132388195	5.84E-06	RAB11FIP1P1	RAB11 family interacting protein 1 (class I) pseudogene 1 [Source:HGNC Symbol;Acc:42366]
4161	ENSG00000268872	177.3266092	1.175381514	0.242913732	5.88E-06	ATN1	atrophin 1 [Source:HGNC Symbol;Acc:3033]
4162	ENSG00000102781	261.8965999	1.056169864	0.218286044	5.88E-06	KATNAL1	katanin p60 subunit A-like 1 [Source:HGNC Symbol;Acc:28361]
4163	ENSG00000271383	2391.265867	0.402064028	0.083130171	5.94E-06	AC242842.2	NBPF [Source:UniProtKB/TrEMBL;Acc:Q3BBU2]
4164	ENSG00000211592	4415.939849	-0.299276914	0.061881503	5.95E-06	IGKC	immunoglobulin kappa constant [Source:HGNC Symbol;Acc:5716]
4165	ENSG00000134352	1163.502333	1.233273354	0.255056907	5.97E-06	IL6ST	interleukin 6 signal transducer (gp130, oncostatin M receptor) [Source:HGNC Symbol;Acc:6021]
4166	ENSG00000073712	25.74932832	2.478702869	0.512812766	6.02E-06	FERMT2	fermitin family member 2 [Source:HGNC Symbol;Acc:15767]

4167	ENSG00000215298	1930.517894	-0.430146104	0.089006129	6.05E-06	FP15737	
4168	ENSG00000086570	85.6076747	-1.553448636	0.32145912	6.05E-06	FAT2	FAT atypical cadherin 2 [Source:HGNC Symbol;Acc:3596]
4169	ENSG00000179598	186.0589599	-1.08135999	0.223853239	6.11E-06	PLD6	phospholipase D family, member 6 [Source:HGNC Symbol;Acc:30447]
4170	ENSG00000005379	1027.248245	0.625236215	0.129473789	6.15E-06	BZRAP1	benzodiazepine receptor (peripheral) associated protein 1 [Source:HGNC Symbol;Acc:16831]
4171	ENSG00000189337	527.8490219	-0.696364723	0.144203119	6.15E-06	KAZN	kazrin, periplakin interacting protein [Source:HGNC Symbol;Acc:29173]
4172	ENSG00000167363	84.42416177	-1.68598972	0.349252143	6.20E-06	FN3K	fructosamine 3 kinase [Source:HGNC Symbol;Acc:24822]
4173	ENSG00000138813	62.51972017	-1.7469376	0.362022103	6.26E-06	C4orf17	chromosome 4 open reading frame 17 [Source:HGNC Symbol;Acc:25274]
4174	ENSG00000130723	3858.399981	0.357506945	0.074100364	6.29E-06	PRRC2B	proline-rich coiled-coil 2B [Source:HGNC Symbol;Acc:28121]
4175	ENSG00000135390	2816.979407	0.335586685	0.069570363	6.32E-06	ATP5G2	ATP synthase, H <sup>+</sup> transporting, mitochondrial Fo complex, subunit C2 (subunit 9) [Source:HGNC Symbol;Acc:842]
4176	ENSG00000260227	38.20310685	2.223000626	0.460921685	6.34E-06	TRBV5-1	T cell receptor beta variable 5-1 [Source:HGNC Symbol;Acc:12218]
4177	ENSG00000120688	498.7961686	-0.714203233	0.148146101	6.40E-06	WBP4	WW domain binding protein 4 [Source:HGNC Symbol;Acc:12739]
4178	ENSG00000170289	18.54417187	-2.591252603	0.53751184	6.40E-06	CNGB3	cyclic nucleotide gated channel beta 3 [Source:HGNC Symbol;Acc:2153]
4179	ENSG00000167378	659.235424	-0.618273708	0.12828233	6.44E-06	IRGQ	immunity-related GTPase family, Q [Source:HGNC Symbol;Acc:24868]
4180	ENSG00000212916	66.40983851	1.800573791	0.373619332	6.45E-06	MAP10	microtubule-associated protein 10 [Source:HGNC Symbol;Acc:29265]
4181	ENSG00000081721	237.1446439	1.001430936	0.207859914	6.50E-06	DUSP12	dual specificity phosphatase 12 [Source:HGNC Symbol;Acc:3067]
4182	ENSG00000124789	1899.735981	0.421985668	0.087663122	6.63E-06	NUP153	nucleoporin 153kDa [Source:HGNC Symbol;Acc:8062]
4183	ENSG00000070501	726.621551	0.595610817	0.123770196	6.68E-06	POLB	polymerase (DNA directed), beta [Source:HGNC Symbol;Acc:9174]
4184	ENSG00000100304	528.3713712	-0.721172355	0.149872806	6.69E-06	TLL12	tubulin tyrosine ligase-like family, member 12 [Source:HGNC Symbol;Acc:28974]
4185	ENSG00000159231	55.23866025	1.86710622	0.388299654	6.80E-06	CBR3	carbonyl reductase 3 [Source:HGNC Symbol;Acc:1549]
4186	ENSG00000184985	153.2197258	-1.26039124	0.262171829	6.83E-06	SORCS2	sortilin-related VPS10 domain containing receptor 2 [Source:HGNC Symbol;Acc:16698]
4187	ENSG00000196155	116.604898	1.562523671	0.325140778	6.89E-06	PLEKHG4	pleckstrin homology domain containing, family G (with RhoGef domain) member 4 [Source:HGNC Symbol;Acc:24501]
4188	ENSG00000100403	952.3295339	0.558691146	0.116259379	6.90E-06	ZC3H7B	zinc finger CCCH-type containing 7B [Source:HGNC Symbol;Acc:30869]
4189	ENSG00000266028	885.5336034	-0.806648877	0.167870954	6.91E-06	SRGAP2	SLIT-ROBO Rho GTPase activating protein 2 [Source:HGNC Symbol;Acc:19751]
4190	ENSG00000161013	1094.805137	-0.580785542	0.120915967	6.97E-06	MGAT4B	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme B [Source:HGNC Symbol;Acc:7048]
4191	ENSG00000114302	1016.814339	-0.51009789	0.106214288	7.00E-06	PRKAR2A	protein kinase, cAMP-dependent, regulatory, type II, alpha [Source:HGNC Symbol;Acc:9391]
4192	ENSG00000211804	40.90727966	2.210772828	0.460398511	7.02E-06	TRDV1	T cell receptor delta variable 1 [Source:HGNC Symbol;Acc:12262]
4193	ENSG00000266777	212.9522686	-1.075252593	0.223928016	7.02E-06	SH3GL1P1	SH3-domain GRB2-like 1 pseudogene 1 [Source:HGNC Symbol;Acc:10835]
4194	ENSG00000187713	383.6403809	0.782532994	0.162993817	7.04E-06	TMEM203	transmembrane protein 203 [Source:HGNC Symbol;Acc:28217]

4195	ENSG00000109255	12.40677678	-2.709964701	0.564500052	7.06E-06	NMU	neuromedin U [Source:HGNC Symbol;Acc:7859]
4196	ENSG00000188026	357.4505774	-0.832620907	0.173510053	7.12E-06	RILPL1	Rab interacting lysosomal protein-like 1 [Source:HGNC Symbol;Acc:26814]
4197	ENSG00000160293	133.3298954	1.319422969	0.275040158	7.17E-06	VAV2	vav 2 guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:12658]
4198	ENSG00000224501	16.10454272	2.676189926	0.557880311	7.18E-06	HSPA1B	heat shock 70kDa protein 1B [Source:HGNC Symbol;Acc:5233]
4199	ENSG00000197165	179.2760595	-1.086771373	0.226567367	7.19E-06	SULT1A2	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 2 [Source:HGNC Symbol;Acc:11454]
4200	ENSG00000067334	1287.92959	-0.462190444	0.096385683	7.24E-06	DNTTIP2	deoxynucleotidyltransferase, terminal, interacting protein 2 [Source:HGNC Symbol;Acc:24013]
4201	ENSG00000131697	291.5497721	-0.994602914	0.207476618	7.29E-06	NPHP4	nephronophthisis 4 [Source:HGNC Symbol;Acc:19104]
4202	ENSG00000143816	32.67648416	2.29539377	0.478917849	7.32E-06	WNT9A	wingless-type MMTV integration site family, member 9A [Source:HGNC Symbol;Acc:12778]
4203	ENSG00000124882	92.44540015	-1.481623165	0.309143416	7.33E-06	EREG	epiregulin [Source:HGNC Symbol;Acc:3443]
4204	ENSG00000198929	72.64512702	-1.709064274	0.356781818	7.42E-06	NOS1AP	nitric oxide synthase 1 (neuronal) adaptor protein [Source:HGNC Symbol;Acc:16859]
4205	ENSG00000211734	37.85786261	2.209502854	0.461553664	7.53E-06	TRBV5-1	T cell receptor beta variable 5-1 [Source:HGNC Symbol;Acc:12218]
4206	ENSG00000146409	215.4703149	1.017996195	0.212683339	7.55E-06	SLC18B1	solute carrier family 18, subfamily B, member 1 [Source:HGNC Symbol;Acc:21573]
4207	ENSG00000119655	1902.001224	0.430515225	0.089957818	7.58E-06	NPC2	Niemann-Pick disease, type C2 [Source:HGNC Symbol;Acc:14537]
4208	ENSG00000139437	1118.560686	-0.496953259	0.103887036	7.66E-06	TCHP	trichoplein, keratin filament binding [Source:HGNC Symbol;Acc:28135]
4209	ENSG00000262199	20.83151302	-2.509944754	0.524758719	7.68E-06	SRCIN1	SRC kinase signaling inhibitor 1 [Source:HGNC Symbol;Acc:29506]
4210	ENSG00000175857	2509.192529	-0.362107372	0.07571395	7.69E-06	GAPT	GRB2-binding adaptor protein, transmembrane [Source:HGNC Symbol;Acc:26588]
4211	ENSG00000102580	2249.872079	-0.379573856	0.079373891	7.71E-06	DNAJC3	DnaJ (Hsp40) homolog, subfamily C, member 3 [Source:HGNC Symbol;Acc:9439]
4212	ENSG00000017373	20.82747256	-2.509420047	0.524768783	7.71E-06	SRCIN1	SRC kinase signaling inhibitor 1 [Source:HGNC Symbol;Acc:29506]
4213	ENSG00000244480	284.4898488	-0.938928293	0.196351101	7.71E-06	AC005154.7	
4214	ENSG00000147526	4662.929904	-0.337791134	0.070655162	7.75E-06	TACC1	transforming, acidic coiled-coil containing protein 1 [Source:HGNC Symbol;Acc:11522]
4215	ENSG00000100697	5234.397584	0.326221485	0.068246536	7.78E-06	DICER1	dicer 1, ribonuclease type III [Source:HGNC Symbol;Acc:17098]
4216	ENSG00000211696	33.02500831	2.34548738	0.49081332	7.83E-06	TRGV8	T cell receptor gamma variable 8 [Source:HGNC Symbol;Acc:12294]
4217	ENSG0000080986	247.2789376	-0.974479898	0.203973557	7.88E-06	NDC80	NDC80 kinetochore complex component [Source:HGNC Symbol;Acc:16909]
4218	ENSG00000125944	2018.523228	0.434819975	0.091016129	7.88E-06	HNRNPR	heterogeneous nuclear ribonucleoprotein R [Source:HGNC Symbol;Acc:5047]
4219	ENSG00000196511	198.6173664	1.071354678	0.224259282	7.88E-06	TPK1	thiamin pyrophosphokinase 1 [Source:HGNC Symbol;Acc:17358]
4220	ENSG00000223654	2151.944923	-0.462884764	0.096916315	7.92E-06	FLOT1	flotillin 1 [Source:HGNC Symbol;Acc:3757]
4221	ENSG00000148384	227.3878199	1.039485885	0.217667655	7.95E-06	INPP5E	inositol polyphosphate-5-phosphatase, 72 kDa [Source:HGNC Symbol;Acc:21474]
4222	ENSG00000156304	1000.29914	-0.500133147	0.104826858	8.12E-06	SCAF4	SR-related CTD-associated factor 4 [Source:HGNC Symbol;Acc:19304]

4223	ENSG00000089505	133.7697276	-1.273151614	0.266880806	8.14E-06	CMTM1	CKLF-like MARVEL transmembrane domain containing 1 [Source:HGNC Symbol;Acc:19172]
4224	ENSG00000174744	819.8563203	0.585529456	0.122850587	8.32E-06	BRMS1	breast cancer metastasis suppressor 1 [Source:HGNC Symbol;Acc:17262]
4225	ENSG00000103502	1489.215583	0.528764986	0.110951034	8.33E-06	CDIPT	CDP-diacylglycerol--inositol 3-phosphatidyltransferase [Source:HGNC Symbol;Acc:1769]
4226	ENSG00000110921	157.5394049	-1.186496671	0.249013973	8.37E-06	MVK	mevalonate kinase [Source:HGNC Symbol;Acc:7530]
4227	ENSG00000089127	362.3431003	0.83251742	0.174802773	8.46E-06	OAS1	2'-5'-oligoadenylate synthetase 1, 40/46kDa [Source:HGNC Symbol;Acc:8086]
4228	ENSG00000177119	785.5813774	0.607937862	0.127650697	8.46E-06	ANO6	anoctamin 6 [Source:HGNC Symbol;Acc:25240]
4229	ENSG00000182858	362.1088012	0.836832227	0.175749841	8.50E-06	ALG12	ALG12, alpha-1,6-mannosyltransferase [Source:HGNC Symbol;Acc:19358]
4230	ENSG00000163703	394.9120224	0.780274993	0.163888076	8.52E-06	CRELD1	cysteine-rich with EGF-like domains 1 [Source:HGNC Symbol;Acc:14630]
4231	ENSG00000163788	4071.639719	0.348737268	0.073266013	8.57E-06	SNRK	SNF related kinase [Source:HGNC Symbol;Acc:30598]
4232	ENSG00000187627	79.17734843	1.823505595	0.383127534	8.58E-06	RGPD1	RANBP2-like and GRIP domain containing 1 [Source:HGNC Symbol;Acc:32414]
4233	ENSG00000168282	495.188519	0.728540806	0.153077135	8.59E-06	MGAT2	mannosyl (alpha-1,6-)-glycoprotein beta-1,2-N-acetylglucosaminyltransferase [Source:HGNC Symbol;Acc:7045]
4234	ENSG00000146587	557.4667487	0.698990222	0.146887318	8.61E-06	RBAK	RB-associated KRAB zinc finger [Source:HGNC Symbol;Acc:17680]
4235	ENSG00000078043	340.9335287	0.927884409	0.194989042	8.61E-06	PIAS2	protein inhibitor of activated STAT, 2 [Source:HGNC Symbol;Acc:17311]
4236	ENSG00000143621	1705.562665	-0.394766593	0.082977727	8.66E-06	ILF2	interleukin enhancer binding factor 2 [Source:HGNC Symbol;Acc:6037]
4237	ENSG00000149557	66.90536287	1.888946416	0.397151467	8.71E-06	FEZ1	fasciculation and elongation protein zeta 1 (zygin I) [Source:HGNC Symbol;Acc:3659]
4238	ENSG00000164099	15.60452545	-2.650420043	0.557275288	8.72E-06	PRSS12	protease, serine, 12 (neurotrypsin, motopsin) [Source:HGNC Symbol;Acc:9477]
4239	ENSG00000261855	98.09036013	-1.406927272	0.295835338	8.73E-06	HYAL3	hyaluronoglucosaminidase 3 [Source:HGNC Symbol;Acc:5322]
4240	ENSG00000125319	89.23452978	-1.514475041	0.318656019	8.86E-06	C17orf53	chromosome 17 open reading frame 53 [Source:HGNC Symbol;Acc:28460]
4241	ENSG00000172725	410.1820796	0.814570057	0.171456824	8.94E-06	CORO1B	coronin, actin binding protein, 1B [Source:HGNC Symbol;Acc:2253]
4242	ENSG00000198799	663.4949239	-0.674096778	0.141890831	8.94E-06	LRIG2	leucine-rich repeats and immunoglobulin-like domains 2 [Source:HGNC Symbol;Acc:20889]
4243	ENSG00000145476	781.7606858	0.600628639	0.126439453	8.96E-06	CYP4V2	cytochrome P450, family 4, subfamily V, polypeptide 2 [Source:HGNC Symbol;Acc:23198]
4244	ENSG00000148400	3051.826011	0.500718428	0.105419181	8.98E-06	NOTCH1	notch 1 [Source:HGNC Symbol;Acc:7881]
4245	ENSG00000164187	540.3058693	0.681943104	0.143607781	9.03E-06	LMBRD2	LMBR1 domain containing 2 [Source:HGNC Symbol;Acc:25287]
4246	ENSG00000167566	437.6027932	-0.823409004	0.173444478	9.08E-06	NCKAP5L	NCK-associated protein 5-like [Source:HGNC Symbol;Acc:29321]
4247	ENSG00000164073	696.771219	0.627698444	0.132224953	9.09E-06	MFSD8	major facilitator superfamily domain containing 8 [Source:HGNC Symbol;Acc:28486]
4248	ENSG00000256069	70.08981096	1.739042307	0.366354541	9.10E-06	A2MP1	alpha-2-macroglobulin pseudogene 1 [Source:HGNC Symbol;Acc:8]
4249	ENSG00000177731	5603.820041	-0.266757454	0.056212192	9.16E-06	FLII	flightless I homolog (Drosophila) [Source:HGNC Symbol;Acc:3750]
4250	ENSG00000131095	86.88355467	-1.5380983	0.324299801	9.28E-06	GFAP	glial fibrillary acidic protein [Source:HGNC Symbol;Acc:4235]

4251	ENSG00000228696	220.4272514	-0.98994258	0.20875932	9.31E-06	ARL17B	ADP-ribosylation factor-like 17B [Source:HGNC Symbol;Acc:32387]
4252	ENSG00000159459	897.4500628	-0.53159007	0.112112172	9.33E-06	UBR1	ubiquitin protein ligase E3 component n-recognin 1 [Source:HGNC Symbol;Acc:16808]
4253	ENSG00000183486	3682.387652	0.346326694	0.073048023	9.35E-06	MX2	myxovirus (influenza virus) resistance 2 (mouse) [Source:HGNC Symbol;Acc:7533]
4254	ENSG00000242227	8.979921715	-2.643861544	0.557770992	9.40E-06	HLA-L	major histocompatibility complex, class I, L (pseudogene) [Source:HGNC Symbol;Acc:4970]
4255	ENSG00000237719	88.90302783	-1.500090155	0.316496498	9.41E-06	RP1-179N16.3	
4256	ENSG00000114650	1889.404422	0.45973493	0.097016481	9.46E-06	SCAP	SREBF chaperone [Source:HGNC Symbol;Acc:30634]
4257	ENSG00000198336	107.9352098	-1.357098677	0.286488973	9.54E-06	MYL4	myosin, light chain 4, alkali; atrial, embryonic [Source:HGNC Symbol;Acc:7585]
4258	ENSG00000183726	3218.874492	0.368526491	0.077819159	9.60E-06	TMEM50A	transmembrane protein 50A [Source:HGNC Symbol;Acc:30590]
4259	ENSG00000187091	577.3830595	-0.62798228	0.13265546	9.68E-06	PLCD1	phospholipase C, delta 1 [Source:HGNC Symbol;Acc:9060]
4260	ENSG00000122008	666.83918	-0.627280635	0.132545604	9.74E-06	POLK	polymerase (DNA directed) kappa [Source:HGNC Symbol;Acc:9183]
4261	ENSG00000155961	136.5943385	1.293701463	0.273415301	9.78E-06	RAB39B	RAB39B, member RAS oncogene family [Source:HGNC Symbol;Acc:16499]
4262	ENSG00000128739	156.6091011	1.311733217	0.277242845	9.79E-06	SNRPN	small nuclear ribonucleoprotein polypeptide N [Source:HGNC Symbol;Acc:11164]
4263	ENSG00000105202	1509.74669	0.553230937	0.116945913	9.82E-06	FBL	fibrillarlin [Source:HGNC Symbol;Acc:3599]
4264	ENSG00000230143	477.3851699	-0.708374629	0.149781879	9.88E-06	FLOT1	flotillin 1 [Source:HGNC Symbol;Acc:3757]
4265	ENSG00000012983	559.2491645	0.690725564	0.146055822	9.89E-06	MAP4K5	mitogen-activated protein kinase kinase kinase kinase 5 [Source:HGNC Symbol;Acc:6867]
4266	ENSG00000162437	279.5820396	-0.862623664	0.182424874	9.91E-06	RAVER2	ribonucleoprotein, PTB-binding 2 [Source:HGNC Symbol;Acc:25577]
4267	ENSG00000165915	354.7551823	1.048843569	0.221830298	9.94E-06	SLC39A13	solute carrier family 39 (zinc transporter), member 13 [Source:HGNC Symbol;Acc:20859]
4268	ENSG00000162390	496.7800721	-0.723389847	0.153082653	1.01E-05	ACOT11	acyl-CoA thioesterase 11 [Source:HGNC Symbol;Acc:18156]
4269	ENSG00000138092	243.1806759	-0.991245549	0.209766822	1.01E-05	CENPO	centromere protein O [Source:HGNC Symbol;Acc:28152]
4270	ENSG00000100479	121.642877	-1.29685334	0.274530552	1.01E-05	POLE2	polymerase (DNA directed), epsilon 2, accessory subunit [Source:HGNC Symbol;Acc:9178]
4271	ENSG00000148572	2434.475974	0.373573538	0.079083296	1.01E-05	NRBF2	nuclear receptor binding factor 2 [Source:HGNC Symbol;Acc:19692]
4272	ENSG00000184678	3084.272039	-0.338675555	0.071703356	1.02E-05	HIST2H2BE	histone cluster 2, H2be [Source:HGNC Symbol;Acc:4760]
4273	ENSG00000155252	308.1736907	0.893155104	0.189117427	1.02E-05	PI4K2A	phosphatidylinositol 4-kinase type 2 alpha [Source:HGNC Symbol;Acc:30031]
4274	ENSG00000196678	215.7744576	-0.980810661	0.207690397	1.02E-05	ERI2	ERI1 exoribonuclease family member 2 [Source:HGNC Symbol;Acc:30541]
4275	ENSG00000074590	21.51865511	2.521880773	0.534107597	1.02E-05	NUAK1	NUAK family, SNF1-like kinase, 1 [Source:HGNC Symbol;Acc:14311]
4276	ENSG00000125149	814.7270101	-0.587494518	0.124441599	1.03E-05	C16orf70	chromosome 16 open reading frame 70 [Source:HGNC Symbol;Acc:29564]
4277	ENSG00000186792	98.26978995	-1.395231829	0.295617444	1.03E-05	HYAL3	hyaluronoglucosaminidase 3 [Source:HGNC Symbol;Acc:5322]
4278	ENSG00000152642	540.9656426	-0.68095492	0.144285739	1.03E-05	GPD1L	glycerol-3-phosphate dehydrogenase 1-like [Source:HGNC Symbol;Acc:28956]

4279	ENSG00000107882	339.3706131	0.813578069	0.172409644	1.04E-05	SUFU	suppressor of fused homolog (Drosophila) [Source:HGNC Symbol;Acc:16466]
4280	ENSG00000197111	11791.8397	0.248271646	0.052612807	1.04E-05	PCBP2	poly(rC) binding protein 2 [Source:HGNC Symbol;Acc:8648]
4281	ENSG00000131100	2662.159006	-0.345814346	0.073293101	1.04E-05	ATP6V1E1	ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E1 [Source:HGNC Symbol;Acc:857]
4282	ENSG00000107929	2391.365467	-0.369760545	0.078375323	1.04E-05	LARP4B	La ribonucleoprotein domain family, member 4B [Source:HGNC Symbol;Acc:28987]
4283	ENSG00000072062	3885.818749	-0.292807873	0.06206978	1.04E-05	PRKACA	protein kinase, cAMP-dependent, catalytic, alpha [Source:HGNC Symbol;Acc:9380]
4284	ENSG00000264719	3084.404137	-0.338398043	0.071738127	1.04E-05	HIST2H2BE	histone cluster 2, H2be [Source:HGNC Symbol;Acc:4760]
4285	ENSG00000139291	311.2080912	1.148707918	0.243677322	1.06E-05	TMEM19	transmembrane protein 19 [Source:HGNC Symbol;Acc:25605]
4286	ENSG00000133195	628.2747063	-0.729260552	0.154764354	1.07E-05	SLC39A11	solute carrier family 39, member 11 [Source:HGNC Symbol;Acc:14463]
4287	ENSG00000143727	856.8530477	0.539154441	0.114460483	1.08E-05	ACP1	acid phosphatase 1, soluble [Source:HGNC Symbol;Acc:122]
4288	ENSG00000125731	274.7305597	1.035089728	0.219813987	1.09E-05	SH2D3A	SH2 domain containing 3A [Source:HGNC Symbol;Acc:16885]
4289	ENSG00000125741	595.817829	-0.618712427	0.131394059	1.09E-05	OPA3	optic atrophy 3 (autosomal recessive, with chorea and spastic paraplegia) [Source:HGNC Symbol;Acc:8142]
4290	ENSG00000105656	1023.335931	0.598150052	0.127075678	1.10E-05	ELL	elongation factor RNA polymerase II [Source:HGNC Symbol;Acc:23114]
4291	ENSG00000004139	189.482814	1.084465218	0.230488493	1.11E-05	SARM1	sterile alpha and TIR motif containing 1 [Source:HGNC Symbol;Acc:17074]
4292	ENSG00000152580	13.47269639	-2.632032825	0.559455772	1.11E-05	IGSF10	immunoglobulin superfamily, member 10 [Source:HGNC Symbol;Acc:26384]
4293	ENSG00000100918	778.3490396	-0.610696822	0.129883538	1.12E-05	REC8	REC8 meiotic recombination protein [Source:HGNC Symbol;Acc:16879]
4294	ENSG00000145715	1525.329039	-0.455079214	0.096792605	1.13E-05	RASA1	RAS p21 protein activator (GTPase activating protein) 1 [Source:HGNC Symbol;Acc:9871]
4295	ENSG00000137040	856.9929815	0.533582049	0.113512331	1.13E-05	RANBP6	RAN binding protein 6 [Source:HGNC Symbol;Acc:9851]
4296	ENSG00000117525	45.71748676	-1.936107209	0.412104102	1.14E-05	F3	coagulation factor III (thromboplastin, tissue factor) [Source:HGNC Symbol;Acc:3541]
4297	ENSG00000242384	107.8266435	-1.601150067	0.340827343	1.15E-05	TBC1D3H	TBC1 domain family, member 3H [Source:HGNC Symbol;Acc:30708]
4298	ENSG00000126457	720.4130092	0.655924529	0.139642418	1.15E-05	PRMT1	protein arginine methyltransferase 1 [Source:HGNC Symbol;Acc:5187]
4299	ENSG00000170915	558.7942864	0.669107989	0.142469483	1.15E-05	PAQR8	progesterin and adipoQ receptor family member VIII [Source:HGNC Symbol;Acc:15708]
4300	ENSG00000168995	479.4871888	0.713943735	0.152058473	1.16E-05	SIGLEC7	sialic acid binding Ig-like lectin 7 [Source:HGNC Symbol;Acc:10876]
4301	ENSG00000181929	978.9244081	-0.498780225	0.106306538	1.18E-05	PRKAG1	protein kinase, AMP-activated, gamma 1 non-catalytic subunit [Source:HGNC Symbol;Acc:9385]
4302	ENSG00000126458	85.90898328	1.530053191	0.326187971	1.18E-05	RRAS	related RAS viral (r-ras) oncogene homolog [Source:HGNC Symbol;Acc:10447]
4303	ENSG00000161010	1196.612954	0.461150656	0.098315821	1.19E-05	C5orf45	chromosome 5 open reading frame 45 [Source:HGNC Symbol;Acc:30817]
4304	ENSG00000263156	2401.409329	-0.405050084	0.086360114	1.19E-05	GNAI2	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2 [Source:HGNC Symbol;Acc:4385]
4305	ENSG00000154957	485.3250514	0.726642558	0.154928609	1.19E-05	ZNF18	zinc finger protein 18 [Source:HGNC Symbol;Acc:12969]
4306	ENSG00000263175	18.80018348	2.533346141	0.540199422	1.19E-05	KIR2DL2	KIR2DL2 [Source:UniProtKB/TrEMBL;Acc:Q8N742]



4307	ENSG00000024862	836.3197647	0.543471961	0.115904084	1.19E-05	CCDC28A	coiled-coil domain containing 28A [Source:HGNC Symbol;Acc:21098]
4308	ENSG00000123685	74.52623099	-1.621368454	0.345794539	1.19E-05	BATF3	basic leucine zipper transcription factor, ATF-like 3 [Source:HGNC Symbol;Acc:28915]
4309	ENSG00000083168	3700.02578	0.32566673	0.069467388	1.20E-05	KAT6A	K(llysine) acetyltransferase 6A [Source:HGNC Symbol;Acc:13013]
4310	ENSG00000128536	71.01436025	1.637558325	0.349325074	1.20E-05	CDHR3	cadherin-related family member 3 [Source:HGNC Symbol;Acc:26308]
4311	ENSG00000117543	327.9546484	0.860801089	0.183652171	1.20E-05	DPH5	diphthamide biosynthesis 5 [Source:HGNC Symbol;Acc:24270]
4312	ENSG00000244165	102.1748845	1.559133533	0.332739183	1.21E-05	P2RY11	purinergic receptor P2Y, G-protein coupled, 11 [Source:HGNC Symbol;Acc:8540]
4313	ENSG00000134152	1412.22611	0.491794409	0.10496317	1.21E-05	KATNBL1	katanin p80 subunit B-like 1 [Source:HGNC Symbol;Acc:26199]
4314	ENSG00000140563	2190.410533	-0.416176191	0.088846261	1.22E-05	MCTP2	multiple C2 domains, transmembrane 2 [Source:HGNC Symbol;Acc:25636]
4315	ENSG00000160714	1917.478589	0.441171812	0.094211309	1.23E-05	UBE2Q1	ubiquitin-conjugating enzyme E2Q family member 1 [Source:HGNC Symbol;Acc:15698]
4316	ENSG00000134970	871.7020631	0.582757585	0.124493635	1.24E-05	TMED7	transmembrane emp24 protein transport domain containing 7 [Source:HGNC Symbol;Acc:24253]
4317	ENSG00000205758	713.2278567	-0.608362725	0.129974776	1.24E-05	CRYZL1	crystallin, zeta (quinone reductase)-like 1 [Source:HGNC Symbol;Acc:2420]
4318	ENSG00000188820	603.5703055	0.622860897	0.133162734	1.26E-05	FAM26F	family with sequence similarity 26, member F [Source:HGNC Symbol;Acc:33391]
4319	ENSG00000106701	236.5211018	-1.051913627	0.224925955	1.26E-05	FSD1L	fibronectin type III and SPRY domain containing 1-like [Source:HGNC Symbol;Acc:13753]
4320	ENSG00000188738	270.9994749	-0.879479657	0.188155191	1.28E-05	FSIP2	fibrous sheath interacting protein 2 [Source:HGNC Symbol;Acc:21675]
4321	ENSG00000225603	22.66039171	2.420724742	0.518174729	1.29E-05	RP11-325P15.1	
4322	ENSG00000147121	299.1573027	0.849294177	0.181815014	1.30E-05	KRBOX4	KRAB box domain containing 4 [Source:HGNC Symbol;Acc:26007]
4323	ENSG00000213077	78.77375116	-1.692386619	0.362498119	1.31E-05	FAM106A	family with sequence similarity 106, member A [Source:HGNC Symbol;Acc:25682]
4324	ENSG00000069431	241.4948303	-0.981638272	0.210319805	1.32E-05	ABCC9	ATP-binding cassette, sub-family C (CFTR/MRP), member 9 [Source:HGNC Symbol;Acc:60]
4325	ENSG00000197465	44.21508354	-2.095946829	0.449148492	1.33E-05	GYPE	glycophorin E (MNS blood group) [Source:HGNC Symbol;Acc:4705]
4326	ENSG00000146540	139.0408747	1.317692188	0.282376802	1.33E-05	C7orf50	chromosome 7 open reading frame 50 [Source:HGNC Symbol;Acc:22421]
4327	ENSG00000130779	2062.955345	-0.403525519	0.086482213	1.33E-05	CLIP1	CAP-GLY domain containing linker protein 1 [Source:HGNC Symbol;Acc:10461]
4328	ENSG00000159322	4421.683863	-0.288897325	0.061920166	1.33E-05	ADPGK	ADP-dependent glucokinase [Source:HGNC Symbol;Acc:25250]
4329	ENSG00000204577	3605.104989	0.310720964	0.06662298	1.34E-05	LILRB3	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3 [Source:HGNC Symbol;Acc:6607]
4330	ENSG00000117614	1681.057723	0.43185365	0.092596057	1.34E-05	SYF2	SYF2 pre-mRNA-splicing factor [Source:HGNC Symbol;Acc:19824]
4331	ENSG00000176095	1623.767981	0.474545413	0.101822266	1.36E-05	IP6K1	inositol hexakisphosphate kinase 1 [Source:HGNC Symbol;Acc:18360]
4332	ENSG00000168916	163.8564133	1.17347667	0.251801147	1.36E-05	ZNF608	zinc finger protein 608 [Source:HGNC Symbol;Acc:29238]
4333	ENSG00000185324	876.9353	0.590741982	0.126795677	1.37E-05	CDK10	cyclin-dependent kinase 10 [Source:HGNC Symbol;Acc:1770]
4334	ENSG00000167995	2559.199957	-0.361815765	0.07767824	1.38E-05	BEST1	bestrophin 1 [Source:HGNC Symbol;Acc:12703]

4335	ENSG00000137757	59.84393525	1.899086323	0.407840676	1.39E-05	CASP5	caspace 5, apoptosis-related cysteine peptidase [Source:HGNC Symbol;Acc:1506]
4336	ENSG00000135392	867.5068572	0.583638464	0.125399286	1.40E-05	DNAJC14	DnaJ (Hsp40) homolog, subfamily C, member 14 [Source:HGNC Symbol;Acc:24581]
4337	ENSG00000116350	2944.806654	-0.359311747	0.077200976	1.40E-05	SRSF4	serine/arginine-rich splicing factor 4 [Source:HGNC Symbol;Acc:10786]
4338	ENSG00000149289	147.7516115	-1.227433622	0.263762439	1.41E-05	ZC3H12C	zinc finger CCCH-type containing 12C [Source:HGNC Symbol;Acc:29362]
4339	ENSG00000211699	44.0040867	2.085448114	0.448168196	1.41E-05	TRGV3	T cell receptor gamma variable 3 [Source:HGNC Symbol;Acc:12288]
4340	ENSG00000163009	67.56123594	-1.629634406	0.35021693	1.41E-05	C2orf48	chromosome 2 open reading frame 48 [Source:HGNC Symbol;Acc:26322]
4341	ENSG00000092108	857.0949238	-0.601161173	0.12919504	1.41E-05	SCFD1	sec1 family domain containing 1 [Source:HGNC Symbol;Acc:20726]
4342	ENSG00000106105	1018.192839	-0.477869402	0.10273938	1.42E-05	GARS	glycyl-tRNA synthetase [Source:HGNC Symbol;Acc:4162]
4343	ENSG00000170653	1472.21122	-0.438590132	0.094303387	1.42E-05	ATF7	activating transcription factor 7 [Source:HGNC Symbol;Acc:792]
4344	ENSG00000137310	256.6182315	-0.904129346	0.194426207	1.43E-05	TCF19	transcription factor 19 [Source:HGNC Symbol;Acc:11629]
4345	ENSG00000184381	625.7219928	0.642860137	0.138329198	1.45E-05	PLA2G6	phospholipase A2, group VI (cytosolic, calcium-independent) [Source:HGNC Symbol;Acc:9039]
4346	ENSG00000162144	1079.307007	0.478365451	0.102980056	1.46E-05	CYB561A3	cytochrome b561 family, member A3 [Source:HGNC Symbol;Acc:23014]
4347	ENSG00000214265	54.96659866	1.860784221	0.40064641	1.47E-05	SNURF	SNRPN upstream reading frame [Source:HGNC Symbol;Acc:11171]
4348	ENSG00000197119	779.2791511	0.620657071	0.133640711	1.47E-05	SLC25A29	solute carrier family 25 (mitochondrial carnitine/acylcarnitine carrier), member 29 [Source:HGNC Symbol;Acc:20116]
4349	ENSG00000084090	1941.400181	0.394588304	0.084965112	1.47E-05	STARD7	StAR-related lipid transfer (START) domain containing 7 [Source:HGNC Symbol;Acc:18063]
4350	ENSG00000168421	822.7217968	0.547328879	0.117901762	1.48E-05	RHOH	ras homolog family member H [Source:HGNC Symbol;Acc:686]
4351	ENSG00000263513	22.31012804	-2.461965637	0.530424897	1.49E-05	FAM72C	Homo sapiens family with sequence similarity 72, member C (FAM72C), mRNA. [Source:RefSeq mRNA;Acc:NM_001287385]
4352	ENSG00000011201	121.1584271	-1.283791916	0.276626278	1.49E-05	KAL1	Kallmann syndrome 1 sequence [Source:HGNC Symbol;Acc:6211]
4353	ENSG00000262739	10.85420662	2.623534792	0.565448333	1.50E-05	PRSS2	protease, serine, 2 (trypsin 2) [Source:HGNC Symbol;Acc:9483]
4354	ENSG00000077782	154.7467406	-1.235955407	0.26640692	1.50E-05	FGFR1	fibroblast growth factor receptor 1 [Source:HGNC Symbol;Acc:3688]
4355	ENSG00000135316	2158.45792	0.396742385	0.085534424	1.51E-05	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting protein [Source:HGNC Symbol;Acc:16918]
4356	ENSG00000269007	75.0729337	1.65542888	0.356939106	1.51E-05	LAGE3	L antigen family member 3 [Source:UniProtKB/TrEMBL;Acc:B0S8I7]
4357	ENSG00000253276	244.0533129	0.934050211	0.201409915	1.51E-05	CCDC71L	coiled-coil domain containing 71-like [Source:HGNC Symbol;Acc:26685]
4358	ENSG00000126759	5291.890192	-0.362107874	0.078097182	1.52E-05	CFP	complement factor properdin [Source:HGNC Symbol;Acc:8864]
4359	ENSG00000126777	2077.27195	0.382350179	0.082463187	1.52E-05	KTN1	kinectin 1 (kinesin receptor) [Source:HGNC Symbol;Acc:6467]
4360	ENSG00000172432	2152.585277	-0.373944448	0.080658789	1.52E-05	GTPBP2	GTP binding protein 2 [Source:HGNC Symbol;Acc:4670]
4361	ENSG00000179387	723.2040804	-0.567641427	0.122443941	1.52E-05	ELMOD2	ELMO/CED-12 domain containing 2 [Source:HGNC Symbol;Acc:28111]
4362	ENSG00000141040	53.80811652	1.937511928	0.418038717	1.53E-05	ZNF287	zinc finger protein 287 [Source:HGNC Symbol;Acc:13502]

4363	ENSG00000047056	1601.578377	-0.411911721	0.088878433	1.53E-05	WDR37	WD repeat domain 37 [Source:HGNC Symbol;Acc:31406]
4364	ENSG00000240342	238.094174	1.194317244	0.257730442	1.54E-05	RPS2P5	ribosomal protein S2 pseudogene 5 [Source:HGNC Symbol;Acc:31386]
4365	ENSG00000166343	249.7863558	-0.989581649	0.213553738	1.54E-05	MSS51	MSS51 mitochondrial translational activator [Source:HGNC Symbol;Acc:21000]
4366	ENSG00000136982	80.01891499	-1.511112288	0.326120313	1.54E-05	DSCC1	DNA replication and sister chromatid cohesion 1 [Source:HGNC Symbol;Acc:24453]
4367	ENSG00000048052	195.7055587	1.071154047	0.231209818	1.55E-05	HDAC9	histone deacetylase 9 [Source:HGNC Symbol;Acc:14065]
4368	ENSG00000198804	277466.6293	-0.212548551	0.045892163	1.56E-05	MT-CO1	mitochondrially encoded cytochrome c oxidase I [Source:HGNC Symbol;Acc:7419]
4369	ENSG00000129473	505.5281757	-0.667392495	0.144116252	1.56E-05	BCL2L2	BCL2-like 2 [Source:HGNC Symbol;Acc:995]
4370	ENSG00000055070	2155.063136	0.370638453	0.080064677	1.57E-05	SZR1	SUZ RNA binding domain containing 1 [Source:HGNC Symbol;Acc:30232]
4371	ENSG00000172037	113.0329484	1.323191192	0.285886459	1.58E-05	LAMB2	laminin, beta 2 (laminin 5) [Source:HGNC Symbol;Acc:6487]
4372	ENSG00000132768	276.8829861	0.868730999	0.187763047	1.59E-05	DPH2	DPH2 homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:3004]
4373	ENSG00000110958	3348.118352	0.312395215	0.067534115	1.60E-05	PTGES3	prostaglandin E synthase 3 (cytosolic) [Source:HGNC Symbol;Acc:16049]
4374	ENSG00000101333	35.42450353	2.19844688	0.475431892	1.61E-05	PLCB4	phospholipase C, beta 4 [Source:HGNC Symbol;Acc:9059]
4375	ENSG00000149499	1563.656416	0.410280803	0.088746813	1.62E-05	EML3	echinoderm microtubule associated protein like 3 [Source:HGNC Symbol;Acc:26666]
4376	ENSG00000117682	523.9800896	-0.671364388	0.145221575	1.62E-05	DHDDS	dehydrodolichyl diphosphate synthase [Source:HGNC Symbol;Acc:20603]
4377	ENSG00000266845	22.17512191	2.403336618	0.519876255	1.62E-05	RP11-325P15.1	
4378	ENSG00000203691	88.65906647	-1.475206035	0.319110682	1.62E-05	AC092811.1	
4379	ENSG00000234511	225.3296345	-0.992147134	0.214638433	1.62E-05	C5orf58	chromosome 5 open reading frame 58 [Source:HGNC Symbol;Acc:37272]
4380	ENSG00000109099	38.92977839	-1.986583053	0.429813421	1.62E-05	PMP22	peripheral myelin protein 22 [Source:HGNC Symbol;Acc:9118]
4381	ENSG00000101846	84.12977554	1.514514798	0.327783994	1.64E-05	STS	steroid sulfatase (microsomal), isozyme S [Source:HGNC Symbol;Acc:11425]
4382	ENSG00000075292	3846.992688	-0.330630452	0.071563394	1.64E-05	ZNF638	zinc finger protein 638 [Source:HGNC Symbol;Acc:17894]
4383	ENSG00000120686	1298.694463	0.435256449	0.094212208	1.64E-05	UFM1	ubiquitin-fold modifier 1 [Source:HGNC Symbol;Acc:20597]
4384	ENSG00000173273	1011.685197	-0.639533598	0.138431138	1.64E-05	TNKS	tankyrase, TRF1-interacting ankyrin-related ADP-ribose polymerase [Source:HGNC Symbol;Acc:11941]
4385	ENSG00000104154	138.5951292	1.621340976	0.350974286	1.64E-05	SLC30A4	solute carrier family 30 (zinc transporter), member 4 [Source:HGNC Symbol;Acc:11015]
4386	ENSG00000204650	245.2006215	0.925788828	0.200429448	1.65E-05	CRHR1-IT1	CRHR1 intronic transcript 1 (non-protein coding) [Source:HGNC Symbol;Acc:26327]
4387	ENSG00000142303	67.82669881	1.820083281	0.394111911	1.65E-05	ADAMTS10	ADAM metalloproteinase with thrombospondin type 1 motif, 10 [Source:HGNC Symbol;Acc:13201]
4388	ENSG00000008130	15310.80106	-0.319591136	0.069229083	1.66E-05	NADK	NAD kinase [Source:HGNC Symbol;Acc:29831]
4389	ENSG00000029363	5550.600442	0.349599139	0.07574503	1.67E-05	BCLAF1	BCL2-associated transcription factor 1 [Source:HGNC Symbol;Acc:16863]
4390	ENSG00000147548	4335.798671	-0.282516345	0.061210898	1.67E-05	WHSC1L1	Wolf-Hirschhorn syndrome candidate 1-like 1 [Source:HGNC Symbol;Acc:12767]

4391	ENSG00000103148	392.819653	0.792734746	0.171784174	1.68E-05	NPRL3	nitrogen permease regulator-like 3 ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:14124]
4392	ENSG00000148814	194.5508636	1.368580034	0.296583034	1.68E-05	LRRC27	leucine rich repeat containing 27 [Source:HGNC Symbol;Acc:29346]
4393	ENSG00000173212	209.0159941	-0.999510767	0.216614512	1.68E-05	MAB21L3	mab-21-like 3 ( <i>C. elegans</i> ) [Source:HGNC Symbol;Acc:26787]
4394	ENSG00000135723	1258.094276	-0.493427776	0.106980098	1.70E-05	FHOD1	formin homology 2 domain containing 1 [Source:HGNC Symbol;Acc:17905]
4395	ENSG00000140092	78.77618804	1.608095872	0.348667365	1.70E-05	FBLN5	fibulin 5 [Source:HGNC Symbol;Acc:3602]
4396	ENSG00000196172	119.8067237	1.394194225	0.302290998	1.70E-05	ZNF681	zinc finger protein 681 [Source:HGNC Symbol;Acc:26457]
4397	ENSG00000177971	437.0293163	0.737418272	0.159973417	1.72E-05	IMP3	IMP3, U3 small nucleolar ribonucleoprotein, homolog (yeast) [Source:HGNC Symbol;Acc:14497]
4398	ENSG00000165244	204.0699019	-1.047114077	0.227205894	1.72E-05	ZNF367	zinc finger protein 367 [Source:HGNC Symbol;Acc:18320]
4399	ENSG00000148019	978.4035527	0.547534536	0.118816462	1.73E-05	CEP78	centrosomal protein 78kDa [Source:HGNC Symbol;Acc:25740]
4400	ENSG00000260873	612.6489867	-0.81826628	0.177578925	1.73E-05	SNTB2	syntrophin, beta 2 (dystrophin-associated protein A1, 59kDa, basic component 2) [Source:HGNC Symbol;Acc:11169]
4401	ENSG00000204869	90.00840086	-1.472328368	0.319556681	1.73E-05	IGFL4	IGF-like family member 4 [Source:HGNC Symbol;Acc:32931]
4402	ENSG00000266334	1069.679032	0.478479531	0.103863308	1.74E-05	APH1A	APH1A gamma secretase subunit [Source:HGNC Symbol;Acc:29509]
4403	ENSG00000196312	116.7240469	-1.376665833	0.298942633	1.75E-05	HIATL2	hippocampus abundant transcript-like 2 [Source:HGNC Symbol;Acc:23672]
4404	ENSG00000128203	110.3729803	1.32632939	0.28809941	1.76E-05	ASPHD2	aspartate beta-hydroxylase domain containing 2 [Source:HGNC Symbol;Acc:30437]
4405	ENSG00000136536	5227.065499	-0.330605722	0.071827412	1.77E-05	MARCH7	membrane-associated ring finger (C3HC4) 7, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:17393]
4406	ENSG00000130653	95.95022052	1.482669082	0.322198341	1.78E-05	PNPLA7	patatin-like phospholipase domain containing 7 [Source:HGNC Symbol;Acc:24768]
4407	ENSG00000264639	32.49637227	2.367463317	0.514756125	1.80E-05	NBPF13P	neuroblastoma breakpoint family, member 13, pseudogene [Source:HGNC Symbol;Acc:31995]
4408	ENSG00000108100	2430.130718	0.508801675	0.11063928	1.80E-05	CCNY	cyclin Y [Source:HGNC Symbol;Acc:23354]
4409	ENSG00000259825	37.35013634	2.117960548	0.460585671	1.81E-05	TRBV4-3	T cell receptor beta variable 4-3 [Source:HGNC Symbol;Acc:12217]
4410	ENSG00000171456	2241.029117	0.39874198	0.086721834	1.81E-05	ASXL1	additional sex combs like 1 ( <i>Drosophila</i> ) [Source:HGNC Symbol;Acc:18318]
4411	ENSG00000117362	1069.86326	0.477510437	0.103853413	1.81E-05	APH1A	APH1A gamma secretase subunit [Source:HGNC Symbol;Acc:29509]
4412	ENSG00000131188	66.69179624	-1.672125332	0.36381801	1.83E-05	PRR7	proline rich 7 (synaptic) [Source:HGNC Symbol;Acc:28130]
4413	ENSG00000255319	48.26981282	-1.89269217	0.412196349	1.86E-05	ENPP7P8	ectonucleotide pyrophosphatase/phosphodiesterase 7 pseudogene 8 [Source:HGNC Symbol;Acc:48691]
4414	ENSG00000241468	1420.902533	-0.412280292	0.089793034	1.87E-05	ATP5J2	ATP synthase, H <sup>+</sup> transporting, mitochondrial Fo complex, subunit F2 [Source:HGNC Symbol;Acc:848]
4415	ENSG00000112118	1436.967343	-0.422835569	0.092107338	1.87E-05	MCM3	minichromosome maintenance complex component 3 [Source:HGNC Symbol;Acc:6945]
4416	ENSG00000165209	493.9135598	0.730905805	0.15921853	1.87E-05	STRBP	spermatid perinuclear RNA binding protein [Source:HGNC Symbol;Acc:16462]
4417	ENSG00000205268	3168.901789	0.322633472	0.070312688	1.89E-05	PDE7A	phosphodiesterase 7A [Source:HGNC Symbol;Acc:8791]
4418	ENSG00000110583	730.3299838	0.60811538	0.132541485	1.89E-05	NAA40	N(alpha)-acetyltransferase 40, NatD catalytic subunit [Source:HGNC Symbol;Acc:25845]

4419	ENSG00000126756	951.4574691	0.487099494	0.106170507	1.90E-05	UXT	ubiquitously-expressed, prefoldin-like chaperone [Source:HGNC Symbol;Acc:12641]
4420	ENSG00000135108	324.1300213	1.07002048	0.233261039	1.90E-05	FBXO21	F-box protein 21 [Source:HGNC Symbol;Acc:13592]
4421	ENSG00000182463	105.917559	1.597084375	0.348289196	1.92E-05	TSHZ2	teashirt zinc finger homeobox 2 [Source:HGNC Symbol;Acc:13010]
4422	ENSG00000136718	496.2051539	0.670506558	0.146259732	1.93E-05	IMP4	IMP4, U3 small nucleolar ribonucleoprotein, homolog (yeast) [Source:HGNC Symbol;Acc:30856]
4423	ENSG00000127483	6239.117488	-0.264766291	0.057766227	1.94E-05	HP1BP3	heterochromatin protein 1, binding protein 3 [Source:HGNC Symbol;Acc:24973]
4424	ENSG00000105568	1999.21787	0.384945034	0.083987246	1.94E-05	PPP2R1A	protein phosphatase 2, regulatory subunit A, alpha [Source:HGNC Symbol;Acc:9302]
4425	ENSG00000100629	126.6051076	-1.418421667	0.309832806	1.99E-05	CEP128	centrosomal protein 128kDa [Source:HGNC Symbol;Acc:20359]
4426	ENSG00000112367	899.9488655	-0.510907101	0.111601348	1.99E-05	FIG4	FIG4 homolog, SAC1 lipid phosphatase domain containing ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:16873]
4427	ENSG00000146063	1530.265621	-0.42094559	0.091962865	1.99E-05	TRIM41	tripartite motif containing 41 [Source:HGNC Symbol;Acc:19013]
4428	ENSG00000258256	69.12855167	-1.563185383	0.341582317	2.00E-05	RP11-219B4.5	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:F8VYV3]
4429	ENSG00000100883	1145.625315	-0.495055969	0.108191393	2.01E-05	SRP54	signal recognition particle 54kDa [Source:HGNC Symbol;Acc:11301]
4430	ENSG00000072518	2784.715203	-0.348959002	0.076271628	2.01E-05	MARK2	MAP/microtubule affinity-regulating kinase 2 [Source:HGNC Symbol;Acc:3332]
4431	ENSG00000038382	430.2674096	0.988573513	0.216073127	2.01E-05	TRIO	trio Rho guanine nucleotide exchange factor [Source:HGNC Symbol;Acc:12303]
4432	ENSG00000128394	193.5052627	1.146095945	0.25053667	2.01E-05	APOBEC3F	apolipoprotein B mRNA editing enzyme, catalytic polypeptide-like 3F [Source:HGNC Symbol;Acc:17356]
4433	ENSG00000166012	2440.113111	0.398280313	0.087064369	2.01E-05	TAF1D	TATA box binding protein (TBP)-associated factor, RNA polymerase I, D, 41kDa [Source:HGNC Symbol;Acc:28759]
4434	ENSG00000214357	73.27545756	1.577598757	0.344902449	2.02E-05	NEURL1B	neuralized E3 ubiquitin protein ligase 1B [Source:HGNC Symbol;Acc:35422]
4435	ENSG00000120158	241.6744975	-0.972859456	0.212703378	2.02E-05	RCL1	RNA terminal phosphate cyclase-like 1 [Source:HGNC Symbol;Acc:17687]
4436	ENSG00000164659	61.07082839	1.779505936	0.38922508	2.04E-05	KIAA1324L	KIAA1324-like [Source:HGNC Symbol;Acc:21945]
4437	ENSG00000133243	737.9103769	0.748908128	0.163810571	2.04E-05	BTBD2	BTB (POZ) domain containing 2 [Source:HGNC Symbol;Acc:15504]
4438	ENSG00000206579	72.08374935	1.712167615	0.374507965	2.04E-05	XKR4	XK, Kell blood group complex subunit-related family, member 4 [Source:HGNC Symbol;Acc:29394]
4439	ENSG00000186648	49.305898	1.945206685	0.425649852	2.06E-05	LRRC16B	leucine rich repeat containing 16B [Source:HGNC Symbol;Acc:20272]
4440	ENSG00000145725	1930.869797	-0.440446731	0.096384391	2.06E-05	PIIP5K2	diphosphoinositol pentakisphosphate kinase 2 [Source:HGNC Symbol;Acc:29035]
4441	ENSG00000106261	2195.295687	0.413209415	0.090425623	2.06E-05	ZKSCAN1	zinc finger with KRAB and SCAN domains 1 [Source:HGNC Symbol;Acc:13101]
4442	ENSG00000164385	20.12977475	-2.412349625	0.528151459	2.08E-05	C6orf195	chromosome 6 open reading frame 195 [Source:HGNC Symbol;Acc:21600]
4443	ENSG00000174231	5794.590408	0.326406704	0.071463113	2.08E-05	PRPF8	pre-mRNA processing factor 8 [Source:HGNC Symbol;Acc:17340]
4444	ENSG00000211802	34.93260848	2.191608583	0.479858233	2.08E-05	TRAV22	T cell receptor alpha variable 22 [Source:HGNC Symbol;Acc:12119]
4445	ENSG00000168564	588.7801213	0.633975233	0.13882093	2.08E-05	CDKN2AIP	CDKN2A interacting protein [Source:HGNC Symbol;Acc:24325]
4446	ENSG00000267368	926.6961476	0.607790348	0.133121276	2.10E-05	UPK3BL	uropodin 3B-like [Source:HGNC Symbol;Acc:37278]

4447	ENSG00000236287	2029.000982	0.385218471	0.084372598	2.10E-05	ZBED5	zinc finger, BED-type containing 5 [Source:HGNC Symbol;Acc:30803]
4448	ENSG00000079215	45.1457493	-1.937972159	0.424477896	2.10E-05	SLC1A3	solute carrier family 1 (glial high affinity glutamate transporter), member 3 [Source:HGNC Symbol;Acc:10941]
4449	ENSG00000160049	495.3536202	0.692558713	0.151711396	2.10E-05	DFFA	DNA fragmentation factor, 45kDa, alpha polypeptide [Source:HGNC Symbol;Acc:2772]
4450	ENSG00000038219	6319.797699	-0.312174426	0.068388977	2.10E-05	BOD1L1	bioorientation of chromosomes in cell division 1-like 1 [Source:HGNC Symbol;Acc:31792]
4451	ENSG00000168159	767.1558804	0.567288039	0.124293232	2.11E-05	RNF187	ring finger protein 187 [Source:HGNC Symbol;Acc:27146]
4452	ENSG00000089335	610.5218358	0.660488339	0.144715642	2.11E-05	ZNF302	zinc finger protein 302 [Source:HGNC Symbol;Acc:13848]
4453	ENSG00000135469	218.5515537	1.007560688	0.220837204	2.12E-05	COQ10A	coenzyme Q10 homolog A (S. cerevisiae) [Source:HGNC Symbol;Acc:26515]
4454	ENSG00000117394	713.5488206	0.644507707	0.141327926	2.15E-05	SLC2A1	solute carrier family 2 (facilitated glucose transporter), member 1 [Source:HGNC Symbol;Acc:11005]
4455	ENSG00000158156	1329.751183	0.453655014	0.09954148	2.18E-05	XKR8	XK, Kell blood group complex subunit-related family, member 8 [Source:HGNC Symbol;Acc:25508]
4456	ENSG00000186017	178.0924258	1.136000618	0.249269372	2.18E-05	ZNF566	zinc finger protein 566 [Source:HGNC Symbol;Acc:25919]
4457	ENSG00000188554	3328.283748	0.337270512	0.074029717	2.19E-05	NBR1	neighbor of BRCA1 gene 1 [Source:HGNC Symbol;Acc:6746]
4458	ENSG00000235173	163.0128759	1.211504646	0.266006603	2.21E-05	FAM203A	family with sequence similarity 203, member A [Source:HGNC Symbol;Acc:24161]
4459	ENSG00000123983	812.8987628	-0.530486528	0.116487278	2.21E-05	ACSL3	acyl-CoA synthetase long-chain family member 3 [Source:HGNC Symbol;Acc:3570]
4460	ENSG00000113141	3194.91516	0.346873886	0.076179907	2.22E-05	IK	IK cytokine, down-regulator of HLA II [Source:HGNC Symbol;Acc:5958]
4461	ENSG00000051128	232.0439928	-0.968513796	0.212708297	2.22E-05	HOMER3	homer homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:17514]
4462	ENSG00000270670	22.17609248	2.352051549	0.516577701	2.22E-05	RP11-248C1.3	
4463	ENSG00000100439	849.7437538	0.703346939	0.154477743	2.22E-05	ABHD4	abhydrolase domain containing 4 [Source:HGNC Symbol;Acc:20154]
4464	ENSG00000261601	30.86069525	2.243442494	0.492763213	2.22E-05	TRBV10-3	T cell receptor beta variable 10-3 [Source:HGNC Symbol;Acc:12179]
4465	ENSG00000100296	944.3233566	0.534417673	0.117410636	2.23E-05	THOC5	THO complex 5 [Source:HGNC Symbol;Acc:19074]
4466	ENSG00000120708	934.3542033	0.600745887	0.132006368	2.24E-05	TGFBI	transforming growth factor, beta-induced, 68kDa [Source:HGNC Symbol;Acc:11771]
4467	ENSG00000182809	27.3429565	2.292427723	0.503788105	2.24E-05	CRIP2	cysteine-rich protein 2 [Source:HGNC Symbol;Acc:2361]
4468	ENSG00000136238	5623.282394	0.261115168	0.057383781	2.24E-05	RAC1	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1) [Source:HGNC Symbol;Acc:9801]
4469	ENSG00000149633	39.8753769	-1.951606856	0.428927345	2.25E-05	KIAA1755	KIAA1755 [Source:HGNC Symbol;Acc:29372]
4470	ENSG00000164970	812.3892479	-0.533601898	0.117294511	2.25E-05	FAM219A	family with sequence similarity 219, member A [Source:HGNC Symbol;Acc:19920]
4471	ENSG00000179837	988.5214908	1.217637005	0.267691609	2.26E-05	RBM15B	RNA binding motif protein 15B [Source:HGNC Symbol;Acc:24303]
4472	ENSG00000087086	58184.31159	0.205357037	0.045151859	2.26E-05	FTL	ferritin, light polypeptide [Source:HGNC Symbol;Acc:3999]
4473	ENSG00000198917	701.6167784	0.605037378	0.133056118	2.27E-05	C9orf114	chromosome 9 open reading frame 114 [Source:HGNC Symbol;Acc:26933]
4474	ENSG00000268489	1817.522927	0.380848232	0.083756645	2.28E-05	RBM3	RNA binding motif (RNP1, RRM) protein 3 [Source:HGNC Symbol;Acc:9900]

4475	ENSG00000169660	587.7977113	0.650562786	0.143076315	2.28E-05	HEXDC	hexosaminidase (glycosyl hydrolase family 20, catalytic domain) containing [Source:HGNC Symbol;Acc:26307]
4476	ENSG00000090661	434.4942353	0.754470478	0.165941366	2.28E-05	CERS4	ceramide synthase 4 [Source:HGNC Symbol;Acc:23747]
4477	ENSG00000068697	1645.099057	0.394024778	0.086679132	2.29E-05	LAPTM4A	lysosomal protein transmembrane 4 alpha [Source:HGNC Symbol;Acc:6924]
4478	ENSG00000226182	1493.145268	0.455859753	0.100331952	2.31E-05	LST1	leukocyte specific transcript 1 [Source:HGNC Symbol;Acc:14189]
4479	ENSG00000102317	1817.339456	0.380547408	0.083765961	2.32E-05	RBM3	RNA binding motif (RNP1, RRM) protein 3 [Source:HGNC Symbol;Acc:9900]
4480	ENSG00000271572	826.7040983	0.536045569	0.118004107	2.32E-05	RPS9	ribosomal protein S9 [Source:HGNC Symbol;Acc:10442]
4481	ENSG00000197847	138.3931593	-1.264616765	0.278540545	2.35E-05	SLC22A20	solute carrier family 22, member 20 [Source:HGNC Symbol;Acc:29867]
4482	ENSG00000198795	24.80138814	-2.405012764	0.529871053	2.36E-05	ZNF521	zinc finger protein 521 [Source:HGNC Symbol;Acc:24605]
4483	ENSG00000213614	1899.174421	-0.373427877	0.082282899	2.37E-05	HEXA	hexosaminidase A (alpha polypeptide) [Source:HGNC Symbol;Acc:4878]
4484	ENSG00000132388	1426.762387	0.442945951	0.097601981	2.37E-05	UBE2G1	ubiquitin-conjugating enzyme E2G 1 [Source:HGNC Symbol;Acc:12482]
4485	ENSG00000126368	113.8748808	1.34663886	0.296736573	2.37E-05	NR1D1	nuclear receptor subfamily 1, group D, member 1 [Source:HGNC Symbol;Acc:7962]
4486	ENSG00000175711	863.3156468	0.579620635	0.127737383	2.37E-05	B3GNTL1	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase-like 1 [Source:HGNC Symbol;Acc:21727]
4487	ENSG00000128340	10765.6626	-0.671578622	0.148034056	2.38E-05	RAC2	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2) [Source:HGNC Symbol;Acc:9802]
4488	ENSG00000169891	1893.761943	-0.455007872	0.100327096	2.40E-05	REPS2	RALBP1 associated Eps domain containing 2 [Source:HGNC Symbol;Acc:9963]
4489	ENSG00000128578	69.47295537	-1.617746262	0.356784506	2.41E-05	STRIP2	striatin interacting protein 2 [Source:HGNC Symbol;Acc:22209]
4490	ENSG00000106852	9.818015284	2.554864639	0.563505469	2.41E-05	LHX6	LIM homeobox 6 [Source:HGNC Symbol;Acc:21735]
4491	ENSG00000131969	879.09042	-0.540836706	0.119321627	2.43E-05	ABHD12B	abhydrolase domain containing 12B [Source:HGNC Symbol;Acc:19837]
4492	ENSG00000196636	238.7782692	-1.053699116	0.232473569	2.43E-05	ACN9	ACN9 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:21752]
4493	ENSG00000109113	215.5433541	0.992769111	0.219098095	2.44E-05	RAB34	RAB34, member RAS oncogene family [Source:HGNC Symbol;Acc:16519]
4494	ENSG00000153234	246.8882618	-0.873975306	0.192891323	2.45E-05	NR4A2	nuclear receptor subfamily 4, group A, member 2 [Source:HGNC Symbol;Acc:7981]
4495	ENSG00000111424	506.8763269	-0.671440371	0.148202776	2.45E-05	VDR	vitamin D (1,25- dihydroxyvitamin D3) receptor [Source:HGNC Symbol;Acc:12679]
4496	ENSG00000272325	5573.040549	-0.27148034	0.059940761	2.47E-05	NUDT3	nudix (nucleoside diphosphate linked moiety X)-type motif 3 [Source:HGNC Symbol;Acc:8050]
4497	ENSG00000124222	6283.84709	-0.257028205	0.056766092	2.48E-05	STX16	syntaxin 16 [Source:HGNC Symbol;Acc:11431]
4498	ENSG00000262024	794.9817065	0.538431222	0.118922233	2.48E-05	TCF20	transcription factor 20 (AR1) [Source:HGNC Symbol;Acc:11631]
4499	ENSG00000172663	264.2105382	1.046324574	0.23126584	2.52E-05	TMEM134	transmembrane protein 134 [Source:HGNC Symbol;Acc:26142]
4500	ENSG00000181704	752.6190961	-0.568141137	0.125578852	2.52E-05	YIPF6	Yip1 domain family, member 6 [Source:HGNC Symbol;Acc:28304]
4501	ENSG00000198894	404.9184961	0.801259627	0.17712871	2.53E-05	CIPC	CLOCK-interacting pacemaker [Source:HGNC Symbol;Acc:20365]
4502	ENSG00000174469	60.16495993	1.724127395	0.381188775	2.53E-05	CNTNAP2	contactin associated protein-like 2 [Source:HGNC Symbol;Acc:13830]

4503	ENSG00000165672	1401.928375	-0.432083859	0.095547553	2.54E-05	PRDX3	peroxiredoxin 3 [Source:HGNC Symbol;Acc:9354]
4504	ENSG00000107140	371.9217188	0.807526116	0.178658016	2.57E-05	TESK1	testis-specific kinase 1 [Source:HGNC Symbol;Acc:11731]
4505	ENSG00000093000	4978.774922	-0.305400898	0.067567517	2.57E-05	NUP50	nucleoporin 50kDa [Source:HGNC Symbol;Acc:8065]
4506	ENSG00000263062	2200.497227	0.417156395	0.092326263	2.59E-05	NAIP	NLR family, apoptosis inhibitory protein [Source:HGNC Symbol;Acc:7634]
4507	ENSG00000168904	403.2502681	-0.719297085	0.159224564	2.60E-05	LRRC28	leucine rich repeat containing 28 [Source:HGNC Symbol;Acc:28355]
4508	ENSG00000211794	36.57905725	2.103394293	0.465826966	2.62E-05	TRAV12-3	T cell receptor alpha variable 12-3 [Source:HGNC Symbol;Acc:12107]
4509	ENSG00000213934	158.0085727	1.078572161	0.238884139	2.63E-05	HGB1	hemoglobin, gamma A [Source:HGNC Symbol;Acc:4831]
4510	ENSG00000173992	621.7977451	0.641349479	0.14206201	2.63E-05	CCS	copper chaperone for superoxide dismutase [Source:HGNC Symbol;Acc:1613]
4511	ENSG00000100207	794.9737269	0.536484657	0.118835737	2.63E-05	TCF20	transcription factor 20 (AR1) [Source:HGNC Symbol;Acc:11631]
4512	ENSG00000234536	201.2465145	-1.002566215	0.222112009	2.64E-05	AC096582.7	
4513	ENSG00000138668	6103.227394	-0.288634359	0.063946045	2.64E-05	HNRNPD	heterogeneous nuclear ribonucleoprotein D (AU-rich element RNA binding protein 1, 37kDa) [Source:HGNC Symbol;Acc:5036]
4514	ENSG00000163479	3633.782249	0.294149743	0.065174905	2.65E-05	SSR2	signal sequence receptor, beta (translocon-associated protein beta) [Source:HGNC Symbol;Acc:11324]
4515	ENSG00000126790	156.8126336	1.186684147	0.263023072	2.67E-05	L3HYPDH	L-3-hydroxyproline dehydratase (trans-) [Source:HGNC Symbol;Acc:20488]
4516	ENSG00000001167	1582.234776	-0.400841239	0.088871664	2.68E-05	NFYA	nuclear transcription factor Y, alpha [Source:HGNC Symbol;Acc:7804]
4517	ENSG00000181894	255.7523866	0.922152892	0.204469469	2.69E-05	ZNF329	zinc finger protein 329 [Source:HGNC Symbol;Acc:14209]
4518	ENSG00000143442	2983.668151	-0.404955115	0.089793754	2.69E-05	POGZ	pogo transposable element with ZNF domain [Source:HGNC Symbol;Acc:18801]
4519	ENSG00000253293	22.14811271	-2.314098029	0.513273726	2.70E-05	HOXA10	homeobox A10 [Source:HGNC Symbol;Acc:5100]
4520	ENSG00000111647	1081.952548	-0.467924194	0.103788345	2.70E-05	UHRF1BP1L	UHRF1 binding protein 1-like [Source:HGNC Symbol;Acc:29102]
4521	ENSG00000268151	50.7298456	1.884751361	0.418341587	2.74E-05	ARMCX2	armadillo repeat containing, X-linked 2 [Source:HGNC Symbol;Acc:16869]
4522	ENSG00000119326	152.2339809	-1.155804614	0.256560748	2.75E-05	CTNNA1	catenin (cadherin-associated protein), alpha-like 1 [Source:HGNC Symbol;Acc:2512]
4523	ENSG00000198554	196.7987585	-1.035426241	0.229868144	2.75E-05	WDHD1	WD repeat and HMG-box DNA binding protein 1 [Source:HGNC Symbol;Acc:23170]
4524	ENSG00000152380	229.8609995	-1.000931435	0.222254734	2.76E-05	FAM151B	family with sequence similarity 151, member B [Source:HGNC Symbol;Acc:33716]
4525	ENSG00000128609	585.2556293	0.627495665	0.139388869	2.79E-05	NDUFA5	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 5 [Source:HGNC Symbol;Acc:7688]
4526	ENSG00000163814	91.0241668	-1.387678139	0.308312678	2.80E-05	CDCP1	CUB domain containing protein 1 [Source:HGNC Symbol;Acc:24357]
4527	ENSG00000116663	331.3642214	-0.842829953	0.187359274	2.83E-05	FBXO6	F-box protein 6 [Source:HGNC Symbol;Acc:13585]
4528	ENSG00000100106	2149.093672	-0.488963318	0.108707854	2.84E-05	TRIOBP	TRIO and F-actin binding protein [Source:HGNC Symbol;Acc:17009]
4529	ENSG00000160199	557.5597157	-0.685448145	0.152401896	2.84E-05	PKNOX1	PBX/knotted 1 homeobox 1 [Source:HGNC Symbol;Acc:9022]
4530	ENSG00000047579	354.3729311	0.784874243	0.174519301	2.84E-05	DTNBP1	dystrobrevin binding protein 1 [Source:HGNC Symbol;Acc:17328]



4531	ENSG00000270931	27.06066042	2.27462178	0.50579154	2.84E-05	CRIP2	cysteine-rich protein 2 [Source:HGNC Symbol;Acc:2361]
4532	ENSG00000216588	30.15993011	2.289039739	0.508998543	2.84E-05	IGSF23	immunoglobulin superfamily, member 23 [Source:HGNC Symbol;Acc:40040]
4533	ENSG00000249316	213.9947886	-0.944719921	0.210197568	2.88E-05	CTC-493P15.2	
4534	ENSG00000125900	113.992977	-1.276938102	0.284364544	2.93E-05	SIRPD	signal-regulatory protein delta [Source:HGNC Symbol;Acc:16248]
4535	ENSG00000262279	100.1917239	1.671941275	0.372527615	2.97E-05	NCAM1	neural cell adhesion molecule 1 [Source:HGNC Symbol;Acc:7656]
4536	ENSG00000152154	16.71485408	2.490394896	0.55502725	2.98E-05	TMEM178A	transmembrane protein 178A [Source:HGNC Symbol;Acc:28517]
4537	ENSG00000180437	25.42469089	-2.209476984	0.492491727	2.99E-05	OR6K4P	olfactory receptor, family 6, subfamily K, member 4 pseudogene [Source:HGNC Symbol;Acc:15031]
4538	ENSG00000135250	2137.914713	0.384304723	0.085683063	3.00E-05	SRPK2	SRSF protein kinase 2 [Source:HGNC Symbol;Acc:11306]
4539	ENSG00000102218	749.7240187	-0.548151298	0.122217946	3.01E-05	RP2	retinitis pigmentosa 2 (X-linked recessive) [Source:HGNC Symbol;Acc:10274]
4540	ENSG00000271091	749.7240187	-0.548151298	0.122217946	3.01E-05	RP2	retinitis pigmentosa 2 (X-linked recessive) [Source:HGNC Symbol;Acc:10274]
4541	ENSG00000100852	513.7489515	0.850656778	0.189685093	3.01E-05	ARHGAP5	Rho GTPase activating protein 5 [Source:HGNC Symbol;Acc:675]
4542	ENSG00000090372	1924.494923	0.430660737	0.096042018	3.02E-05	STRN4	striatin, calmodulin binding protein 4 [Source:HGNC Symbol;Acc:15721]
4543	ENSG00000100266	2838.335989	0.311563986	0.069490827	3.02E-05	PACSIN2	protein kinase C and casein kinase substrate in neurons 2 [Source:HGNC Symbol;Acc:8571]
4544	ENSG00000176871	1199.145929	-0.454686802	0.101429357	3.03E-05	WSB2	WD repeat and SOCS box containing 2 [Source:HGNC Symbol;Acc:19222]
4545	ENSG00000169093	517.8665309	0.682155103	0.152216495	3.05E-05	ASMTL	acetylserotonin O-methyltransferase-like [Source:HGNC Symbol;Acc:751]
4546	ENSG0000005882	186.9664789	1.194235595	0.266553945	3.07E-05	PK2	pyruvate dehydrogenase kinase, isozyme 2 [Source:HGNC Symbol;Acc:8810]
4547	ENSG00000205808	134.149013	1.294640997	0.288971059	3.07E-05	PPAPDC2	phosphatidic acid phosphatase type 2 domain containing 2 [Source:HGNC Symbol;Acc:23682]
4548	ENSG00000095574	932.8435081	0.51318869	0.114558961	3.08E-05	IKZF5	IKAROS family zinc finger 5 (Pegasus) [Source:HGNC Symbol;Acc:14283]
4549	ENSG00000154359	727.8535132	-0.550839814	0.123057182	3.12E-05	LONRF1	LON peptidase N-terminal domain and ring finger 1 [Source:HGNC Symbol;Acc:26302]
4550	ENSG00000213983	5277.0584	-0.259940235	0.058073521	3.13E-05	AP1G2	adaptor-related protein complex 1, gamma 2 subunit [Source:HGNC Symbol;Acc:556]
4551	ENSG00000100300	3217.835553	-1.086016242	0.242638738	3.13E-05	TSPO	translocator protein (18kDa) [Source:HGNC Symbol;Acc:1158]
4552	ENSG00000149591	319.1656271	0.828112534	0.185109142	3.16E-05	TAGLN	transgelin [Source:HGNC Symbol;Acc:11553]
4553	ENSG00000156232	564.0638785	0.616189274	0.137743132	3.16E-05	WHAMM	WAS protein homolog associated with actin, golgi membranes and microtubules [Source:HGNC Symbol;Acc:30493]
4554	ENSG00000185418	235.0213624	1.037688836	0.232014498	3.18E-05	TARSL2	threonyl-tRNA synthetase-like 2 [Source:HGNC Symbol;Acc:24728]
4555	ENSG00000184828	70.87804987	-1.708986133	0.382138101	3.18E-05	ZBTB7C	zinc finger and BTB domain containing 7C [Source:HGNC Symbol;Acc:31700]
4556	ENSG00000128951	1116.512343	-0.491379253	0.109887844	3.19E-05	DUT	deoxyuridine triphosphatase [Source:HGNC Symbol;Acc:3078]
4557	ENSG00000144674	1250.49605	0.45702495	0.102259125	3.22E-05	GOLGA4	golgin A4 [Source:HGNC Symbol;Acc:4427]
4558	ENSG00000219433	20.56053183	-2.330855312	0.521614233	3.23E-05	RP11-350J20.4	

4559	ENSG00000038532	803.2356703	-0.537774438	0.120357713	3.24E-05	CLEC16A	C-type lectin domain family 16, member A [Source:HGNC Symbol;Acc:29013]
4560	ENSG00000167972	69.87083953	1.720162198	0.385013973	3.24E-05	ABCA3	ATP-binding cassette, sub-family A (ABC1), member 3 [Source:HGNC Symbol;Acc:33]
4561	ENSG00000164961	962.7999551	-0.504838075	0.112995894	3.24E-05	KIAA0196	KIAA0196 [Source:HGNC Symbol;Acc:28984]
4562	ENSG00000166128	3467.65725	-0.317022407	0.070966623	3.25E-05	RAB8B	RAB8B, member RAS oncogene family [Source:HGNC Symbol;Acc:30273]
4563	ENSG00000110200	764.1005658	-0.645327726	0.144491618	3.27E-05	ANAPC15	anaphase promoting complex subunit 15 [Source:HGNC Symbol;Acc:24531]
4564	ENSG00000250989	62.45553519	-1.64466731	0.36858958	3.33E-05	RP11-392E22.5	
4565	ENSG00000138867	2041.647871	-0.349362864	0.078312237	3.34E-05	GUCD1	guanylyl cyclase domain containing 1 [Source:HGNC Symbol;Acc:14237]
4566	ENSG00000156860	3595.737081	-0.365054011	0.081853973	3.36E-05	FBR3	fibrosin [Source:HGNC Symbol;Acc:20442]
4567	ENSG00000124702	1394.511837	0.410480225	0.092048552	3.37E-05	KLHDC3	kelch domain containing 3 [Source:HGNC Symbol;Acc:20704]
4568	ENSG00000179348	344.5998264	-0.7847828	0.175988258	3.37E-05	GATA2	GATA binding protein 2 [Source:HGNC Symbol;Acc:4171]
4569	ENSG00000103353	512.1302899	0.674092465	0.151194307	3.38E-05	UBFD1	ubiquitin family domain containing 1 [Source:HGNC Symbol;Acc:30565]
4570	ENSG00000116171	1552.145583	-0.419702049	0.094138967	3.38E-05	SCP2	sterol carrier protein 2 [Source:HGNC Symbol;Acc:10606]
4571	ENSG00000017427	49.43787521	-1.9183586	0.430455931	3.41E-05	IGF1	insulin-like growth factor 1 (somatomedin C) [Source:HGNC Symbol;Acc:5464]
4572	ENSG00000153132	10.38728757	-2.521650039	0.565934003	3.42E-05	CLGN	calmegin [Source:HGNC Symbol;Acc:2060]
4573	ENSG00000205784	161.7585068	-1.068795371	0.239873296	3.42E-05	ARRDC5	arrestin domain containing 5 [Source:HGNC Symbol;Acc:31407]
4574	ENSG00000198518	196.1429453	-1.00508808	0.225627451	3.44E-05	HIST1H4E	histone cluster 1, H4e [Source:HGNC Symbol;Acc:4790]
4575	ENSG00000133119	186.6607278	-1.061097212	0.238287507	3.46E-05	RFC3	replication factor C (activator 1) 3, 38kDa [Source:HGNC Symbol;Acc:9971]
4576	ENSG00000166261	291.8893222	0.931144324	0.209282779	3.52E-05	ZNF202	zinc finger protein 202 [Source:HGNC Symbol;Acc:12994]
4577	ENSG00000127423	66.60291912	-1.615567796	0.363190777	3.54E-05	AUNIP	aurora kinase A and ninein interacting protein [Source:HGNC Symbol;Acc:28363]
4578	ENSG00000165698	104.7186748	1.361679352	0.30618545	3.56E-05	C9orf9	chromosome 9 open reading frame 9 [Source:HGNC Symbol;Acc:1367]
4579	ENSG00000260885	29.16777881	2.173029824	0.488818792	3.58E-05	TRBV6-2	T cell receptor beta variable 6-2 (gene/pseudogene) [Source:HGNC Symbol;Acc:12227]
4580	ENSG00000185507	524.3966973	0.8034929	0.180789285	3.60E-05	IRF7	interferon regulatory factor 7 [Source:HGNC Symbol;Acc:6122]
4581	ENSG00000271043	8238.342666	-0.237753172	0.053497393	3.60E-05	MTRNR2L2	MT-RNR2-like 2 [Source:HGNC Symbol;Acc:37156]
4582	ENSG00000105443	1495.897411	0.426671902	0.096035143	3.63E-05	CYTH2	cytohesin 2 [Source:HGNC Symbol;Acc:9502]
4583	ENSG00000090565	250.0250123	1.007910942	0.226891406	3.63E-05	RAB11FIP3	RAB11 family interacting protein 3 (class II) [Source:HGNC Symbol;Acc:17224]
4584	ENSG00000180891	830.0153687	-0.567794722	0.127834922	3.64E-05	CUEDC1	CUE domain containing 1 [Source:HGNC Symbol;Acc:31350]
4585	ENSG00000187049	637.3280324	-0.585622749	0.131862046	3.65E-05	TMEM216	transmembrane protein 216 [Source:HGNC Symbol;Acc:25018]
4586	ENSG00000166145	893.8013875	0.508944651	0.114604268	3.66E-05	SPINT1	serine peptidase inhibitor, Kunitz type 1 [Source:HGNC Symbol;Acc:11246]

4587	ENSG00000263344	2264.853074	0.341404421	0.076893692	3.67E-05	EIF4H	eukaryotic translation initiation factor 4H [Source:HGNC Symbol;Acc:12741]
4588	ENSG00000213463	103.7015446	1.311616323	0.295507178	3.69E-05	SYNJ2BP	synaptojanin 2 binding protein [Source:HGNC Symbol;Acc:18955]
4589	ENSG00000130935	660.8697099	0.591868528	0.133352637	3.70E-05	NOL11	nucleolar protein 11 [Source:HGNC Symbol;Acc:24557]
4590	ENSG00000012061	710.7334439	0.553316047	0.124671774	3.70E-05	ERCC1	excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence) [Source:HGNC Symbol;Acc:3433]
4591	ENSG00000172059	161.7951572	1.156279123	0.26054768	3.70E-05	KLF11	Kruppel-like factor 11 [Source:HGNC Symbol;Acc:11811]
4592	ENSG00000163684	838.3281449	0.524253616	0.118135481	3.70E-05	RPP14	ribonuclease P/MRP 14kDa subunit [Source:HGNC Symbol;Acc:30327]
4593	ENSG00000127947	4534.089417	-0.29764034	0.067078115	3.71E-05	PTPN12	protein tyrosine phosphatase, non-receptor type 12 [Source:HGNC Symbol;Acc:9645]
4594	ENSG00000174132	226.8742387	1.00913759	0.227522982	3.75E-05	FAM174A	family with sequence similarity 174, member A [Source:HGNC Symbol;Acc:24943]
4595	ENSG00000148483	17.96590406	2.46561398	0.555961501	3.75E-05	TMEM236	transmembrane protein 236 [Source:HGNC Symbol;Acc:23473]
4596	ENSG00000106682	2265.243498	0.341168388	0.076937263	3.76E-05	EIF4H	eukaryotic translation initiation factor 4H [Source:HGNC Symbol;Acc:12741]
4597	ENSG00000232938	299.1429299	-0.802021068	0.180916893	3.78E-05	AC139099.3	
4598	ENSG00000138346	211.8487378	-0.958009666	0.21614697	3.80E-05	DNA2	DNA replication helicase/nuclease 2 [Source:HGNC Symbol;Acc:2939]
4599	ENSG00000182827	706.3443999	0.578576178	0.130542051	3.80E-05	ACBD3	acyl-CoA binding domain containing 3 [Source:HGNC Symbol;Acc:15453]
4600	ENSG00000164169	287.718044	-0.895668254	0.202151836	3.82E-05	PRMT10	protein arginine methyltransferase 10 (putative) [Source:HGNC Symbol;Acc:25099]
4601	ENSG00000235436	76.5564044	-1.449796079	0.327270031	3.83E-05	DPY19L2P4	DPY19L2 pseudogene 4 [Source:HGNC Symbol;Acc:22176]
4602	ENSG00000198805	1227.54352	-0.419173555	0.094626349	3.84E-05	PNP	purine nucleoside phosphorylase [Source:HGNC Symbol;Acc:7892]
4603	ENSG00000070423	321.312196	0.95041478	0.214607113	3.86E-05	RNF126	ring finger protein 126 [Source:HGNC Symbol;Acc:21151]
4604	ENSG00000255823	12285.26413	-0.27622938	0.062374439	3.86E-05	MTRNR2L8	MT-RNR2-like 8 [Source:HGNC Symbol;Acc:37165]
4605	ENSG00000174989	182.9831676	1.03506357	0.233865825	3.90E-05	FBXW8	F-box and WD repeat domain containing 8 [Source:HGNC Symbol;Acc:13597]
4606	ENSG00000105248	179.0800786	1.050193659	0.237291413	3.90E-05	CCDC94	coiled-coil domain containing 94 [Source:HGNC Symbol;Acc:25518]
4607	ENSG00000110987	365.3025239	0.720664827	0.162851425	3.91E-05	BCL7A	B-cell CLL/lymphoma 7A [Source:HGNC Symbol;Acc:1004]
4608	ENSG00000133983	324.6241794	0.830290041	0.187626392	3.91E-05	COX16	COX16 cytochrome c oxidase assembly homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:20213]
4609	ENSG00000106459	749.1182381	-0.58313075	0.131779939	3.92E-05	NRF1	nuclear respiratory factor 1 [Source:HGNC Symbol;Acc:7996]
4610	ENSG00000158850	829.1834352	0.541766933	0.12250457	3.96E-05	B4GALT3	UDP-Gal:betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 3 [Source:HGNC Symbol;Acc:926]
4611	ENSG00000187189	568.703543	0.595710393	0.134717369	3.97E-05	TSPYL4	TSPY-like 4 [Source:HGNC Symbol;Acc:21559]
4612	ENSG00000197299	252.5685597	-0.8551745	0.193399998	3.97E-05	BLM	Bloom syndrome, RecQ helicase-like [Source:HGNC Symbol;Acc:1058]
4613	ENSG00000133884	1894.717761	0.414780532	0.093811481	3.98E-05	DPF2	D4, zinc and double PHD fingers family 2 [Source:HGNC Symbol;Acc:9964]
4614	ENSG00000146574	1277.66155	-0.456362708	0.103319118	4.06E-05	CCZ1B	CCZ1 vacuolar protein trafficking and biogenesis associated homolog B (S. cerevisiae) [Source:HGNC Symbol;Acc:21717]

4615	ENSG00000196628	422.0540708	0.958362562	0.21697404	4.06E-05	TCF4	transcription factor 4 [Source:HGNC Symbol;Acc:11634]
4616	ENSG00000135424	141.1081628	-1.196208097	0.270825753	4.06E-05	ITGA7	integrin, alpha 7 [Source:HGNC Symbol;Acc:6143]
4617	ENSG00000224838	797.3964791	0.513505309	0.116276092	4.07E-05	FKSG52	
4618	ENSG00000104325	1752.904251	-0.376031176	0.085147926	4.07E-05	DECR1	2,4-dienoyl CoA reductase 1, mitochondrial [Source:HGNC Symbol;Acc:2753]
4619	ENSG00000138413	953.5521466	-0.511475845	0.115825739	4.08E-05	IDH1	isocitrate dehydrogenase 1 (NADP+), soluble [Source:HGNC Symbol;Acc:5382]
4620	ENSG00000129993	940.9602554	0.493063096	0.111667916	4.08E-05	CBFA2T3	core-binding factor, runt domain, alpha subunit 2; translocated to, 3 [Source:HGNC Symbol;Acc:1537]
4621	ENSG00000158402	62.14641138	-1.627678615	0.368645571	4.09E-05	CDC25C	cell division cycle 25C [Source:HGNC Symbol;Acc:1727]
4622	ENSG00000137628	365.6874604	0.854208843	0.193504786	4.10E-05	DDX60	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60 [Source:HGNC Symbol;Acc:25942]
4623	ENSG00000263332	437.8235201	0.70685454	0.160129855	4.10E-05	RPS9	ribosomal protein S9 [Source:HGNC Symbol;Acc:10442]
4624	ENSG00000196700	306.7884376	0.918119361	0.207991131	4.10E-05	ZNF512B	zinc finger protein 512B [Source:HGNC Symbol;Acc:29212]
4625	ENSG00000104904	19104.33526	-0.308752867	0.069946842	4.10E-05	OAZ1	ornithine decarboxylase antizyme 1 [Source:HGNC Symbol;Acc:8095]
4626	ENSG00000110711	778.6673347	0.530014934	0.120178532	4.18E-05	AIP	aryl hydrocarbon receptor interacting protein [Source:HGNC Symbol;Acc:358]
4627	ENSG00000173917	91.34713032	1.751257056	0.397091132	4.18E-05	HOXB2	homeobox B2 [Source:HGNC Symbol;Acc:5113]
4628	ENSG00000099337	568.1580882	-0.646728901	0.146646236	4.18E-05	KCNK6	potassium channel, subfamily K, member 6 [Source:HGNC Symbol;Acc:6281]
4629	ENSG00000231834	377.760172	0.881280739	0.199834492	4.18E-05	HLA-A	major histocompatibility complex, class I, A [Source:HGNC Symbol;Acc:4931]
4630	ENSG00000065029	905.3766464	0.58032942	0.131605723	4.19E-05	ZNF76	zinc finger protein 76 [Source:HGNC Symbol;Acc:13149]
4631	ENSG00000078246	123.76212	1.260532388	0.285929093	4.21E-05	TULP3	tubby like protein 3 [Source:HGNC Symbol;Acc:12425]
4632	ENSG00000134294	5670.763002	-0.27781356	0.063024451	4.21E-05	SLC38A2	solute carrier family 38, member 2 [Source:HGNC Symbol;Acc:13448]
4633	ENSG00000268040	60.11028912	-1.69224184	0.383902793	4.21E-05	PRED62	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:MOR1E6]
4634	ENSG00000105792	225.3116785	-0.899159371	0.203994459	4.22E-05	C7orf63	chromosome 7 open reading frame 63 [Source:HGNC Symbol;Acc:26107]
4635	ENSG00000261626	28.88131966	2.159466152	0.489965031	4.22E-05	TRBV6-3	T cell receptor beta variable 6-3 [Source:HGNC Symbol;Acc:12228]
4636	ENSG00000055955	640.0571804	-0.688410124	0.156200801	4.23E-05	ITIH4	inter-alpha-trypsin inhibitor heavy chain family, member 4 [Source:HGNC Symbol;Acc:6169]
4637	ENSG00000165733	648.6258181	0.571267868	0.129621325	4.23E-05	BMS1	BMS1 ribosome biogenesis factor [Source:HGNC Symbol;Acc:23505]
4638	ENSG00000263005	1197.60291	0.460400745	0.104556823	4.30E-05	RASSF1	Ras association (RalGDS/AF-6) domain family member 1 [Source:HGNC Symbol;Acc:9882]
4639	ENSG00000068028	1197.476056	0.461399798	0.104816258	4.33E-05	RASSF1	Ras association (RalGDS/AF-6) domain family member 1 [Source:HGNC Symbol;Acc:9882]
4640	ENSG00000140464	1375.440169	-0.425273812	0.09661492	4.33E-05	PML	promyelocytic leukemia [Source:HGNC Symbol;Acc:9113]
4641	ENSG00000091009	869.6399085	0.574022966	0.130409152	4.33E-05	RBM27	RNA binding motif protein 27 [Source:HGNC Symbol;Acc:29243]
4642	ENSG00000160570	2287.269529	0.363224695	0.082524575	4.34E-05	DEDD2	death effector domain containing 2 [Source:HGNC Symbol;Acc:24450]

4643	ENSG00000260106	27.97425452	2.176915752	0.494736487	4.36E-05	TRBV5-6	T cell receptor beta variable 5-6 [Source:HGNC Symbol;Acc:12223]
4644	ENSG00000211728	27.97425452	2.176915752	0.494736487	4.36E-05	TRBV5-6	T cell receptor beta variable 5-6 [Source:HGNC Symbol;Acc:12223]
4645	ENSG00000183691	48.77715495	1.849033945	0.420274273	4.37E-05	NOG	noggin [Source:HGNC Symbol;Acc:7866]
4646	ENSG00000165805	426.7343933	-0.710522853	0.161564959	4.41E-05	C12orf50	chromosome 12 open reading frame 50 [Source:HGNC Symbol;Acc:26665]
4647	ENSG00000269501	1750.971469	0.400585926	0.091106529	4.42E-05	RP11-353N4.6	
4648	ENSG00000114742	1382.941545	0.451438597	0.102678506	4.43E-05	WDR48	WD repeat domain 48 [Source:HGNC Symbol;Acc:30914]
4649	ENSG00000147854	2352.88744	0.328380412	0.074696548	4.43E-05	UHRF2	ubiquitin-like with PHD and ring finger domains 2, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:12557]
4650	ENSG00000182183	139.8455112	1.267260977	0.288305135	4.45E-05	FAM159A	family with sequence similarity 159, member A [Source:HGNC Symbol;Acc:28757]
4651	ENSG00000186329	219.6339105	-0.964883627	0.21968299	4.52E-05	TMEM212	transmembrane protein 212 [Source:HGNC Symbol;Acc:34295]
4652	ENSG00000144401	603.6445917	-0.598580152	0.136311621	4.53E-05	METTL21A	methyltransferase like 21A [Source:HGNC Symbol;Acc:30476]
4653	ENSG00000149792	728.3307757	0.5737692	0.130715483	4.57E-05	MRPL49	mitochondrial ribosomal protein L49 [Source:HGNC Symbol;Acc:1176]
4654	ENSG00000239951	307.0859413	-0.794178303	0.180959994	4.59E-05	IGKV3-20	immunoglobulin kappa variable 3-20 [Source:HGNC Symbol;Acc:5817]
4655	ENSG00000123505	3098.595144	0.336807645	0.076746067	4.59E-05	AMD1	adenosylmethionine decarboxylase 1 [Source:HGNC Symbol;Acc:457]
4656	ENSG00000259958	363.7162863	0.731659658	0.166804603	4.63E-05	KAT2A	K(lysine) acetyltransferase 2A [Source:HGNC Symbol;Acc:4201]
4657	ENSG00000137216	556.1598542	-0.602592819	0.137383694	4.64E-05	TMEM63B	transmembrane protein 63B [Source:HGNC Symbol;Acc:17735]
4658	ENSG00000007350	30.98835567	2.192309515	0.499893649	4.65E-05	TKTL1	transketolase-like 1 [Source:HGNC Symbol;Acc:11835]
4659	ENSG00000005189	144.967716	-1.169766418	0.266735185	4.65E-05	AC004381.6	Putative RNA exonuclease NEF-sp [Source:UniProtKB/Swiss-Prot;Acc:Q96IC2]
4660	ENSG00000157873	3591.112957	0.763911963	0.17419685	4.65E-05	TNFRSF14	tumor necrosis factor receptor superfamily, member 14 [Source:HGNC Symbol;Acc:11912]
4661	ENSG00000120334	222.1100438	-1.052867211	0.240203186	4.69E-05	CENPL	centromere protein L [Source:HGNC Symbol;Acc:17879]
4662	ENSG00000184677	1611.617362	0.401505655	0.091623535	4.72E-05	ZBTB40	zinc finger and BTB domain containing 40 [Source:HGNC Symbol;Acc:29045]
4663	ENSG00000111731	1650.936039	-0.39138751	0.089333491	4.74E-05	C2CD5	C2 calcium-dependent domain containing 5 [Source:HGNC Symbol;Acc:29062]
4664	ENSG00000141068	2438.4706	-0.443891378	0.101339846	4.76E-05	KSR1	kinase suppressor of ras 1 [Source:HGNC Symbol;Acc:6465]
4665	ENSG00000119013	789.8528587	-0.532714521	0.121645637	4.78E-05	NDUFB3	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 3, 12kDa [Source:HGNC Symbol;Acc:7698]
4666	ENSG00000170035	561.2355675	0.641716318	0.146536762	4.78E-05	UBE2E3	ubiquitin-conjugating enzyme E2E 3 [Source:HGNC Symbol;Acc:12479]
4667	ENSG00000142856	354.0177516	-0.821045283	0.187580061	4.82E-05	ITGB3BP	integrin beta 3 binding protein (beta3-endonexin) [Source:HGNC Symbol;Acc:6157]
4668	ENSG00000213190	883.698773	0.502193855	0.1147938	4.87E-05	MLLT11	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 11 [Source:HGNC Symbol;Acc:16997]
4669	ENSG00000065491	541.0234139	-0.594049	0.135839032	4.91E-05	TBC1D22B	TBC1 domain family, member 22B [Source:HGNC Symbol;Acc:21602]
4670	ENSG00000182389	813.4010361	0.575664618	0.131680947	4.94E-05	CACNB4	calcium channel, voltage-dependent, beta 4 subunit [Source:HGNC Symbol;Acc:1404]

4671	ENSG00000161583	140.4032615	-1.233283341	0.282153376	4.96E-05	TBC1D3G	TBC1 domain family, member 3G [Source:HGNC Symbol;Acc:29860]
4672	ENSG00000114993	22.60738297	2.283354219	0.522586774	4.99E-05	RTKN	rhotekin [Source:HGNC Symbol;Acc:10466]
4673	ENSG00000165816	14.62265326	2.459164336	0.562970554	5.02E-05	VWA2	von Willebrand factor A domain containing 2 [Source:HGNC Symbol;Acc:24709]
4674	ENSG00000272120	142.706555	1.113816536	0.255012341	5.03E-05	ZNF275	zinc finger protein 275 [Source:HGNC Symbol;Acc:13069]
4675	ENSG00000183734	91.42007326	1.45511932	0.333307352	5.07E-05	ASCL2	achaete-scute family bHLH transcription factor 2 [Source:HGNC Symbol;Acc:739]
4676	ENSG00000011275	1663.217605	0.385450103	0.088326096	5.11E-05	RNF216	ring finger protein 216 [Source:HGNC Symbol;Acc:21698]
4677	ENSG00000157601	1101.896188	-0.478638566	0.109756197	5.18E-05	MX1	myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse) [Source:HGNC Symbol;Acc:7532]
4678	ENSG00000187398	30.03124259	2.150880501	0.493235601	5.19E-05	LUZP2	leucine zipper protein 2 [Source:HGNC Symbol;Acc:23206]
4679	ENSG00000163629	97.03598447	1.534421369	0.351906551	5.19E-05	PTPN13	protein tyrosine phosphatase, non-receptor type 13 (APO-1/CD95 (Fas)-associated phosphatase) [Source:HGNC Symbol;Acc:9646]
4680	ENSG00000196460	32.17306299	-1.974776367	0.452933811	5.20E-05	RFX8	RFX family member 8, lacking RFX DNA binding domain [Source:HGNC Symbol;Acc:37253]
4681	ENSG00000148832	36.7441012	2.001047778	0.458982928	5.21E-05	PAOX	polyamine oxidase (exo-N4-amino) [Source:HGNC Symbol;Acc:20837]
4682	ENSG00000073584	1867.562815	0.439882383	0.100898058	5.21E-05	SMARCE1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1 [Source:HGNC Symbol;Acc:11109]
4683	ENSG00000170006	8425.380224	-0.248530428	0.057010404	5.21E-05	TMEM154	transmembrane protein 154 [Source:HGNC Symbol;Acc:26489]
4684	ENSG00000125356	1336.403737	-0.429136078	0.098447873	5.22E-05	NDUFA1	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1, 7.5kDa [Source:HGNC Symbol;Acc:7683]
4685	ENSG00000119535	100381.8722	0.246316582	0.05652408	5.25E-05	CSF3R	colony stimulating factor 3 receptor (granulocyte) [Source:HGNC Symbol;Acc:2439]
4686	ENSG00000183837	102.414843	1.573041443	0.360980884	5.25E-05	PNMA3	paraneoplastic Ma antigen 3 [Source:HGNC Symbol;Acc:18742]
4687	ENSG00000164330	140.488019	1.369710286	0.314435842	5.29E-05	EBF1	early B-cell factor 1 [Source:HGNC Symbol;Acc:3126]
4688	ENSG00000168137	3156.292838	-0.41291918	0.094821194	5.32E-05	SETD5	SET domain containing 5 [Source:HGNC Symbol;Acc:25566]
4689	ENSG00000162086	569.6743215	0.599102722	0.137584506	5.32E-05	ZNF75A	zinc finger protein 75a [Source:HGNC Symbol;Acc:13146]
4690	ENSG00000183657	58.6594823	-1.725765522	0.396419148	5.35E-05	PP13439	
4691	ENSG00000256683	417.1395079	0.868716431	0.199608152	5.38E-05	ZNF350	zinc finger protein 350 [Source:HGNC Symbol;Acc:16656]
4692	ENSG00000214655	4144.692555	-0.301353973	0.069278233	5.43E-05	ZSWIM8	zinc finger, SWIM-type containing 8 [Source:HGNC Symbol;Acc:23528]
4693	ENSG00000152127	2307.368902	-0.363646184	0.083603249	5.44E-05	MGAT5	mannosyl (alpha-1,6-)-glycoprotein beta-1,6-N-acetyl-glucosaminyltransferase [Source:HGNC Symbol;Acc:7049]
4694	ENSG00000063587	142.5119187	1.109704646	0.255152893	5.45E-05	ZNF275	zinc finger protein 275 [Source:HGNC Symbol;Acc:13069]
4695	ENSG00000100196	52.78559909	-1.669671292	0.383910642	5.45E-05	KDEL3	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 3 [Source:HGNC Symbol;Acc:6306]
4696	ENSG00000138182	273.6175675	-0.811288802	0.18655392	5.45E-05	KIF20B	kinesin family member 20B [Source:HGNC Symbol;Acc:7212]
4697	ENSG00000007541	344.2946926	-0.808450375	0.18591151	5.46E-05	PIGQ	phosphatidylinositol glycan anchor biosynthesis, class Q [Source:HGNC Symbol;Acc:14135]
4698	ENSG00000122545	4276.728489	0.30328104	0.069748054	5.47E-05	SEPT7	septin 7 [Source:HGNC Symbol;Acc:1717]

4699	ENSG00000174500	219.4853614	0.949306643	0.218340359	5.48E-05	GCSAM	germlinal center-associated, signaling and motility [Source:HGNC Symbol;Acc:20253]
4700	ENSG00000268013	30.67894434	2.178071165	0.500996486	5.48E-05	TKTL1	transketolase-like 1 [Source:HGNC Symbol;Acc:11835]
4701	ENSG00000161021	2393.740668	-0.321009298	0.073868636	5.53E-05	MAML1	mastermind-like 1 (Drosophila) [Source:HGNC Symbol;Acc:13632]
4702	ENSG00000151376	74.73113909	1.499649449	0.345174165	5.55E-05	ME3	malic enzyme 3, NADP(+)-dependent, mitochondrial [Source:HGNC Symbol;Acc:6985]
4703	ENSG00000140829	1883.775848	-0.373275486	0.085919893	5.56E-05	DHX38	DEAH (Asp-Glu-Ala-His) box polypeptide 38 [Source:HGNC Symbol;Acc:17211]
4704	ENSG00000141101	286.2690471	0.940523938	0.216586156	5.60E-05	NOB1	NIN1/RPN12 binding protein 1 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:29540]
4705	ENSG00000171425	257.601874	0.851510128	0.196170905	5.65E-05	ZNF581	zinc finger protein 581 [Source:HGNC Symbol;Acc:25017]
4706	ENSG00000104327	147.3834311	-1.114751158	0.256841138	5.66E-05	CALB1	calbindin 1, 28kDa [Source:HGNC Symbol;Acc:1434]
4707	ENSG00000113013	1987.298313	0.49820888	0.114809417	5.68E-05	HSPA9	heat shock 70kDa protein 9 (mortalin) [Source:HGNC Symbol;Acc:5244]
4708	ENSG00000125656	275.0744798	0.911443998	0.210086265	5.70E-05	CLPP	caseinolytic mitochondrial matrix peptidase proteolytic subunit [Source:HGNC Symbol;Acc:2084]
4709	ENSG00000126246	463.9346648	0.809257551	0.18664407	5.77E-05	IGFLR1	IGF-like family receptor 1 [Source:HGNC Symbol;Acc:23620]
4710	ENSG00000132326	349.5811094	-0.729372366	0.168236749	5.78E-05	PER2	period circadian clock 2 [Source:HGNC Symbol;Acc:8846]
4711	ENSG00000243130	51.43179229	-1.80582027	0.416587743	5.80E-05	PSG11	pregnancy specific beta-1-glycoprotein 11 [Source:HGNC Symbol;Acc:9516]
4712	ENSG00000006638	37.34578032	2.010135452	0.463761064	5.80E-05	TBXA2R	thromboxane A2 receptor [Source:HGNC Symbol;Acc:11608]
4713	ENSG00000187741	437.2362623	-0.779499693	0.179847134	5.81E-05	FANCA	Fanconi anemia, complementation group A [Source:HGNC Symbol;Acc:3582]
4714	ENSG00000163636	2631.576261	-0.335313252	0.077364532	5.81E-05	PSMD6	proteasome (prosome, macropain) 26S subunit, non-ATPase, 6 [Source:HGNC Symbol;Acc:9564]
4715	ENSG00000226660	21.82046999	2.290997597	0.528681942	5.83E-05	TRBV2	T cell receptor beta variable 2 [Source:HGNC Symbol;Acc:12195]
4716	ENSG00000145248	11.22369605	-2.452706821	0.566057245	5.84E-05	SLC10A4	solute carrier family 10, member 4 [Source:HGNC Symbol;Acc:22980]
4717	ENSG00000089041	163.9185052	1.100604331	0.254080797	5.87E-05	P2RX7	purinergic receptor P2X, ligand-gated ion channel, 7 [Source:HGNC Symbol;Acc:8537]
4718	ENSG00000142867	474.6736768	0.653627404	0.150926213	5.89E-05	BCL10	B-cell CLL/lymphoma 10 [Source:HGNC Symbol;Acc:989]
4719	ENSG00000233264	66.52375495	-1.524914538	0.352254465	5.94E-05	AC006042.8	
4720	ENSG00000122483	399.7080089	-0.748331625	0.172910987	5.97E-05	CCDC18	coiled-coil domain containing 18 [Source:HGNC Symbol;Acc:30370]
4721	ENSG00000153253	44.17156976	1.850161934	0.427525309	5.97E-05	SCN3A	sodium channel, voltage-gated, type III, alpha subunit [Source:HGNC Symbol;Acc:10590]
4722	ENSG00000132581	1182.659611	-0.441170988	0.101944059	5.97E-05	SDF2	stromal cell-derived factor 2 [Source:HGNC Symbol;Acc:10675]
4723	ENSG00000160789	186.3787899	-1.269183946	0.29333242	6.00E-05	LMNA	lamin A/C [Source:HGNC Symbol;Acc:6636]
4724	ENSG00000124920	100.6086566	-1.309034831	0.302662499	6.04E-05	MYRF	myelin regulatory factor [Source:HGNC Symbol;Acc:1181]
4725	ENSG00000130300	24.06990481	2.233293905	0.516401101	6.05E-05	PLVAP	plasmalemma vesicle associated protein [Source:HGNC Symbol;Acc:13635]
4726	ENSG00000138614	450.8621061	0.651774554	0.150710777	6.05E-05	VWA9	von Willebrand factor A domain containing 9 [Source:HGNC Symbol;Acc:25372]

4727	ENSG00000005007	2313.241401	0.424452254	0.098148676	6.05E-05	UPF1	UPF1 regulator of nonsense transcripts homolog (yeast) [Source:HGNC Symbol;Acc:9962]
4728	ENSG00000180979	455.9772205	-0.664562905	0.153682961	6.06E-05	LRRCS7	leucine rich repeat containing 57 [Source:HGNC Symbol;Acc:26719]
4729	ENSG00000233828	226.5101207	-0.881457302	0.203843249	6.06E-05	AC008394.1	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:F5H5A5]
4730	ENSG00000260904	30.13836849	2.109487965	0.487964292	6.09E-05	TRBV12-3	T cell receptor beta variable 12-3 [Source:HGNC Symbol;Acc:12185]
4731	ENSG00000178104	1069.849694	0.589169418	0.136305276	6.10E-05	PDE4DIP	phosphodiesterase 4D interacting protein [Source:HGNC Symbol;Acc:15580]
4732	ENSG00000257210	32.86781583	-1.995022012	0.461585326	6.11E-05	NACAP3	nascent-polypeptide-associated complex alpha polypeptide pseudogene 3 [Source:HGNC Symbol;Acc:49490]
4733	ENSG00000181031	59.75221997	-1.56524317	0.362226595	6.14E-05	RPH3AL	rabphilin 3A-like (without C2 domains) [Source:HGNC Symbol;Acc:10296]
4734	ENSG00000268693	59.74949017	-1.565156245	0.36222578	6.14E-05	RPH3AL	rabphilin 3A-like (without C2 domains) [Source:HGNC Symbol;Acc:10296]
4735	ENSG00000262334	59.74742289	-1.5651416	0.362227307	6.14E-05	RPH3AL	rabphilin 3A-like (without C2 domains) [Source:HGNC Symbol;Acc:10296]
4736	ENSG00000143353	446.4945497	0.683527577	0.15821319	6.16E-05	LYPLAL1	lysophospholipase-like 1 [Source:HGNC Symbol;Acc:20440]
4737	ENSG00000141582	899.7436777	-0.63509537	0.1470289	6.18E-05	CBX4	chromobox homolog 4 [Source:HGNC Symbol;Acc:1554]
4738	ENSG00000187257	1759.959779	0.440616597	0.102022968	6.20E-05	RSBN1L	round spermatid basic protein 1-like [Source:HGNC Symbol;Acc:24765]
4739	ENSG00000114812	488.1959071	0.652954349	0.151217793	6.22E-05	VIPR1	vasoactive intestinal peptide receptor 1 [Source:HGNC Symbol;Acc:12694]
4740	ENSG00000182195	48.84182013	1.906480909	0.441560727	6.23E-05	LDOC1	leucine zipper, down-regulated in cancer 1 [Source:HGNC Symbol;Acc:6548]
4741	ENSG00000205707	271.442156	0.846366162	0.196073007	6.25E-05	LYRM5	LYR motif containing 5 [Source:HGNC Symbol;Acc:27052]
4742	ENSG00000104147	60.80164556	-1.655713332	0.383579497	6.26E-05	OIP5	Opa interacting protein 5 [Source:HGNC Symbol;Acc:20300]
4743	ENSG00000122484	1828.262919	-0.39369252	0.091214212	6.27E-05	RPAP2	RNA polymerase II associated protein 2 [Source:HGNC Symbol;Acc:25791]
4744	ENSG00000134453	2354.189397	-0.324803791	0.075274808	6.30E-05	RBM17	RNA binding motif protein 17 [Source:HGNC Symbol;Acc:16944]
4745	ENSG00000151498	1361.446154	-0.43729626	0.101390718	6.35E-05	ACAD8	acyl-CoA dehydrogenase family, member 8 [Source:HGNC Symbol;Acc:87]
4746	ENSG00000139372	837.2024401	-0.513043462	0.118981857	6.38E-05	TDG	thymine-DNA glycosylase [Source:HGNC Symbol;Acc:11700]
4747	ENSG00000139842	1484.572809	0.386401746	0.089628363	6.40E-05	CUL4A	cullin 4A [Source:HGNC Symbol;Acc:2554]
4748	ENSG00000119760	1666.235265	-0.368018375	0.08536594	6.40E-05	SUPT7L	suppressor of Ty 7 ( <i>S. cerevisiae</i> )-like [Source:HGNC Symbol;Acc:30632]
4749	ENSG00000203757	23.76596064	-2.178533659	0.505369167	6.41E-05	OR6K3	olfactory receptor, family 6, subfamily K, member 3 [Source:HGNC Symbol;Acc:15030]
4750	ENSG00000224557	75.9655162	-1.502030245	0.348501666	6.43E-05	HLA-DPB2	major histocompatibility complex, class II, DP beta 2 (pseudogene) [Source:HGNC Symbol;Acc:4941]
4751	ENSG00000099956	653.9043439	0.565580484	0.131244185	6.45E-05	SMARCB1	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1 [Source:HGNC Symbol;Acc:11103]
4752	ENSG00000066651	127.360039	1.174869076	0.272788648	6.52E-05	TRMT11	tRNA methyltransferase 11 homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:21080]
4753	ENSG00000112249	526.270385	0.734788133	0.170620064	6.53E-05	ASCC3	activating signal cointegrator 1 complex subunit 3 [Source:HGNC Symbol;Acc:18697]
4754	ENSG00000259803	21.22966134	-2.219206285	0.51530685	6.53E-05	SLC22A31	solute carrier family 22, member 31 [Source:HGNC Symbol;Acc:27091]



4755	ENSG00000158796	1452.66012	-0.393676688	0.091425864	6.54E-05	DEDD	death effector domain containing [Source:HGNC Symbol;Acc:2755]
4756	ENSG00000075131	140.0858828	-1.121126369	0.260369314	6.54E-05	TIPIN	TIMELESS interacting protein [Source:HGNC Symbol;Acc:30750]
4757	ENSG00000162639	348.6743379	0.770936155	0.179075277	6.57E-05	HENMT1	HEN1 methyltransferase homolog 1 (Arabidopsis) [Source:HGNC Symbol;Acc:26400]
4758	ENSG00000156136	977.3647724	0.527682698	0.122651605	6.65E-05	DCK	deoxycytidine kinase [Source:HGNC Symbol;Acc:2704]
4759	ENSG00000264538	546.2262433	-0.590265372	0.137209494	6.66E-05	SUZ12P	
4760	ENSG00000124299	217.6028975	1.005787846	0.233820549	6.67E-05	PEPD	peptidase D [Source:HGNC Symbol;Acc:8840]
4761	ENSG00000177239	1194.035184	0.468499541	0.108926256	6.68E-05	MAN1B1	mannosidase, alpha, class 1B, member 1 [Source:HGNC Symbol;Acc:6823]
4762	ENSG00000196917	216.8453166	-0.927081431	0.215566314	6.69E-05	HCAR1	hydroxycarboxylic acid receptor 1 [Source:HGNC Symbol;Acc:4532]
4763	ENSG00000144381	2520.685166	-0.345552153	0.080357914	6.71E-05	HSPD1	heat shock 60kDa protein 1 (chaperonin) [Source:HGNC Symbol;Acc:5261]
4764	ENSG00000082438	103.8334998	1.478596505	0.344086878	6.80E-05	COBLL1	cordon-bleu WH2 repeat protein-like 1 [Source:HGNC Symbol;Acc:23571]
4765	ENSG00000197057	122.5159283	1.413775284	0.329065111	6.82E-05	DTHD1	death domain containing 1 [Source:HGNC Symbol;Acc:37261]
4766	ENSG00000103415	1145.297892	0.496362276	0.115541562	6.83E-05	HMOX2	heme oxygenase (decycling) 2 [Source:HGNC Symbol;Acc:5014]
4767	ENSG00000113269	7099.237273	-0.224164878	0.05218199	6.83E-05	RNF130	ring finger protein 130 [Source:HGNC Symbol;Acc:18280]
4768	ENSG00000104957	631.7308656	0.596760976	0.138924848	6.84E-05	CCDC130	coiled-coil domain containing 130 [Source:HGNC Symbol;Acc:28118]
4769	ENSG00000142632	79.17526929	1.46269491	0.340513714	6.84E-05	ARHGEF19	Rho guanine nucleotide exchange factor (GEF) 19 [Source:HGNC Symbol;Acc:26604]
4770	ENSG00000170043	2101.695394	-0.34945302	0.081355246	6.84E-05	TRAPPC1	trafficking protein particle complex 1 [Source:HGNC Symbol;Acc:19894]
4771	ENSG00000143502	50.31857503	1.776786138	0.413820706	6.90E-05	SUSD4	sushi domain containing 4 [Source:HGNC Symbol;Acc:25470]
4772	ENSG00000179403	9.582953297	2.424397423	0.56485747	6.94E-05	VWA1	von Willebrand factor A domain containing 1 [Source:HGNC Symbol;Acc:30910]
4773	ENSG00000104613	860.6935062	0.505074495	0.11770007	6.97E-05	INTS10	integrator complex subunit 10 [Source:HGNC Symbol;Acc:25548]
4774	ENSG00000115919	154.8691245	1.055356935	0.24597307	6.99E-05	KYNU	kynureninase [Source:HGNC Symbol;Acc:6469]
4775	ENSG00000184007	7806.535894	0.225583119	0.052585127	7.01E-05	PTP4A2	protein tyrosine phosphatase type IVA, member 2 [Source:HGNC Symbol;Acc:9635]
4776	ENSG00000105329	4457.48424	-0.280576587	0.065448666	7.10E-05	TGFB1	transforming growth factor, beta 1 [Source:HGNC Symbol;Acc:11766]
4777	ENSG00000183473	61.94670439	1.626896746	0.37952231	7.10E-05	SSTR3	somatostatin receptor 3 [Source:HGNC Symbol;Acc:11332]
4778	ENSG00000182979	296.3493964	0.86416524	0.201615274	7.12E-05	MTA1	metastasis associated 1 [Source:HGNC Symbol;Acc:7410]
4779	ENSG00000270410	296.3511625	0.864217302	0.20162971	7.12E-05	MTA1	metastasis associated 1 [Source:HGNC Symbol;Acc:7410]
4780	ENSG00000154845	4675.740787	0.255089833	0.059522541	7.14E-05	PPP4R1	protein phosphatase 4, regulatory subunit 1 [Source:HGNC Symbol;Acc:9320]
4781	ENSG00000102996	43.1843638	-1.84484539	0.430646302	7.19E-05	MMP15	matrix metalloproteinase 15 (membrane-inserted) [Source:HGNC Symbol;Acc:7161]
4782	ENSG00000005436	270.2462241	0.863332867	0.201532387	7.19E-05	GCFC2	GC-rich sequence DNA-binding factor 2 [Source:HGNC Symbol;Acc:1317]

4783	ENSG00000119139	343.3064142	0.792984952	0.185124586	7.20E-05	TJP2	tight junction protein 2 [Source:HGNC Symbol;Acc:11828]
4784	ENSG00000160957	233.4440596	-1.08995443	0.254492042	7.22E-05	RECQL4	RecQ protein-like 4 [Source:HGNC Symbol;Acc:9949]
4785	ENSG00000173660	1472.553122	-0.401080192	0.093649953	7.22E-05	UQCRH	ubiquinol-cytochrome c reductase hinge protein [Source:HGNC Symbol;Acc:12590]
4786	ENSG00000112159	1528.327597	0.449860027	0.105041639	7.22E-05	MDN1	MDN1, midasin homolog (yeast) [Source:HGNC Symbol;Acc:18302]
4787	ENSG00000161981	373.1260965	-0.689217389	0.160934738	7.22E-05	SNRNP25	small nuclear ribonucleoprotein 25kDa (U11/U12) [Source:HGNC Symbol;Acc:14161]
4788	ENSG0000010310	217.368512	-0.993697873	0.232083241	7.25E-05	GIPR	gastric inhibitory polypeptide receptor [Source:HGNC Symbol;Acc:4271]
4789	ENSG00000198408	13953.31954	-0.204310792	0.047725421	7.27E-05	MGEA5	meningioma expressed antigen 5 (hyaluronidase) [Source:HGNC Symbol;Acc:7056]
4790	ENSG00000099804	604.8004838	0.575207443	0.134372392	7.28E-05	CDC34	cell division cycle 34 [Source:HGNC Symbol;Acc:1734]
4791	ENSG00000166444	180.3091854	-1.056551847	0.246869747	7.31E-05	ST5	suppression of tumorigenicity 5 [Source:HGNC Symbol;Acc:11350]
4792	ENSG00000108278	397.4380984	0.909099387	0.212417365	7.31E-05	ZNHIT3	zinc finger, HIT-type containing 3 [Source:HGNC Symbol;Acc:12309]
4793	ENSG00000184436	153.7504314	1.107115473	0.258714959	7.32E-05	THAP7	THAP domain containing 7 [Source:HGNC Symbol;Acc:23190]
4794	ENSG00000133112	67442.70814	0.205375734	0.048001201	7.34E-05	TPT1	tumor protein, translationally-controlled 1 [Source:HGNC Symbol;Acc:12022]
4795	ENSG00000262489	58.17466759	1.700864878	0.397608722	7.37E-05	RRAS2	related RAS viral (r-ras) oncogene homolog 2 [Source:HGNC Symbol;Acc:17271]
4796	ENSG00000128805	80.06671191	-1.425358402	0.333246568	7.39E-05	ARHGAP22	Rho GTPase activating protein 22 [Source:HGNC Symbol;Acc:30320]
4797	ENSG00000185436	65.03848109	1.580161287	0.369448394	7.39E-05	IFNLR1	interferon, lambda receptor 1 [Source:HGNC Symbol;Acc:18584]
4798	ENSG00000006282	405.0650946	0.759073387	0.177479679	7.39E-05	SPATA20	spermatogenesis associated 20 [Source:HGNC Symbol;Acc:26125]
4799	ENSG00000173369	21.14518687	-2.227886681	0.520908584	7.39E-05	C1QB	complement component 1, q subcomponent, B chain [Source:HGNC Symbol;Acc:1242]
4800	ENSG00000165424	145.5794928	-1.081194281	0.25283932	7.41E-05	ZCCHC24	zinc finger, CCHC domain containing 24 [Source:HGNC Symbol;Acc:26911]
4801	ENSG00000121892	2058.585112	0.356873749	0.083463859	7.42E-05	PDS5A	PDS5, regulator of cohesion maintenance, homolog A (S. cerevisiae) [Source:HGNC Symbol;Acc:29088]
4802	ENSG00000256667	157.1508544	1.065050043	0.249106262	7.43E-05	KLRAP1	killer cell lectin-like receptor subfamily A pseudogene 1 [Source:HGNC Symbol;Acc:6372]
4803	ENSG00000186716	983.8769529	0.630649867	0.14756699	7.49E-05	BCR	breakpoint cluster region [Source:HGNC Symbol;Acc:1014]
4804	ENSG00000198198	2272.576816	-0.337986413	0.079116484	7.55E-05	SZT2	seizure threshold 2 homolog (mouse) [Source:HGNC Symbol;Acc:29040]
4805	ENSG00000163001	291.2441456	0.780695797	0.1827806	7.57E-05	CCDC104	coiled-coil domain containing 104 [Source:HGNC Symbol;Acc:30540]
4806	ENSG00000260164	218.0985147	-1.014204578	0.237472044	7.58E-05	MYO19	myosin XIX [Source:HGNC Symbol;Acc:26234]
4807	ENSG00000151465	1628.362245	0.377753381	0.088452858	7.59E-05	CDC123	cell division cycle 123 [Source:HGNC Symbol;Acc:16827]
4808	ENSG00000242013	56.55681973	1.666289525	0.390237005	7.61E-05	USP27X	ubiquitin specific peptidase 27, X-linked [Source:HGNC Symbol;Acc:13486]
4809	ENSG00000170468	169.0264323	1.005713421	0.235583027	7.64E-05	AC005280.1	
4810	ENSG00000076108	5901.792362	0.287871472	0.067440787	7.66E-05	BAZ2A	bromodomain adjacent to zinc finger domain, 2A [Source:HGNC Symbol;Acc:962]

4811	ENSG00000219448	410.7156175	-0.681317514	0.159725354	7.76E-05	RP11-193H22.2	
4812	ENSG00000178033	163.5431167	1.042124107	0.244339149	7.77E-05	FAM26E	family with sequence similarity 26, member E [Source:HGNC Symbol;Acc:21568]
4813	ENSG00000184988	245.115195	0.845201345	0.198169952	7.77E-05	TMEM106A	transmembrane protein 106A [Source:HGNC Symbol;Acc:28288]
4814	ENSG00000118402	24.5594313	2.240493351	0.525339981	7.78E-05	ELOVL4	ELOVL fatty acid elongase 4 [Source:HGNC Symbol;Acc:14415]
4815	ENSG00000163069	54.13327191	1.767894993	0.414658529	7.82E-05	SGCB	sarcoglycan, beta (43kDa dystrophin-associated glycoprotein) [Source:HGNC Symbol;Acc:10806]
4816	ENSG00000089060	1261.81801	-0.435921545	0.102272567	7.86E-05	SLC8B1	solute carrier family 8 (sodium/lithium/calcium exchanger), member B1 [Source:HGNC Symbol;Acc:26175]
4817	ENSG00000160803	568.8250717	0.745169821	0.174883875	7.91E-05	UBQLN4	ubiquilin 4 [Source:HGNC Symbol;Acc:1237]
4818	ENSG00000215301	10826.44888	0.208370624	0.048905524	7.92E-05	DDX3X	DEAD (Asp-Glu-Ala-Asp) box helicase 3, X-linked [Source:HGNC Symbol;Acc:2745]
4819	ENSG00000262826	1622.97614	-0.385009581	0.090369527	7.92E-05	INTS3	integrator complex subunit 3 [Source:HGNC Symbol;Acc:26153]
4820	ENSG00000074855	119.563579	1.240097878	0.291307819	8.04E-05	ANO8	anoctamin 8 [Source:HGNC Symbol;Acc:29329]
4821	ENSG00000164096	2275.504671	0.329315718	0.077366742	8.06E-05	C4orf3	chromosome 4 open reading frame 3 [Source:HGNC Symbol;Acc:19225]
4822	ENSG00000211790	25.448414	2.226438738	0.523299334	8.13E-05	TRAV8-4	T cell receptor alpha variable 8-4 [Source:HGNC Symbol;Acc:12149]
4823	ENSG00000196209	2818.493542	-0.328021266	0.077100542	8.13E-05	SIRPB2	signal-regulatory protein beta 2 [Source:HGNC Symbol;Acc:16247]
4824	ENSG00000125952	4284.157093	-0.25665478	0.060334669	8.15E-05	MAX	MYC associated factor X [Source:HGNC Symbol;Acc:6913]
4825	ENSG00000164620	99.25756855	1.316150488	0.309404678	8.15E-05	RELL2	RELT-like 2 [Source:HGNC Symbol;Acc:26902]
4826	ENSG00000143891	477.6399487	-0.623092441	0.146486853	8.16E-05	GALM	galactose mutarotase (aldose 1-epimerase) [Source:HGNC Symbol;Acc:24063]
4827	ENSG00000166897	78.84608259	2.411479497	0.566939677	8.16E-05	ELFN2	extracellular leucine-rich repeat and fibronectin type III domain containing 2 [Source:HGNC Symbol;Acc:29396]
4828	ENSG00000268548	2344.504127	-0.325622139	0.076567914	8.19E-05	TPI1	triosephosphate isomerase 1 [Source:HGNC Symbol;Acc:12009]
4829	ENSG00000136868	592.199846	-0.666415158	0.156760702	8.24E-05	SLC31A1	solute carrier family 31 (copper transporter), member 1 [Source:HGNC Symbol;Acc:11016]
4830	ENSG00000185963	2432.991604	-0.322194823	0.07579253	8.25E-05	BICD2	bicaudal D homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:17208]
4831	ENSG00000116977	2041.48231	-0.42376112	0.099701963	8.27E-05	LGALS8	lectin, galactoside-binding, soluble, 8 [Source:HGNC Symbol;Acc:6569]
4832	ENSG00000130508	37.72018809	1.930457544	0.454309681	8.31E-05	PXDN	peroxidasin homolog (Drosophila) [Source:HGNC Symbol;Acc:14966]
4833	ENSG00000214967	351.6740787	0.739835161	0.174118081	8.31E-05	NPIPA7	nuclear pore complex interacting protein family, member A7 [Source:HGNC Symbol;Acc:41982]
4834	ENSG00000214253	808.9250887	0.529509169	0.124620239	8.31E-05	FIS1	fission 1 (mitochondrial outer membrane) homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:21689]
4835	ENSG00000149100	1825.978624	0.390186496	0.091899275	8.43E-05	EIF3M	eukaryotic translation initiation factor 3, subunit M [Source:HGNC Symbol;Acc:24460]
4836	ENSG00000100031	614.8134709	-0.63164644	0.148813607	8.48E-05	GGT1	gamma-glutamyltransferase 1 [Source:HGNC Symbol;Acc:4250]
4837	ENSG00000163655	878.4061952	-0.567729907	0.133770032	8.49E-05	GMPS	guanine monphosphate synthase [Source:HGNC Symbol;Acc:4378]
4838	ENSG00000165152	8.72004035	-2.396934053	0.564812311	8.50E-05	TMEM246	transmembrane protein 246 [Source:HGNC Symbol;Acc:28180]

4839	ENSG00000211810	32.63966213	2.027296257	0.477903491	8.57E-05	TRAV29DV5	T cell receptor alpha variable 29/delta variable 5 (gene/pseudogene) [Source:HGNC Symbol;Acc:12127]
4840	ENSG00000258164	88.89594615	-1.320301298	0.311371012	8.63E-05	AL845454.1	
4841	ENSG00000243279	498.8710824	0.636198364	0.150055348	8.65E-05	PRAF2	PRA1 domain family, member 2 [Source:HGNC Symbol;Acc:28911]
4842	ENSG00000268440	526.2966207	-0.79813804	0.188303771	8.69E-05	VBP1	von Hippel-Lindau binding protein 1 [Source:HGNC Symbol;Acc:12662]
4843	ENSG00000072778	5268.899767	-0.252111072	0.059480534	8.69E-05	ACADVL	acyl-CoA dehydrogenase, very long chain [Source:HGNC Symbol;Acc:92]
4844	ENSG00000065427	1575.119462	0.389045527	0.091806692	8.73E-05	KARS	lysyl-tRNA synthetase [Source:HGNC Symbol;Acc:6215]
4845	ENSG00000141873	344.7264802	-0.734552001	0.173378933	8.76E-05	SLC39A3	solute carrier family 39 (zinc transporter), member 3 [Source:HGNC Symbol;Acc:17128]
4846	ENSG00000176809	235.3796978	-0.887875425	0.20958133	8.77E-05	LRRC37A3	leucine rich repeat containing 37, member A3 [Source:HGNC Symbol;Acc:32427]
4847	ENSG00000165006	2258.27917	-0.344032116	0.081213403	8.78E-05	UBAP1	ubiquitin associated protein 1 [Source:HGNC Symbol;Acc:12461]
4848	ENSG00000102393	359.2659293	-0.707972992	0.167202731	8.85E-05	GLA	galactosidase, alpha [Source:HGNC Symbol;Acc:4296]
4849	ENSG00000172732	1091.113955	-0.486280088	0.114865791	8.88E-05	MUS81	MUS81 structure-specific endonuclease subunit [Source:HGNC Symbol;Acc:29814]
4850	ENSG00000268815	359.1250835	-0.707869207	0.167215936	8.89E-05	GLA	galactosidase, alpha [Source:HGNC Symbol;Acc:4296]
4851	ENSG00000217275	77.01907727	-1.412503706	0.333804879	8.95E-05	RP1-34B20.4	
4852	ENSG00000197846	118.8454329	-1.202298872	0.284215702	9.00E-05	HIST1H2BF	histone cluster 1, H2bf [Source:HGNC Symbol;Acc:4752]
4853	ENSG00000214022	1266.562087	0.426601015	0.100903443	9.10E-05	REPIN1	replication initiator 1 [Source:HGNC Symbol;Acc:17922]
4854	ENSG00000213901	129.7106922	-1.111562499	0.262934853	9.11E-05	SLC23A3	solute carrier family 23, member 3 [Source:HGNC Symbol;Acc:20601]
4855	ENSG00000153044	138.2779755	-1.112549153	0.26338001	9.25E-05	CENPH	centromere protein H [Source:HGNC Symbol;Acc:17268]
4856	ENSG00000136816	1019.416573	-0.454100714	0.10752619	9.28E-05	TOR1B	torsin family 1, member B (torsin B) [Source:HGNC Symbol;Acc:11995]
4857	ENSG00000119403	862.991993	-0.572553155	0.135600595	9.32E-05	PHF19	PHD finger protein 19 [Source:HGNC Symbol;Acc:24566]
4858	ENSG00000174348	39.19682633	1.991903918	0.471789696	9.33E-05	PODN	podocan [Source:HGNC Symbol;Acc:23174]
4859	ENSG00000188340	31.88574805	-1.941651161	0.45995868	9.35E-05	OR6N2	olfactory receptor, family 6, subfamily N, member 2 [Source:HGNC Symbol;Acc:15035]
4860	ENSG00000197782	837.6595609	-0.677129159	0.160405942	9.35E-05	ZNF780A	zinc finger protein 780A [Source:HGNC Symbol;Acc:27603]
4861	ENSG00000196465	180.3763189	0.950189635	0.225126627	9.38E-05	MYL6B	myosin, light chain 6B, alkali, smooth muscle and non-muscle [Source:HGNC Symbol;Acc:29823]
4862	ENSG00000137364	408.5209426	-0.661676055	0.156777065	9.38E-05	TPMT	thiopurine S-methyltransferase [Source:HGNC Symbol;Acc:12014]
4863	ENSG00000060642	25.21249959	-2.263415797	0.536476346	9.44E-05	TMEM98	transmembrane protein 98 [Source:HGNC Symbol;Acc:24529]
4864	ENSG00000204422	24.07073067	2.322211641	0.550504188	9.47E-05	XXbac-BPG32J3.20	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:U3KQA8]
4865	ENSG00000111669	2341.513649	-0.321999648	0.076351483	9.51E-05	TPI1	triosephosphate isomerase 1 [Source:HGNC Symbol;Acc:12009]
4866	ENSG00000154781	587.2876151	0.636677577	0.151005203	9.55E-05	CCDC174	coiled-coil domain containing 174 [Source:HGNC Symbol;Acc:28033]

4867	ENSG00000147874	698.4669921	-0.536117704	0.127162562	9.56E-05	HAUS6	HAUS augmin-like complex, subunit 6 [Source:HGNC Symbol;Acc:25948]
4868	ENSG00000114850	1265.486462	-0.455610855	0.1080703	9.57E-05	SSR3	signal sequence receptor, gamma (translocon-associated protein gamma) [Source:HGNC Symbol;Acc:11325]
4869	ENSG00000148468	42.25273552	1.904141986	0.451845036	9.64E-05	FAM171A1	family with sequence similarity 171, member A1 [Source:HGNC Symbol;Acc:23522]
4870	ENSG00000204842	860.3455903	-0.548720689	0.130265889	9.71E-05	ATXN2	ataxin 2 [Source:HGNC Symbol;Acc:10555]
4871	ENSG00000249931	42.54977758	-1.888888335	0.448552831	9.76E-05	GOLGA8K	golgin A8 family, member K [Source:HGNC Symbol;Acc:38652]
4872	ENSG00000112493	330.3100625	1.137735271	0.270293832	9.84E-05	TAPBP	TAP binding protein (tapasin) [Source:HGNC Symbol;Acc:11566]
4873	ENSG00000225345	86.68110627	-1.356555086	0.322423863	9.92E-05	SNX18P3	sorting nexin 18 pseudogene 3 [Source:HGNC Symbol;Acc:39611]
4874	ENSG00000105281	593.0802476	-0.562395226	0.133678935	9.93E-05	SLC1A5	solute carrier family 1 (neutral amino acid transporter), member 5 [Source:HGNC Symbol;Acc:10943]
4875	ENSG00000255423	197.5446236	-0.915297058	0.217622078	9.98E-05	EBLN2	endogenous Bornavirus-like nucleoprotein 2 [Source:HGNC Symbol;Acc:25493]
4876	ENSG00000101367	2396.773361	-0.335111341	0.079688657	0.000100089	MAPRE1	microtubule-associated protein, RP/EB family, member 1 [Source:HGNC Symbol;Acc:6890]
4877	ENSG00000174669	81.2916414	1.398820276	0.332642789	0.000100106	SLC29A2	solute carrier family 29 (equilibrative nucleoside transporter), member 2 [Source:HGNC Symbol;Acc:11004]
4878	ENSG00000173597	3333.88782	-0.377304812	0.089753123	0.000100691	SULT1B1	sulfotransferase family, cytosolic, 1B, member 1 [Source:HGNC Symbol;Acc:17845]
4879	ENSG00000175348	768.8519873	0.506098191	0.120422783	0.000101155	TMEM9B	TMEM9 domain family, member B [Source:HGNC Symbol;Acc:1168]
4880	ENSG00000225663	353.0954232	0.843549036	0.200717903	0.000101155	FAM195B	family with sequence similarity 195, member B [Source:HGNC Symbol;Acc:28007]
4881	ENSG00000094755	328.36498	-0.743985551	0.177028631	0.000101155	GABRP	gamma-aminobutyric acid (GABA) A receptor, pi [Source:HGNC Symbol;Acc:4089]
4882	ENSG00000263071	22.74742742	-2.130356989	0.50699052	0.00010141	CFL1P5	cofilin 1 (non-muscle) pseudogene 5 [Source:HGNC Symbol;Acc:1877]
4883	ENSG00000213830	22.74742742	-2.130356989	0.50699052	0.00010141	CFL1P5	cofilin 1 (non-muscle) pseudogene 5 [Source:HGNC Symbol;Acc:1877]
4884	ENSG00000131043	389.0907583	0.694110188	0.165213266	0.000101689	AAR2	AAR2 splicing factor homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:15886]
4885	ENSG00000246223	117.4903419	1.197915249	0.285153308	0.000101824	C14orf64	chromosome 14 open reading frame 64 [Source:HGNC Symbol;Acc:20111]
4886	ENSG00000135124	529.5424698	0.607397572	0.144662053	0.000102805	P2RX4	purinergic receptor P2X, ligand-gated ion channel, 4 [Source:HGNC Symbol;Acc:8535]
4887	ENSG00000211795	34.51481045	2.027120349	0.483030808	0.000103725	TRAV8-6	T cell receptor alpha variable 8-6 [Source:HGNC Symbol;Acc:12151]
4888	ENSG00000065057	57.10702403	1.610257394	0.383726314	0.000103841	NTHL1	nth endonuclease III-like 1 ( <i>E. coli</i> ) [Source:HGNC Symbol;Acc:8028]
4889	ENSG00000243612	21.38819851	2.310442313	0.550659345	0.000104093	HLA-DOB	major histocompatibility complex, class II, DO beta [Source:HGNC Symbol;Acc:4937]
4890	ENSG00000101463	9.052500961	2.357155658	0.561836429	0.000104221	SYNDIG1	synapse differentiation inducing 1 [Source:HGNC Symbol;Acc:15885]
4891	ENSG00000197217	2451.214915	0.334993364	0.079859683	0.00010451	ENTPD4	ectonucleoside triphosphate diphosphohydrolase 4 [Source:HGNC Symbol;Acc:14573]
4892	ENSG00000197880	57.43592979	1.650955165	0.393578907	0.000104512	MDS2	myelodysplastic syndrome 2 translocation associated [Source:HGNC Symbol;Acc:29633]
4893	ENSG00000260204	53.01143869	1.745585306	0.416226251	0.0001049	TRBV18	T cell receptor beta variable 18 [Source:HGNC Symbol;Acc:12193]
4894	ENSG00000143520	33.86310591	1.968057907	0.46935947	0.000105234	FLG2	filaggrin family member 2 [Source:HGNC Symbol;Acc:33276]

4895	ENSG00000214046	976.9286403	-0.437057774	0.104236439	0.00010527	SMIM7	small integral membrane protein 7 [Source:HGNC Symbol;Acc:28419]
4896	ENSG00000011114	965.3896929	-0.518267587	0.12360597	0.00010527	BTBD7	BTB (POZ) domain containing 7 [Source:HGNC Symbol;Acc:18269]
4897	ENSG00000106123	351.7777823	0.846062197	0.201800915	0.000105407	EPHB6	EPH receptor B6 [Source:HGNC Symbol;Acc:3396]
4898	ENSG00000240583	65.30164403	-1.638298213	0.390795084	0.000105544	AQP1	aquaporin 1 (Colton blood group) [Source:HGNC Symbol;Acc:633]
4899	ENSG00000083814	461.8354082	0.637530061	0.152184483	0.00010694	ZNF671	zinc finger protein 671 [Source:HGNC Symbol;Acc:26279]
4900	ENSG00000118855	1982.707173	-0.362895577	0.086637175	0.000107158	MFSD1	major facilitator superfamily domain containing 1 [Source:HGNC Symbol;Acc:25874]
4901	ENSG00000078699	1191.613552	-0.405600253	0.096906013	0.000108648	CBFA2T2	core-binding factor, runt domain, alpha subunit 2; translocated to, 2 [Source:HGNC Symbol;Acc:1536]
4902	ENSG00000177917	537.8617947	-0.603694454	0.144250643	0.000108847	ARL6IP6	ADP-ribosylation-like factor 6 interacting protein 6 [Source:HGNC Symbol;Acc:24048]
4903	ENSG00000231939	14.29827808	2.342954162	0.560075429	0.000109666	HLA-DQB1	major histocompatibility complex, class II, DQ beta 1 [Source:HGNC Symbol;Acc:4944]
4904	ENSG00000131504	7733.49378	-0.214711907	0.051326686	0.000109666	DIAPH1	diaphanous-related formin 1 [Source:HGNC Symbol;Acc:2876]
4905	ENSG00000171298	1327.80055	0.567838564	0.135742733	0.000109666	GAA	glucosidase, alpha; acid [Source:HGNC Symbol;Acc:4065]
4906	ENSG00000270629	758.8194962	0.541056397	0.129363994	0.000110012	AC239811.2	Neuroblastoma breakpoint family member 1 [Source:UniProtKB/TrEMBL;Acc:S4R3H5]
4907	ENSG00000211898	138.418492	1.426541455	0.341293132	0.000111265	IGHD	immunoglobulin heavy constant delta [Source:HGNC Symbol;Acc:5480]
4908	ENSG00000211799	38.36034457	1.93696396	0.46358842	0.000112036	TRAV19	T cell receptor alpha variable 19 [Source:HGNC Symbol;Acc:12115]
4909	ENSG00000125520	409.2308199	0.759432667	0.181816773	0.000112645	SLC2A4RG	SLC2A4 regulator [Source:HGNC Symbol;Acc:15930]
4910	ENSG00000250462	1052.846657	-0.443816525	0.106255737	0.000112645	LRRC37BP1	leucine rich repeat containing 37B pseudogene 1 [Source:HGNC Symbol;Acc:25390]
4911	ENSG00000144659	596.8895466	0.555801576	0.133079945	0.000112831	SLC25A38	solute carrier family 25, member 38 [Source:HGNC Symbol;Acc:26054]
4912	ENSG00000198707	363.9931643	0.733315853	0.175609195	0.00011311	CEP290	centrosomal protein 290kDa [Source:HGNC Symbol;Acc:29021]
4913	ENSG00000134278	84.86153352	-1.431920881	0.34294425	0.000113318	SPIRE1	spire-type actin nucleation factor 1 [Source:HGNC Symbol;Acc:30622]
4914	ENSG00000115112	37.00362943	-1.843244988	0.441504787	0.000113524	TFCP2L1	transcription factor CP2-like 1 [Source:HGNC Symbol;Acc:17925]
4915	ENSG00000111906	371.6332607	0.703140555	0.168461564	0.000114012	HDDC2	HD domain containing 2 [Source:HGNC Symbol;Acc:21078]
4916	ENSG00000141551	4396.87949	0.313676921	0.075160622	0.000114225	CSNK1D	casein kinase 1, delta [Source:HGNC Symbol;Acc:2452]
4917	ENSG00000160602	130.1539717	1.150048036	0.275580424	0.000114321	NEK8	NIMA-related kinase 8 [Source:HGNC Symbol;Acc:13387]
4918	ENSG00000101745	2941.791396	0.300703416	0.072061847	0.000114465	ANKRD12	ankyrin repeat domain 12 [Source:HGNC Symbol;Acc:29135]
4919	ENSG00000187997	31.88592902	-1.892162694	0.453461874	0.000114515	C17orf99	chromosome 17 open reading frame 99 [Source:HGNC Symbol;Acc:34490]
4920	ENSG00000115762	2203.010071	0.318785406	0.076416458	0.000115006	PLEKHB2	pleckstrin homology domain containing, family B (evectins) member 2 [Source:HGNC Symbol;Acc:19236]
4921	ENSG00000129460	436.1775586	0.664508538	0.159303879	0.000115163	NGDN	neuroguidin, EIF4E binding protein [Source:HGNC Symbol;Acc:20271]
4922	ENSG00000134899	2221.732469	0.335684798	0.080493176	0.000115622	ERCC5	excision repair cross-complementing rodent repair deficiency, complementation group 5 [Source:HGNC Symbol;Acc:3437]

4923	ENSG00000205639	85.49200809	-1.369636559	0.328424158	0.000115622	MFSD2B	major facilitator superfamily domain containing 2B [Source:HGNC Symbol;Acc:37207]
4924	ENSG00000184787	1100.236538	0.419646566	0.100661618	0.000116334	UBE2G2	ubiquitin-conjugating enzyme E2G 2 [Source:HGNC Symbol;Acc:12483]
4925	ENSG00000136141	336.3969194	0.735451857	0.176464382	0.000116912	LRCH1	leucine-rich repeats and calponin homology (CH) domain containing 1 [Source:HGNC Symbol;Acc:20309]
4926	ENSG00000171320	101.2973265	-1.243979446	0.298519754	0.000117169	ESCO2	establishment of sister chromatid cohesion N-acetyltransferase 2 [Source:HGNC Symbol;Acc:27230]
4927	ENSG00000270911	45.93754645	-1.697180445	0.407369527	0.000117642	RP11-272L13.4	
4928	ENSG00000198912	694.2861014	0.52827239	0.126806814	0.000117738	C1orf174	chromosome 1 open reading frame 174 [Source:HGNC Symbol;Acc:27915]
4929	ENSG00000136603	653.1275224	-0.528540337	0.126872653	0.00011774	SKIL	SKI-like oncogene [Source:HGNC Symbol;Acc:10897]
4930	ENSG00000052841	2085.893303	-0.371799529	0.089286933	0.000118656	TTC17	tetratricopeptide repeat domain 17 [Source:HGNC Symbol;Acc:25596]
4931	ENSG00000211788	49.67380355	1.736273095	0.41700596	0.000118857	TRAV13-1	T cell receptor alpha variable 13-1 [Source:HGNC Symbol;Acc:12108]
4932	ENSG00000260105	50.33822118	-1.74009007	0.417971511	0.000119086	AOC4P	amine oxidase, copper containing 4, pseudogene [Source:HGNC Symbol;Acc:48869]
4933	ENSG00000196876	119.9284404	-1.241606458	0.298281565	0.0001194	SCN8A	sodium channel, voltage gated, type VIII, alpha subunit [Source:HGNC Symbol;Acc:10596]
4934	ENSG00000176619	424.0401131	-0.692205268	0.166308391	0.000119561	LMNB2	lamin B2 [Source:HGNC Symbol;Acc:6638]
4935	ENSG00000272773	1099.92913	0.418799607	0.100626395	0.000119669	UBE2G2	ubiquitin-conjugating enzyme E2G 2 [Source:HGNC Symbol;Acc:12483]
4936	ENSG00000172460	28.63404581	2.062824297	0.495682135	0.000119823	PRSS30P	protease, serine, 30, pseudogene [Source:HGNC Symbol;Acc:28753]
4937	ENSG00000133740	208.4837753	0.969906906	0.233074008	0.000119913	E2F5	E2F transcription factor 5, p130-binding [Source:HGNC Symbol;Acc:3119]
4938	ENSG00000141497	58.45226909	1.805270266	0.433835777	0.000119986	ZMYND15	zinc finger, MYND-type containing 15 [Source:HGNC Symbol;Acc:20997]
4939	ENSG00000165115	402.1619736	0.709423586	0.170499689	0.000120137	KIF27	kinesin family member 27 [Source:HGNC Symbol;Acc:18632]
4940	ENSG00000166405	116.5465064	1.277592831	0.307098532	0.000120452	RIC3	RIC3 acetylcholine receptor chaperone [Source:HGNC Symbol;Acc:30338]
4941	ENSG00000183963	102.4574169	-1.253637245	0.301370084	0.000120645	SMTN	smoothelin [Source:HGNC Symbol;Acc:11126]
4942	ENSG00000144136	1734.23049	0.388346159	0.093366494	0.000120842	SLC20A1	solute carrier family 20 (phosphate transporter), member 1 [Source:HGNC Symbol;Acc:10946]
4943	ENSG00000206505	987.745088	1.134227862	0.272716783	0.000121018	HLA-A	major histocompatibility complex, class I, A [Source:HGNC Symbol;Acc:4931]
4944	ENSG00000172046	2043.678307	0.420965544	0.101249056	0.000121669	USP19	ubiquitin specific peptidase 19 [Source:HGNC Symbol;Acc:12617]
4945	ENSG00000137675	17.35421709	-2.233769626	0.537265572	0.000121676	MMP27	matrix metalloproteinase 27 [Source:HGNC Symbol;Acc:14250]
4946	ENSG00000223509	818.9149544	-0.502352281	0.120831568	0.000121761	RP11-632K20.7	
4947	ENSG00000148843	644.0508385	0.558897129	0.13447053	0.000122366	PDCD11	programmed cell death 11 [Source:HGNC Symbol;Acc:13408]
4948	ENSG00000155876	909.7811361	0.462788909	0.111355064	0.000122504	RRAGA	Ras-related GTP binding A [Source:HGNC Symbol;Acc:16963]
4949	ENSG00000142409	576.0225941	-0.64314475	0.154827644	0.000123575	ZNF787	zinc finger protein 787 [Source:HGNC Symbol;Acc:26998]
4950	ENSG00000135632	279.0178177	0.778712452	0.18750546	0.000124052	SMYD5	SMYD family member 5 [Source:HGNC Symbol;Acc:16258]

4951	ENSG00000050438	80.43471208	1.355183571	0.326407319	0.000124676	SLC4A8	solute carrier family 4, sodium bicarbonate cotransporter, member 8 [Source:HGNC Symbol;Acc:11034]
4952	ENSG00000136925	371.3697464	0.709452288	0.170941167	0.000125496	TSTD2	thiosulfate sulfurtransferase (rhodanese)-like domain containing 2 [Source:HGNC Symbol;Acc:30087]
4953	ENSG00000122042	1492.080144	0.401048742	0.096661938	0.000126179	UBL3	ubiquitin-like 3 [Source:HGNC Symbol;Acc:12504]
4954	ENSG00000114120	1096.664672	0.470650318	0.113450887	0.000126423	SLC25A36	solute carrier family 25 (pyrimidine nucleotide carrier ), member 36 [Source:HGNC Symbol;Acc:25554]
4955	ENSG00000266338	265.6673273	1.806994555	0.435599423	0.000126508	NBPF15	neuroblastoma breakpoint family, member 15 [Source:HGNC Symbol;Acc:28791]
4956	ENSG00000205339	1107.012573	0.43365085	0.104598777	0.000127839	IPO7	importin 7 [Source:HGNC Symbol;Acc:9852]
4957	ENSG00000163104	578.6399555	0.626142594	0.151108666	0.000129042	SMARCAD1	SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfamily a, containing DEAD/H box 1 [Source:HGNC Symbol;Acc:18398]
4958	ENSG00000131773	25.78613231	2.081719205	0.502666306	0.000130319	KHDRBS3	KH domain containing, RNA binding, signal transduction associated 3 [Source:HGNC Symbol;Acc:18117]
4959	ENSG00000243244	133.8570705	-1.089474902	0.26309623	0.000130508	STON1	stonin 1 [Source:HGNC Symbol;Acc:17003]
4960	ENSG00000103540	766.0604841	-0.483075138	0.116684026	0.000131022	CCP110	centriolar coiled coil protein 110kDa [Source:HGNC Symbol;Acc:24342]
4961	ENSG00000108021	1068.298438	0.4286013	0.103535427	0.000131207	FAM208B	family with sequence similarity 208, member B [Source:HGNC Symbol;Acc:23484]
4962	ENSG00000136213	160.9331554	1.040736893	0.251525868	0.000132309	CHST12	carbohydrate (chondroitin 4) sulfotransferase 12 [Source:HGNC Symbol;Acc:17423]
4963	ENSG00000269654	37.3183781	1.905198804	0.460772221	0.000133962	MAGEE1	melanoma antigen family E, 1 [Source:HGNC Symbol;Acc:24934]
4964	ENSG00000198182	94.79439914	1.297352471	0.313901059	0.000134987	ZNF607	zinc finger protein 607 [Source:HGNC Symbol;Acc:28192]
4965	ENSG00000146243	148.7880957	-1.104651259	0.267306352	0.000135236	IRAK1BP1	interleukin-1 receptor-associated kinase 1 binding protein 1 [Source:HGNC Symbol;Acc:17368]
4966	ENSG00000263687	56.3875732	-1.92446401	0.466007835	0.000136894	FAM72A	family with sequence similarity 72, member A [Source:HGNC Symbol;Acc:24044]
4967	ENSG00000173230	2559.038566	0.364395342	0.088249293	0.000137178	GOLGB1	golgin B1 [Source:HGNC Symbol;Acc:4429]
4968	ENSG00000107957	187.4800067	0.971319633	0.235273065	0.000137557	SH3PXD2A	SH3 and PX domains 2A [Source:HGNC Symbol;Acc:23664]
4969	ENSG00000154734	31.59865884	1.976979557	0.479021583	0.000138344	ADAMTS1	ADAM metalloproteinase with thrombospondin type 1 motif, 1 [Source:HGNC Symbol;Acc:217]
4970	ENSG00000166860	213.1088836	0.887743803	0.215102965	0.000138349	ZBTB39	zinc finger and BTB domain containing 39 [Source:HGNC Symbol;Acc:29014]
4971	ENSG00000081154	1874.651242	0.361507434	0.087633791	0.000139443	PCNP	PEST proteolytic signal containing nuclear protein [Source:HGNC Symbol;Acc:30023]
4972	ENSG00000168672	184.488012	1.020408061	0.247425207	0.000140082	FAM84B	family with sequence similarity 84, member B [Source:HGNC Symbol;Acc:24166]
4973	ENSG00000113108	814.8050089	0.534805524	0.129697366	0.000140431	APBB3	amyloid beta (A4) precursor protein-binding, family B, member 3 [Source:HGNC Symbol;Acc:20708]
4974	ENSG00000111859	1846.218838	0.349704474	0.084816141	0.000140647	NEDD9	neural precursor cell expressed, developmentally down-regulated 9 [Source:HGNC Symbol;Acc:7733]
4975	ENSG00000257245	49.18729161	-1.643419882	0.398616054	0.000140758	CR388229.1	
4976	ENSG00000257744	49.18729161	-1.643419882	0.398616054	0.000140758	AL662833.1	
4977	ENSG00000241878	4165.459364	0.271316933	0.065814842	0.000140966	PISD	phosphatidylserine decarboxylase [Source:HGNC Symbol;Acc:8999]
4978	ENSG00000114491	341.0600721	-0.696086069	0.168877175	0.000141293	UMPS	uridine monophosphate synthetase [Source:HGNC Symbol;Acc:12563]



4979	ENSG00000118705	2538.051527	-0.301454286	0.073160047	0.000142108	RPN2	ribophorin II [Source:HGNC Symbol;Acc:10382]
4980	ENSG00000079435	164.716772	-1.084084397	0.263101821	0.000142128	LIPE	lipase, hormone-sensitive [Source:HGNC Symbol;Acc:6621]
4981	ENSG00000111863	38.97707751	1.971666934	0.478635594	0.000142748	ADTRP	androgen-dependent TFPI-regulating protein [Source:HGNC Symbol;Acc:21214]
4982	ENSG00000163531	49.1744184	-1.646449306	0.399753572	0.000143146	NFASC	neurofascin [Source:HGNC Symbol;Acc:29866]
4983	ENSG00000132938	13.89101116	2.325918926	0.564784409	0.000143378	MTUS2	microtubule associated tumor suppressor candidate 2 [Source:HGNC Symbol;Acc:20595]
4984	ENSG00000153201	2602.170699	0.337716107	0.08202344	0.000143928	RANBP2	RAN binding protein 2 [Source:HGNC Symbol;Acc:9848]
4985	ENSG00000169032	1588.847092	-0.383242976	0.093099722	0.000144407	MAP2K1	mitogen-activated protein kinase kinase 1 [Source:HGNC Symbol;Acc:6840]
4986	ENSG00000146834	1466.536636	0.409563794	0.099494329	0.000144407	MEPCE	methylphosphate capping enzyme [Source:HGNC Symbol;Acc:20247]
4987	ENSG00000104880	1676.484434	0.424420305	0.103107062	0.000144447	ARHGEF18	Rho/Rac guanine nucleotide exchange factor (GEF) 18 [Source:HGNC Symbol;Acc:17090]
4988	ENSG00000136098	141.7044811	1.074154917	0.260958592	0.000144515	NEK3	NIMA-related kinase 3 [Source:HGNC Symbol;Acc:7746]
4989	ENSG00000116560	7474.387428	-0.234456794	0.056973398	0.000145109	SFPQ	splicing factor proline/glutamine-rich [Source:HGNC Symbol;Acc:10774]
4990	ENSG00000144320	904.6820751	-0.557274473	0.135438637	0.000145462	KIAA1715	KIAA1715 [Source:HGNC Symbol;Acc:21610]
4991	ENSG00000166224	1143.721951	0.442793802	0.107619934	0.000145539	SGPL1	sphingosine-1-phosphate lyase 1 [Source:HGNC Symbol;Acc:10817]
4992	ENSG00000176485	93.43993346	1.361845559	0.33103135	0.00014581	PLA2G16	phospholipase A2, group XVI [Source:HGNC Symbol;Acc:17825]
4993	ENSG00000163539	859.407864	-0.461051501	0.112075182	0.000145893	CLASP2	cytoplasmic linker associated protein 2 [Source:HGNC Symbol;Acc:17078]
4994	ENSG00000017797	2818.541788	0.287856432	0.069979819	0.000146084	RALBP1	ralA binding protein 1 [Source:HGNC Symbol;Acc:9841]
4995	ENSG00000100150	394.4824059	-0.682646518	0.165961342	0.00014614	DEPDC5	DEP domain containing 5 [Source:HGNC Symbol;Acc:18423]
4996	ENSG00000117153	1067.104381	-0.433480743	0.105406982	0.000146642	KLHL12	kelch-like family member 12 [Source:HGNC Symbol;Acc:19360]
4997	ENSG00000172508	167.7751193	1.045828339	0.254311224	0.000146647	CARNS1	carnosine synthase 1 [Source:HGNC Symbol;Acc:29268]
4998	ENSG00000114316	4358.457661	-0.262225299	0.063825464	0.000149128	USP4	ubiquitin specific peptidase 4 (proto-oncogene) [Source:HGNC Symbol;Acc:12627]
4999	ENSG00000081386	293.3205473	0.810296836	0.197233209	0.000149199	ZNF510	zinc finger protein 510 [Source:HGNC Symbol;Acc:29161]
5000	ENSG00000091136	113.2910022	-1.189815286	0.289628871	0.000149331	LAMB1	laminin, beta 1 [Source:HGNC Symbol;Acc:6486]
5001	ENSG00000144485	54.15902768	-1.563655286	0.380642536	0.000149387	HES6	hes family bHLH transcription factor 6 [Source:HGNC Symbol;Acc:18254]
5002	ENSG00000099998	122.3882975	1.17210418	0.285425352	0.000150277	GGT5	gamma-glutamyltransferase 5 [Source:HGNC Symbol;Acc:4260]
5003	ENSG00000102755	58.6200316	1.531082068	0.372888908	0.000150567	FLT1	fms-related tyrosine kinase 1 [Source:HGNC Symbol;Acc:3763]
5004	ENSG00000205277	10.30843134	2.327282907	0.566803338	0.000150567	MUC12	mucin 12, cell surface associated [Source:HGNC Symbol;Acc:7510]
5005	ENSG00000075856	886.5568582	0.461203311	0.112344178	0.000150999	SART3	squamous cell carcinoma antigen recognized by T cells 3 [Source:HGNC Symbol;Acc:16860]
5006	ENSG00000137806	299.6785002	-0.770154783	0.187715124	0.0001526	NDUFAF1	NADH dehydrogenase (ubiquinone) complex I, assembly factor 1 [Source:HGNC Symbol;Acc:18828]

5007	ENSG00000163344	183.4391616	0.927140618	0.226005189	0.000152892	PMVK	phosphomevalonate kinase [Source:HGNC Symbol;Acc:9141]
5008	ENSG00000168172	1446.16589	-0.419197129	0.102189006	0.000152943	HOOK3	hook microtubule-tethering protein 3 [Source:HGNC Symbol;Acc:23576]
5009	ENSG00000185614	46.79254948	1.665669426	0.406052517	0.000152959	FAM212A	family with sequence similarity 212, member A [Source:HGNC Symbol;Acc:32480]
5010	ENSG00000154978	1723.940125	0.351411868	0.085667998	0.000152984	VOPP1	vesicular, overexpressed in cancer, prosurvival protein 1 [Source:HGNC Symbol;Acc:34518]
5011	ENSG00000205155	814.7331842	0.507000927	0.123654969	0.000154211	PSENN	presenilin enhancer gamma secretase subunit [Source:HGNC Symbol;Acc:30100]
5012	ENSG00000214135	734.0864285	-0.504092644	0.122956718	0.000154406	AC024560.3	
5013	ENSG00000198715	543.573645	-0.613183751	0.149566506	0.000154406	C1orf85	chromosome 1 open reading frame 85 [Source:HGNC Symbol;Acc:29436]
5014	ENSG00000268273	49.01138214	1.642496281	0.400776266	0.000155347	GSP2	G1 to S phase transition 2 [Source:HGNC Symbol;Acc:4622]
5015	ENSG00000115998	284.7507056	0.810254709	0.197718338	0.000155492	C2orf42	chromosome 2 open reading frame 42 [Source:HGNC Symbol;Acc:26056]
5016	ENSG00000153048	977.5309013	-0.430036195	0.104962737	0.000156126	CARHSP1	calcium regulated heat stable protein 1, 24kDa [Source:HGNC Symbol;Acc:17150]
5017	ENSG00000250506	473.9719614	-0.629921525	0.153784428	0.000156705	CDK3	cyclin-dependent kinase 3 [Source:HGNC Symbol;Acc:1772]
5018	ENSG00000108797	147.8352428	-1.144425005	0.279399186	0.00015675	CNTNAP1	contactin associated protein 1 [Source:HGNC Symbol;Acc:8011]
5019	ENSG00000156467	2419.921208	0.301714371	0.073669836	0.000157076	UQCRB	ubiquinol-cytochrome c reductase binding protein [Source:HGNC Symbol;Acc:12582]
5020	ENSG00000105376	18.19710404	-2.201725962	0.537817495	0.000158186	ICAM5	intercellular adhesion molecule 5, telencephalin [Source:HGNC Symbol;Acc:5348]
5021	ENSG00000118804	176.3417309	-0.985120062	0.240656672	0.000158393	FAM47E-STBD1	FAM47E-STBD1 readthrough [Source:HGNC Symbol;Acc:44667]
5022	ENSG00000135622	93.95581618	1.430180538	0.349393413	0.000158459	SEMA4F	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4F [Source:HGNC Symbol;Acc:10734]
5023	ENSG00000168653	938.0035767	-0.437206766	0.106814781	0.00015856	NDUFS5	NADH dehydrogenase (ubiquinone) Fe-S protein 5, 15kDa (NADH-coenzyme Q reductase) [Source:HGNC Symbol;Acc:7712]
5024	ENSG00000244607	93.70345238	-1.24796676	0.305134976	0.000160763	CCDC13	coiled-coil domain containing 13 [Source:HGNC Symbol;Acc:26358]
5025	ENSG00000179364	198.3146997	0.924822977	0.226150607	0.000161059	PACS2	phosphofurin acidic cluster sorting protein 2 [Source:HGNC Symbol;Acc:23794]
5026	ENSG00000271374	198.3143228	0.924744383	0.22614962	0.000161256	PACS2	phosphofurin acidic cluster sorting protein 2 [Source:HGNC Symbol;Acc:23794]
5027	ENSG00000186871	81.44155728	-1.322055351	0.323335511	0.000161418	ERCC6L	excision repair cross-complementing rodent repair deficiency, complementation group 6-like [Source:HGNC Symbol;Acc:20794]
5028	ENSG00000254685	405.8013478	-0.670674655	0.164137157	0.000163303	FPGT	fucose-1-phosphate guanylyltransferase [Source:HGNC Symbol;Acc:3825]
5029	ENSG00000205352	9717.839925	-0.214066431	0.052398182	0.000163752	PRR13	proline rich 13 [Source:HGNC Symbol;Acc:24528]
5030	ENSG00000122376	358.9932015	0.725113983	0.177571224	0.000165042	FAM35A	family with sequence similarity 35, member A [Source:HGNC Symbol;Acc:28773]
5031	ENSG00000184939	689.2587063	0.525046522	0.128594954	0.000165409	ZFP90	ZFP90 zinc finger protein [Source:HGNC Symbol;Acc:23329]
5032	ENSG00000164609	1871.212646	0.387189929	0.094863047	0.000166362	SLU7	SLU7 splicing factor homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:16939]
5033	ENSG00000112365	441.4025918	0.65658146	0.160906185	0.000167078	ZBTB24	zinc finger and BTB domain containing 24 [Source:HGNC Symbol;Acc:21143]
5034	ENSG00000176974	351.3113534	-0.709243957	0.173891449	0.00016839	SHMT1	serine hydroxymethyltransferase 1 (soluble) [Source:HGNC Symbol;Acc:10850]

5035	ENSG00000120256	64.32738687	-1.539081453	0.377387568	0.000168651	LRP11	low density lipoprotein receptor-related protein 11 [Source:HGNC Symbol;Acc:16936]
5036	ENSG00000115239	737.7656819	-0.562026016	0.137839588	0.000169242	GPR75-ASB3	GPR75-ASB3 readthrough [Source:HGNC Symbol;Acc:40043]
5037	ENSG00000117523	6792.501394	0.288456667	0.07075524	0.000169622	PRRC2C	proline-rich coiled-coil 2C [Source:HGNC Symbol;Acc:24903]
5038	ENSG00000068137	39.46753454	-1.881997831	0.461647323	0.000169679	PLEKHH3	pleckstrin homology domain containing, family H (with MyTH4 domain) member 3 [Source:HGNC Symbol;Acc:26105]
5039	ENSG00000215077	4355.59659	-0.302942335	0.074315844	0.000169833	BRD2	bromodomain containing 2 [Source:HGNC Symbol;Acc:1103]
5040	ENSG00000067113	24.44711759	2.057194617	0.504660105	0.000169833	PPAP2A	phosphatidic acid phosphatase type 2A [Source:HGNC Symbol;Acc:9228]
5041	ENSG00000115641	101.7189574	-1.216294043	0.298602995	0.000172088	FHL2	four and a half LIM domains 2 [Source:HGNC Symbol;Acc:3703]
5042	ENSG00000140025	89.87360671	-1.268326324	0.311414769	0.000172419	EFCAB11	EF-hand calcium binding domain 11 [Source:HGNC Symbol;Acc:20357]
5043	ENSG00000215630	85.79332229	1.363421415	0.334814281	0.000172841	GUSBP9	glucuronidase, beta pseudogene 9 [Source:HGNC Symbol;Acc:42323]
5044	ENSG00000253729	2500.441528	0.305692406	0.07507346	0.000173001	PRKDC	protein kinase, DNA-activated, catalytic polypeptide [Source:HGNC Symbol;Acc:9413]
5045	ENSG00000103479	11682.37284	-0.236557091	0.058098579	0.000173116	RBL2	retinoblastoma-like 2 (p130) [Source:HGNC Symbol;Acc:9894]
5046	ENSG00000110455	372.19683	0.683050328	0.167770263	0.000173354	ACCS	1-aminocyclopropane-1-carboxylate synthase homolog (Arabidopsis)(non-functional) [Source:HGNC Symbol;Acc:23989]
5047	ENSG00000197106	47.24851054	-1.635378489	0.401697072	0.000173446	SLC6A17	solute carrier family 6 (neutral amino acid transporter), member 17 [Source:HGNC Symbol;Acc:31399]
5048	ENSG00000177156	15336.09258	-0.205587554	0.050512509	0.000174263	TALDO1	transaldolase 1 [Source:HGNC Symbol;Acc:11559]
5049	ENSG00000169224	84.72577743	-1.321920273	0.324836351	0.00017463	GCSAML	germinal center-associated, signaling and motility-like [Source:HGNC Symbol;Acc:29583]
5050	ENSG00000164331	601.9741394	0.577054055	0.141811904	0.000174855	ANKRA2	ankyrin repeat, family A (RFXANK-like), 2 [Source:HGNC Symbol;Acc:13208]
5051	ENSG00000198756	107.0606851	1.206953426	0.296632639	0.000175047	COLGALT2	collagen beta(1-O)galactosyltransferase 2 [Source:HGNC Symbol;Acc:16790]
5052	ENSG00000172845	3992.742326	-0.256058411	0.06293222	0.000175051	SP3	Sp3 transcription factor [Source:HGNC Symbol;Acc:11208]
5053	ENSG00000168246	197.0741694	0.887273849	0.218075389	0.000175122	UBTD2	ubiquitin domain containing 2 [Source:HGNC Symbol;Acc:24463]
5054	ENSG00000112624	1820.555578	0.338113611	0.083111012	0.000175418	GLTSCR1L	GLTSCR1-like [Source:HGNC Symbol;Acc:21111]
5055	ENSG00000064932	1447.335448	0.411484212	0.101180819	0.000176437	SBNO2	strawberry notch homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:29158]
5056	ENSG00000146457	3420.632203	0.292620632	0.071970764	0.000177156	WTAP	Wilms tumor 1 associated protein [Source:HGNC Symbol;Acc:16846]
5057	ENSG00000090920	134.3563451	1.434690189	0.352873031	0.000177186	FCGBP	Fc fragment of IgG binding protein [Source:HGNC Symbol;Acc:13572]
5058	ENSG00000261884	601.6746339	0.555582368	0.136680832	0.000177855	CTC-479C5.12	
5059	ENSG00000101166	781.8071007	0.574726673	0.141399994	0.000178026	SLMO2	slowmo homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:15892]
5060	ENSG00000105392	109.782368	-1.168221325	0.287529221	0.0001792	CRX	cone-rod homeobox [Source:HGNC Symbol;Acc:2383]
5061	ENSG00000096717	836.8479124	0.513615506	0.126437757	0.000179753	SIRT1	sirtuin 1 [Source:HGNC Symbol;Acc:14929]
5062	ENSG00000104885	673.2845819	-0.533792048	0.131425437	0.000180213	DOT1L	DOT1-like histone H3K79 methyltransferase [Source:HGNC Symbol;Acc:24948]

5063	ENSG00000119772	763.0962667	0.520543579	0.12817128	0.000180367	DNMT3A	DNA (cytosine-5-)-methyltransferase 3 alpha [Source:HGNC Symbol;Acc:2978]
5064	ENSG00000149658	1199.133151	0.399925747	0.098510536	0.000181561	YTHDF1	YTH domain family, member 1 [Source:HGNC Symbol;Acc:15867]
5065	ENSG00000148842	472.5738417	-0.714528934	0.176015987	0.000181736	CNNM2	cyclin M2 [Source:HGNC Symbol;Acc:103]
5066	ENSG00000198373	2924.89733	-0.292094138	0.071955033	0.000181744	WWP2	WW domain containing E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:16804]
5067	ENSG00000000460	259.6979034	-0.78083863	0.192365043	0.000181901	C1orf112	chromosome 1 open reading frame 112 [Source:HGNC Symbol;Acc:25565]
5068	ENSG00000243302	961.2972395	-0.448940832	0.110604641	0.000182007	RP11-274B21.2	
5069	ENSG00000008277	257.2137901	-0.830652368	0.204691662	0.000182675	ADAM22	ADAM metallopeptidase domain 22 [Source:HGNC Symbol;Acc:201]
5070	ENSG00000177697	495.5478504	-0.577843582	0.142491011	0.000184816	CD151	CD151 molecule (Raph blood group) [Source:HGNC Symbol;Acc:1630]
5071	ENSG00000004534	6191.153787	-0.224831887	0.055448417	0.000185148	RBM6	RNA binding motif protein 6 [Source:HGNC Symbol;Acc:9903]
5072	ENSG00000089280	9069.97111	0.219677735	0.054177379	0.000185148	FUS	fused in sarcoma [Source:HGNC Symbol;Acc:4010]
5073	ENSG00000154727	996.1000533	0.432298697	0.106620219	0.000185286	GABPA	GA binding protein transcription factor, alpha subunit 60kDa [Source:HGNC Symbol;Acc:4071]
5074	ENSG00000160058	1917.875613	-0.332182292	0.081953188	0.000186242	BSDC1	BSD domain containing 1 [Source:HGNC Symbol;Acc:25501]
5075	ENSG00000065135	2453.243524	-0.325377876	0.080338527	0.000188796	GNAI3	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 3 [Source:HGNC Symbol;Acc:4387]
5076	ENSG00000204519	208.990273	0.868066132	0.214351004	0.000189036	ZNF551	zinc finger protein 551 [Source:HGNC Symbol;Acc:25108]
5077	ENSG00000185800	200.0224762	-0.938528664	0.231824933	0.000190055	DMWD	dystrophia myotonica, WD repeat containing [Source:HGNC Symbol;Acc:2936]
5078	ENSG00000105829	403.9252293	0.680715952	0.168151161	0.000190179	BET1	Bet1 golgi vesicular membrane trafficking protein [Source:HGNC Symbol;Acc:14562]
5079	ENSG00000189369	49.47444262	1.616990881	0.399466606	0.000190437	GSPT2	G1 to S phase transition 2 [Source:HGNC Symbol;Acc:4622]
5080	ENSG00000005812	1661.959656	0.364948712	0.090174256	0.00019099	FBXL3	F-box and leucine-rich repeat protein 3 [Source:HGNC Symbol;Acc:13599]
5081	ENSG00000124762	230.5112665	0.826441208	0.204256377	0.000191812	CDKN1A	cyclin-dependent kinase inhibitor 1A (p21, Cip1) [Source:HGNC Symbol;Acc:1784]
5082	ENSG00000090470	354.8749963	0.670910752	0.165843965	0.000192319	PDCD7	programmed cell death 7 [Source:HGNC Symbol;Acc:8767]
5083	ENSG00000129103	1144.484711	0.407705997	0.100792916	0.000192648	SUMF2	sulfatase modifying factor 2 [Source:HGNC Symbol;Acc:20415]
5084	ENSG00000010932	38.02639065	-1.759010799	0.43487127	0.000192682	FMO1	flavin containing monooxygenase 1 [Source:HGNC Symbol;Acc:3769]
5085	ENSG00000196116	854.3550853	-0.484360445	0.119767231	0.000193235	TDRD7	tudor domain containing 7 [Source:HGNC Symbol;Acc:30831]
5086	ENSG00000163818	237.3542042	0.893245378	0.220906196	0.000193718	LZTFL1	leucine zipper transcription factor-like 1 [Source:HGNC Symbol;Acc:6741]
5087	ENSG00000133142	297.0225559	0.731706377	0.181094667	0.000196248	TCEAL4	transcription elongation factor A (SII)-like 4 [Source:HGNC Symbol;Acc:26121]
5088	ENSG00000111087	314.6197686	-0.718422245	0.177810775	0.000196283	GLI1	GLI family zinc finger 1 [Source:HGNC Symbol;Acc:4317]
5089	ENSG00000188186	4057.604202	0.326287565	0.080758366	0.000196312	LAMTOR4	late endosomal/lysosomal adaptor, MAPK and MTOR activator 4 [Source:HGNC Symbol;Acc:33772]
5090	ENSG00000019102	30.39992622	1.925432794	0.47674595	0.000197614	VSIG2	V-set and immunoglobulin domain containing 2 [Source:HGNC Symbol;Acc:17149]

5091	ENSG00000271304	31.66280624	-1.848316996	0.457751831	0.00019832	DPRXP2	divergent-paired related homeobox pseudogene 2 [Source:HGNC Symbol;Acc:32168]
5092	ENSG00000183665	222.9225041	0.901846896	0.223356929	0.000198383	TRMT12	tRNA methyltransferase 12 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:26091]
5093	ENSG00000120963	1088.302185	0.427277889	0.10593258	0.000201925	ZNF706	zinc finger protein 706 [Source:HGNC Symbol;Acc:24992]
5094	ENSG00000083817	68.81569148	1.43230723	0.355107482	0.000201925	ZNF416	zinc finger protein 416 [Source:HGNC Symbol;Acc:20645]
5095	ENSG00000147234	70.7349714	1.476984297	0.366198812	0.000202025	FRMPD3	FERM and PDZ domain containing 3 [Source:HGNC Symbol;Acc:29382]
5096	ENSG00000116918	1224.781682	-0.426923714	0.105862432	0.000202389	TSNAX	translin-associated factor X [Source:HGNC Symbol;Acc:12380]
5097	ENSG00000155545	373.8889314	0.689427434	0.170992278	0.000203087	MIER3	mesoderm induction early response 1, family member 3 [Source:HGNC Symbol;Acc:26678]
5098	ENSG00000099860	1010.694646	-0.443862459	0.110087263	0.000203087	GADD45B	growth arrest and DNA-damage-inducible, beta [Source:HGNC Symbol;Acc:4096]
5099	ENSG00000048740	11600.52485	0.204182944	0.050668367	0.00020489	CELF2	CUGBP, Elav-like family member 2 [Source:HGNC Symbol;Acc:2550]
5100	ENSG00000198934	37.79482759	1.847975606	0.458705129	0.000205822	MAGEE1	melanoma antigen family E, 1 [Source:HGNC Symbol;Acc:24934]
5101	ENSG00000178115	74.46401849	-1.528348181	0.379384609	0.000205944	GOLGA8Q	golgin A8 family, member Q [Source:HGNC Symbol;Acc:44408]
5102	ENSG00000189362	189.3357129	1.033666272	0.256611509	0.000206216	TMEM194B	transmembrane protein 194B [Source:HGNC Symbol;Acc:33700]
5103	ENSG00000163492	84.12328109	1.294795439	0.321467605	0.000206503	CCDC141	coiled-coil domain containing 141 [Source:HGNC Symbol;Acc:26821]
5104	ENSG00000172409	266.422051	0.807997455	0.200617749	0.000206652	CLP1	cleavage and polyadenylation factor I subunit 1 [Source:HGNC Symbol;Acc:16999]
5105	ENSG00000006432	109.6228888	1.191044147	0.295731987	0.000206676	MAP3K9	mitogen-activated protein kinase kinase kinase 9 [Source:HGNC Symbol;Acc:6861]
5106	ENSG00000166669	436.0433282	0.69039038	0.171422127	0.000206676	ATF7IP2	activating transcription factor 7 interacting protein 2 [Source:HGNC Symbol;Acc:20397]
5107	ENSG00000133065	344.8629716	0.708125816	0.175887286	0.000207876	SLC41A1	solute carrier family 41 (magnesium transporter), member 1 [Source:HGNC Symbol;Acc:19429]
5108	ENSG00000120915	159.0300474	1.03602677	0.257378228	0.000208465	EPHX2	epoxide hydrolase 2, cytoplasmic [Source:HGNC Symbol;Acc:3402]
5109	ENSG00000142961	511.6430193	0.605778745	0.150519384	0.000209062	MOB3C	MOB kinase activator 3C [Source:HGNC Symbol;Acc:29800]
5110	ENSG00000118363	1056.049476	0.41365785	0.102801341	0.000209673	SPCS2	signal peptidase complex subunit 2 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:28962]
5111	ENSG00000166793	50.31461174	-1.602619052	0.398316043	0.000209962	YPEL4	yippee-like 4 (Drosophila) [Source:HGNC Symbol;Acc:18328]
5112	ENSG00000004799	86.37122853	1.41089178	0.350794089	0.000211255	PK4	pyruvate dehydrogenase kinase, isozyme 4 [Source:HGNC Symbol;Acc:8812]
5113	ENSG00000166189	255.1899905	0.831448349	0.20679927	0.000212506	HPS6	Hermansky-Pudlak syndrome 6 [Source:HGNC Symbol;Acc:18817]
5114	ENSG00000143126	78.39754669	1.434604319	0.356829469	0.000212589	CELSR2	cadherin, EGF LAG seven-pass G-type receptor 2 [Source:HGNC Symbol;Acc:3231]
5115	ENSG00000234420	1589.457524	0.376837375	0.093743562	0.00021304	ZNF37BP	zinc finger protein 37B, pseudogene [Source:HGNC Symbol;Acc:13103]
5116	ENSG00000108829	1048.67437	-0.420185235	0.10453524	0.000213287	LRRCS9	leucine rich repeat containing 59 [Source:HGNC Symbol;Acc:28817]
5117	ENSG00000139737	122.0943177	1.232774359	0.30671236	0.000213461	SLAIN1	SLAIN motif family, member 1 [Source:HGNC Symbol;Acc:26387]
5118	ENSG00000118965	200.1678289	0.951722071	0.236824987	0.000214004	WDR35	WD repeat domain 35 [Source:HGNC Symbol;Acc:29250]

5119	ENSG00000183091	176.6302322	-0.983000181	0.244625259	0.000214217	NEB	nebulin [Source:HGNC Symbol;Acc:7720]
5120	ENSG00000130595	117.4131908	1.213164196	0.301916675	0.000214342	TNNT3	troponin T type 3 (skeletal, fast) [Source:HGNC Symbol;Acc:11950]
5121	ENSG00000229300	258.0163114	0.794798317	0.197910161	0.000216359	C6orf48	chromosome 6 open reading frame 48 [Source:HGNC Symbol;Acc:19078]
5122	ENSG00000198832	39.88513034	1.787297505	0.445063715	0.000216437	SELM	Selenoprotein M [Source:UniProtKB/Swiss-Prot;Acc:Q8WWX9]
5123	ENSG00000206380	258.0124812	0.794797589	0.197936846	0.000216775	C6orf48	chromosome 6 open reading frame 48 [Source:HGNC Symbol;Acc:19078]
5124	ENSG00000164741	58.53250618	-1.514245148	0.377387204	0.000219474	DLC1	deleted in liver cancer 1 [Source:HGNC Symbol;Acc:2897]
5125	ENSG00000185361	229.4496187	0.86112687	0.214688095	0.000220722	TNFAIP8L1	tumor necrosis factor, alpha-induced protein 8-like 1 [Source:HGNC Symbol;Acc:28279]
5126	ENSG00000133256	127.2003991	1.077228186	0.268627191	0.000221556	PDE6B	phosphodiesterase 6B, cGMP-specific, rod, beta [Source:HGNC Symbol;Acc:8786]
5127	ENSG00000113721	85.60284683	1.633405947	0.407332289	0.000221621	PDGFRB	platelet-derived growth factor receptor, beta polypeptide [Source:HGNC Symbol;Acc:8804]
5128	ENSG00000234728	257.3022981	0.793143359	0.1978069	0.000221852	C6orf48	chromosome 6 open reading frame 48 [Source:HGNC Symbol;Acc:19078]
5129	ENSG00000168255	1614.300825	0.349995235	0.087287798	0.000221852	POLR2J3	polymerase (RNA) II (DNA directed) polypeptide J3 [Source:HGNC Symbol;Acc:33853]
5130	ENSG00000157741	1298.683456	-0.374789505	0.093482412	0.000222253	UBN2	ubiquitin 2 [Source:HGNC Symbol;Acc:21931]
5131	ENSG00000143179	267.2342898	-0.828518771	0.206662659	0.000222359	UCK2	uridine-cytidine kinase 2 [Source:HGNC Symbol;Acc:12562]
5132	ENSG00000116815	1482.045622	-0.35639022	0.088917226	0.00022319	CD58	CD58 molecule [Source:HGNC Symbol;Acc:1688]
5133	ENSG00000086758	3633.15437	0.276735636	0.069056119	0.000223818	HUWE1	HECT, UBA and WWE domain containing 1, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:30892]
5134	ENSG00000184545	57.50196143	1.52516131	0.380594551	0.000223859	DUSP8	dual specificity phosphatase 8 [Source:HGNC Symbol;Acc:3074]
5135	ENSG00000144843	153.0085435	1.070291698	0.267267533	0.000226387	ADPRH	ADP-ribosylarginine hydrolase [Source:HGNC Symbol;Acc:269]
5136	ENSG00000256950	35.15015905	-1.753006827	0.437751943	0.000226387	RP11-87C12.2	26S proteasome non-ATPase regulatory subunit 9 [Source:UniProtKB/TrEMBL;Acc:F5H7X1]
5137	ENSG00000133193	1017.555518	0.440373545	0.110015878	0.000228023	FAM104A	family with sequence similarity 104, member A [Source:HGNC Symbol;Acc:25918]
5138	ENSG00000132478	481.3298612	0.631946742	0.157885784	0.000228228	UNK	unkempt family zinc finger [Source:HGNC Symbol;Acc:29369]
5139	ENSG00000118785	77.68103517	1.43149397	0.357648734	0.000228228	SPP1	secreted phosphoprotein 1 [Source:HGNC Symbol;Acc:11255]
5140	ENSG00000143842	164.3559277	1.077362177	0.269195095	0.000228524	SOX13	SRY (sex determining region Y)-box 13 [Source:HGNC Symbol;Acc:11192]
5141	ENSG00000116731	3232.39748	-0.274796777	0.068697768	0.000230495	PRDM2	PR domain containing 2, with ZNF domain [Source:HGNC Symbol;Acc:9347]
5142	ENSG00000163041	22440.55234	0.214284651	0.053621115	0.000234188	H3F3A	H3 histone, family 3A [Source:HGNC Symbol;Acc:4764]
5143	ENSG00000168411	910.6426741	-0.467457566	0.116979525	0.000234351	RFWD3	ring finger and WD repeat domain 3 [Source:HGNC Symbol;Acc:25539]
5144	ENSG00000259848	155.8202938	1.026638897	0.256987297	0.000235457	AC097374.2	
5145	ENSG00000135916	410.6770058	-0.668228555	0.167287005	0.000235807	ITM2C	integral membrane protein 2C [Source:HGNC Symbol;Acc:6175]
5146	ENSG00000241394	24.98954587	1.998271075	0.500384286	0.000236789	HLA-DMA	major histocompatibility complex, class II, DM alpha [Source:HGNC Symbol;Acc:4934]

5147	ENSG00000168036	4242.892463	-0.27389096	0.068621501	0.000238894	CTNNB1	catenin (cadherin-associated protein), beta 1, 88kDa [Source:HGNC Symbol;Acc:2514]
5148	ENSG00000239779	1171.232989	0.394954271	0.098957892	0.000239043	WBP1	WW domain binding protein 1 [Source:HGNC Symbol;Acc:12737]
5149	ENSG00000224608	370.9910245	0.688473703	0.172549501	0.000240128	HLA-B	major histocompatibility complex, class I, B [Source:HGNC Symbol;Acc:4932]
5150	ENSG00000160683	22.29481303	2.110414852	0.528930149	0.000240128	CXCR5	chemokine (C-X-C motif) receptor 5 [Source:HGNC Symbol;Acc:1060]
5151	ENSG00000178732	30.35489764	1.918731738	0.480916439	0.000240313	GP5	glycoprotein V (platelet) [Source:HGNC Symbol;Acc:4443]
5152	ENSG00000083844	204.3779924	0.877966905	0.220099868	0.00024107	ZNF264	zinc finger protein 264 [Source:HGNC Symbol;Acc:13057]
5153	ENSG00000184178	140.5310577	1.038227832	0.260332089	0.000241824	SCFD2	sec1 family domain containing 2 [Source:HGNC Symbol;Acc:30676]
5154	ENSG00000164118	454.2433583	-0.62856288	0.157611312	0.000241824	CEP44	centrosomal protein 44kDa [Source:HGNC Symbol;Acc:29356]
5155	ENSG00000233902	77.55527693	1.376451896	0.345146151	0.000241824	XXbac-BPG181B23.6	
5156	ENSG00000046604	24.07380309	-2.002799931	0.502203787	0.000241824	DSG2	desmoglein 2 [Source:HGNC Symbol;Acc:3049]
5157	ENSG00000177352	243.8651703	0.848359911	0.212731294	0.00024186	CCDC71	coiled-coil domain containing 71 [Source:HGNC Symbol;Acc:25760]
5158	ENSG00000181938	174.7692387	-1.009332101	0.253307531	0.000245229	GINS3	GINS complex subunit 3 (Psf3 homolog) [Source:HGNC Symbol;Acc:25851]
5159	ENSG00000155660	744.9522451	0.486595494	0.122154077	0.00024636	PDIA4	protein disulfide isomerase family A, member 4 [Source:HGNC Symbol;Acc:30167]
5160	ENSG00000179562	725.2466779	0.508613179	0.127682346	0.00024636	GCC1	GRIP and coiled-coil domain containing 1 [Source:HGNC Symbol;Acc:19095]
5161	ENSG00000178605	308.593971	0.995884465	0.250022217	0.000246564	GTPBP6	GTP binding protein 6 (putative) [Source:HGNC Symbol;Acc:30189]
5162	ENSG00000214081	68.50765714	-1.419556018	0.356540087	0.000248294	CYP4F30P	cytochrome P450, family 4, subfamily F, polypeptide 30, pseudogene [Source:HGNC Symbol;Acc:25270]
5163	ENSG00000211812	22.67014964	2.073044468	0.520791848	0.000249158	TRAV26-2	T cell receptor alpha variable 26-2 [Source:HGNC Symbol;Acc:12124]
5164	ENSG00000117461	103.5906665	1.253497919	0.314905007	0.000249158	PIK3R3	phosphoinositide-3-kinase, regulatory subunit 3 (gamma) [Source:HGNC Symbol;Acc:8981]
5165	ENSG00000179915	41.30316435	-1.688937784	0.424348316	0.000249618	NRXN1	neurexin 1 [Source:HGNC Symbol;Acc:8008]
5166	ENSG00000260753	41.08842418	1.742091699	0.437754959	0.000250063	NT5C3B	5'-nucleotidase, cytosolic IIIB [Source:HGNC Symbol;Acc:28300]
5167	ENSG00000143641	751.3118497	-0.530603075	0.133343946	0.000250434	GALNT2	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 2 (GalNAc-T2) [Source:HGNC Symbol;Acc:4124]
5168	ENSG00000127527	1486.150506	0.361419016	0.090833266	0.000250679	EPS15L1	epidermal growth factor receptor pathway substrate 15-like 1 [Source:HGNC Symbol;Acc:24634]
5169	ENSG00000157404	90.87700197	-1.24518886	0.313215078	0.00025426	KIT	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog [Source:HGNC Symbol;Acc:6342]
5170	ENSG00000144455	419.7131516	-0.619370907	0.155821308	0.000254883	SUMF1	sulfatase modifying factor 1 [Source:HGNC Symbol;Acc:20376]
5171	ENSG00000132846	135.5435371	1.086721764	0.273404122	0.000254938	ZBED3	zinc finger, BED-type containing 3 [Source:HGNC Symbol;Acc:20711]
5172	ENSG00000144741	173.1059194	0.958395473	0.241145049	0.000255349	SLC25A26	solute carrier family 25 (S-adenosylmethionine carrier), member 26 [Source:HGNC Symbol;Acc:20661]
5173	ENSG00000196284	132.1225864	1.097134478	0.276084281	0.00025576	SUPT3H	suppressor of Ty 3 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:11466]
5174	ENSG00000262641	21.5196357	-2.163618962	0.544460349	0.00025576	RP11-124L9.6	

5175	ENSG00000230456	71.69263438	1.43737296	0.361723821	0.000255928	DDR1	discoidin domain receptor tyrosine kinase 1 [Source:HGNC Symbol;Acc:2730]
5176	ENSG00000221829	437.6891072	-0.621085386	0.156305772	0.000256037	FANCG	Fanconi anemia, complementation group G [Source:HGNC Symbol;Acc:3588]
5177	ENSG00000012822	5617.655904	0.265381354	0.066802348	0.000256949	CALCOCO1	calcium binding and coiled-coil domain 1 [Source:HGNC Symbol;Acc:29306]
5178	ENSG00000186312	173.9224953	-0.94778232	0.238606938	0.000257425	CA5BP1	carbonic anhydrase VB pseudogene 1 [Source:HGNC Symbol;Acc:29544]
5179	ENSG00000101639	1870.858753	-0.356780556	0.089832776	0.00025796	CEP192	centrosomal protein 192kDa [Source:HGNC Symbol;Acc:25515]
5180	ENSG00000175220	2725.581397	-0.28807378	0.072575173	0.000260404	ARHGAP1	Rho GTPase activating protein 1 [Source:HGNC Symbol;Acc:673]
5181	ENSG00000143858	233.1088672	-0.82274043	0.207282392	0.000260506	SYT2	synaptotagmin II [Source:HGNC Symbol;Acc:11510]
5182	ENSG00000164237	98.76710165	-1.202577593	0.30302594	0.000261127	CMBL	carboxymethylenebutenolidase homolog (Pseudomonas) [Source:HGNC Symbol;Acc:25090]
5183	ENSG00000177479	2071.110207	0.350517653	0.088331841	0.000261484	ARIH2	ariadne RBR E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:690]
5184	ENSG00000229598	29.07906168	-1.874214787	0.472330223	0.000261624	PRDX3P1	peroxiredoxin 3 pseudogene 1 [Source:HGNC Symbol;Acc:39264]
5185	ENSG00000161958	83.69737556	-1.250290401	0.315137412	0.000262173	FGF11	fibroblast growth factor 11 [Source:HGNC Symbol;Acc:3667]
5186	ENSG00000269849	84.78517447	1.295496221	0.326533211	0.000262173	MAMLD1	mastermind-like domain containing 1 [Source:HGNC Symbol;Acc:2568]
5187	ENSG00000114013	262.3305536	0.856687662	0.215967014	0.000262864	CD86	CD86 molecule [Source:HGNC Symbol;Acc:1705]
5188	ENSG00000171681	2192.959167	-0.320008163	0.080677624	0.000263087	ATF7IP	activating transcription factor 7 interacting protein [Source:HGNC Symbol;Acc:20092]
5189	ENSG00000174151	1294.380224	0.413775286	0.10433376	0.000263725	CYB561D1	cytochrome b561 family, member D1 [Source:HGNC Symbol;Acc:26804]
5190	ENSG00000129071	2411.491107	-0.345337235	0.087087901	0.000264221	MBD4	methyl-CpG binding domain protein 4 [Source:HGNC Symbol;Acc:6919]
5191	ENSG00000068878	1551.326665	0.424697197	0.107106593	0.000264396	PSME4	proteasome (prosome, macropain) activator subunit 4 [Source:HGNC Symbol;Acc:20635]
5192	ENSG00000162399	49.38831867	-1.562631202	0.394184677	0.000265424	BSND	Bartter syndrome, infantile, with sensorineural deafness (Barttin) [Source:HGNC Symbol;Acc:16512]
5193	ENSG00000198695	23681.22383	0.21929914	0.055321411	0.000265506	MT-ND6	mitochondrially encoded NADH dehydrogenase 6 [Source:HGNC Symbol;Acc:7462]
5194	ENSG00000169372	267.3100202	0.758017375	0.191249764	0.00026612	CRADD	CASP2 and RIPK1 domain containing adaptor with death domain [Source:HGNC Symbol;Acc:2340]
5195	ENSG00000171611	20.99475972	2.107906286	0.532052211	0.000267918	PTCRA	pre T-cell antigen receptor alpha [Source:HGNC Symbol;Acc:21290]
5196	ENSG00000187243	23.57717763	2.105068544	0.531357494	0.000268047	MAGED4B	melanoma antigen family D, 4B [Source:HGNC Symbol;Acc:22880]
5197	ENSG00000149932	1200.345859	0.443933293	0.112060959	0.000268155	TMEM219	transmembrane protein 219 [Source:HGNC Symbol;Acc:25201]
5198	ENSG00000174093	1134.961521	-0.428670676	0.108209379	0.000268155	RP11-1407O15.2	TBC1 domain family member 3 [Source:UniProtKB/TrEMBL;Acc:ESRJ24]
5199	ENSG00000268682	23.57495015	2.104745622	0.531364367	0.000268633	MAGED4B	melanoma antigen family D, 4B [Source:HGNC Symbol;Acc:22880]
5200	ENSG00000180626	214.5710515	0.92400498	0.233304995	0.000269166	ZNF594	zinc finger protein 594 [Source:HGNC Symbol;Acc:29392]
5201	ENSG00000002933	124.78284	1.325081597	0.334625343	0.000269798	TMEM176A	transmembrane protein 176A [Source:HGNC Symbol;Acc:24930]
5202	ENSG00000261674	1134.804008	-0.42864099	0.108253011	0.000270056	RP11-1407O15.2	TBC1 domain family member 3 [Source:UniProtKB/TrEMBL;Acc:ESRJ24]



5203	ENSG00000260309	22.21691909	2.064876794	0.52149053	0.000270066	TRBV2	T cell receptor beta variable 2 [Source:HGNC Symbol;Acc:12195]
5204	ENSG00000112378	37.70473247	1.839686813	0.464856587	0.00027232	PERP	PERP, TP53 apoptosis effector [Source:HGNC Symbol;Acc:17637]
5205	ENSG00000049249	288.2594176	0.797763242	0.201587384	0.000272385	TNFRSF9	tumor necrosis factor receptor superfamily, member 9 [Source:HGNC Symbol;Acc:11924]
5206	ENSG00000117318	74.62291954	1.354376256	0.342240048	0.000272385	ID3	inhibitor of DNA binding 3, dominant negative helix-loop-helix protein [Source:HGNC Symbol;Acc:5362]
5207	ENSG00000017483	270.7654206	-0.849575172	0.214723584	0.000273232	SLC38A5	solute carrier family 38, member 5 [Source:HGNC Symbol;Acc:18070]
5208	ENSG00000112799	195.8642161	0.890943327	0.225204309	0.000273655	LY86	lymphocyte antigen 86 [Source:HGNC Symbol;Acc:16837]
5209	ENSG00000267556	97.2655641	1.261629028	0.31890425	0.000273655	SARM1	sterile alpha and TIR motif containing 1 [Source:HGNC Symbol;Acc:17074]
5210	ENSG00000174175	152.6521281	1.029185782	0.260303825	0.000276306	SELP	selectin P (granule membrane protein 140kDa, antigen CD62) [Source:HGNC Symbol;Acc:10721]
5211	ENSG00000129083	2222.083278	-0.298545101	0.075532481	0.000277698	COPB1	coatamer protein complex, subunit beta 1 [Source:HGNC Symbol;Acc:2231]
5212	ENSG00000135919	68.96192149	-1.370434775	0.346812135	0.000278831	SERPINE2	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 2 [Source:HGNC Symbol;Acc:8951]
5213	ENSG00000187808	229.4565523	-0.800284218	0.202654396	0.000281716	SOWAHD	sosondowah ankyrin repeat domain family member D [Source:HGNC Symbol;Acc:32960]
5214	ENSG00000114166	2131.34184	-0.324739973	0.082236197	0.000281827	KAT2B	K(lysine) acetyltransferase 2B [Source:HGNC Symbol;Acc:8638]
5215	ENSG00000172465	105.798943	1.166167014	0.295327663	0.000281946	TCEAL1	transcription elongation factor A (SII)-like 1 [Source:HGNC Symbol;Acc:11616]
5216	ENSG00000151490	75.98647035	1.377767037	0.348957491	0.000282463	PTPRO	protein tyrosine phosphatase, receptor type, O [Source:HGNC Symbol;Acc:9678]
5217	ENSG00000117751	726.1889079	0.485481131	0.122983783	0.000283255	PPP1R8	protein phosphatase 1, regulatory subunit 8 [Source:HGNC Symbol;Acc:9296]
5218	ENSG00000198157	83.2564989	-1.291727479	0.327416734	0.000285948	HMGNS	high mobility group nucleosome binding domain 5 [Source:HGNC Symbol;Acc:8013]
5219	ENSG00000113580	2889.279709	0.295465759	0.074931694	0.000288343	NR3C1	nuclear receptor subfamily 3, group C, member 1 (glucocorticoid receptor) [Source:HGNC Symbol;Acc:7978]
5220	ENSG00000153786	2774.334478	-0.295725692	0.074997937	0.000288343	ZDHC7	zinc finger, DHC-type containing 7 [Source:HGNC Symbol;Acc:18459]
5221	ENSG00000261309	8.369586222	-2.225150422	0.564447729	0.000289371	KCNJ12	potassium inwardly-rectifying channel, subfamily J, member 12 [Source:HGNC Symbol;Acc:6258]
5222	ENSG00000184185	8.369586222	-2.225150422	0.564447729	0.000289371	KCNJ12	potassium inwardly-rectifying channel, subfamily J, member 12 [Source:HGNC Symbol;Acc:6258]
5223	ENSG00000187531	2116.715022	-0.388925694	0.0987648	0.000294517	SIRT7	sirtuin 7 [Source:HGNC Symbol;Acc:14935]
5224	ENSG00000130592	18510.59506	-0.272644476	0.069262932	0.000296342	LSP1	lymphocyte-specific protein 1 [Source:HGNC Symbol;Acc:6707]
5225	ENSG00000127870	824.8116848	0.471118888	0.119686011	0.000296383	RNF6	ring finger protein (C3H2C3 type) 6 [Source:HGNC Symbol;Acc:10069]
5226	ENSG00000259529	297.8210253	-0.719593001	0.182834879	0.000296989	RP11-468E2.4	E3 ubiquitin-protein ligase RNF31 [Source:UniProtKB/TrEMBL;Acc:H0YM83]
5227	ENSG00000158874	24.8468013	-2.021373633	0.513677944	0.000297743	APOA2	apolipoprotein A-II [Source:HGNC Symbol;Acc:601]
5228	ENSG00000185127	652.217012	0.522210243	0.132728191	0.000298512	C6orf120	chromosome 6 open reading frame 120 [Source:HGNC Symbol;Acc:21247]
5229	ENSG00000122884	570.1163392	-0.534521747	0.135862153	0.000298627	P4HA1	prolyl 4-hydroxylase, alpha polypeptide I [Source:HGNC Symbol;Acc:8546]
5230	ENSG00000133069	104.1322176	1.155493731	0.293736221	0.00029921	TMCC2	transmembrane and coiled-coil domain family 2 [Source:HGNC Symbol;Acc:24239]

5231	ENSG00000139921	761.6673584	-0.459836282	0.11690309	0.000299524	TMX1	thioredoxin-related transmembrane protein 1 [Source:HGNC Symbol;Acc:15487]
5232	ENSG00000133789	836.6918954	0.488174096	0.124117959	0.000299886	SWAP70	SWAP switching B-cell complex 70kDa subunit [Source:HGNC Symbol;Acc:17070]
5233	ENSG00000160223	180.0641537	1.054536208	0.2681907	0.000301214	ICOSLG	inducible T-cell co-stimulator ligand [Source:HGNC Symbol;Acc:17087]
5234	ENSG00000107821	27.19589022	1.956801232	0.497830047	0.000302887	KAZALD1	Kazal-type serine peptidase inhibitor domain 1 [Source:HGNC Symbol;Acc:25460]
5235	ENSG00000138698	591.1972751	0.589262985	0.149927054	0.000303245	RAP1GDS1	RAP1, GTP-GDP dissociation stimulator 1 [Source:HGNC Symbol;Acc:9859]
5236	ENSG00000071189	1303.391949	-0.398934985	0.101508776	0.000303537	SNX13	sorting nexin 13 [Source:HGNC Symbol;Acc:21335]
5237	ENSG00000160131	708.1318143	-0.490759146	0.124884802	0.000303933	VMA21	VMA21 vacuolar H <sup>+</sup> -ATPase homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:22082]
5238	ENSG00000153815	2485.259569	-0.294775182	0.075030835	0.000305108	CMIP	c-Maf inducing protein [Source:HGNC Symbol;Acc:24319]
5239	ENSG00000159214	61.98508892	1.445055689	0.367845078	0.000305412	CCDC24	coiled-coil domain containing 24 [Source:HGNC Symbol;Acc:28688]
5240	ENSG00000090432	410.1662316	0.640669736	0.163107603	0.000306039	MUL1	mitochondrial E3 ubiquitin protein ligase 1 [Source:HGNC Symbol;Acc:25762]
5241	ENSG00000077585	184.4451354	0.944573619	0.240498109	0.000306393	GPR137B	G protein-coupled receptor 137B [Source:HGNC Symbol;Acc:11862]
5242	ENSG00000141084	920.1145037	-0.457023465	0.116366461	0.00030649	RANBP10	RAN binding protein 10 [Source:HGNC Symbol;Acc:29285]
5243	ENSG00000134480	694.0511775	-0.508395555	0.129452494	0.000306654	CCNH	cyclin H [Source:HGNC Symbol;Acc:1594]
5244	ENSG00000105722	434.0922708	0.642784135	0.163698754	0.000307421	ERF	Ets2 repressor factor [Source:HGNC Symbol;Acc:3444]
5245	ENSG00000171643	169.4074543	0.996945737	0.25390363	0.000307561	S100Z	S100 calcium binding protein Z [Source:HGNC Symbol;Acc:30367]
5246	ENSG00000140983	1315.954785	0.451111923	0.11489623	0.000307781	RHOT2	ras homolog family member T2 [Source:HGNC Symbol;Acc:21169]
5247	ENSG00000224870	345.9635299	0.66913408	0.170429257	0.000307832	RP4-758J18.2	HCG20425, isoform CRA_a; Uncharacterized protein; cDNA FLJ53815 [Source:UniProtKB/TrEMBL;Acc:B4DNA4]
5248	ENSG00000130560	858.2045445	-0.484500013	0.123453756	0.000309855	UBAC1	UBA domain containing 1 [Source:HGNC Symbol;Acc:30221]
5249	ENSG00000111962	73.77369139	1.676123559	0.427279956	0.000312083	UST	uronyl-2-sulfotransferase [Source:HGNC Symbol;Acc:17223]
5250	ENSG00000151067	41.62537565	1.7891256	0.456138992	0.000312607	CACNA1C	calcium channel, voltage-dependent, L type, alpha 1C subunit [Source:HGNC Symbol;Acc:1390]
5251	ENSG00000186767	113.8847797	-1.078226988	0.274926463	0.000313134	SPIN4	spindlin family, member 4 [Source:HGNC Symbol;Acc:27040]
5252	ENSG00000260143	18.61716868	2.133438087	0.544151993	0.000314648	TRBV13	T cell receptor beta variable 13 [Source:HGNC Symbol;Acc:12188]
5253	ENSG00000111110	150.4042927	-0.976784681	0.249254073	0.000316992	PPM1H	protein phosphatase, Mg <sup>2+</sup> /Mn <sup>2+</sup> dependent, 1H [Source:HGNC Symbol;Acc:18583]
5254	ENSG00000134709	131.6558635	1.06540488	0.271871297	0.000316994	HOOK1	hook microtubule-tethering protein 1 [Source:HGNC Symbol;Acc:19884]
5255	ENSG00000111339	18.82505529	-2.083881615	0.531874988	0.000317977	ART4	ADP-ribosyltransferase 4 (Dombrock blood group) [Source:HGNC Symbol;Acc:726]
5256	ENSG00000096654	169.9761298	0.951102961	0.242768946	0.000318263	ZNF184	zinc finger protein 184 [Source:HGNC Symbol;Acc:12975]
5257	ENSG00000174851	161.2730997	0.956371783	0.244248463	0.000321065	YIF1A	Yip1 interacting factor homolog A (S. cerevisiae) [Source:HGNC Symbol;Acc:16688]
5258	ENSG00000167565	592.592054	-0.518254374	0.132372185	0.000321588	SERTAD3	SERTA domain containing 3 [Source:HGNC Symbol;Acc:17931]

5259	ENSG00000175221	308.9324156	0.806839335	0.206086639	0.000321635	MED16	mediator complex subunit 16 [Source:HGNC Symbol;Acc:17556]
5260	ENSG00000243678	906.8796817	0.458223939	0.11705485	0.000322162	NME1-NME2	NME1-NME2 readthrough [Source:HGNC Symbol;Acc:33531]
5261	ENSG00000099783	3390.317128	-0.349265069	0.089234051	0.000322869	HNRNPM	heterogeneous nuclear ribonucleoprotein M [Source:HGNC Symbol;Acc:5046]
5262	ENSG00000080947	231.1232255	0.79452622	0.203046375	0.000324136	CROCCP3	ciliary rootlet coiled-coil, rootletin pseudogene 3 [Source:HGNC Symbol;Acc:29405]
5263	ENSG00000268642	1332.497975	0.377005829	0.096347097	0.000324136	HNRNPH2	heterogeneous nuclear ribonucleoprotein H2 (H') [Source:HGNC Symbol;Acc:5042]
5264	ENSG00000123358	128.247212	-1.253592944	0.320425017	0.000325035	NR4A1	nuclear receptor subfamily 4, group A, member 1 [Source:HGNC Symbol;Acc:7980]
5265	ENSG00000126945	1332.637317	0.377003289	0.096378228	0.00032575	HNRNPH2	heterogeneous nuclear ribonucleoprotein H2 (H') [Source:HGNC Symbol;Acc:5042]
5266	ENSG00000196517	22.05952849	-1.970256856	0.503724347	0.000326129	SLC6A9	solute carrier family 6 (neurotransmitter transporter, glycine), member 9 [Source:HGNC Symbol;Acc:11056]
5267	ENSG00000218497	137.8069731	1.004648237	0.256996518	0.000329036	ZNF84	Zinc finger protein 84 [Source:UniProtKB/TrEMBL;Acc:F5H1B1]
5268	ENSG00000157570	164.5504418	1.112700805	0.284747973	0.000331051	TSPAN18	tetraspanin 18 [Source:HGNC Symbol;Acc:20660]
5269	ENSG00000181035	344.2779426	0.736361804	0.188459513	0.000331537	SLC25A42	solute carrier family 25, member 42 [Source:HGNC Symbol;Acc:28380]
5270	ENSG00000150403	839.0542434	-0.467155616	0.119575154	0.000332124	TMCO3	transmembrane and coiled-coil domains 3 [Source:HGNC Symbol;Acc:20329]
5271	ENSG00000255163	115.2292071	1.197229326	0.306584101	0.000334452	HSPE1P18	heat shock 10kDa protein 1 pseudogene 18 [Source:HGNC Symbol;Acc:49337]
5272	ENSG00000226710	231.3534423	0.791037633	0.202587226	0.000334919	C6orf48	chromosome 6 open reading frame 48 [Source:HGNC Symbol;Acc:19078]
5273	ENSG00000169021	1234.734066	-0.390487642	0.100030795	0.000336246	UQCRFS1	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1 [Source:HGNC Symbol;Acc:12587]
5274	ENSG00000198040	446.9750379	0.687788395	0.176227903	0.000337351	ZNF84	zinc finger protein 84 [Source:HGNC Symbol;Acc:13159]
5275	ENSG00000149573	447.3940758	-0.596044731	0.152753092	0.000338382	MPZL2	myelin protein zero-like 2 [Source:HGNC Symbol;Acc:3496]
5276	ENSG00000170379	240.4906976	0.790530854	0.202596071	0.000338382	FAM115C	family with sequence similarity 115, member C [Source:HGNC Symbol;Acc:26878]
5277	ENSG00000205583	631.5923123	-0.533097625	0.136623583	0.000338402	STAG3L1	stromal antigen 3-like 1 (pseudogene) [Source:HGNC Symbol;Acc:33852]
5278	ENSG00000108479	117.5124059	1.265654855	0.3243942	0.000338826	GALK1	galactokinase 1 [Source:HGNC Symbol;Acc:4118]
5279	ENSG00000160908	1238.301497	-0.390003517	0.099972402	0.00033944	ZNF394	zinc finger protein 394 [Source:HGNC Symbol;Acc:18832]
5280	ENSG00000142733	132.1278568	1.1845315	0.303662378	0.000339788	MAP3K6	mitogen-activated protein kinase kinase kinase 6 [Source:HGNC Symbol;Acc:6858]
5281	ENSG00000171606	1190.084384	0.401326942	0.102902942	0.000340798	ZNF274	zinc finger protein 274 [Source:HGNC Symbol;Acc:13068]
5282	ENSG00000164627	77.03337948	-1.381466783	0.354264626	0.000341466	KIF6	kinesin family member 6 [Source:HGNC Symbol;Acc:21202]
5283	ENSG00000140688	807.9371911	0.447427564	0.114825029	0.000345556	C16orf58	chromosome 16 open reading frame 58 [Source:HGNC Symbol;Acc:25848]
5284	ENSG00000134371	779.0876204	-0.478278965	0.122794891	0.000347846	CDC73	cell division cycle 73 [Source:HGNC Symbol;Acc:16783]
5285	ENSG00000165322	721.2156832	-0.466813188	0.119852089	0.000347846	ARHGAP12	Rho GTPase activating protein 12 [Source:HGNC Symbol;Acc:16348]
5286	ENSG00000006712	1116.777977	-0.397902814	0.102169941	0.000348289	PAF1	Paf1, RNA polymerase II associated factor, homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:25459]

5287	ENSG00000268762	113.7919008	-1.069493329	0.274615597	0.000348289	SPIN4	spindlin family, member 4 [Source:HGNC Symbol;Acc:27040]
5288	ENSG00000037757	644.4433147	0.512547254	0.13162653	0.000349028	MRI1	methylthioribose-1-phosphate isomerase 1 [Source:HGNC Symbol;Acc:28469]
5289	ENSG00000212743	106.0865163	-1.188384983	0.305192147	0.000349048	DKFZP667F0711	
5290	ENSG00000121067	1354.05474	0.388851513	0.099869293	0.000349395	SPOP	speckle-type POZ protein [Source:HGNC Symbol;Acc:11254]
5291	ENSG00000099284	33.10147765	1.851600187	0.475648066	0.000350498	H2AFY2	H2A histone family, member Y2 [Source:HGNC Symbol;Acc:14453]
5292	ENSG00000137776	3307.479626	-0.267171834	0.068640787	0.00035112	SLTM	SAFB-like, transcription modulator [Source:HGNC Symbol;Acc:20709]
5293	ENSG00000175463	5004.530626	0.353848946	0.090937233	0.000352772	TBC1D10C	TBC1 domain family, member 10C [Source:HGNC Symbol;Acc:24702]
5294	ENSG00000198089	1482.003657	0.401752585	0.103287239	0.00035485	SFI1	Sfi1 homolog, spindle assembly associated (yeast) [Source:HGNC Symbol;Acc:29064]
5295	ENSG00000115947	1164.352546	-0.411829633	0.105899801	0.000355957	ORC4	origin recognition complex, subunit 4 [Source:HGNC Symbol;Acc:8490]
5296	ENSG00000137801	303.0791263	0.883319828	0.227148962	0.00035609	THBS1	thrombospondin 1 [Source:HGNC Symbol;Acc:11785]
5297	ENSG00000139697	1762.347729	-0.328623982	0.084564173	0.000359907	SBN01	strawberry notch homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:22973]
5298	ENSG00000135090	2197.507938	-0.297763535	0.076652902	0.000362098	TAOK3	TAO kinase 3 [Source:HGNC Symbol;Acc:18133]
5299	ENSG00000182118	47.83763733	-1.541066731	0.396840779	0.00036387	FAM89A	family with sequence similarity 89, member A [Source:HGNC Symbol;Acc:25057]
5300	ENSG00000204038	143.6834448	-0.97420449	0.250877862	0.000364034	AL359195.1	Uncharacterized protein; cDNA FLJ46261 fis, clone TEST14025062 [Source:UniProtKB/TrEMBL;Acc:Q6ZRL6]
5301	ENSG00000187735	1199.76754	0.398894829	0.102725698	0.000364079	TCEA1	transcription elongation factor A (SII), 1 [Source:HGNC Symbol;Acc:11612]
5302	ENSG00000034152	3939.077942	-0.325698578	0.083883511	0.000364547	MAP2K3	mitogen-activated protein kinase kinase 3 [Source:HGNC Symbol;Acc:6843]
5303	ENSG00000204264	385.332894	0.825744656	0.212675093	0.000364552	PSMB8	proteasome (prosome, macropain) subunit, beta type, 8 [Source:HGNC Symbol;Acc:9545]
5304	ENSG00000236443	385.3326371	0.825743096	0.212675158	0.000364552	PSMB8	proteasome (prosome, macropain) subunit, beta type, 8 [Source:HGNC Symbol;Acc:9545]
5305	ENSG00000226201	385.332491	0.825735764	0.21267559	0.000364552	PSMB8	proteasome (prosome, macropain) subunit, beta type, 8 [Source:HGNC Symbol;Acc:9545]
5306	ENSG00000107643	931.0917512	0.547714932	0.14114431	0.000367609	MAPK8	mitogen-activated protein kinase 8 [Source:HGNC Symbol;Acc:6881]
5307	ENSG00000139354	63.02339629	-1.379615777	0.355607306	0.000368942	GAS2L3	growth arrest-specific 2 like 3 [Source:HGNC Symbol;Acc:27475]
5308	ENSG00000150455	369.6163882	-0.649035219	0.167332757	0.000370232	TIRAP	toll-interleukin 1 receptor (TIR) domain containing adaptor protein [Source:HGNC Symbol;Acc:17192]
5309	ENSG00000163554	644.4962275	-1.935310843	0.499037074	0.000371106	SPTA1	spectrin, alpha, erythrocytic 1 (elliptocytosis 2) [Source:HGNC Symbol;Acc:11272]
5310	ENSG00000178860	19.97842391	2.067757639	0.533217825	0.000371349	MSC	musculin [Source:HGNC Symbol;Acc:7321]
5311	ENSG00000197860	791.3632948	-0.452483562	0.116692465	0.000371756	SGTB	small glutamine-rich tetratricopeptide repeat (TPR)-containing, beta [Source:HGNC Symbol;Acc:23567]
5312	ENSG00000270505	26.23528366	1.945616027	0.501841299	0.000372631	IGHV1OR15-1	immunoglobulin heavy variable 1/OR15-1 (non-functional) [Source:HGNC Symbol;Acc:5563]
5313	ENSG00000162402	2786.711813	-0.270000137	0.069644484	0.000372745	USP24	ubiquitin specific peptidase 24 [Source:HGNC Symbol;Acc:12623]
5314	ENSG00000263113	920.723828	-0.441240777	0.113818079	0.000372851	RP11-124L9.2	

5315	ENSG00000151414	1899.397907	0.351421972	0.090652731	0.000373005	NEK7	NIMA-related kinase 7 [Source:HGNC Symbol;Acc:13386]
5316	ENSG00000159261	56.67547362	-1.820024521	0.469502649	0.000373055	CLDN14	claudin 14 [Source:HGNC Symbol;Acc:2035]
5317	ENSG00000166188	445.6137069	0.594904805	0.153477886	0.000373499	ZNF319	zinc finger protein 319 [Source:HGNC Symbol;Acc:13644]
5318	ENSG00000187537	41.90300153	-1.594262608	0.41141354	0.00037508	POTEM	POTE ankyrin domain family, member M [Source:HGNC Symbol;Acc:37096]
5319	ENSG00000243199	127.3037608	1.034276424	0.267026719	0.000377705	RP11-408P14.1	
5320	ENSG00000151612	162.5970105	1.020136689	0.263376956	0.000377705	ZNF827	zinc finger protein 827 [Source:HGNC Symbol;Acc:27193]
5321	ENSG00000167377	236.2662203	0.843170964	0.217828616	0.000381521	ZNF23	zinc finger protein 23 [Source:HGNC Symbol;Acc:13023]
5322	ENSG00000103512	595.8061482	0.591631823	0.15289265	0.000383347	NOMO1	NODAL modulator 1 [Source:HGNC Symbol;Acc:30060]
5323	ENSG00000121579	2112.937994	0.323961816	0.083722462	0.000383459	NAA50	N(alpha)-acetyltransferase 50, NatE catalytic subunit [Source:HGNC Symbol;Acc:29533]
5324	ENSG00000211785	24.94828809	1.984597891	0.512981202	0.00038452	TRAV12-1	T cell receptor alpha variable 12-1 [Source:HGNC Symbol;Acc:12105]
5325	ENSG00000211820	18.81084973	2.088244263	0.539800736	0.000384774	TRAV41	T cell receptor alpha variable 41 [Source:HGNC Symbol;Acc:12142]
5326	ENSG00000211786	26.83173091	1.962000249	0.507256487	0.000385776	TRAV8-2	T cell receptor alpha variable 8-2 [Source:HGNC Symbol;Acc:12147]
5327	ENSG00000183018	242.6650826	-0.759056671	0.196364935	0.000389398	SPNS2	spinster homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:26992]
5328	ENSG00000244627	335.4328844	-0.741898601	0.191938173	0.000389709	RP3-449O17.1	
5329	ENSG00000206298	385.1520406	0.823936768	0.213206231	0.000390905	PSMB8	proteasome (prosome, macropain) subunit, beta type, 8 [Source:HGNC Symbol;Acc:9545]
5330	ENSG00000163913	445.972389	-0.606801359	0.157027416	0.000391159	IFT122	intraflagellar transport 122 homolog (Chlamydomonas) [Source:HGNC Symbol;Acc:13556]
5331	ENSG00000230669	385.1513187	0.823886939	0.213212306	0.000391309	PSMB8	proteasome (prosome, macropain) subunit, beta type, 8 [Source:HGNC Symbol;Acc:9545]
5332	ENSG00000102699	3341.721056	-0.253474103	0.065610094	0.000392556	PARP4	poly (ADP-ribose) polymerase family, member 4 [Source:HGNC Symbol;Acc:271]
5333	ENSG00000205423	948.2140506	0.450222675	0.116547489	0.000393033	CNEP1R1	CTD nuclear envelope phosphatase 1 regulatory subunit 1 [Source:HGNC Symbol;Acc:26759]
5334	ENSG00000049449	377.7593828	0.63472798	0.164338811	0.000394062	RCN1	reticulocalbin 1, EF-hand calcium binding domain [Source:HGNC Symbol;Acc:9934]
5335	ENSG00000189292	15.96156068	2.120177805	0.549136933	0.00039623	FAM150B	family with sequence similarity 150, member B [Source:HGNC Symbol;Acc:27683]
5336	ENSG00000111641	700.3401347	0.511407984	0.132496325	0.000398004	NOP2	NOP2 nucleolar protein [Source:HGNC Symbol;Acc:7867]
5337	ENSG00000174501	245.239931	-0.806318186	0.208945662	0.000399242	ANKRD36C	ankyrin repeat domain 36C [Source:HGNC Symbol;Acc:32946]
5338	ENSG00000229648	27.58386255	-1.883948591	0.488242809	0.000399747	AC016753.7	
5339	ENSG00000214900	159.7405688	1.010601243	0.261918752	0.000399962	C14orf182	chromosome 14 open reading frame 182 [Source:HGNC Symbol;Acc:27503]
5340	ENSG00000145293	342.2310629	0.65556488	0.16991813	0.000400429	ENOPH1	enolase-phosphatase 1 [Source:HGNC Symbol;Acc:24599]
5341	ENSG00000243910	29.3408308	-1.802621525	0.467510348	0.000404191	TUBA4B	tubulin, alpha 4b (pseudogene) [Source:HGNC Symbol;Acc:18637]
5342	ENSG00000029725	1281.390738	0.390655711	0.101350772	0.000406265	RABEP1	rabaptin, RAB GTPase binding effector protein 1 [Source:HGNC Symbol;Acc:17677]

5343	ENSG00000140006	347.8283775	0.693706269	0.180025277	0.000408034	WDR89	WD repeat domain 89 [Source:HGNC Symbol;Acc:20489]
5344	ENSG00000131471	656.1249517	0.571605424	0.148345095	0.000408239	AOC3	amine oxidase, copper containing 3 [Source:HGNC Symbol;Acc:550]
5345	ENSG00000125772	6587.798406	-0.23134323	0.060046279	0.000408939	GPCPD1	glycerophosphocholine phosphodiesterase GDE1 homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:26957]
5346	ENSG00000159958	45.04528257	1.689825123	0.438746334	0.000410978	TNFRSF13C	tumor necrosis factor receptor superfamily, member 13C [Source:HGNC Symbol;Acc:17755]
5347	ENSG00000109861	3998.885944	0.246670437	0.064049265	0.000411278	CTSC	cathepsin C [Source:HGNC Symbol;Acc:2528]
5348	ENSG00000134882	953.9974969	0.470221438	0.122097338	0.000411301	UBAC2	UBA domain containing 2 [Source:HGNC Symbol;Acc:20486]
5349	ENSG00000123933	933.9189273	0.56871382	0.14768294	0.000411713	MXD4	MAX dimerization protein 4 [Source:HGNC Symbol;Acc:13906]
5350	ENSG00000085788	675.4412952	0.49317074	0.128193778	0.000418136	DDHD2	DDHD domain containing 2 [Source:HGNC Symbol;Acc:29106]
5351	ENSG00000186310	38.49476291	1.730034196	0.449717746	0.000418295	NAP1L3	nucleosome assembly protein 1-like 3 [Source:HGNC Symbol;Acc:7639]
5352	ENSG00000157764	1788.730568	-0.374984094	0.097502692	0.00042001	BRAF	v-raf murine sarcoma viral oncogene homolog B [Source:HGNC Symbol;Acc:1097]
5353	ENSG00000167792	1352.868279	0.358257074	0.093155418	0.000420077	NDUFV1	NADH dehydrogenase (ubiquinone) flavoprotein 1, 51kDa [Source:HGNC Symbol;Acc:7716]
5354	ENSG00000144395	109.5466471	-1.2163197	0.316369579	0.00042203	CCDC150	coiled-coil domain containing 150 [Source:HGNC Symbol;Acc:26834]
5355	ENSG00000130382	278.9726193	0.884551257	0.230133264	0.000423621	MLLT1	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, <i>Drosophila</i> ); translocated to, 1 [Source:HGNC Symbol;Acc:7134]
5356	ENSG00000167775	178.9547017	1.010457034	0.262897237	0.000423722	CD320	CD320 molecule [Source:HGNC Symbol;Acc:16692]
5357	ENSG00000213253	11.26302869	-2.175570042	0.566143548	0.000424949	CTC-250I14.1	
5358	ENSG00000135148	2322.998393	-0.303540844	0.079004468	0.000426112	TRAFD1	TRAF-type zinc finger domain containing 1 [Source:HGNC Symbol;Acc:24808]
5359	ENSG00000138095	1246.86711	0.392540694	0.102176544	0.000426525	LRPPRC	leucine-rich pentatricopeptide repeat containing [Source:HGNC Symbol;Acc:15714]
5360	ENSG00000052749	1095.565364	-0.44183883	0.115024871	0.000427389	RRP12	ribosomal RNA processing 12 homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:29100]
5361	ENSG00000186222	200.3154888	0.864893735	0.225181685	0.000427963	BLOC1S4	biogenesis of lysosomal organelles complex-1, subunit 4, cappuccino [Source:HGNC Symbol;Acc:24206]
5362	ENSG00000133101	27.62725662	-1.834602325	0.477808888	0.000430072	CCNA1	cyclin A1 [Source:HGNC Symbol;Acc:1577]
5363	ENSG00000198252	670.3985782	0.527024312	0.137261196	0.000430072	STYX	serine/threonine/tyrosine interacting protein [Source:HGNC Symbol;Acc:11447]
5364	ENSG00000128159	1794.865725	0.4199265	0.109406428	0.000432358	TUBGCP6	tubulin, gamma complex associated protein 6 [Source:HGNC Symbol;Acc:18127]
5365	ENSG00000168214	4685.752926	-0.22708856	0.059185527	0.000434627	RBPJ	recombination signal binding protein for immunoglobulin kappa J region [Source:HGNC Symbol;Acc:5724]
5366	ENSG00000137288	281.9148455	-0.738574079	0.192506291	0.000435024	UQC22	ubiquinol-cytochrome c reductase complex assembly factor 2 [Source:HGNC Symbol;Acc:21237]
5367	ENSG00000257103	1845.431681	0.386539944	0.100771437	0.000436388	LSM14A	LSM14A, SCD6 homolog A ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:24489]
5368	ENSG00000197324	8902.177661	0.306851983	0.080014495	0.000437824	LRP10	low density lipoprotein receptor-related protein 10 [Source:HGNC Symbol;Acc:14553]
5369	ENSG00000068079	703.0197249	-0.501366336	0.130759241	0.000438963	IFI35	interferon-induced protein 35 [Source:HGNC Symbol;Acc:5399]
5370	ENSG00000183813	197.0418792	0.940594657	0.245336706	0.000439556	CCR4	chemokine (C-C motif) receptor 4 [Source:HGNC Symbol;Acc:1605]

5371	ENSG00000160075	2610.237613	0.282844288	0.073776415	0.000439634	SSU72	SSU72 RNA polymerase II CTD phosphatase homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:25016]
5372	ENSG00000244270	18.56213564	2.107324132	0.549685901	0.000439759	RPL32P29	ribosomal protein L32 pseudogene 29 [Source:HGNC Symbol;Acc:35771]
5373	ENSG00000108773	394.8446111	0.65782239	0.17160102	0.000440119	KAT2A	K(lysine) acetyltransferase 2A [Source:HGNC Symbol;Acc:4201]
5374	ENSG00000213622	62.35305081	-1.406823113	0.367021566	0.000440683	AL163952.1	
5375	ENSG00000184779	1703.214645	0.9589929	0.250198572	0.000440876	RPS17	ribosomal protein S17 [Source:HGNC Symbol;Acc:10397]
5376	ENSG00000104936	254.0080864	-0.835716945	0.218043888	0.000441035	DMPK	dystrophia myotonica-protein kinase [Source:HGNC Symbol;Acc:2933]
5377	ENSG00000169905	1807.245606	-0.343547844	0.089661031	0.000443043	TOR1AIP2	torsin A interacting protein 2 [Source:HGNC Symbol;Acc:24055]
5378	ENSG00000234231	443.7378073	0.592809586	0.154720265	0.000443207	AC093616.4	
5379	ENSG00000164366	504.5001808	0.58155807	0.151799789	0.000443858	CCDC127	coiled-coil domain containing 127 [Source:HGNC Symbol;Acc:30520]
5380	ENSG00000185085	316.0610206	0.768286313	0.200545843	0.000443974	INTS5	integrator complex subunit 5 [Source:HGNC Symbol;Acc:29352]
5381	ENSG00000171055	612.5354668	-0.517951859	0.135218214	0.000444771	FEZ2	fasciculation and elongation protein zeta 2 (zygin II) [Source:HGNC Symbol;Acc:3660]
5382	ENSG00000169752	173.9414197	-1.203121367	0.314125972	0.000445464	NRG4	neuregulin 4 [Source:HGNC Symbol;Acc:29862]
5383	ENSG00000230453	11.59217556	-2.142010032	0.559486331	0.000448159	ANKRD18B	ankyrin repeat domain 18B [Source:HGNC Symbol;Acc:23644]
5384	ENSG00000121716	4291.877731	-0.248031791	0.064795183	0.000449159	PILRB	paired immunoglobulin-like type 2 receptor beta [Source:HGNC Symbol;Acc:18297]
5385	ENSG00000187796	329.5292461	-0.742046064	0.19393484	0.000452133	CARD9	caspase recruitment domain family, member 9 [Source:HGNC Symbol;Acc:16391]
5386	ENSG00000120942	273.0903844	0.731573114	0.191278807	0.000454969	UBIAD1	UbiA prenyltransferase domain containing 1 [Source:HGNC Symbol;Acc:30791]
5387	ENSG00000124767	630.5141023	0.496006179	0.129687264	0.000454969	GLO1	glyoxalase I [Source:HGNC Symbol;Acc:4323]
5388	ENSG0000035681	946.3522536	0.474461559	0.12409113	0.000456994	NSMAF	neutral sphingomyelinase (N-SMase) activation associated factor [Source:HGNC Symbol;Acc:8017]
5389	ENSG00000248333	1658.295687	0.447591475	0.117082731	0.000458075	CDK11B	cyclin-dependent kinase 11B [Source:HGNC Symbol;Acc:1729]
5390	ENSG00000196526	332.2872494	-0.838480263	0.219338836	0.00045818	AFAP1	actin filament associated protein 1 [Source:HGNC Symbol;Acc:24017]
5391	ENSG00000242950	354.0550177	-0.657893813	0.172102075	0.00045822	ERVW-1	endogenous retrovirus group W, member 1 [Source:HGNC Symbol;Acc:13525]
5392	ENSG00000157450	1408.448253	-0.434463395	0.113675077	0.000459474	RNF111	ring finger protein 111 [Source:HGNC Symbol;Acc:17384]
5393	ENSG00000171840	674.7347517	-0.522675141	0.136760709	0.000459675	NINJ2	ninjurin 2 [Source:HGNC Symbol;Acc:7825]
5394	ENSG00000131845	282.328034	0.715505121	0.187228027	0.000460059	ZNF304	zinc finger protein 304 [Source:HGNC Symbol;Acc:13505]
5395	ENSG00000225190	2231.286095	-0.420098132	0.1099413	0.000460828	PLEKHM1	pleckstrin homology domain containing, family M (with RUN domain) member 1 [Source:HGNC Symbol;Acc:29017]
5396	ENSG00000185359	2254.714164	-0.294025861	0.076965576	0.000462404	HGS	hepatocyte growth factor-regulated tyrosine kinase substrate [Source:HGNC Symbol;Acc:4897]
5397	ENSG00000153936	420.238425	0.625809903	0.163871361	0.000464791	HS2ST1	heparan sulfate 2-O-sulfotransferase 1 [Source:HGNC Symbol;Acc:5193]
5398	ENSG00000171700	2391.394829	-0.431923614	0.113135716	0.000466899	RGS19	regulator of G-protein signaling 19 [Source:HGNC Symbol;Acc:13735]

5399	ENSG00000007129	417.9393153	0.619947708	0.162387911	0.00046691	CEACAM21	carcinoembryonic antigen-related cell adhesion molecule 21 [Source:HGNC Symbol;Acc:28834]
5400	ENSG00000110066	1895.215282	-0.333569086	0.087441956	0.00047243	SUV420H1	suppressor of variegation 4-20 homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:24283]
5401	ENSG00000256235	24.90621022	1.899628396	0.498052837	0.000473483	SMIM3	small integral membrane protein 3 [Source:HGNC Symbol;Acc:30248]
5402	ENSG00000166275	380.6055468	0.642964354	0.168575312	0.000473483	C10orf32	chromosome 10 open reading frame 32 [Source:HGNC Symbol;Acc:23516]
5403	ENSG00000175538	2058.303832	-0.311461297	0.08166309	0.000473642	KCNE3	potassium voltage-gated channel, Isk-related family, member 3 [Source:HGNC Symbol;Acc:6243]
5404	ENSG00000136240	1051.296223	-0.423460148	0.111051671	0.000475086	KDELR2	KDEL (Lys-Asp-Glu-Leu) endoplasmic reticulum protein retention receptor 2 [Source:HGNC Symbol;Acc:6305]
5405	ENSG00000267241	17.20634704	-2.052798911	0.538428505	0.000476165	CYP4F10P	cytochrome P450, family 4, subfamily F, polypeptide 10, pseudogene [Source:HGNC Symbol;Acc:39943]
5406	ENSG00000145022	748.9093176	0.508707253	0.13344129	0.000476766	TCTA	T-cell leukemia translocation altered [Source:HGNC Symbol;Acc:11692]
5407	ENSG00000100350	113.1198629	-1.160082877	0.304394388	0.000478804	FOXRED2	FAD-dependent oxidoreductase domain containing 2 [Source:HGNC Symbol;Acc:26264]
5408	ENSG00000262676	380.6784524	-0.639798396	0.167900376	0.000479751	SLC37A4	solute carrier family 37 (glucose-6-phosphate transporter), member 4 [Source:HGNC Symbol;Acc:4061]
5409	ENSG00000144848	2482.527767	-0.283277472	0.074342741	0.000479969	ATG3	autophagy related 3 [Source:HGNC Symbol;Acc:20962]
5410	ENSG00000101452	307.4797478	-0.777549281	0.204142781	0.000482947	DHX35	DEAH (Asp-Glu-Ala-His) box polypeptide 35 [Source:HGNC Symbol;Acc:15861]
5411	ENSG00000095585	256.3475556	2.050878922	0.538658814	0.000485736	BLNK	B-cell linker [Source:HGNC Symbol;Acc:14211]
5412	ENSG00000175573	810.2609191	0.437913557	0.11502103	0.000485907	C11orf68	chromosome 11 open reading frame 68 [Source:HGNC Symbol;Acc:28801]
5413	ENSG00000114739	120.8455065	1.079969116	0.283666218	0.000485945	ACVR2B	activin A receptor, type IIB [Source:HGNC Symbol;Acc:174]
5414	ENSG00000149636	524.8215867	-0.566760981	0.149022393	0.000493749	DSN1	DSN1, MIS12 kinetochore complex component [Source:HGNC Symbol;Acc:16165]
5415	ENSG00000152463	26.53012874	-1.890049544	0.497185612	0.000497051	OLAH	oleoyl-ACP hydrolase [Source:HGNC Symbol;Acc:25625]
5416	ENSG00000179152	482.4201546	-0.575021775	0.151322091	0.0005	TCAIM	T cell activation inhibitor, mitochondrial [Source:HGNC Symbol;Acc:25241]
5417	ENSG00000139433	1440.570831	-0.357007508	0.09396515	0.00050117	GLTP	glycolipid transfer protein [Source:HGNC Symbol;Acc:24867]
5418	ENSG00000186314	36.17332771	-1.711575885	0.450499795	0.000501236	PRELID2	PRELI domain containing 2 [Source:HGNC Symbol;Acc:28306]
5419	ENSG00000174428	852.4755157	-0.441793861	0.116401155	0.000508898	GTF2IRD2B	GTF2I repeat domain containing 2B [Source:HGNC Symbol;Acc:33125]
5420	ENSG00000173950	176.4781572	-0.970454479	0.255690325	0.000508898	XYLT1	xyloside xylosyltransferase 1 [Source:HGNC Symbol;Acc:26639]
5421	ENSG00000115756	1327.485614	0.398628847	0.105032803	0.000509111	HPCAL1	hippocalcin-like 1 [Source:HGNC Symbol;Acc:5145]
5422	ENSG00000102882	2166.03247	-0.312169571	0.082260496	0.000509816	MAPK3	mitogen-activated protein kinase 3 [Source:HGNC Symbol;Acc:6877]
5423	ENSG00000131355	2931.304308	0.282128855	0.074359345	0.000511291	EMR3	egf-like module containing, mucin-like, hormone receptor-like 3 [Source:HGNC Symbol;Acc:23647]
5424	ENSG00000225422	150.9588503	-1.027409134	0.270825538	0.000512207	RBMS1P1	RNA binding motif, single stranded interacting protein 1 pseudogene 1 [Source:HGNC Symbol;Acc:9908]
5425	ENSG00000236353	896.5538721	-0.466207166	0.122893344	0.000512207	PBX2	pre-B-cell leukemia homeobox 2 [Source:HGNC Symbol;Acc:8633]
5426	ENSG00000188487	35.29634992	-1.76851267	0.466241417	0.000513074	INSC	inscuteable homolog (Drosophila) [Source:HGNC Symbol;Acc:33116]



5427	ENSG00000145358	13.23334083	2.11820832	0.558557074	0.000514718	DDIT4L	DNA-damage-inducible transcript 4-like [Source:HGNC Symbol;Acc:30555]
5428	ENSG00000066084	1715.348636	0.351832486	0.092793495	0.000516123	DIP2B	DIP2 disco-interacting protein 2 homolog B (Drosophila) [Source:HGNC Symbol;Acc:29284]
5429	ENSG00000222047	51.00286287	-1.466133669	0.386778711	0.000517979	C10orf55	chromosome 10 open reading frame 55 [Source:HGNC Symbol;Acc:31008]
5430	ENSG00000225987	246.5401695	-0.763673927	0.201482606	0.000518623	PBX2	pre-B-cell leukemia homeobox 2 [Source:HGNC Symbol;Acc:8633]
5431	ENSG00000128928	945.2268265	-0.447443636	0.118072798	0.000520022	IVD	isovaleryl-CoA dehydrogenase [Source:HGNC Symbol;Acc:6186]
5432	ENSG00000196998	1340.472355	0.371180267	0.097960404	0.000520826	WDR45	WD repeat domain 45 [Source:HGNC Symbol;Acc:28912]
5433	ENSG00000148848	43.39791141	1.686840371	0.445184415	0.000520826	ADAM12	ADAM metalloproteinase domain 12 [Source:HGNC Symbol;Acc:190]
5434	ENSG00000135749	316.9614862	0.780458653	0.206026836	0.000522707	PCNXL2	pecanex-like 2 (Drosophila) [Source:HGNC Symbol;Acc:8736]
5435	ENSG00000133302	393.1476097	-0.684902603	0.180818434	0.000523327	ANKRD32	ankyrin repeat domain 32 [Source:HGNC Symbol;Acc:25408]
5436	ENSG00000155465	1200.154496	0.455886478	0.12035797	0.000523327	SLC7A7	solute carrier family 7 (amino acid transporter light chain, y+L system), member 7 [Source:HGNC Symbol;Acc:11065]
5437	ENSG00000178974	597.1049789	0.507056031	0.13387268	0.000523559	FBXO34	F-box protein 34 [Source:HGNC Symbol;Acc:20201]
5438	ENSG00000130202	169.0679584	0.967442177	0.255431817	0.000523719	PVRL2	poliovirus receptor-related 2 (herpesvirus entry mediator B) [Source:HGNC Symbol;Acc:9707]
5439	ENSG00000100068	335.6244944	-0.656160322	0.173299944	0.000526172	LRP5L	low density lipoprotein receptor-related protein 5-like [Source:HGNC Symbol;Acc:25323]
5440	ENSG00000169692	539.9493845	-0.592459666	0.156516812	0.000528178	AGPAT2	1-acylglycerol-3-phosphate O-acyltransferase 2 [Source:HGNC Symbol;Acc:325]
5441	ENSG00000112033	651.6394921	0.544233782	0.143794169	0.000529073	PPARD	peroxisome proliferator-activated receptor delta [Source:HGNC Symbol;Acc:9235]
5442	ENSG00000179195	998.5765687	0.519079016	0.137151545	0.000529188	ZNF664	zinc finger protein 664 [Source:HGNC Symbol;Acc:25406]
5443	ENSG00000198087	431.8408157	0.588741635	0.155564412	0.00052943	CD2AP	CD2-associated protein [Source:HGNC Symbol;Acc:14258]
5444	ENSG00000138443	438.9186556	0.592028695	0.156442463	0.000529822	ABI2	abl-interactor 2 [Source:HGNC Symbol;Acc:24011]
5445	ENSG00000132382	422.0341058	0.647856314	0.171209891	0.000530435	MYBBP1A	MYB binding protein (P160) 1a [Source:HGNC Symbol;Acc:7546]
5446	ENSG00000168795	328.8901694	0.676313975	0.17878217	0.000532677	ZBTB5	zinc finger and BTB domain containing 5 [Source:HGNC Symbol;Acc:23836]
5447	ENSG00000162004	57.87267873	1.638218476	0.433197078	0.000535155	CCDC78	coiled-coil domain containing 78 [Source:HGNC Symbol;Acc:14153]
5448	ENSG00000137076	15503.47174	-0.229485243	0.060698795	0.00053715	TLN1	talin 1 [Source:HGNC Symbol;Acc:11845]
5449	ENSG00000126746	2175.783633	-0.295989509	0.078292736	0.000537424	ZNF384	zinc finger protein 384 [Source:HGNC Symbol;Acc:11955]
5450	ENSG00000165905	64.18314247	1.497360152	0.396193719	0.000539889	GYLTL1B	glycosyltransferase-like 1B [Source:HGNC Symbol;Acc:16522]
5451	ENSG00000198039	251.7811315	-0.768194143	0.203263967	0.000539943	ZNF273	zinc finger protein 273 [Source:HGNC Symbol;Acc:13067]
5452	ENSG00000139651	970.3559015	0.541230588	0.143286938	0.00054429	ZNF740	zinc finger protein 740 [Source:HGNC Symbol;Acc:27465]
5453	ENSG00000227051	158.6524689	-1.09822306	0.290785601	0.000545295	C14orf132	chromosome 14 open reading frame 132 [Source:HGNC Symbol;Acc:20346]
5454	ENSG00000133275	1638.684928	1.111793559	0.294482764	0.00054812	CSNK1G2	casein kinase 1, gamma 2 [Source:HGNC Symbol;Acc:2455]

5455	ENSG00000237651	50.05650176	1.549401023	0.410457603	0.000549335	C2orf74	chromosome 2 open reading frame 74 [Source:HGNC Symbol;Acc:34439]
5456	ENSG00000250021	294.1281574	-0.687019774	0.182005949	0.000549448	C15orf38-AP3S2	C15orf38-AP3S2 readthrough [Source:HGNC Symbol;Acc:38824]
5457	ENSG00000256771	190.1851281	0.96856003	0.256594568	0.000549448	ZNF253	zinc finger protein 253 [Source:HGNC Symbol;Acc:13497]
5458	ENSG00000144406	394.5398148	-0.606467707	0.160775747	0.000554964	UNC80	unc-80 homolog (C. elegans) [Source:HGNC Symbol;Acc:26582]
5459	ENSG00000152944	386.5011909	-0.629070392	0.166776408	0.000555298	MED21	mediator complex subunit 21 [Source:HGNC Symbol;Acc:11473]
5460	ENSG00000140374	962.8128114	-0.44122251	0.117001122	0.000557074	ETFA	electron-transfer-flavoprotein, alpha polypeptide [Source:HGNC Symbol;Acc:3481]
5461	ENSG00000143363	661.9104193	0.517798803	0.137313471	0.000557354	PRUNE	prune exopolyphosphatase [Source:HGNC Symbol;Acc:13420]
5462	ENSG00000197256	145.0078076	-0.960331004	0.254707048	0.00055857	KANK2	KN motif and ankyrin repeat domains 2 [Source:HGNC Symbol;Acc:29300]
5463	ENSG00000162398	17.94558846	2.013828512	0.534148408	0.000558846	C1orf177	chromosome 1 open reading frame 177 [Source:HGNC Symbol;Acc:26854]
5464	ENSG00000187866	569.458925	0.531206685	0.140900255	0.000558915	FAM122A	family with sequence similarity 122A [Source:HGNC Symbol;Acc:23490]
5465	ENSG0000055130	951.3160819	0.422157515	0.111995748	0.000560345	CUL1	cullin 1 [Source:HGNC Symbol;Acc:2551]
5466	ENSG00000225828	549.1125496	-0.586233927	0.155537203	0.000560951	FAM229A	family with sequence similarity 229, member A [Source:HGNC Symbol;Acc:44652]
5467	ENSG00000188878	150.262733	1.023300206	0.271518453	0.000561491	FBF1	Fas (TNFRSF6) binding factor 1 [Source:HGNC Symbol;Acc:24674]
5468	ENSG00000105655	169.3626543	0.927190232	0.246021329	0.000561537	ISYNA1	inositol-3-phosphate synthase 1 [Source:HGNC Symbol;Acc:29821]
5469	ENSG00000158161	913.6076713	-0.484660612	0.128617735	0.000562591	EYA3	eyes absent homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:3521]
5470	ENSG00000169704	21.03360906	1.951155618	0.517810123	0.000562791	GP9	glycoprotein IX (platelet) [Source:HGNC Symbol;Acc:4444]
5471	ENSG00000149970	40.73032625	1.706889966	0.453034747	0.000563615	CNKSR2	connector enhancer of kinase suppressor of Ras 2 [Source:HGNC Symbol;Acc:19701]
5472	ENSG00000175414	353.7168883	0.786512	0.20875766	0.000563729	ARL10	ADP-ribosylation factor-like 10 [Source:HGNC Symbol;Acc:22042]
5473	ENSG0000049323	172.6408693	-1.008860689	0.267821931	0.000565153	LTFP1	latent transforming growth factor beta binding protein 1 [Source:HGNC Symbol;Acc:6714]
5474	ENSG00000110237	728.1941676	-0.479829542	0.127383169	0.000565248	ARHGEF17	Rho guanine nucleotide exchange factor (GEF) 17 [Source:HGNC Symbol;Acc:21726]
5475	ENSG00000161642	368.3924065	0.674795097	0.179160349	0.000566027	ZNF385A	zinc finger protein 385A [Source:HGNC Symbol;Acc:17521]
5476	ENSG00000171703	158.8289359	0.956996328	0.254173187	0.000568867	TCEA2	transcription elongation factor A (SII), 2 [Source:HGNC Symbol;Acc:11614]
5477	ENSG00000146416	309.4845574	-0.701020079	0.186283795	0.000573222	AIG1	androgen-induced 1 [Source:HGNC Symbol;Acc:21607]
5478	ENSG0000003400	2694.889296	-0.280552281	0.074559057	0.000573952	CASP10	caspace 10, apoptosis-related cysteine peptidase [Source:HGNC Symbol;Acc:1500]
5479	ENSG00000151694	1391.216352	0.354421985	0.094211455	0.000575768	ADAM17	ADAM metallopeptidase domain 17 [Source:HGNC Symbol;Acc:195]
5480	ENSG00000104518	1278.684743	0.458428634	0.121870548	0.000576541	GSDMD	gasdermin D [Source:HGNC Symbol;Acc:25697]
5481	ENSG00000143412	848.1137176	-0.441371789	0.117350339	0.00057749	ANXA9	annexin A9 [Source:HGNC Symbol;Acc:547]
5482	ENSG00000140093	79.05744764	-1.229300222	0.326967576	0.000580731	SERPINA10	serpin peptidase inhibitor, clade A (alpha-1 antiproteinase, antitrypsin), member 10 [Source:HGNC Symbol;Acc:15996]

5483	ENSG00000169599	420.3276938	-0.568119958	0.151172237	0.000584357	NFU1	NFU1 iron-sulfur cluster scaffold homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:16287]
5484	ENSG00000148450	736.6401105	-0.488495002	0.130002965	0.000585487	MSRB2	methionine sulfoxide reductase B2 [Source:HGNC Symbol;Acc:17061]
5485	ENSG00000168264	5241.024418	-0.243908382	0.064917622	0.000586246	IRF2BP2	interferon regulatory factor 2 binding protein 2 [Source:HGNC Symbol;Acc:21729]
5486	ENSG00000263965	18.36464448	-1.98001699	0.527026061	0.000586692	HIST2H2AB	histone cluster 2, H2ab [Source:HGNC Symbol;Acc:20508]
5487	ENSG00000196659	74.58562683	1.312514585	0.349425904	0.000588367	TTC30B	tetratricopeptide repeat domain 30B [Source:HGNC Symbol;Acc:26425]
5488	ENSG00000243646	2621.813714	-0.270564371	0.072052493	0.000590854	IL10RB	interleukin 10 receptor, beta [Source:HGNC Symbol;Acc:5965]
5489	ENSG00000182158	958.8914632	-0.411594517	0.109653052	0.000594279	CREB3L2	cAMP responsive element binding protein 3-like 2 [Source:HGNC Symbol;Acc:23720]
5490	ENSG00000065413	1861.273555	0.378987144	0.100974089	0.000594874	ANKRD44	ankyrin repeat domain 44 [Source:HGNC Symbol;Acc:25259]
5491	ENSG00000183092	27.06035161	-1.814791069	0.483552616	0.000595415	BEGAIN	brain-enriched guanylate kinase-associated [Source:HGNC Symbol;Acc:24163]
5492	ENSG00000148834	1118.122975	-0.369268381	0.098402703	0.000596289	GSTO1	glutathione S-transferase omega 1 [Source:HGNC Symbol;Acc:13312]
5493	ENSG00000235107	161.0420871	0.956107757	0.25487398	0.00059924	RING1	ring finger protein 1 [Source:HGNC Symbol;Acc:10018]
5494	ENSG00000206287	161.0420277	0.956105574	0.254873422	0.00059924	RING1	ring finger protein 1 [Source:HGNC Symbol;Acc:10018]
5495	ENSG00000177602	48.13109251	-1.560454464	0.41607537	0.000601244	GSG2	germ cell associated 2 (haspin) [Source:HGNC Symbol;Acc:19682]
5496	ENSG00000071994	884.4332684	0.422591609	0.11268651	0.000601759	PDCD2	programmed cell death 2 [Source:HGNC Symbol;Acc:8762]
5497	ENSG00000115207	1417.336066	-0.400782476	0.106874925	0.000601982	GTF3C2	general transcription factor IIIC, polypeptide 2, beta 110kDa [Source:HGNC Symbol;Acc:4665]
5498	ENSG00000244720	45.29426786	1.561941344	0.416694664	0.000605704	RP11-402J7.2	
5499	ENSG00000164190	3210.369448	-0.264253215	0.070498038	0.000605704	NIPBL	Nipped-B homolog ( <i>Drosophila</i> ) [Source:HGNC Symbol;Acc:28862]
5500	ENSG00000172954	617.9555471	-0.488852237	0.130419961	0.000605716	LCLAT1	lysocardiolipin acyltransferase 1 [Source:HGNC Symbol;Acc:26756]
5501	ENSG00000235941	3198.028295	-0.756142538	0.201730491	0.000605716	HSPA1A	heat shock 70kDa protein 1A [Source:HGNC Symbol;Acc:5232]
5502	ENSG00000114026	754.138549	-0.458266189	0.122284535	0.000607397	OGG1	8-oxoguanine DNA glycosylase [Source:HGNC Symbol;Acc:8125]
5503	ENSG00000101928	208.9167639	-0.822557427	0.219506889	0.000607876	MOSPD1	motile sperm domain containing 1 [Source:HGNC Symbol;Acc:25235]
5504	ENSG00000122678	710.9987969	0.482138034	0.128668778	0.00060818	POLM	polymerase (DNA directed), mu [Source:HGNC Symbol;Acc:9185]
5505	ENSG00000171291	465.8772701	0.551950542	0.147375467	0.000612753	ZNF439	zinc finger protein 439 [Source:HGNC Symbol;Acc:20873]
5506	ENSG00000151748	258.1969291	0.811788665	0.216773944	0.000613464	SAV1	salvador homolog 1 ( <i>Drosophila</i> ) [Source:HGNC Symbol;Acc:17795]
5507	ENSG00000072786	9333.279702	-0.196719152	0.052537467	0.000614584	STK10	serine/threonine kinase 10 [Source:HGNC Symbol;Acc:11388]
5508	ENSG00000147679	317.110983	0.743681642	0.198654838	0.000616366	UTP23	UTP23, small subunit (SSU) processome component, homolog (yeast) [Source:HGNC Symbol;Acc:28224]
5509	ENSG00000101966	1345.618261	0.408371137	0.109099687	0.000617447	XIAP	X-linked inhibitor of apoptosis [Source:HGNC Symbol;Acc:592]
5510	ENSG00000102908	3222.192188	0.282275173	0.075414263	0.000617523	NFAT5	nuclear factor of activated T-cells 5, tonicity-responsive [Source:HGNC Symbol;Acc:7774]

5511	ENSG00000133055	134.6509998	1.013308962	0.270722588	0.000617523	MYBPH	myosin binding protein H [Source:HGNC Symbol;Acc:7552]
5512	ENSG00000142252	498.8555987	-0.572838138	0.153047572	0.000617663	GEMIN7	gem (nuclear organelle) associated protein 7 [Source:HGNC Symbol;Acc:20045]
5513	ENSG00000136897	310.1329812	0.693149564	0.185226538	0.000619285	MRPL50	mitochondrial ribosomal protein L50 [Source:HGNC Symbol;Acc:16654]
5514	ENSG00000224305	20.8140414	1.976169871	0.528128061	0.000619884	HLA-DQB2	major histocompatibility complex, class II, DQ beta 2 [Source:HGNC Symbol;Acc:4945]
5515	ENSG00000230675	20.81404061	1.976169651	0.528128071	0.000619884	HLA-DQB2	major histocompatibility complex, class II, DQ beta 2 [Source:HGNC Symbol;Acc:4945]
5516	ENSG00000182218	176.5611479	-0.886376546	0.236948536	0.000622343	HHIPL1	HHIP-like 1 [Source:HGNC Symbol;Acc:19710]
5517	ENSG00000233614	50.13763806	1.491489005	0.398716886	0.000622418	DDX11L10	DEAD/H (Asp-Glu-Ala-Asp/His) box helicase 11 like 10 [Source:HGNC Symbol;Acc:14125]
5518	ENSG00000186501	839.3257021	0.480345986	0.128427628	0.00062358	TMEM222	transmembrane protein 222 [Source:HGNC Symbol;Acc:25363]
5519	ENSG00000005175	529.4694386	0.56831884	0.151955951	0.000623923	RPAP3	RNA polymerase II associated protein 3 [Source:HGNC Symbol;Acc:26151]
5520	ENSG00000163904	1121.235706	-0.480697565	0.128542322	0.000624849	SEN2	SUMO1/sentrin/SMT3 specific peptidase 2 [Source:HGNC Symbol;Acc:23116]
5521	ENSG0000011405	768.1347771	0.462828636	0.123786692	0.000626439	PIK3C2A	phosphatidylinositol-4-phosphate 3-kinase, catalytic subunit type 2 alpha [Source:HGNC Symbol;Acc:8971]
5522	ENSG00000132953	663.1806308	0.534197485	0.142881531	0.000626766	XPO4	exportin 4 [Source:HGNC Symbol;Acc:17796]
5523	ENSG00000143751	422.0683447	0.601294903	0.160868372	0.000628993	SDE2	SDE2 telomere maintenance homolog ( <i>S. pombe</i> ) [Source:HGNC Symbol;Acc:26643]
5524	ENSG00000070831	11998.15308	-0.191782316	0.051320835	0.000631078	CDC42	cell division cycle 42 [Source:HGNC Symbol;Acc:1736]
5525	ENSG00000108771	316.0997969	0.725222275	0.194077356	0.000631364	DHX58	DEXH (Asp-Glu-X-His) box polypeptide 58 [Source:HGNC Symbol;Acc:29517]
5526	ENSG00000108424	6864.426436	-0.270083544	0.072287092	0.000632523	KPNB1	karyopherin (importin) beta 1 [Source:HGNC Symbol;Acc:6400]
5527	ENSG00000132005	302.3565316	0.717582383	0.192080718	0.000633477	RFX1	regulatory factor X, 1 (influences HLA class II expression) [Source:HGNC Symbol;Acc:9982]
5528	ENSG00000196204	350.2094975	0.659250159	0.176472274	0.000633671	RNF216P1	ring finger protein 216 pseudogene 1 [Source:HGNC Symbol;Acc:33610]
5529	ENSG00000176659	258.8935339	-0.764280912	0.204616549	0.000634889	C20orf197	chromosome 20 open reading frame 197 [Source:HGNC Symbol;Acc:26601]
5530	ENSG00000115590	1798.847912	0.337778097	0.090450016	0.000636717	IL1R2	interleukin 1 receptor, type II [Source:HGNC Symbol;Acc:5994]
5531	ENSG00000179840	59.41978234	-1.365819502	0.365765229	0.000637297	C1orf200	chromosome 1 open reading frame 200 [Source:HGNC Symbol;Acc:32346]
5532	ENSG00000104870	6653.282955	0.218077421	0.058412664	0.000639082	FCGRT	Fc fragment of IgG, receptor, transporter, alpha [Source:HGNC Symbol;Acc:3621]
5533	ENSG00000160678	72.42114052	1.342052973	0.359482046	0.000639212	S100A1	S100 calcium binding protein A1 [Source:HGNC Symbol;Acc:10486]
5534	ENSG00000183943	784.8698614	0.534776419	0.143283791	0.00064166	PRKX	protein kinase, X-linked [Source:HGNC Symbol;Acc:9441]
5535	ENSG00000113645	19.3725223	2.030524832	0.54408271	0.000642241	WWC1	WW and C2 domain containing 1 [Source:HGNC Symbol;Acc:29435]
5536	ENSG00000185246	1061.290772	0.432645598	0.115943919	0.00064342	PRPF39	pre-mRNA processing factor 39 [Source:HGNC Symbol;Acc:20314]
5537	ENSG00000228978	124.2421212	-1.272139405	0.340979873	0.000644947	TNF	tumor necrosis factor [Source:HGNC Symbol;Acc:11892]
5538	ENSG00000101138	449.8172717	0.565310818	0.151524577	0.000644947	CSTF1	cleavage stimulation factor, 3' pre-RNA, subunit 1, 50kDa [Source:HGNC Symbol;Acc:2483]

5539	ENSG00000149177	2669.79462	-0.283421589	0.076009186	0.000650069	PTPRJ	protein tyrosine phosphatase, receptor type, J [Source:HGNC Symbol;Acc:9673]
5540	ENSG00000198464	395.2647727	0.614297268	0.164751141	0.000650321	ZNF480	zinc finger protein 480 [Source:HGNC Symbol;Acc:23305]
5541	ENSG00000147408	2130.826647	-0.306536558	0.082218744	0.000651062	CSGALNACT1	chondroitin sulfate N-acetylgalactosaminyltransferase 1 [Source:HGNC Symbol;Acc:24290]
5542	ENSG00000170113	235.9364131	0.827613609	0.222013666	0.000652354	NIPA1	non imprinted in Prader-Willi/Angelman syndrome 1 [Source:HGNC Symbol;Acc:17043]
5543	ENSG00000100979	74.24268034	-1.226571797	0.329098808	0.000654043	PLTP	phospholipid transfer protein [Source:HGNC Symbol;Acc:9093]
5544	ENSG00000204389	11.05386707	-2.110571239	0.566364698	0.000655325	HSPA1A	heat shock 70kDa protein 1A [Source:HGNC Symbol;Acc:5232]
5545	ENSG00000189409	22.1786549	1.941144933	0.520978192	0.000656666	MMP23B	matrix metalloproteinase 23B [Source:HGNC Symbol;Acc:7171]
5546	ENSG00000155368	1093.353545	0.412641253	0.110755704	0.00065726	DBI	diazepam binding inhibitor (GABA receptor modulator, acyl-CoA binding protein) [Source:HGNC Symbol;Acc:2690]
5547	ENSG00000235655	17054.69378	0.185100631	0.04968402	0.000657485	H3F3AP4	H3 histone, family 3A, pseudogene 4 [Source:HGNC Symbol;Acc:42980]
5548	ENSG00000196664	167.0467232	1.040583706	0.279325605	0.000657924	TLR7	toll-like receptor 7 [Source:HGNC Symbol;Acc:15631]
5549	ENSG00000107864	281.6271128	-0.759517786	0.203906299	0.000659126	CPEB3	cytoplasmic polyadenylation element binding protein 3 [Source:HGNC Symbol;Acc:21746]
5550	ENSG00000167676	466.0865422	-0.656708528	0.176378096	0.000663035	PLIN4	perilipin 4 [Source:HGNC Symbol;Acc:29393]
5551	ENSG00000185513	455.943455	-0.58110329	0.156093113	0.000664232	L3MBTL1	l(3)mbt-like 1 (Drosophila) [Source:HGNC Symbol;Acc:15905]
5552	ENSG00000102931	814.1636067	0.435376986	0.116971275	0.000665994	ARL2BP	ADP-ribosylation factor-like 2 binding protein [Source:HGNC Symbol;Acc:17146]
5553	ENSG00000145495	6088.784015	-0.230717351	0.062012774	0.000670117	MARCH6	membrane-associated ring finger (C3HC4) 6, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:30550]
5554	ENSG00000196646	363.7368055	0.628926275	0.169087569	0.000672524	ZNF136	zinc finger protein 136 [Source:HGNC Symbol;Acc:12920]
5555	ENSG00000126062	447.0280753	0.653676772	0.175970059	0.000685365	TMEM115	transmembrane protein 115 [Source:HGNC Symbol;Acc:30055]
5556	ENSG00000177105	6138.048787	-0.231588969	0.062347758	0.000685873	RHOG	ras homolog family member G [Source:HGNC Symbol;Acc:672]
5557	ENSG00000259898	16.87277919	-2.104990784	0.566870722	0.00068879	CYP4F33P	cytochrome P450, family 4, subfamily F, polypeptide 33, pseudogene [Source:HGNC Symbol;Acc:39952]
5558	ENSG00000221926	204.8928866	-0.825546116	0.222334174	0.000689389	TRIM16	tripartite motif containing 16 [Source:HGNC Symbol;Acc:17241]
5559	ENSG00000140718	270.4032338	0.79952273	0.215363195	0.000691033	FTO	fat mass and obesity associated [Source:HGNC Symbol;Acc:24678]
5560	ENSG00000225989	281.9513794	0.709875722	0.191225486	0.00069144	ABCF1	ATP-binding cassette, sub-family F (GCN20), member 1 [Source:HGNC Symbol;Acc:70]
5561	ENSG00000099308	4164.688046	0.26135701	0.070472125	0.00070118	MAST3	microtubule associated serine/threonine kinase 3 [Source:HGNC Symbol;Acc:19036]
5562	ENSG00000162129	201.250911	-0.883695046	0.238291469	0.000701594	CLPB	ClpB caseinolytic peptidase B homolog (E. coli) [Source:HGNC Symbol;Acc:30664]
5563	ENSG00000124459	304.0601642	0.69102317	0.186341487	0.000701725	ZNF45	zinc finger protein 45 [Source:HGNC Symbol;Acc:13111]
5564	ENSG00000110075	2965.842459	-0.302984097	0.08170549	0.000701941	PPP6R3	protein phosphatase 6, regulatory subunit 3 [Source:HGNC Symbol;Acc:1173]
5565	ENSG00000085224	1971.144889	0.335590605	0.090501027	0.000702106	ATRX	alpha thalassemia/mental retardation syndrome X-linked [Source:HGNC Symbol;Acc:886]
5566	ENSG00000174373	660.4180025	0.483355213	0.130369349	0.000703529	RALGAPA1	Ral GTPase activating protein, alpha subunit 1 (catalytic) [Source:HGNC Symbol;Acc:17770]

5567	ENSG00000196262	8557.182202	0.191370103	0.05162391	0.000705009	PPIA	peptidylprolyl isomerase A (cyclophilin A) [Source:HGNC Symbol;Acc:9253]
5568	ENSG00000197976	2868.300649	0.324429603	0.087552627	0.000708975	AKAP17A	A kinase (PRKA) anchor protein 17A [Source:HGNC Symbol;Acc:18783]
5569	ENSG00000176340	1214.17729	-0.414071059	0.111746981	0.00070914	COX8A	cytochrome c oxidase subunit VIIIa (ubiquitous) [Source:HGNC Symbol;Acc:2294]
5570	ENSG00000182149	5214.572652	-0.214290283	0.05783404	0.000709493	IST1	increased sodium tolerance 1 homolog (yeast) [Source:HGNC Symbol;Acc:28977]
5571	ENSG00000072210	680.209133	-0.506867612	0.136804548	0.000709961	ALDH3A2	aldehyde dehydrogenase 3 family, member A2 [Source:HGNC Symbol;Acc:403]
5572	ENSG00000006015	301.8579198	0.87348038	0.235781318	0.000711035	C19orf60	chromosome 19 open reading frame 60 [Source:HGNC Symbol;Acc:26098]
5573	ENSG00000177683	539.4185892	0.593011261	0.16007606	0.000711108	THAP5	THAP domain containing 5 [Source:HGNC Symbol;Acc:23188]
5574	ENSG00000164236	22.58658035	-1.903327487	0.513876806	0.000712871	ANKRD33B	ankyrin repeat domain 33B [Source:HGNC Symbol;Acc:35240]
5575	ENSG00000273266	18.56667207	2.055498642	0.554965614	0.000712871	HOXC4	Homeobox protein Hox-C4 [Source:UniProtKB/Swiss-Prot;Acc:P09017]
5576	ENSG00000075275	59.08874844	1.405129306	0.379387667	0.000713176	CELSR1	cadherin, EGF LAG seven-pass G-type receptor 1 [Source:HGNC Symbol;Acc:1850]
5577	ENSG00000115827	437.9064969	0.605509831	0.163532949	0.000715862	DCAF17	DDB1 and CUL4 associated factor 17 [Source:HGNC Symbol;Acc:25784]
5578	ENSG00000105552	137.7907827	0.964932601	0.260652604	0.000717686	BCAT2	branched chain amino-acid transaminase 2, mitochondrial [Source:HGNC Symbol;Acc:977]
5579	ENSG00000129250	1088.285278	-0.413730418	0.111770309	0.000718617	KIF1C	kinesin family member 1C [Source:HGNC Symbol;Acc:6317]
5580	ENSG00000205236	354.1506728	0.661850653	0.178855967	0.000721739	RP11-514P8.6	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:E5RIL1]
5581	ENSG00000101444	720.9856995	-0.478466587	0.129315658	0.000722297	AHCY	adenosylhomocysteinase [Source:HGNC Symbol;Acc:343]
5582	ENSG00000159658	2612.489174	0.280838103	0.075922807	0.000725678	EFCAB14	EF-hand calcium binding domain 14 [Source:HGNC Symbol;Acc:29051]
5583	ENSG00000129255	646.4563627	-0.481249353	0.130107563	0.000725941	MPDU1	mannose-P-dolichol utilization defect 1 [Source:HGNC Symbol;Acc:7207]
5584	ENSG00000237008	6.849222933	-2.04546649	0.553100939	0.000727753	AL591704.5	
5585	ENSG00000114388	1167.91453	0.430136291	0.116340739	0.000730402	NPRL2	nitrogen permease regulator-like 2 ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:24969]
5586	ENSG00000157540	2823.776992	0.299202521	0.08094313	0.000732321	DYRK1A	dual-specificity tyrosine-(Y)-phosphorylation regulated kinase 1A [Source:HGNC Symbol;Acc:3091]
5587	ENSG00000175938	1056.961391	-0.377335325	0.102080916	0.000732321	ORAI3	ORAI calcium release-activated calcium modulator 3 [Source:HGNC Symbol;Acc:28185]
5588	ENSG00000120949	215.6476715	0.846923329	0.229120597	0.000732321	TNFRSF8	tumor necrosis factor receptor superfamily, member 8 [Source:HGNC Symbol;Acc:11923]
5589	ENSG00000139726	1382.109249	0.364466692	0.098606076	0.000732823	DENR	density-regulated protein [Source:HGNC Symbol;Acc:2769]
5590	ENSG00000214491	70.45242314	-1.272684136	0.34432917	0.000732872	SEC14L6	SEC14-like 6 ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:40047]
5591	ENSG00000176393	1887.299379	-0.328786421	0.088964408	0.000733951	RNPEP	arginyl aminopeptidase (aminopeptidase B) [Source:HGNC Symbol;Acc:10078]
5592	ENSG00000198265	2293.44761	-0.376095365	0.101774747	0.000734794	HELZ	helicase with zinc finger [Source:HGNC Symbol;Acc:16878]
5593	ENSG00000229689	81.02757479	-1.253650922	0.33929833	0.000736216	AC009237.8	
5594	ENSG00000260508	1900.745817	-0.301160708	0.081518266	0.000737355	GGNBP2	gametogenetin binding protein 2 [Source:HGNC Symbol;Acc:19357]

5595	ENSG00000115594	1168.327225	-0.397811216	0.10769119	0.000738372	IL1R1	interleukin 1 receptor, type I [Source:HGNC Symbol;Acc:5993]
5596	ENSG00000198742	790.2110895	-0.429409331	0.116265626	0.000740138	SMURF1	SMAD specific E3 ubiquitin protein ligase 1 [Source:HGNC Symbol;Acc:16807]
5597	ENSG00000034533	277.6176883	0.731408179	0.198042799	0.000740485	ASTE1	asteroid homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:25021]
5598	ENSG00000113300	1351.72843	-0.352734614	0.095514385	0.000740885	CNOT6	CCR4-NOT transcription complex, subunit 6 [Source:HGNC Symbol;Acc:14099]
5599	ENSG00000196453	118.7998412	1.051823625	0.284909987	0.000744329	ZNF777	zinc finger protein 777 [Source:HGNC Symbol;Acc:22213]
5600	ENSG00000100359	1611.032101	-0.442540463	0.119892982	0.00074609	SGSM3	small G protein signaling modulator 3 [Source:HGNC Symbol;Acc:25228]
5601	ENSG00000117640	1394.869397	-0.347282712	0.094097834	0.000747346	MTFR1L	mitochondrial fission regulator 1-like [Source:HGNC Symbol;Acc:28836]
5602	ENSG00000230869	43.07291182	1.679029948	0.455032106	0.000749391	CTGLF10P	centaurin, gamma-like family, member 10 pseudogene [Source:HGNC Symbol;Acc:23659]
5603	ENSG00000062822	268.524911	-0.848000512	0.230035096	0.000759689	POLD1	polymerase (DNA directed), delta 1, catalytic subunit [Source:HGNC Symbol;Acc:9175]
5604	ENSG00000184270	18.6983671	-1.938317098	0.525839379	0.000760321	HIST2H2AB	histone cluster 2, H2ab [Source:HGNC Symbol;Acc:20508]
5605	ENSG00000183960	46.60010371	1.604372587	0.435639316	0.000770215	KCNH8	potassium voltage-gated channel, subfamily H (eag-related), member 8 [Source:HGNC Symbol;Acc:18864]
5606	ENSG00000179950	455.1407974	0.583049556	0.158358118	0.000772979	PUF60	poly-U binding splicing factor 60kDa [Source:HGNC Symbol;Acc:17042]
5607	ENSG00000198816	39.56757451	1.766436776	0.479920751	0.000776358	ZNF358	zinc finger protein 358 [Source:HGNC Symbol;Acc:16838]
5608	ENSG00000198064	392.1092402	-0.884087009	0.240272983	0.000779801	RP11-347C12.1	Putative NPIP-like protein LOC613037 [Source:UniProtKB/Swiss-Prot;Acc:A6NJU9]
5609	ENSG00000184497	45.65159397	-1.494791142	0.406399807	0.000783895	TMEM255B	transmembrane protein 255B [Source:HGNC Symbol;Acc:28297]
5610	ENSG00000214944	26.44650139	1.89949804	0.516477536	0.000784786	ARHGEF28	Rho guanine nucleotide exchange factor (GEF) 28 [Source:HGNC Symbol;Acc:30322]
5611	ENSG00000141569	385.468911	0.660000222	0.179580236	0.000792542	TRIM65	tripartite motif containing 65 [Source:HGNC Symbol;Acc:27316]
5612	ENSG00000168118	537.423481	-0.569013193	0.154842232	0.000793785	RAB4A	RAB4A, member RAS oncogene family [Source:HGNC Symbol;Acc:9781]
5613	ENSG00000170310	443.5702569	-0.661543826	0.180034613	0.000794441	STX8	syntaxin 8 [Source:HGNC Symbol;Acc:11443]
5614	ENSG00000006634	337.094791	-0.723050212	0.196868144	0.000799832	DBF4	DBF4 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:17364]
5615	ENSG00000060069	509.9414283	0.629275345	0.171340635	0.000800025	CTDP1	CTD (carboxy-terminal domain, RNA polymerase II, polypeptide A) phosphatase, subunit 1 [Source:HGNC Symbol;Acc:2498]
5616	ENSG00000171680	41.77026937	1.612813397	0.439367608	0.00080584	PLEKHG5	pleckstrin homology domain containing, family G (with RhoGef domain) member 5 [Source:HGNC Symbol;Acc:29105]
5617	ENSG00000186197	40.76398717	1.636492286	0.445856981	0.000806702	EDARADD	EDAR-associated death domain [Source:HGNC Symbol;Acc:14341]
5618	ENSG00000123130	1449.234572	-0.383774854	0.104566997	0.000807532	ACOT9	acyl-CoA thioesterase 9 [Source:HGNC Symbol;Acc:17152]
5619	ENSG00000132394	148.8129074	0.966257471	0.263306311	0.000808732	EEFSEC	eukaryotic elongation factor, selenocysteine-tRNA-specific [Source:HGNC Symbol;Acc:24614]
5620	ENSG00000145365	358.0917662	0.69624042	0.189826881	0.000814757	TIFA	TRAF-interacting protein with forkhead-associated domain [Source:HGNC Symbol;Acc:19075]
5621	ENSG00000183354	1280.385553	0.369283285	0.100689796	0.000815348	KIAA2026	KIAA2026 [Source:HGNC Symbol;Acc:23378]
5622	ENSG00000089597	4554.54849	0.242784841	0.066227985	0.000820444	GANAB	glucosidase, alpha; neutral AB [Source:HGNC Symbol;Acc:4138]

5623	ENSG00000213516	538.6754046	0.538731579	0.147049081	0.00082763	RBMXL1	RNA binding motif protein, X-linked-like 1 [Source:HGNC Symbol;Acc:25073]
5624	ENSG00000171954	16.5927838	2.021326731	0.551758296	0.000828095	CYP4F22	cytochrome P450, family 4, subfamily F, polypeptide 22 [Source:HGNC Symbol;Acc:26820]
5625	ENSG00000103507	699.8592182	0.491163604	0.134085176	0.000829101	BCKDK	branched chain ketoacid dehydrogenase kinase [Source:HGNC Symbol;Acc:16902]
5626	ENSG00000164265	253.659517	-0.719100121	0.196362772	0.000832105	SCGB3A2	secretoglobin, family 3A, member 2 [Source:HGNC Symbol;Acc:18391]
5627	ENSG00000223705	1843.692315	0.325728255	0.088955874	0.000833311	NSUN5P1	NOP2/Sun domain family, member 5 pseudogene 1 [Source:HGNC Symbol;Acc:19146]
5628	ENSG00000185222	30.80890544	-1.669354858	0.455911507	0.000833511	WBP5	WW domain binding protein 5 [Source:HGNC Symbol;Acc:30084]
5629	ENSG00000204178	584.5631089	0.503371088	0.137525471	0.000837844	TMEM57	transmembrane protein 57 [Source:HGNC Symbol;Acc:25572]
5630	ENSG00000011243	1832.990675	0.33641169	0.0919278	0.000839928	AKAP8L	A kinase (PRKA) anchor protein 8-like [Source:HGNC Symbol;Acc:29857]
5631	ENSG00000145107	35.312458	1.640604494	0.448324675	0.000840136	TM4SF19	transmembrane 4 L six family member 19 [Source:HGNC Symbol;Acc:25167]
5632	ENSG00000159592	3775.945866	-0.23768894	0.064968386	0.000842874	GPBP1L1	GC-rich promoter binding protein 1-like 1 [Source:HGNC Symbol;Acc:28843]
5633	ENSG00000261917	563.8952984	0.534139382	0.146046418	0.000846698	MBOAT7	membrane bound O-acyltransferase domain containing 7 [Source:HGNC Symbol;Acc:15505]
5634	ENSG00000104979	595.6025018	0.508908379	0.139176362	0.000849041	C19orf53	chromosome 19 open reading frame 53 [Source:HGNC Symbol;Acc:24991]
5635	ENSG00000102302	59.37370025	1.368170532	0.374180924	0.000849324	FGD1	FYVE, RhoGEF and PH domain containing 1 [Source:HGNC Symbol;Acc:3663]
5636	ENSG00000166801	4409.838123	-0.226359735	0.061915256	0.000850766	FAM111A	family with sequence similarity 111, member A [Source:HGNC Symbol;Acc:24725]
5637	ENSG00000233209	10.80142734	2.063449355	0.564475068	0.00085208	HLA-DQB1	major histocompatibility complex, class II, DQ beta 1 [Source:HGNC Symbol;Acc:4944]
5638	ENSG00000126226	830.8545631	0.411441543	0.112570767	0.000853791	PCID2	PCI domain containing 2 [Source:HGNC Symbol;Acc:25653]
5639	ENSG00000265823	836.0552721	0.464933287	0.127224102	0.000855356	EIF2D	eukaryotic translation initiation factor 2D [Source:HGNC Symbol;Acc:6583]
5640	ENSG00000268849	76.42645388	-1.241890048	0.339876217	0.000856857	SIGLEC22P	sialic acid binding Ig-like lectin 22, pseudogene [Source:HGNC Symbol;Acc:15611]
5641	ENSG00000183742	113.1730747	-1.057824122	0.289510382	0.000857072	MACC1	metastasis associated in colon cancer 1 [Source:HGNC Symbol;Acc:30215]
5642	ENSG00000116984	818.1530263	0.444602583	0.121702481	0.000859079	MTR	5-methyltetrahydrofolate-homocysteine methyltransferase [Source:HGNC Symbol;Acc:7468]
5643	ENSG00000112031	555.0369986	0.537313414	0.147100816	0.000860616	MTRF1L	mitochondrial translational release factor 1-like [Source:HGNC Symbol;Acc:21051]
5644	ENSG00000100162	80.06589035	-1.189065665	0.32563918	0.000864366	CENPM	centromere protein M [Source:HGNC Symbol;Acc:18352]
5645	ENSG00000085117	1852.470856	0.398838018	0.109226371	0.000864366	CD82	CD82 molecule [Source:HGNC Symbol;Acc:6210]
5646	ENSG00000262053	564.0344317	0.532691511	0.145892089	0.000864921	MBOAT7	membrane bound O-acyltransferase domain containing 7 [Source:HGNC Symbol;Acc:15505]
5647	ENSG00000168066	8070.95347	-0.207345345	0.056805038	0.000868643	SF1	splicing factor 1 [Source:HGNC Symbol;Acc:12950]
5648	ENSG00000138942	1024.856162	0.407321204	0.111594577	0.000868873	RNF185	ring finger protein 185 [Source:HGNC Symbol;Acc:26783]
5649	ENSG00000158122	137.9709294	0.974377888	0.266963918	0.000869261	AAED1	AhpC/TSA antioxidant enzyme domain containing 1 [Source:HGNC Symbol;Acc:16881]
5650	ENSG00000249978	24.76922277	1.868725226	0.51205181	0.00087034	TRGV7	T cell receptor gamma variable 7 (pseudogene) [Source:HGNC Symbol;Acc:12293]



5651	ENSG00000108091	506.3816589	0.53150893	0.145651435	0.000871204	CCDC6	coiled-coil domain containing 6 [Source:HGNC Symbol;Acc:18782]
5652	ENSG00000260485	454.8671409	0.578410021	0.158537518	0.000873675	PUF60	poly-U binding splicing factor 60kDa [Source:HGNC Symbol;Acc:17042]
5653	ENSG00000176386	471.0915821	0.561426712	0.153917931	0.000876365	CDC26	cell division cycle 26 [Source:HGNC Symbol;Acc:17839]
5654	ENSG00000170604	164.0211528	0.876443	0.240283966	0.000876365	IRF2BP1	interferon regulatory factor 2 binding protein 1 [Source:HGNC Symbol;Acc:21728]
5655	ENSG00000213160	40.50625749	-1.535446964	0.421038156	0.000878662	KLHL23	kelch-like family member 23 [Source:HGNC Symbol;Acc:27506]
5656	ENSG00000015171	767.8557909	0.523673851	0.143627125	0.000881062	ZMYND11	zinc finger, MYND-type containing 11 [Source:HGNC Symbol;Acc:16966]
5657	ENSG00000079616	1278.484878	-0.389081392	0.10679619	0.000890725	KIF22	kinesin family member 22 [Source:HGNC Symbol;Acc:6391]
5658	ENSG00000156787	237.7861815	0.746813337	0.205029777	0.000893172	TBC1D31	TBC1 domain family, member 31 [Source:HGNC Symbol;Acc:30888]
5659	ENSG00000197275	78.1922682	-1.290781012	0.354387687	0.000893631	RAD54B	RAD54 homolog B ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:17228]
5660	ENSG00000186666	109.1843514	1.138796033	0.312687965	0.000894614	BCDIN3D	BCDIN3 domain containing [Source:HGNC Symbol;Acc:27050]
5661	ENSG00000100028	1033.040133	-0.40566303	0.111401166	0.000896179	SNRPD3	small nuclear ribonucleoprotein D3 polypeptide 18kDa [Source:HGNC Symbol;Acc:11160]
5662	ENSG00000133134	41.55513077	1.609249309	0.442235705	0.000904996	BEX2	brain expressed X-linked 2 [Source:HGNC Symbol;Acc:30933]
5663	ENSG00000182628	437.0467836	-0.630907171	0.173393238	0.000905903	SKA2	spindle and kinetochore associated complex subunit 2 [Source:HGNC Symbol;Acc:28006]
5664	ENSG00000116497	1472.740125	-0.355289736	0.097698102	0.000912742	S100BPB	S100P binding protein [Source:HGNC Symbol;Acc:25768]
5665	ENSG00000126934	1811.046817	-0.306827225	0.084388175	0.000915082	MAP2K2	mitogen-activated protein kinase kinase 2 [Source:HGNC Symbol;Acc:6842]
5666	ENSG00000101574	485.1154411	0.559920566	0.154085552	0.00092231	METTL4	methyltransferase like 4 [Source:HGNC Symbol;Acc:24726]
5667	ENSG00000163462	72.40893729	1.329526601	0.365916505	0.000923628	TRIM46	tripartite motif containing 46 [Source:HGNC Symbol;Acc:19019]
5668	ENSG00000116604	2056.80126	0.371301012	0.102229368	0.000928407	MEF2D	myocyte enhancer factor 2D [Source:HGNC Symbol;Acc:6997]
5669	ENSG00000156853	144.409034	1.002336502	0.276030782	0.000931088	ZNF689	zinc finger protein 689 [Source:HGNC Symbol;Acc:25173]
5670	ENSG00000011132	378.5204775	0.70947383	0.195392593	0.000931761	APBA3	amyloid beta (A4) precursor protein-binding, family A, member 3 [Source:HGNC Symbol;Acc:580]
5671	ENSG00000164039	243.42805	0.732832423	0.201829964	0.000931876	BDH2	3-hydroxybutyrate dehydrogenase, type 2 [Source:HGNC Symbol;Acc:32389]
5672	ENSG00000153015	357.7665808	-0.600046151	0.165294366	0.000934505	CWC27	CWC27 spliceosome-associated protein homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:10664]
5673	ENSG00000179299	992.8179089	-0.40165785	0.110656667	0.000935792	NSUN7	NOP2/Sun domain family, member 7 [Source:HGNC Symbol;Acc:25857]
5674	ENSG00000183941	350.8686821	-0.622454088	0.171490631	0.000935983	HIST2H4A	histone cluster 2, H4a [Source:HGNC Symbol;Acc:4794]
5675	ENSG00000112701	3507.682511	-0.263050944	0.072473765	0.000936057	SENPE6	SUMO1/sentrin specific peptidase 6 [Source:HGNC Symbol;Acc:20944]
5676	ENSG00000211817	23.59114818	1.870883215	0.515462337	0.000936174	TRAV38-2DV8	T cell receptor alpha variable 38-2/delta variable 8 [Source:HGNC Symbol;Acc:12138]
5677	ENSG00000131323	656.9147967	-0.496317485	0.136758492	0.000937357	TRAF3	TNF receptor-associated factor 3 [Source:HGNC Symbol;Acc:12033]
5678	ENSG00000231555	97.12027586	-1.398723281	0.385548166	0.000941816	HSPA1B	heat shock 70kDa protein 1B [Source:HGNC Symbol;Acc:5233]

5679	ENSG00000235569	44.19762712	-1.599956097	0.441045845	0.000942482	MSH5	mutS homolog 5 [Source:HGNC Symbol;Acc:7328]
5680	ENSG00000263290	293.1105188	0.711037625	0.196007262	0.000942482	SCAMP3	secretory carrier membrane protein 3 [Source:HGNC Symbol;Acc:10565]
5681	ENSG00000134318	1108.158902	-0.438971019	0.121011472	0.000942655	ROCK2	Rho-associated, coiled-coil containing protein kinase 2 [Source:HGNC Symbol;Acc:10252]
5682	ENSG00000017621	62.98283099	-1.328420347	0.366388368	0.000949076	MAGIX	MAGI family member, X-linked [Source:HGNC Symbol;Acc:30006]
5683	ENSG00000175602	103.9483288	-1.173558804	0.323865064	0.000956579	CCDC85B	coiled-coil domain containing 85B [Source:HGNC Symbol;Acc:24926]
5684	ENSG00000149782	296.801933	-0.70441455	0.194396852	0.000956579	PLCB3	phospholipase C, beta 3 (phosphatidylinositol-specific) [Source:HGNC Symbol;Acc:9056]
5685	ENSG00000076924	703.247333	0.600216766	0.16564509	0.000956705	XAB2	XPA binding protein 2 [Source:HGNC Symbol;Acc:14089]
5686	ENSG00000135624	1715.064229	0.312262404	0.086202011	0.000960473	CCT7	chaperonin containing TCP1, subunit 7 (eta) [Source:HGNC Symbol;Acc:1622]
5687	ENSG00000157020	1224.095941	-0.355426429	0.098135341	0.000962723	SEC13	SEC13 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:10697]
5688	ENSG00000171051	19473.65193	0.158030426	0.043635671	0.000963337	FPR1	formyl peptide receptor 1 [Source:HGNC Symbol;Acc:3826]
5689	ENSG00000155304	343.0799974	0.636590672	0.175785835	0.000963871	HSPA13	heat shock protein 70kDa family, member 13 [Source:HGNC Symbol;Acc:11375]
5690	ENSG00000165948	108.909296	-1.086485674	0.300025275	0.00096402	IFI27L1	interferon, alpha-inducible protein 27-like 1 [Source:HGNC Symbol;Acc:19754]
5691	ENSG00000198842	11.28407198	2.043334285	0.564362078	0.000966481	DUSP27	dual specificity phosphatase 27 (putative) [Source:HGNC Symbol;Acc:25034]
5692	ENSG00000162878	15.278577	-1.989776904	0.549661952	0.000968583	PKDCC	protein kinase domain containing, cytoplasmic [Source:HGNC Symbol;Acc:25123]
5693	ENSG00000168826	246.7530336	0.869164974	0.240160169	0.000971771	ZBTB49	zinc finger and BTB domain containing 49 [Source:HGNC Symbol;Acc:19883]
5694	ENSG00000171843	381.9646937	0.801729812	0.221693657	0.00098186	MLLT3	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3 [Source:HGNC Symbol;Acc:7136]
5695	ENSG00000158714	96.21170662	1.146213472	0.316960672	0.00098215	SLAMF8	SLAM family member 8 [Source:HGNC Symbol;Acc:21391]
5696	ENSG00000126550	141.481257	-0.911521066	0.252067547	0.000982304	HTN1	histatin 1 [Source:HGNC Symbol;Acc:5283]
5697	ENSG00000139546	224.8286263	0.789334984	0.218285768	0.000982569	TARBP2	TAR (HIV-1) RNA binding protein 2 [Source:HGNC Symbol;Acc:11569]
5698	ENSG00000197124	70.27469522	1.29825178	0.359079211	0.000984523	ZNF682	zinc finger protein 682 [Source:HGNC Symbol;Acc:28857]
5699	ENSG00000167004	3754.367757	0.271038404	0.074967285	0.000984655	PDIA3	protein disulfide isomerase family A, member 3 [Source:HGNC Symbol;Acc:4606]
5700	ENSG00000249863	97.02473326	-1.156194578	0.319876139	0.00098781	RP11-177C12.1	
5701	ENSG00000107551	780.4283348	0.448489984	0.124080688	0.00098781	RASSF4	Ras association (RalGDS/AF-6) domain family member 4 [Source:HGNC Symbol;Acc:20793]
5702	ENSG00000103489	779.4876179	0.557853201	0.154375462	0.000991033	XYLT1	xylosyltransferase I [Source:HGNC Symbol;Acc:15516]
5703	ENSG00000131470	146.8114275	-0.914128911	0.252985912	0.000991832	PSMC3IP	PSMC3 interacting protein [Source:HGNC Symbol;Acc:17928]
5704	ENSG00000170088	275.1235148	0.682130688	0.188791311	0.00099247	TMEM192	transmembrane protein 192 [Source:HGNC Symbol;Acc:26775]
5705	ENSG00000114439	1042.662074	0.391423964	0.108383936	0.000998784	BBX	bobby sox homolog (Drosophila) [Source:HGNC Symbol;Acc:14422]
5706	ENSG00000263465	39.67351008	1.638892444	0.453874572	0.001000785	RP11-735A19.4	

5707	ENSG00000167258	1817.117573	-0.342697462	0.094917688	0.001002242	CDK12	cyclin-dependent kinase 12 [Source:HGNC Symbol;Acc:24224]
5708	ENSG00000240505	38.02237131	1.589241039	0.440209007	0.001003124	TNFRSF13B	tumor necrosis factor receptor superfamily, member 13B [Source:HGNC Symbol;Acc:18153]
5709	ENSG00000165714	130.8809505	-1.042805928	0.28885849	0.00100335	LOH12CR1	loss of heterozygosity, 12, chromosomal region 1 [Source:HGNC Symbol;Acc:17950]
5710	ENSG00000141698	51.09066797	1.455353857	0.403155513	0.001003893	NT5C3B	5'-nucleotidase, cytosolic IIIB [Source:HGNC Symbol;Acc:28300]
5711	ENSG00000198551	156.3754296	0.8869658	0.245844127	0.001011752	ZNF627	zinc finger protein 627 [Source:HGNC Symbol;Acc:30570]
5712	ENSG00000211797	35.06574293	1.68011956	0.465702254	0.00101202	TRAV17	T cell receptor alpha variable 17 [Source:HGNC Symbol;Acc:12113]
5713	ENSG00000109016	373.6367887	-0.622326527	0.172500553	0.00101202	DHRS7B	dehydrogenase/reductase (SDR family) member 7B [Source:HGNC Symbol;Acc:24547]
5714	ENSG00000149308	836.343614	0.502106917	0.139200299	0.00101417	NPAT	nuclear protein, ataxia-telangiectasia locus [Source:HGNC Symbol;Acc:7896]
5715	ENSG00000175066	653.8703732	-0.470919843	0.130561493	0.001014777	GK5	glycerol kinase 5 (putative) [Source:HGNC Symbol;Acc:28635]
5716	ENSG00000059769	361.3327554	-0.630702068	0.174868066	0.001015105	DNAJC25	DnaJ (Hsp40) homolog, subfamily C, member 25 [Source:HGNC Symbol;Acc:34187]
5717	ENSG00000205572	265.7454399	0.705119055	0.195502178	0.001015105	SERF1B	small EDRK-rich factor 1B (centromeric) [Source:HGNC Symbol;Acc:10756]
5718	ENSG00000232869	27.75524484	1.766178576	0.489855796	0.001019381	TRBV29-1	T cell receptor beta variable 29-1 [Source:HGNC Symbol;Acc:12210]
5719	ENSG00000123739	302.5735405	-0.917104502	0.254363362	0.001019381	PLA2G12A	phospholipase A2, group XIIA [Source:HGNC Symbol;Acc:18554]
5720	ENSG00000196182	4538.621821	0.306294172	0.084952413	0.001019381	STK40	serine/threonine kinase 40 [Source:HGNC Symbol;Acc:21373]
5721	ENSG00000161999	249.0905735	0.833805926	0.231357186	0.001025116	JMJD8	jumonji domain containing 8 [Source:HGNC Symbol;Acc:14148]
5722	ENSG00000142156	30.25502609	1.741249969	0.483219146	0.001027067	COL6A1	collagen, type VI, alpha 1 [Source:HGNC Symbol;Acc:2211]
5723	ENSG00000165264	474.70176	0.533364569	0.148029543	0.00102824	NDUFB6	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa [Source:HGNC Symbol;Acc:7701]
5724	ENSG00000196826	16.68663632	-2.002182338	0.555986912	0.001035856	ZNF709	
5725	ENSG00000140795	118.7399582	-0.978917574	0.271886929	0.001038363	MYLK3	myosin light chain kinase 3 [Source:HGNC Symbol;Acc:29826]
5726	ENSG00000222036	12.9941165	2.023285507	0.562039533	0.001040418	POTEG	POTE ankyrin domain family, member G [Source:HGNC Symbol;Acc:33896]
5727	ENSG00000148935	72.62115525	-1.240561825	0.344717936	0.001044747	GAS2	growth arrest-specific 2 [Source:HGNC Symbol;Acc:4167]
5728	ENSG00000243364	97.71617186	1.086578723	0.302038111	0.001049736	EFNA4	ephrin-A4 [Source:HGNC Symbol;Acc:3224]
5729	ENSG00000261974	822.5006335	0.538168578	0.149615503	0.001051483	CWC15	CWC15 spliceosome-associated protein homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:26939]
5730	ENSG00000238243	50.15773345	1.456566255	0.405134827	0.001058383	OR2W3	olfactory receptor, family 2, subfamily W, member 3 [Source:HGNC Symbol;Acc:15021]
5731	ENSG00000110955	5687.128541	-0.212866155	0.059225326	0.001062632	ATP5B	ATP synthase, H <sup>+</sup> transporting, mitochondrial F1 complex, beta polypeptide [Source:HGNC Symbol;Acc:830]
5732	ENSG00000162373	30.32420984	1.747537011	0.486267134	0.001064058	BEND5	BEN domain containing 5 [Source:HGNC Symbol;Acc:25668]
5733	ENSG00000170903	211.5897072	0.779659451	0.216969184	0.00106538	MSANTD4	Myb/SANT-like DNA-binding domain containing 4 with coiled-coils [Source:HGNC Symbol;Acc:29383]
5734	ENSG00000259472	14.5042768	1.995444756	0.555399606	0.001067658	RP13-996F3.3	

5735	ENSG00000151240	51.32150045	1.462954811	0.407221967	0.00106864	DIP2C	DIP2 disco-interacting protein 2 homolog C ( <i>Drosophila</i> ) [Source:HGNC Symbol;Acc:29150]
5736	ENSG00000198258	2383.200928	-0.264185351	0.073543372	0.001069625	UBL5	ubiquitin-like 5 [Source:HGNC Symbol;Acc:13736]
5737	ENSG00000145708	47.69140941	1.458089056	0.405972712	0.001072209	CRHBP	corticotropin releasing hormone binding protein [Source:HGNC Symbol;Acc:2356]
5738	ENSG00000129988	14.69656217	-2.008451704	0.559238088	0.001072639	LBP	lipopolysaccharide binding protein [Source:HGNC Symbol;Acc:6517]
5739	ENSG00000184113	9.751054545	2.031593811	0.565687767	0.001072639	CLDN5	claudin 5 [Source:HGNC Symbol;Acc:2047]
5740	ENSG00000128268	105.3878416	-1.110066737	0.309149311	0.001075144	MGAT3	mannosyl (beta-1,4-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase [Source:HGNC Symbol;Acc:7046]
5741	ENSG00000174611	128.8975148	1.001287078	0.27885795	0.001075144	KY	kyphoscoliosis peptidase [Source:HGNC Symbol;Acc:26576]
5742	ENSG00000162065	275.789923	-0.762544755	0.212415272	0.001078234	TBC1D24	TBC1 domain family, member 24 [Source:HGNC Symbol;Acc:29203]
5743	ENSG00000115350	347.6359718	-0.619066266	0.172454096	0.001078593	POLE4	polymerase (DNA-directed), epsilon 4, accessory subunit [Source:HGNC Symbol;Acc:18755]
5744	ENSG00000171595	17.92372996	1.96100664	0.546308503	0.001079175	DNAI2	dynein, axonemal, intermediate chain 2 [Source:HGNC Symbol;Acc:18744]
5745	ENSG00000188822	277.5099134	0.697927097	0.1944461	0.001080024	CNR2	cannabinoid receptor 2 (macrophage) [Source:HGNC Symbol;Acc:2160]
5746	ENSG00000134852	412.3660869	0.835984254	0.232933534	0.001081368	CLOCK	clock circadian regulator [Source:HGNC Symbol;Acc:2082]
5747	ENSG00000239855	19.98269722	-1.855199498	0.517088895	0.00108601	IGKV1-6	immunoglobulin kappa variable 1-6 [Source:HGNC Symbol;Acc:5742]
5748	ENSG00000116521	292.9784241	0.704996402	0.196511261	0.001086714	SCAMP3	secretory carrier membrane protein 3 [Source:HGNC Symbol;Acc:10565]
5749	ENSG00000232367	205.574696	0.820128758	0.228650933	0.00108964	TAP1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) [Source:HGNC Symbol;Acc:43]
5750	ENSG00000140365	544.0590941	-0.501594487	0.139865396	0.001091749	COMMD4	COMM domain containing 4 [Source:HGNC Symbol;Acc:26027]
5751	ENSG00000153406	582.6246559	0.503770748	0.140485131	0.001092938	NMRAL1	NmrA-like family domain containing 1 [Source:HGNC Symbol;Acc:24987]
5752	ENSG00000085465	93.2064447	1.148429559	0.320313348	0.001095284	OVGP1	oviductal glycoprotein 1, 120kDa [Source:HGNC Symbol;Acc:8524]
5753	ENSG00000261794	97.76927595	-1.116339344	0.311423479	0.001098022	GOLGA8H	golgin A8 family, member H [Source:HGNC Symbol;Acc:37443]
5754	ENSG00000014919	843.6548585	-0.408268843	0.113916587	0.001100807	COX15	cytochrome c oxidase assembly homolog 15 (yeast) [Source:HGNC Symbol;Acc:2263]
5755	ENSG00000135778	416.3200973	0.600160372	0.167468334	0.001101474	NTPCR	nucleoside-triphosphatase, cancer-related [Source:HGNC Symbol;Acc:28204]
5756	ENSG00000159189	12.81837894	-1.988250795	0.554808516	0.001101511	C1QC	complement component 1, q subcomponent, C chain [Source:HGNC Symbol;Acc:1245]
5757	ENSG00000221946	34.67717048	1.65187922	0.460961453	0.001101759	FXYD7	FXYD domain containing ion transport regulator 7 [Source:HGNC Symbol;Acc:4034]
5758	ENSG00000114450	416.8770413	-0.559110387	0.156022643	0.001101759	GNB4	guanine nucleotide binding protein (G protein), beta polypeptide 4 [Source:HGNC Symbol;Acc:20731]
5759	ENSG00000178965	9.716877196	2.02847368	0.566383741	0.001110348	C1orf173	chromosome 1 open reading frame 173 [Source:HGNC Symbol;Acc:25346]
5760	ENSG00000137275	1777.654215	0.314553159	0.087830231	0.001110456	RIPK1	receptor (TNFRSF)-interacting serine-threonine kinase 1 [Source:HGNC Symbol;Acc:10019]
5761	ENSG00000117133	482.1750695	0.546224087	0.152537807	0.001112251	RPF1	ribosome production factor 1 homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:30350]
5762	ENSG00000254505	806.3251656	0.415614135	0.116068628	0.001112686	CHMP4A	charged multivesicular body protein 4A [Source:HGNC Symbol;Acc:20274]

5763	ENSG00000071205	116.9485942	1.015939303	0.283769816	0.00111509	ARHGAP10	Rho GTPase activating protein 10 [Source:HGNC Symbol;Acc:26099]
5764	ENSG00000211801	26.39158305	1.779566243	0.497099285	0.001115971	TRAV21	T cell receptor alpha variable 21 [Source:HGNC Symbol;Acc:12118]
5765	ENSG00000142784	3245.333156	-0.261887838	0.073159179	0.001116641	WDTC1	WD and tetratricopeptide repeats 1 [Source:HGNC Symbol;Acc:29175]
5766	ENSG00000211897	81.41259145	-1.153391632	0.322266729	0.001119219	IGHG3	immunoglobulin heavy constant gamma 3 (G3m marker) [Source:HGNC Symbol;Acc:5527]
5767	ENSG00000270355	81.41259145	-1.153391632	0.322266729	0.001119219	IGHG3	immunoglobulin heavy constant gamma 3 (G3m marker) [Source:HGNC Symbol;Acc:5527]
5768	ENSG00000095951	535.1563562	0.525187117	0.146742928	0.001119219	HIVEP1	human immunodeficiency virus type I enhancer binding protein 1 [Source:HGNC Symbol;Acc:4920]
5769	ENSG00000197381	414.2126108	0.570406753	0.159380196	0.001119257	ADARB1	adenosine deaminase, RNA-specific, B1 [Source:HGNC Symbol;Acc:226]
5770	ENSG00000214530	508.1068254	0.615845329	0.172162882	0.001126783	STARD10	StAR-related lipid transfer (START) domain containing 10 [Source:HGNC Symbol;Acc:10666]
5771	ENSG00000260424	35.03849558	1.819956814	0.508787721	0.00112686	TRBV19	T cell receptor beta variable 19 [Source:HGNC Symbol;Acc:12194]
5772	ENSG00000248594	244.7036252	0.722565636	0.202007515	0.001127186	AC003029.1	
5773	ENSG00000203817	32.55669345	-1.795867835	0.502146284	0.001129323	FAM72C	family with sequence similarity 72, member C [Source:HGNC Symbol;Acc:30602]
5774	ENSG00000144747	1524.277436	0.450796222	0.126052463	0.001129668	TMF1	TATA element modulatory factor 1 [Source:HGNC Symbol;Acc:11870]
5775	ENSG00000167632	639.8040995	-0.502336028	0.140470005	0.00113012	TRAPPC9	trafficking protein particle complex 9 [Source:HGNC Symbol;Acc:30832]
5776	ENSG00000151693	70.2003058	1.214015584	0.339526683	0.001132074	ASAP2	ArfGAP with SH3 domain, ankyrin repeat and PH domain 2 [Source:HGNC Symbol;Acc:2721]
5777	ENSG00000188783	102.6541138	-1.109757735	0.310397917	0.001133338	PRELP	proline/arginine-rich end leucine-rich repeat protein [Source:HGNC Symbol;Acc:9357]
5778	ENSG00000092096	37.46793793	1.660832312	0.46456097	0.001134081	SLC22A17	solute carrier family 22, member 17 [Source:HGNC Symbol;Acc:23095]
5779	ENSG00000248099	22.69521037	1.84495634	0.516212399	0.001138366	INSL3	insulin-like 3 (Leydig cell) [Source:HGNC Symbol;Acc:6086]
5780	ENSG00000232005	131.4362061	-0.954627861	0.267129288	0.001139783	PBX2	pre-B-cell leukemia homeobox 2 [Source:HGNC Symbol;Acc:8633]
5781	ENSG00000119714	190.9850867	1.022440856	0.286153759	0.001142235	GPR68	G protein-coupled receptor 68 [Source:HGNC Symbol;Acc:4519]
5782	ENSG00000143149	1121.208	0.453346194	0.126882858	0.001142458	ALDH9A1	aldehyde dehydrogenase 9 family, member A1 [Source:HGNC Symbol;Acc:412]
5783	ENSG00000121864	400.9723378	0.628472435	0.175930595	0.001145213	ZNF639	zinc finger protein 639 [Source:HGNC Symbol;Acc:30950]
5784	ENSG00000176783	1471.015924	0.332733131	0.093160686	0.00114795	RUFY1	RUN and FYVE domain containing 1 [Source:HGNC Symbol;Acc:19760]
5785	ENSG00000129968	1298.606611	0.960550629	0.269035928	0.001153292	ABHD17A	abhydrolase domain containing 17A [Source:HGNC Symbol;Acc:28756]
5786	ENSG00000182217	323.5317746	-0.61949882	0.173524454	0.001154186	HIST2H4B	histone cluster 2, H4b [Source:HGNC Symbol;Acc:29607]
5787	ENSG00000116133	259.4758004	-0.694059227	0.194421081	0.001154951	DHCR24	24-dehydrocholesterol reductase [Source:HGNC Symbol;Acc:2859]
5788	ENSG00000187145	519.0731776	0.519101118	0.145470284	0.001161125	MRPS21	mitochondrial ribosomal protein S21 [Source:HGNC Symbol;Acc:14046]
5789	ENSG00000122012	73.92195384	-1.578426103	0.442343585	0.001161404	SV2C	synaptic vesicle glycoprotein 2C [Source:HGNC Symbol;Acc:30670]
5790	ENSG00000180758	272.0167432	0.703767889	0.19726459	0.001164272	GPR157	G protein-coupled receptor 157 [Source:HGNC Symbol;Acc:23687]

5791	ENSG00000168872	625.5219003	0.460093471	0.128973809	0.001165377	DDX19A	DEAD (Asp-Glu-Ala-Asp) box polypeptide 19A [Source:HGNC Symbol;Acc:25628]
5792	ENSG00000182768	549.2563809	0.50206376	0.140780833	0.001169902	NGRN	neugrin, neurite outgrowth associated [Source:HGNC Symbol;Acc:18077]
5793	ENSG00000181830	221.5209378	0.767056167	0.215201292	0.001178264	SLC35C1	solute carrier family 35 (GDP-fucose transporter), member C1 [Source:HGNC Symbol;Acc:20197]
5794	ENSG00000182220	3331.059586	-0.263275377	0.07387707	0.001181076	ATP6AP2	ATPase, H <sup>+</sup> transporting, lysosomal accessory protein 2 [Source:HGNC Symbol;Acc:18305]
5795	ENSG00000087903	449.4960012	0.667038004	0.187189246	0.001182013	RFX2	regulatory factor X, 2 (influences HLA class II expression) [Source:HGNC Symbol;Acc:9983]
5796	ENSG00000173715	107.1366415	1.150745496	0.322946229	0.001182572	C11orf80	chromosome 11 open reading frame 80 [Source:HGNC Symbol;Acc:26197]
5797	ENSG00000159685	22.64564109	1.8139717	0.509221688	0.001187014	CHCHD6	coiled-coil-helix-coiled-coil-helix domain containing 6 [Source:HGNC Symbol;Acc:28184]
5798	ENSG00000236884	9.782828259	2.010560177	0.564654775	0.001193857	HLA-DRB1	major histocompatibility complex, class II, DR beta 1 [Source:HGNC Symbol;Acc:4948]
5799	ENSG00000055950	378.7384598	0.575417495	0.161637432	0.00119712	MRPL43	mitochondrial ribosomal protein L43 [Source:HGNC Symbol;Acc:14517]
5800	ENSG00000085274	495.7409507	0.561329011	0.157696739	0.001198646	MYNN	myoneurin [Source:HGNC Symbol;Acc:14955]
5801	ENSG00000198113	352.5062213	-0.665093034	0.186875579	0.00120087	TOR4A	torsin family 4, member A [Source:HGNC Symbol;Acc:25981]
5802	ENSG00000215252	6172.015195	0.21150335	0.059428547	0.001200952	GOLGA8B	golgin A8 family, member B [Source:HGNC Symbol;Acc:31973]
5803	ENSG00000261450	28.41893629	1.727597887	0.48567098	0.001209072	TRBV29-1	T cell receptor beta variable 29-1 [Source:HGNC Symbol;Acc:12210]
5804	ENSG00000198791	1420.628538	0.356264128	0.100157901	0.001209377	CNOT7	CCR4-NOT transcription complex, subunit 7 [Source:HGNC Symbol;Acc:14101]
5805	ENSG00000081320	6807.827308	0.20031367	0.056324616	0.001211981	STK17B	serine/threonine kinase 17b [Source:HGNC Symbol;Acc:11396]
5806	ENSG00000129757	82.97602696	1.206971082	0.339386411	0.001212147	CDKN1C	cyclin-dependent kinase inhibitor 1C (p57, Kip2) [Source:HGNC Symbol;Acc:1786]
5807	ENSG00000177570	75.87144746	1.47483134	0.414807689	0.001215979	SAMD12	sterile alpha motif domain containing 12 [Source:HGNC Symbol;Acc:31750]
5808	ENSG00000166741	102.209972	-1.162577329	0.327024165	0.001217798	NNMT	nicotinamide N-methyltransferase [Source:HGNC Symbol;Acc:7861]
5809	ENSG00000214194	195.2578365	0.776874732	0.218535195	0.001218059	LINC00998	long intergenic non-protein coding RNA 998 [Source:HGNC Symbol;Acc:48953]
5810	ENSG00000261493	116.7499157	1.128999077	0.317730673	0.001225268	REXO4	REX4, RNA exonuclease 4 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:12820]
5811	ENSG00000170848	102.6814417	-1.075784351	0.302809287	0.001228008	PSG6	pregnancy specific beta-1-glycoprotein 6 [Source:HGNC Symbol;Acc:9523]
5812	ENSG00000117448	685.116475	0.449560242	0.126542486	0.001228008	AKR1A1	aldo-keto reductase family 1, member A1 (aldehyde reductase) [Source:HGNC Symbol;Acc:380]
5813	ENSG00000198933	748.5358806	0.534750256	0.150570347	0.001233151	TBKBP1	TBK1 binding protein 1 [Source:HGNC Symbol;Acc:30140]
5814	ENSG00000162062	29.60289583	-1.628005118	0.458505852	0.001236801	C16orf59	chromosome 16 open reading frame 59 [Source:HGNC Symbol;Acc:25849]
5815	ENSG00000118492	116.4752849	-1.000142727	0.281814185	0.001244734	ADGB	androglobin [Source:HGNC Symbol;Acc:21212]
5816	ENSG00000134545	94.07998881	1.137499907	0.320521742	0.001244734	KLRC1	killer cell lectin-like receptor subfamily C, member 1 [Source:HGNC Symbol;Acc:6374]
5817	ENSG00000009335	1407.733626	-0.379614495	0.106981671	0.001246857	UBE3C	ubiquitin protein ligase E3C [Source:HGNC Symbol;Acc:16803]
5818	ENSG00000165675	194.6235757	0.817591725	0.230442633	0.001248955	ENOX2	ecto-NOX disulfide-thiol exchanger 2 [Source:HGNC Symbol;Acc:2259]

5819	ENSG00000206485	169.593739	-0.85505359	0.241113067	0.001256549	PPP1R18	protein phosphatase 1, regulatory subunit 18 [Source:HGNC Symbol;Acc:29413]
5820	ENSG00000104915	3209.295155	-0.307158854	0.0866165	0.00125673	STX10	syntaxin 10 [Source:HGNC Symbol;Acc:11428]
5821	ENSG00000198783	388.7910757	0.59908315	0.16894031	0.001256849	ZNF830	zinc finger protein 830 [Source:HGNC Symbol;Acc:28291]
5822	ENSG00000183751	190.6593941	0.96591384	0.272437694	0.001259853	TBL3	transducin (beta)-like 3 [Source:HGNC Symbol;Acc:11587]
5823	ENSG00000103199	191.1511065	0.825494355	0.232856389	0.001261403	ZNF500	zinc finger protein 500 [Source:HGNC Symbol;Acc:23716]
5824	ENSG00000170949	880.8656265	0.450208864	0.127003864	0.001262314	ZNF160	zinc finger protein 160 [Source:HGNC Symbol;Acc:12948]
5825	ENSG00000115825	757.8829679	0.46920012	0.132373998	0.001263727	PRKD3	protein kinase D3 [Source:HGNC Symbol;Acc:9408]
5826	ENSG0000050030	16.75628837	1.920407222	0.541813269	0.001263969	KIAA2022	KIAA2022 [Source:HGNC Symbol;Acc:29433]
5827	ENSG00000159173	34.46583312	-1.589404575	0.448662649	0.001272745	TNNI1	troponin I type 1 (skeletal, slow) [Source:HGNC Symbol;Acc:11945]
5828	ENSG00000186432	2096.915908	-0.348395947	0.098396663	0.001281282	KPNA4	karyopherin alpha 4 (importin alpha 3) [Source:HGNC Symbol;Acc:6397]
5829	ENSG00000132359	4203.252056	-0.239712325	0.067716607	0.001284791	RAP1GAP2	RAP1 GTPase activating protein 2 [Source:HGNC Symbol;Acc:29176]
5830	ENSG00000180011	1316.484195	-0.369753923	0.104452708	0.001284791	ZADH2	zinc binding alcohol dehydrogenase domain containing 2 [Source:HGNC Symbol;Acc:28697]
5831	ENSG00000166123	58.93477635	-1.430275655	0.404069581	0.001285741	GPT2	glutamic pyruvate transaminase (alanine aminotransferase) 2 [Source:HGNC Symbol;Acc:18062]
5832	ENSG00000271481	8759.944159	0.217732932	0.06151315	0.001285816	LILRB2	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 2 [Source:HGNC Symbol;Acc:6606]
5833	ENSG00000172296	162.5919189	-0.880867873	0.248867383	0.001285961	SPTLC3	serine palmitoyltransferase, long chain base subunit 3 [Source:HGNC Symbol;Acc:16253]
5834	ENSG00000116906	1065.898296	-0.431401483	0.121882184	0.001285961	GNPAT	glyceronephosphate O-acyltransferase [Source:HGNC Symbol;Acc:4416]
5835	ENSG00000145819	4694.043465	0.22028022	0.062245331	0.001288629	ARHGAP26	Rho GTPase activating protein 26 [Source:HGNC Symbol;Acc:17073]
5836	ENSG00000105784	23.33297257	-1.782142935	0.503621395	0.001289616	RUNDC3B	RUN domain containing 3B [Source:HGNC Symbol;Acc:30286]
5837	ENSG00000106853	105.130097	-1.046408215	0.29588773	0.001299945	PTGR1	prostaglandin reductase 1 [Source:HGNC Symbol;Acc:18429]
5838	ENSG00000174574	1864.699594	0.311265803	0.088051413	0.001306916	AKIRIN1	akirin 1 [Source:HGNC Symbol;Acc:25744]
5839	ENSG00000172752	5.767910182	-1.884424998	0.53313139	0.001308725	COL6A5	collagen, type VI, alpha 5 [Source:HGNC Symbol;Acc:26674]
5840	ENSG00000160766	333.1291224	-0.718703382	0.203393599	0.001313838	GBAP1	glucosidase, beta, acid pseudogene 1 [Source:HGNC Symbol;Acc:4178]
5841	ENSG00000132781	256.1665312	0.741653148	0.209940146	0.001317947	MUTYH	mutY homolog [Source:HGNC Symbol;Acc:7527]
5842	ENSG00000118655	199.4368351	-0.770220534	0.218039815	0.001318779	DCLRE1B	DNA cross-link repair 1B [Source:HGNC Symbol;Acc:17641]
5843	ENSG00000116863	465.669538	0.55365064	0.156748245	0.001320427	ADPRHL2	ADP-ribosylhydrolase like 2 [Source:HGNC Symbol;Acc:21304]
5844	ENSG00000115652	820.9262786	0.434204181	0.122961097	0.001324546	UXS1	UDP-glucuronate decarboxylase 1 [Source:HGNC Symbol;Acc:17729]
5845	ENSG00000262900	104.1447347	1.094193111	0.309886472	0.001325741	LILRA1	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1 [Source:HGNC Symbol;Acc:6602]
5846	ENSG00000196407	32.83790447	1.731270984	0.490385269	0.001328113	THEM5	thioesterase superfamily member 5 [Source:HGNC Symbol;Acc:26755]

5847	ENSG00000171813	74.09538594	1.399508586	0.396470593	0.001330429	PWWP2B	PWWP domain containing 2B [Source:HGNC Symbol;Acc:25150]
5848	ENSG00000150753	2495.890918	-0.286002224	0.081023245	0.001330429	CCT5	chaperonin containing TCP1, subunit 5 (epsilon) [Source:HGNC Symbol;Acc:1618]
5849	ENSG00000188033	139.8737895	-0.926755458	0.262561686	0.001331264	ZNF490	zinc finger protein 490 [Source:HGNC Symbol;Acc:23705]
5850	ENSG00000061987	2061.251343	-0.371016997	0.105123123	0.001332601	MON2	MON2 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:29177]
5851	ENSG00000137752	4935.368949	0.245184131	0.069474906	0.001333649	CASP1	caspase 1, apoptosis-related cysteine peptidase [Source:HGNC Symbol;Acc:1499]
5852	ENSG00000113558	3080.123641	0.2600408	0.073693745	0.001335614	SKP1	S-phase kinase-associated protein 1 [Source:HGNC Symbol;Acc:10899]
5853	ENSG00000116704	459.5585903	0.523093785	0.148251637	0.001336649	SLC35D1	solute carrier family 35 (UDP-GlcA/UDP-GalNAc transporter), member D1 [Source:HGNC Symbol;Acc:20800]
5854	ENSG00000256553	26.98107406	1.77053318	0.501936233	0.001341538	TRAV1-2	T cell receptor alpha variable 1-2 [Source:HGNC Symbol;Acc:12102]
5855	ENSG00000104412	386.2511514	-0.600162559	0.17017575	0.001344782	EMC2	ER membrane protein complex subunit 2 [Source:HGNC Symbol;Acc:28963]
5856	ENSG00000101558	3224.776194	-0.260869344	0.073989273	0.001349381	VAPA	VAMP (vesicle-associated membrane protein)-associated protein A, 33kDa [Source:HGNC Symbol;Acc:12648]
5857	ENSG00000166780	195.8544162	0.84589919	0.240028178	0.001357357	C16orf45	chromosome 16 open reading frame 45 [Source:HGNC Symbol;Acc:19213]
5858	ENSG00000137714	209.8686412	0.759841616	0.215611697	0.001357359	FDX1	ferredoxin 1 [Source:HGNC Symbol;Acc:3638]
5859	ENSG00000271425	573.9427893	0.4969918	0.14103043	0.001357724	AC239799.1	neuroblastoma breakpoint family member 14 [Source:RefSeq peptide;Acc:NP_056198]
5860	ENSG00000065243	3434.101529	0.365551266	0.103758898	0.001362216	PKN2	protein kinase N2 [Source:HGNC Symbol;Acc:9406]
5861	ENSG00000132463	1005.21116	0.380532244	0.108019141	0.001363326	GRSF1	G-rich RNA sequence binding factor 1 [Source:HGNC Symbol;Acc:4610]
5862	ENSG00000006074	6.746141281	-1.930286206	0.547946331	0.001363388	CCL18	chemokine (C-C motif) ligand 18 (pulmonary and activation-regulated) [Source:HGNC Symbol;Acc:10616]
5863	ENSG00000175416	510.5561552	0.55081945	0.156405598	0.001368451	CLTB	clathrin, light chain B [Source:HGNC Symbol;Acc:2091]
5864	ENSG00000158109	2179.726605	0.271713704	0.077154488	0.001368494	TPRG1L	tumor protein p63 regulated 1-like [Source:HGNC Symbol;Acc:27007]
5865	ENSG00000185838	45.53029193	1.537419901	0.436620966	0.001370876	GNB1L	guanine nucleotide binding protein (G protein), beta polypeptide 1-like [Source:HGNC Symbol;Acc:4397]
5866	ENSG00000173113	1247.531007	0.344594934	0.0978727	0.001372345	TRMT112	tRNA methyltransferase 11-2 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:26940]
5867	ENSG00000169598	323.7427499	0.626585974	0.177970744	0.001372751	DFFB	DNA fragmentation factor, 40kDa, beta polypeptide (caspase-activated DNase) [Source:HGNC Symbol;Acc:2773]
5868	ENSG00000179899	67.21384216	1.302612546	0.370201897	0.001383271	PHC1P1	polyhomeotic homolog 1 (Drosophila) pseudogene 1 [Source:HGNC Symbol;Acc:34502]
5869	ENSG00000144021	1593.654469	0.302728625	0.086049064	0.001385836	CIAO1	cytosolic iron-sulfur protein assembly 1 [Source:HGNC Symbol;Acc:14280]
5870	ENSG00000125844	1052.97516	-0.400945242	0.113967305	0.001385836	RRBP1	ribosome binding protein 1 [Source:HGNC Symbol;Acc:10448]
5871	ENSG00000075234	641.4002769	0.45577623	0.129560553	0.001386696	TTC38	tetratricopeptide repeat domain 38 [Source:HGNC Symbol;Acc:26082]
5872	ENSG00000115392	356.8989392	-0.585445604	0.166426041	0.001387036	FANCL	Fanconi anemia, complementation group L [Source:HGNC Symbol;Acc:20748]
5873	ENSG00000169410	651.4419185	-0.476275996	0.135399878	0.001387852	PTPN9	protein tyrosine phosphatase, non-receptor type 9 [Source:HGNC Symbol;Acc:9661]
5874	ENSG00000178537	767.2542052	-0.43931347	0.12490082	0.001388937	SLC25A20	solute carrier family 25 (carnitine/acylcarnitine translocase), member 20 [Source:HGNC Symbol;Acc:1421]



5875	ENSG00000165475	104.4374008	1.022615797	0.290772328	0.001390812	CRYL1	crystallin, lambda 1 [Source:HGNC Symbol;Acc:18246]
5876	ENSG00000153707	207.3246022	1.943697961	0.55270896	0.001391728	PTPRD	protein tyrosine phosphatase, receptor type, D [Source:HGNC Symbol;Acc:9668]
5877	ENSG00000130731	270.2825814	0.739259999	0.21032276	0.001400913	C16orf13	chromosome 16 open reading frame 13 [Source:HGNC Symbol;Acc:14141]
5878	ENSG00000101665	370.4647674	0.666829668	0.189770179	0.001405976	SMAD7	SMAD family member 7 [Source:HGNC Symbol;Acc:6773]
5879	ENSG00000128989	2912.96115	0.242551158	0.06903673	0.001408471	ARPP19	cAMP-regulated phosphoprotein, 19kDa [Source:HGNC Symbol;Acc:16967]
5880	ENSG00000264820	40.39224105	-1.492351886	0.424794505	0.001409552	FAM72B	family with sequence similarity 72, member B [Source:HGNC Symbol;Acc:24805]
5881	ENSG00000099624	210.3955086	0.824137921	0.234600452	0.001410227	ATP5D	ATP synthase, H+ transporting, mitochondrial F1 complex, delta subunit [Source:HGNC Symbol;Acc:837]
5882	ENSG00000107719	58.75315915	1.313838806	0.374039003	0.001411957	PALD1	phosphatase domain containing, paladin 1 [Source:HGNC Symbol;Acc:23530]
5883	ENSG00000188610	40.39136548	-1.492073196	0.424800226	0.001412568	FAM72B	family with sequence similarity 72, member B [Source:HGNC Symbol;Acc:24805]
5884	ENSG00000159461	902.0233917	0.43214497	0.123068778	0.001417658	AMFR	autocrine motility factor receptor, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:463]
5885	ENSG00000130529	517.7061546	-0.523916694	0.149223091	0.001419807	TRPM4	transient receptor potential cation channel, subfamily M, member 4 [Source:HGNC Symbol;Acc:17993]
5886	ENSG00000157954	2115.10641	0.294109085	0.083777414	0.001421497	WIPI2	WD repeat domain, phosphoinositide interacting 2 [Source:HGNC Symbol;Acc:32225]
5887	ENSG00000264644	13.92317438	1.957601539	0.558099071	0.001437018	KRT18P8	keratin 18 pseudogene 8 [Source:HGNC Symbol;Acc:31093]
5888	ENSG00000125971	1409.564475	-0.320342969	0.091327665	0.001437018	DYNLRB1	dynein, light chain, roadblock-type 1 [Source:HGNC Symbol;Acc:15468]
5889	ENSG00000156475	111.5659799	1.081783452	0.308619314	0.001449717	PPP2R2B	protein phosphatase 2, regulatory subunit B, beta [Source:HGNC Symbol;Acc:9305]
5890	ENSG00000265241	1387.70834	0.374000368	0.106704597	0.001450717	RBM8A	RNA-binding protein 8A [Source:UniProtKB/Swiss-Prot;Acc:Q9Y559]
5891	ENSG00000154040	48.60343843	-1.382081535	0.394406832	0.001454858	CABYR	calcium binding tyrosine-(Y)-phosphorylation regulated [Source:HGNC Symbol;Acc:15569]
5892	ENSG00000087502	905.8151006	-0.490665384	0.140034841	0.001456372	ERGIC2	ERGIC and golgi 2 [Source:HGNC Symbol;Acc:30208]
5893	ENSG00000120832	296.273814	0.665876742	0.190046597	0.001456812	MTERFD3	MTERF domain containing 3 [Source:HGNC Symbol;Acc:30779]
5894	ENSG00000178690	89.74566955	-1.10970171	0.316737452	0.001457752	DYNAP	dynactin associated protein [Source:HGNC Symbol;Acc:26808]
5895	ENSG00000100012	39.89682036	-1.543079876	0.440472184	0.001459136	SEC14L3	SEC14-like 3 (S. cerevisiae) [Source:HGNC Symbol;Acc:18655]
5896	ENSG00000198890	117.3271814	0.996862213	0.284662666	0.001466207	PRMT6	protein arginine methyltransferase 6 [Source:HGNC Symbol;Acc:18241]
5897	ENSG00000170832	2303.446001	0.283676021	0.081018362	0.001468865	USP32	ubiquitin specific peptidase 32 [Source:HGNC Symbol;Acc:19143]
5898	ENSG00000085832	2636.281733	-0.269874226	0.077077799	0.00146893	EPS15	epidermal growth factor receptor pathway substrate 15 [Source:HGNC Symbol;Acc:3419]
5899	ENSG00000088881	25.61659591	1.840082098	0.52560632	0.001471148	EBF4	early B-cell factor 4 [Source:HGNC Symbol;Acc:29278]
5900	ENSG00000269743	131.4941678	0.943401912	0.269511913	0.001473473	SLC25A53	
5901	ENSG00000168502	18.43232605	-1.809002266	0.516859517	0.00147555	SOGA2	SOGA family member 2 [Source:HGNC Symbol;Acc:29121]
5902	ENSG00000065000	1619.510368	0.333040383	0.095165696	0.001477537	AP3D1	adaptor-related protein complex 3, delta 1 subunit [Source:HGNC Symbol;Acc:568]

5903	ENSG00000198466	1529.520014	-0.385715758	0.110235062	0.001480364	ZNF587	zinc finger protein 587 [Source:HGNC Symbol;Acc:30955]
5904	ENSG00000141404	504.0184407	-0.498845397	0.142612861	0.001486402	GNAL	guanine nucleotide binding protein (G protein), alpha activating activity polypeptide, olfactory type [Source:HGNC Symbol;Acc:4388]
5905	ENSG00000108774	1796.229083	0.293826498	0.084007534	0.001487701	RAB5C	RAB5C, member RAS oncogene family [Source:HGNC Symbol;Acc:9785]
5906	ENSG00000127415	118.5673088	1.074501952	0.307290768	0.001492623	IDUA	iduronidase, alpha-L- [Source:HGNC Symbol;Acc:5391]
5907	ENSG00000196591	1282.585393	-0.375060596	0.10727328	0.001494526	HDAC2	histone deacetylase 2 [Source:HGNC Symbol;Acc:4853]
5908	ENSG00000233836	8.300242636	1.972750503	0.564311159	0.001496815	RP11-255H23.2	
5909	ENSG00000106993	249.7759569	0.729359824	0.208663672	0.001499206	CDC37L1	cell division cycle 37-like 1 [Source:HGNC Symbol;Acc:17179]
5910	ENSG00000119862	775.0515813	0.445744208	0.127618621	0.001513363	LGALS1	lectin, galactoside-binding-like [Source:HGNC Symbol;Acc:25012]
5911	ENSG00000250654	28.29236007	1.678676314	0.480893366	0.001524965	RP11-834C11.7	
5912	ENSG00000203872	125.9760931	-0.951415908	0.272643946	0.001531307	C6orf163	chromosome 6 open reading frame 163 [Source:HGNC Symbol;Acc:21403]
5913	ENSG00000082269	139.4388447	0.884843938	0.253587745	0.001532711	FAM135A	family with sequence similarity 135, member A [Source:HGNC Symbol;Acc:21084]
5914	ENSG00000112333	9.118916142	-1.977128234	0.566640088	0.001532953	NR2E1	nuclear receptor subfamily 2, group E, member 1 [Source:HGNC Symbol;Acc:7973]
5915	ENSG00000183137	181.4428432	-0.82453574	0.236331089	0.001534488	CEP57L1	centrosomal protein 57kDa-like 1 [Source:HGNC Symbol;Acc:21561]
5916	ENSG00000198930	5.893052168	1.860748033	0.533550183	0.001542377	CSAG1	chondrosarcoma associated gene 1 [Source:HGNC Symbol;Acc:24294]
5917	ENSG00000125733	59.01187765	1.345827501	0.386041525	0.001549398	TRIP10	thyroid hormone receptor interactor 10 [Source:HGNC Symbol;Acc:12304]
5918	ENSG00000065665	474.2257589	0.520186673	0.149329333	0.001565072	SEC61A2	Sec61 alpha 2 subunit (S. cerevisiae) [Source:HGNC Symbol;Acc:17702]
5919	ENSG00000204920	217.8520989	0.812786663	0.233516107	0.001581473	ZNF155	zinc finger protein 155 [Source:HGNC Symbol;Acc:12940]
5920	ENSG00000178081	57.56257906	-1.384273249	0.397710619	0.001581473	ULK4P3	ULK4 pseudogene 3 [Source:HGNC Symbol;Acc:15777]
5921	ENSG00000260222	20.7715658	1.825820956	0.524614163	0.001582931	TRBV3-1	T cell receptor beta variable 3-1 [Source:HGNC Symbol;Acc:12212]
5922	ENSG00000216937	129.5645423	-0.911952429	0.262062098	0.001585043	CCDC7	coiled-coil domain containing 7 [Source:HGNC Symbol;Acc:26533]
5923	ENSG00000163714	2979.869282	-0.311906544	0.089643385	0.001587703	U2SURP	U2 snRNP-associated SURP domain containing [Source:HGNC Symbol;Acc:30855]
5924	ENSG00000100280	1354.535484	0.400207121	0.11507487	0.001597009	AP1B1	adaptor-related protein complex 1, beta 1 subunit [Source:HGNC Symbol;Acc:554]
5925	ENSG00000166783	4918.252367	0.205800484	0.059176189	0.001597009	KIAA0430	KIAA0430 [Source:HGNC Symbol;Acc:29562]
5926	ENSG00000262448	644.9482059	0.683680703	0.196602208	0.001598384	MARCH8	membrane-associated ring finger (C3HC4) 8, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:23356]
5927	ENSG00000023287	1687.290372	0.314691617	0.090563035	0.001613968	RB1CC1	RB1-inducible coiled-coil 1 [Source:HGNC Symbol;Acc:15574]
5928	ENSG00000117643	223.8793778	0.818629673	0.235772528	0.001630127	MAN1C1	mannosidase, alpha, class 1C, member 1 [Source:HGNC Symbol;Acc:19080]
5929	ENSG00000138028	36.92654722	-1.494591408	0.430518176	0.001632926	CGREF1	cell growth regulator with EF-hand domain 1 [Source:HGNC Symbol;Acc:16962]
5930	ENSG00000102886	729.144564	-0.414642791	0.119443547	0.001633602	GDPD3	glycerophosphodiester phosphodiesterase domain containing 3 [Source:HGNC Symbol;Acc:28638]

5931	ENSG00000008300	85.88066321	1.12044915	0.322790955	0.001635304	CELSR3	cadherin, EGF LAG seven-pass G-type receptor 3 [Source:HGNC Symbol;Acc:3230]
5932	ENSG00000133704	1660.166663	-0.358354949	0.103245064	0.001636327	IPO8	importin 8 [Source:HGNC Symbol;Acc:9853]
5933	ENSG00000206480	205.8347209	-0.745551133	0.21480892	0.001636976	FLOT1	flotillin 1 [Source:HGNC Symbol;Acc:3757]
5934	ENSG00000206379	205.8339374	-0.745477312	0.214810103	0.001638913	FLOT1	flotillin 1 [Source:HGNC Symbol;Acc:3757]
5935	ENSG00000232372	86.95582552	-1.086715039	0.313191616	0.001642256	RP11-504P24.2	
5936	ENSG00000237702	20.47251214	1.823121428	0.525689158	0.001652704	TRBV3-1	T cell receptor beta variable 3-1 [Source:HGNC Symbol;Acc:12212]
5937	ENSG00000260915	16.32199715	1.937487979	0.558748871	0.001655582	TRBV14	T cell receptor beta variable 14 [Source:HGNC Symbol;Acc:12189]
5938	ENSG00000127184	2129.799297	0.295883673	0.085398662	0.001672711	COX7C	cytochrome c oxidase subunit VIIc [Source:HGNC Symbol;Acc:2292]
5939	ENSG00000160226	308.7237283	0.687559372	0.198574033	0.001686479	C21orf2	chromosome 21 open reading frame 2 [Source:HGNC Symbol;Acc:1260]
5940	ENSG00000116830	480.822909	-0.669978839	0.193541693	0.001691257	TTF2	transcription termination factor, RNA polymerase II [Source:HGNC Symbol;Acc:12398]
5941	ENSG00000198205	75.76475962	1.200528496	0.346860758	0.001694443	ZXDA	zinc finger, X-linked, duplicated A [Source:HGNC Symbol;Acc:13198]
5942	ENSG00000100030	7375.256353	-0.218049898	0.063008439	0.001697176	MAPK1	mitogen-activated protein kinase 1 [Source:HGNC Symbol;Acc:6871]
5943	ENSG00000111530	1392.891436	0.332916756	0.096208058	0.001698547	CAND1	cullin-associated and neddylation-dissociated 1 [Source:HGNC Symbol;Acc:30688]
5944	ENSG00000238134	199.2012183	0.793014303	0.229214335	0.001702535	EHMT2	euchromatic histone-lysine N-methyltransferase 2 [Source:HGNC Symbol;Acc:14129]
5945	ENSG00000135446	775.6519775	-0.419155342	0.121159046	0.001703261	CDK4	cyclin-dependent kinase 4 [Source:HGNC Symbol;Acc:1773]
5946	ENSG00000232045	199.2026441	0.79301773	0.229248822	0.00170516	EHMT2	euchromatic histone-lysine N-methyltransferase 2 [Source:HGNC Symbol;Acc:14129]
5947	ENSG00000198721	432.4315583	0.537782674	0.155488295	0.001708238	ECI2	enoyl-CoA delta isomerase 2 [Source:HGNC Symbol;Acc:14601]
5948	ENSG00000186891	13.07971584	1.932062354	0.558931058	0.001720423	TNFRSF18	tumor necrosis factor receptor superfamily, member 18 [Source:HGNC Symbol;Acc:11914]
5949	ENSG00000087269	576.1880888	0.472923961	0.136885348	0.001731777	NOP14	NOP14 nucleolar protein [Source:HGNC Symbol;Acc:16821]
5950	ENSG00000067646	295.0368402	0.638689243	0.184883998	0.001733739	ZFY	zinc finger protein, Y-linked [Source:HGNC Symbol;Acc:12870]
5951	ENSG00000071073	2424.68763	0.311689321	0.090252332	0.001739941	MGAT4A	mannosyl (alpha-1,3-)-glycoprotein beta-1,4-N-acetylglucosaminyltransferase, isozyme A [Source:HGNC Symbol;Acc:7047]
5952	ENSG00000103253	41.32999307	1.489751904	0.431544219	0.001748637	HAGHL	hydroxyacylglutathione hydrolase-like [Source:HGNC Symbol;Acc:14177]
5953	ENSG00000100647	4835.416568	-0.206279756	0.059762908	0.001751466	KIAA0247	KIAA0247 [Source:HGNC Symbol;Acc:19956]
5954	ENSG00000160991	3938.023489	-0.283446424	0.08211994	0.001751466	ORAI2	ORAI calcium release-activated calcium modulator 2 [Source:HGNC Symbol;Acc:21667]
5955	ENSG00000232022	39.97559261	1.495740937	0.433377747	0.001752853	RP5-1109J22.1	
5956	ENSG00000144959	122.5295895	-1.022030445	0.296235593	0.001760998	NCEH1	neutral cholesterol ester hydrolase 1 [Source:HGNC Symbol;Acc:29260]
5957	ENSG00000135074	3508.690127	-0.241639012	0.070051151	0.001764582	ADAM19	ADAM metalloproteinase domain 19 [Source:HGNC Symbol;Acc:197]
5958	ENSG00000081692	122.2489038	0.962409065	0.279010789	0.001764964	JMJD4	jumonji domain containing 4 [Source:HGNC Symbol;Acc:25724]

5959	ENSG00000134200	29.27046157	-1.620437125	0.469798939	0.001765632	TSHB	thyroid stimulating hormone, beta [Source:HGNC Symbol;Acc:12372]
5960	ENSG00000077684	1539.192523	0.327215681	0.094886092	0.001769941	JADE1	jade family PHD finger 1 [Source:HGNC Symbol;Acc:30027]
5961	ENSG00000120051	68.23987245	-1.190400115	0.345321457	0.001778099	CCDC147	coiled-coil domain containing 147 [Source:HGNC Symbol;Acc:26676]
5962	ENSG00000269981	13.40849329	-1.947500234	0.565060259	0.001782331	RP11-34P13.16	
5963	ENSG00000152242	1331.980346	-0.350511422	0.101712017	0.0017848	C18orf25	chromosome 18 open reading frame 25 [Source:HGNC Symbol;Acc:28172]
5964	ENSG00000137460	221.7179666	-0.715999458	0.207787038	0.001786371	FHDC1	FH2 domain containing 1 [Source:HGNC Symbol;Acc:29363]
5965	ENSG00000162769	1096.072961	-0.375683212	0.109026924	0.001786397	FLVCR1	feline leukemia virus subgroup C cellular receptor 1 [Source:HGNC Symbol;Acc:24682]
5966	ENSG00000158417	1566.598098	0.304608479	0.088403538	0.00178692	EIF5B	eukaryotic translation initiation factor 5B [Source:HGNC Symbol;Acc:30793]
5967	ENSG00000146530	19.40806071	-1.818303548	0.52775102	0.001788459	VWDE	von Willebrand factor D and EGF domains [Source:HGNC Symbol;Acc:21897]
5968	ENSG00000229176	28.00670581	-1.846597377	0.535980984	0.001788919	SAPCD1	suppressor APC domain containing 1 [Source:HGNC Symbol;Acc:13938]
5969	ENSG00000075142	988.3490431	-0.357797145	0.103883393	0.001795565	SRI	sorcini [Source:HGNC Symbol;Acc:11292]
5970	ENSG00000067798	138.6070192	-0.880832256	0.2557655	0.001797346	NAV3	neuron navigator 3 [Source:HGNC Symbol;Acc:15998]
5971	ENSG00000272886	739.2873735	0.460943496	0.133856676	0.001799343	AC112218.1	cDNA FLJ53884, highly similar to mRNA decapping enzyme 1A [Source:UniProtKB/TrEMBL;Acc:B4DHN9]
5972	ENSG00000114062	894.0087649	0.383462475	0.11141367	0.001810853	UBE3A	ubiquitin protein ligase E3A [Source:HGNC Symbol;Acc:12496]
5973	ENSG00000213337	148.8846382	0.85884682	0.24957695	0.001814433	ANKRD39	ankyrin repeat domain 39 [Source:HGNC Symbol;Acc:28640]
5974	ENSG00000149534	56.66540948	-1.279815456	0.371938784	0.001816009	MS4A2	membrane-spanning 4-domains, subfamily A, member 2 [Source:HGNC Symbol;Acc:7316]
5975	ENSG00000164849	26.67123492	1.692954595	0.492124222	0.001821311	GPR146	G protein-coupled receptor 146 [Source:HGNC Symbol;Acc:21718]
5976	ENSG00000178878	189.9348601	0.875103606	0.254408616	0.001823295	APOLD1	apolipoprotein L domain containing 1 [Source:HGNC Symbol;Acc:25268]
5977	ENSG00000213639	3363.19795	0.238679225	0.069413905	0.001831516	PPP1CB	protein phosphatase 1, catalytic subunit, beta isozyme [Source:HGNC Symbol;Acc:9282]
5978	ENSG00000214517	442.7270209	-0.524281178	0.15251485	0.001837431	PPME1	protein phosphatase methylesterase 1 [Source:HGNC Symbol;Acc:30178]
5979	ENSG00000258405	38.35331969	1.485978699	0.432384467	0.001843019	ZNF578	zinc finger protein 578 [Source:HGNC Symbol;Acc:26449]
5980	ENSG00000175003	135.7438148	0.956783959	0.278498385	0.00185087	SLC22A1	solute carrier family 22 (organic cation transporter), member 1 [Source:HGNC Symbol;Acc:10963]
5981	ENSG00000124602	122.0222978	1.068891656	0.311148406	0.001851917	UNC5CL	unc-5 homolog C (C. elegans)-like [Source:HGNC Symbol;Acc:21203]
5982	ENSG00000178222	34.66277373	1.555402445	0.453163342	0.001872071	RNF212	ring finger protein 212 [Source:HGNC Symbol;Acc:27729]
5983	ENSG00000125447	2767.624921	-0.277044598	0.080718174	0.001872071	GGA3	golgi-associated, gamma adaptin ear containing, ARF binding protein 3 [Source:HGNC Symbol;Acc:17079]
5984	ENSG00000152520	3405.983052	0.26006766	0.075771963	0.001872071	PAN3	PAN3 poly(A) specific ribonuclease subunit homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:29991]
5985	ENSG00000034693	161.8240828	0.831929527	0.242479178	0.001880817	PEX3	peroxisomal biogenesis factor 3 [Source:HGNC Symbol;Acc:8858]
5986	ENSG00000144354	356.4846304	-0.567275394	0.16538198	0.001886334	CDCA7	cell division cycle associated 7 [Source:HGNC Symbol;Acc:14628]

5987	ENSG00000185862	16601.82833	0.181151544	0.05281604	0.001887642	EVI2B	ecotropic viral integration site 2B [Source:HGNC Symbol;Acc:3500]
5988	ENSG00000164951	514.172919	0.504962693	0.147294347	0.001898505	PDP1	pyruvate dehydrogenase phosphatase catalytic subunit 1 [Source:HGNC Symbol;Acc:9279]
5989	ENSG00000156253	151.2176752	0.852724289	0.24877298	0.001901933	RWDD2B	RWD domain containing 2B [Source:HGNC Symbol;Acc:1302]
5990	ENSG00000155393	491.1041248	0.603898065	0.176232423	0.00190868	HEATR3	HEAT repeat containing 3 [Source:HGNC Symbol;Acc:26087]
5991	ENSG00000124228	1147.203448	0.339060525	0.098957527	0.001911104	DDX27	DEAD (Asp-Glu-Ala-Asp) box polypeptide 27 [Source:HGNC Symbol;Acc:15837]
5992	ENSG00000110013	254.7724702	0.664785426	0.194025659	0.001911122	SIAE	sialic acid acetyltransferase [Source:HGNC Symbol;Acc:18187]
5993	ENSG00000168944	854.7147846	0.417157444	0.121790447	0.00191834	CEP120	centrosomal protein 120kDa [Source:HGNC Symbol;Acc:26690]
5994	ENSG00000167840	102.2373436	1.014148895	0.296201498	0.001927634	ZNF232	zinc finger protein 232 [Source:HGNC Symbol;Acc:13026]
5995	ENSG00000123384	971.8889807	0.459963693	0.134373448	0.001933156	LRP1	low density lipoprotein receptor-related protein 1 [Source:HGNC Symbol;Acc:6692]
5996	ENSG00000206047	118258.4309	-1.494278482	0.436606964	0.001936716	DEFA1	defensin, alpha 1 [Source:HGNC Symbol;Acc:2761]
5997	ENSG00000172766	1013.770667	-0.387451928	0.113225945	0.00194027	NAA16	N(alpha)-acetyltransferase 16, NatA auxiliary subunit [Source:HGNC Symbol;Acc:26164]
5998	ENSG00000145907	2547.83093	0.258413155	0.075529054	0.001943958	G3BP1	GTPase activating protein (SH3 domain) binding protein 1 [Source:HGNC Symbol;Acc:30292]
5999	ENSG00000153395	3464.149622	-0.227285887	0.066439365	0.001946653	LPCAT1	lysophosphatidylcholine acyltransferase 1 [Source:HGNC Symbol;Acc:25718]
6000	ENSG00000185163	399.07373	0.595793057	0.174172658	0.001948107	DDX51	DEAD (Asp-Glu-Ala-Asp) box polypeptide 51 [Source:HGNC Symbol;Acc:20082]
6001	ENSG00000242193	117.3899501	-0.961767861	0.281214794	0.001952489	RP11-568K15.1	
6002	ENSG00000272333	1851.982095	0.362316397	0.105969411	0.001959218	KMT2B	Histone-lysine N-methyltransferase 2B [Source:UniProtKB/Swiss-Prot;Acc:Q9UMN6]
6003	ENSG00000143919	115.2210057	-0.979746351	0.286581151	0.001961241	CAMKMT	calmodulin-lysine N-methyltransferase [Source:HGNC Symbol;Acc:26276]
6004	ENSG00000085871	306.2077111	-0.605594339	0.177274969	0.001979804	MGST2	microsomal glutathione S-transferase 2 [Source:HGNC Symbol;Acc:7063]
6005	ENSG00000140400	2407.305648	-0.26026805	0.076204854	0.00198498	MAN2C1	mannosidase, alpha, class 2C, member 1 [Source:HGNC Symbol;Acc:6827]
6006	ENSG00000204177	174.8097617	0.84277088	0.246814249	0.001990325	BMS1P1	BMS1 pseudogene 1 [Source:HGNC Symbol;Acc:23649]
6007	ENSG00000007202	3739.822489	-0.22474559	0.065824674	0.00199211	KIAA0100	KIAA0100 [Source:HGNC Symbol;Acc:28960]
6008	ENSG00000125877	309.4679257	0.638768578	0.18712541	0.001997054	ITPA	inosine triphosphatase (nucleoside triphosphate pyrophosphatase) [Source:HGNC Symbol;Acc:6176]
6009	ENSG00000149428	1050.064537	0.363533066	0.10650249	0.001998256	HYOU1	hypoxia up-regulated 1 [Source:HGNC Symbol;Acc:16931]
6010	ENSG00000070366	843.9608587	-0.556394907	0.163052802	0.002005385	SMG6	SMG6 nonsense mediated mRNA decay factor [Source:HGNC Symbol;Acc:17809]
6011	ENSG00000123096	12.97773824	1.915029113	0.561401561	0.002013918	SSPN	sarcospan [Source:HGNC Symbol;Acc:11322]
6012	ENSG00000261887	132.9752774	-0.912298166	0.267452154	0.002014225	C5orf30	chromosome 5 open reading frame 30 [Source:HGNC Symbol;Acc:25052]
6013	ENSG00000062598	1886.777852	-0.285366975	0.08370092	0.002026525	ELMO2	engulfment and cell motility 2 [Source:HGNC Symbol;Acc:17233]
6014	ENSG00000132600	409.3338716	0.582741819	0.170950714	0.002030169	PRMT7	protein arginine methyltransferase 7 [Source:HGNC Symbol;Acc:25557]

6015	ENSG00000138073	1114.072123	-0.399046143	0.117083885	0.002034466	PREB	prolactin regulatory element binding [Source:HGNC Symbol;Acc:9356]
6016	ENSG00000105875	732.01306	0.508402672	0.149214746	0.00204174	WDR91	WD repeat domain 91 [Source:HGNC Symbol;Acc:24997]
6017	ENSG00000271885	132.6554733	1.037467407	0.304531135	0.002044532	SRSF8	Homo sapiens serine/arginine-rich splicing factor 8 (SRSF8), transcript variant 1, mRNA. [Source:RefSeq mRNA;Acc:NM_032102]
6018	ENSG00000163938	734.837955	0.417028408	0.122459892	0.002054258	GNL3	guanine nucleotide binding protein-like 3 (nucleolar) [Source:HGNC Symbol;Acc:29931]
6019	ENSG00000161692	287.2595372	-0.647120734	0.190051489	0.002057324	DBF4B	DBF4 homolog B ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:17883]
6020	ENSG00000129195	29.8286283	-1.650008693	0.484636962	0.002059603	FAM64A	family with sequence similarity 64, member A [Source:HGNC Symbol;Acc:25483]
6021	ENSG00000173674	953.4060235	0.36047695	0.105892144	0.002062569	EIF1AX	eukaryotic translation initiation factor 1A, X-linked [Source:HGNC Symbol;Acc:3250]
6022	ENSG00000266592	53.5731662	-1.445144132	0.424636153	0.002069142	AKR1C1	aldo-keto reductase family 1, member C1 [Source:HGNC Symbol;Acc:384]
6023	ENSG00000187134	53.57284662	-1.445124594	0.424637872	0.002069142	AKR1C1	aldo-keto reductase family 1, member C1 [Source:HGNC Symbol;Acc:384]
6024	ENSG00000047932	1027.686647	0.374959338	0.11017896	0.002069142	GOPC	golgi-associated PDZ and coiled-coil motif containing [Source:HGNC Symbol;Acc:17643]
6025	ENSG00000233948	1092.535074	0.348222755	0.102345085	0.002074462	TRIM27	tripartite motif containing 27 [Source:HGNC Symbol;Acc:9975]
6026	ENSG00000002919	1705.739416	-0.319211859	0.093859238	0.002085333	SNX11	sorting nexin 11 [Source:HGNC Symbol;Acc:14975]
6027	ENSG00000214367	698.2034715	0.438533089	0.128975116	0.0020913	HAUS3	HAUS augmin-like complex, subunit 3 [Source:HGNC Symbol;Acc:28719]
6028	ENSG00000136830	209.5631592	-0.794618718	0.233767465	0.002098251	FAM129B	family with sequence similarity 129, member B [Source:HGNC Symbol;Acc:25282]
6029	ENSG00000119541	1881.957865	0.28132158	0.08276624	0.002099398	VPS4B	vacuolar protein sorting 4 homolog B ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:10895]
6030	ENSG00000170340	1148.714431	-0.340707294	0.100243366	0.002100494	B3GNT2	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 2 [Source:HGNC Symbol;Acc:15629]
6031	ENSG00000166002	123.6666515	0.967473771	0.284691633	0.002103832	SMCO4	single-pass membrane protein with coiled-coil domains 4 [Source:HGNC Symbol;Acc:24810]
6032	ENSG00000169439	30.96246964	1.748246583	0.514495927	0.002106117	SDC2	syndecan 2 [Source:HGNC Symbol;Acc:10659]
6033	ENSG00000137312	220.807759	-0.701176538	0.20640002	0.002111728	FLOT1	flotillin 1 [Source:HGNC Symbol;Acc:3757]
6034	ENSG00000122026	1051.758698	0.40051552	0.117898132	0.002111728	RPL21	ribosomal protein L21 [Source:HGNC Symbol;Acc:10313]
6035	ENSG00000174482	14.96217216	1.890134128	0.556393853	0.002111728	LINGO2	leucine rich repeat and Ig domain containing 2 [Source:HGNC Symbol;Acc:21207]
6036	ENSG00000178896	61.89564881	-1.207260502	0.355434073	0.002115508	EXOSC4	exosome component 4 [Source:HGNC Symbol;Acc:18189]
6037	ENSG00000087263	465.3315763	0.49811694	0.146679304	0.002119965	OGFOD1	2-oxoglutarate and iron-dependent oxygenase domain containing 1 [Source:HGNC Symbol;Acc:25585]
6038	ENSG00000147155	305.8088709	-0.598735453	0.176378369	0.002130101	EBP	emopamil binding protein (sterol isomerase) [Source:HGNC Symbol;Acc:3133]
6039	ENSG00000124198	946.3305846	0.400420129	0.117986529	0.002136212	ARFGEF2	ADP-ribosylation factor guanine nucleotide-exchange factor 2 (brefeldin A-inhibited) [Source:HGNC Symbol;Acc:15853]
6040	ENSG00000184402	621.5368089	-0.435221309	0.1282443	0.002136553	SS18L1	synovial sarcoma translocation gene on chromosome 18-like 1 [Source:HGNC Symbol;Acc:15592]
6041	ENSG00000175911	44.13201964	-1.398944427	0.412300723	0.002141299	AC127496.1	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q9HBN7]
6042	ENSG00000183748	58.01311632	1.274903729	0.375746298	0.002141299	MRC1L1	cDNA FLJ56855, highly similar to Macrophage mannose receptor 1 [Source:UniProtKB/TrEMBL;Acc:B4DLK9]

6043	ENSG00000268394	305.9545614	-0.598876947	0.176566879	0.002150386	EBP	emopamil binding protein (sterol isomerase) [Source:HGNC Symbol;Acc:3133]
6044	ENSG00000213420	79.94488131	1.190968213	0.351173412	0.002153084	GPC2	glypican 2 [Source:HGNC Symbol;Acc:4450]
6045	ENSG00000167842	428.1017213	0.548032	0.161668734	0.00216485	MIS12	MIS12 kinetochore complex component [Source:HGNC Symbol;Acc:24967]
6046	ENSG00000174775	107.3141032	1.033119866	0.304772034	0.00216485	HRAS	Harvey rat sarcoma viral oncogene homolog [Source:HGNC Symbol;Acc:5173]
6047	ENSG00000070047	510.9196048	0.574439284	0.169467646	0.002165416	PHRF1	PHD and ring finger domains 1 [Source:HGNC Symbol;Acc:24351]
6048	ENSG00000179476	107.9169691	1.021728333	0.301425946	0.002165416	C14orf28	chromosome 14 open reading frame 28 [Source:HGNC Symbol;Acc:19834]
6049	ENSG00000116406	2540.392404	-0.289518304	0.08543738	0.002172879	EDEM3	ER degradation enhancer, mannosidase alpha-like 3 [Source:HGNC Symbol;Acc:16787]
6050	ENSG00000271254	111.2582858	1.049474698	0.309727202	0.002174714	NBPF10	Putative neuroblastoma breakpoint family member 8 [Source:UniProtKB/TrEMBL;Acc:H7BY69]
6051	ENSG00000272636	22.1950079	-1.70120347	0.502103831	0.002176205	DOC2B	double C2-like domains, beta [Source:HGNC Symbol;Acc:2986]
6052	ENSG00000123119	65.7714294	-1.180547895	0.348447534	0.002176867	NECAB1	N-terminal EF-hand calcium binding protein 1 [Source:HGNC Symbol;Acc:20983]
6053	ENSG00000268429	22.19425634	-1.701063847	0.502106336	0.002177827	DOC2B	double C2-like domains, beta [Source:HGNC Symbol;Acc:2986]
6054	ENSG00000114738	2862.987805	-0.238181485	0.070305436	0.002177827	MAPKAPK3	mitogen-activated protein kinase-activated protein kinase 3 [Source:HGNC Symbol;Acc:6888]
6055	ENSG00000272670	22.19382409	-1.700981791	0.502107853	0.002178486	DOC2B	double C2-like domains, beta [Source:HGNC Symbol;Acc:2986]
6056	ENSG00000026559	33.28831023	1.543187164	0.455556897	0.002179779	KCNG1	potassium voltage-gated channel, subfamily G, member 1 [Source:HGNC Symbol;Acc:6248]
6057	ENSG00000132603	350.2127865	0.64070015	0.189185759	0.00218622	NIP7	NIP7, nucleolar pre-rRNA processing protein [Source:HGNC Symbol;Acc:24328]
6058	ENSG00000213648	1179.256105	-0.50932177	0.150445181	0.002195345	SULT1A4	sulfotransferase family, cytosolic, 1A, phenol-preferring, member 4 [Source:HGNC Symbol;Acc:30004]
6059	ENSG00000188596	247.9306591	-0.686898069	0.202981743	0.002206144	C12orf55	chromosome 12 open reading frame 55 [Source:HGNC Symbol;Acc:26456]
6060	ENSG00000139146	836.7265969	0.459250148	0.135758412	0.00221536	FAM60A	family with sequence similarity 60, member A [Source:HGNC Symbol;Acc:30702]
6061	ENSG00000101363	362.3845868	0.576732979	0.170542868	0.002223888	MANBAL	mannosidase, beta A, lysosomal-like [Source:HGNC Symbol;Acc:15799]
6062	ENSG00000110888	1007.374719	-0.364013177	0.107651589	0.002226331	CAPRN2	caprin family member 2 [Source:HGNC Symbol;Acc:21259]
6063	ENSG00000165516	749.1628682	0.46739324	0.138233547	0.002227711	KLHDC2	kelch domain containing 2 [Source:HGNC Symbol;Acc:20231]
6064	ENSG00000106723	817.7729933	0.41927096	0.124032968	0.00223438	SPIN1	spindlin 1 [Source:HGNC Symbol;Acc:11243]
6065	ENSG00000173281	1745.857572	0.301058631	0.089066948	0.002235475	PPP1R3B	protein phosphatase 1, regulatory subunit 3B [Source:HGNC Symbol;Acc:14942]
6066	ENSG00000112282	1499.504226	-0.308821349	0.091375436	0.002238581	MED23	mediator complex subunit 23 [Source:HGNC Symbol;Acc:2372]
6067	ENSG00000143740	223.0783317	0.733663283	0.217081567	0.002238581	SNAP47	synaptosomal-associated protein, 47kDa [Source:HGNC Symbol;Acc:30669]
6068	ENSG00000127884	475.3374376	0.490595688	0.145225385	0.002250448	ECHS1	enoyl CoA hydratase, short chain, 1, mitochondrial [Source:HGNC Symbol;Acc:3151]
6069	ENSG00000187695	62.02310963	1.257520733	0.372273673	0.002251883	RP11-723O4.6	Uncharacterized protein FLJ43738 [Source:UniProtKB/Swiss-Prot;Acc:Q6ZUG5]
6070	ENSG00000241945	409.6282416	0.568340552	0.16825277	0.00225192	PWP2	PWP2 periodic tryptophan protein homolog (yeast) [Source:HGNC Symbol;Acc:9711]

6071	ENSG00000196532	6.48585724	-1.843854551	0.546002631	0.00225885	HIST1H3C	histone cluster 1, H3c [Source:HGNC Symbol;Acc:4768]
6072	ENSG00000101336	10117.18524	-0.166651025	0.049352811	0.002260767	HCK	hemopoietic cell kinase [Source:HGNC Symbol;Acc:4840]
6073	ENSG00000143153	47.20685211	1.352799704	0.400648627	0.002262073	ATP1B1	ATPase, Na <sup>+</sup> /K <sup>+</sup> transporting, beta 1 polypeptide [Source:HGNC Symbol;Acc:804]
6074	ENSG00000143614	1199.782078	0.351153365	0.104007085	0.002263998	GATAD2B	GATA zinc finger domain containing 2B [Source:HGNC Symbol;Acc:30778]
6075	ENSG00000083812	144.266433	0.864130279	0.256061747	0.00227641	ZNF324	zinc finger protein 324 [Source:HGNC Symbol;Acc:14096]
6076	ENSG00000197122	447.8389414	0.528381433	0.156590619	0.002279425	SRC	v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog [Source:HGNC Symbol;Acc:11283]
6077	ENSG00000196110	138.3824465	0.897126613	0.265953889	0.00228771	ZNF699	zinc finger protein 699 [Source:HGNC Symbol;Acc:24750]
6078	ENSG00000260189	62.31184026	-1.197830797	0.355162575	0.002292444	EXOSC4	exosome component 4 [Source:HGNC Symbol;Acc:18189]
6079	ENSG00000115368	705.9052647	0.434084961	0.128710778	0.002292613	WDR75	WD repeat domain 75 [Source:HGNC Symbol;Acc:25725]
6080	ENSG00000161298	97.18527393	1.102828827	0.327134629	0.002303782	ZNF382	zinc finger protein 382 [Source:HGNC Symbol;Acc:17409]
6081	ENSG00000159202	1910.957037	0.291042938	0.086344663	0.002307302	UBE2Z	ubiquitin-conjugating enzyme E2Z [Source:HGNC Symbol;Acc:25847]
6082	ENSG00000106080	191.5625528	-0.810320255	0.240411497	0.002308229	FKBP14	FK506 binding protein 14, 22 kDa [Source:HGNC Symbol;Acc:18625]
6083	ENSG00000170606	1604.892623	-0.325963247	0.096716603	0.002310052	HSPA4	heat shock 70kDa protein 4 [Source:HGNC Symbol;Acc:5237]
6084	ENSG00000087111	1374.453976	-0.324319736	0.096231602	0.002310449	PIGS	phosphatidylinositol glycan anchor biosynthesis, class S [Source:HGNC Symbol;Acc:14937]
6085	ENSG00000166266	649.5319129	-0.481010884	0.14275967	0.002316993	CUL5	cullin 5 [Source:HGNC Symbol;Acc:2556]
6086	ENSG00000170471	2513.099376	-0.327730711	0.09727152	0.002317759	RALGAPB	Ral GTPase activating protein, beta subunit (non-catalytic) [Source:HGNC Symbol;Acc:29221]
6087	ENSG00000187186	28.22350216	-1.654201883	0.490978582	0.002317759	RP11-195F19.5	HCG2040265, isoform CRA_a; Uncharacterized protein; cDNA FLJ50015 [Source:UniProtKB/TrEMBL;Acc:B7Z3J9]
6088	ENSG00000080806	57.35050276	-1.269392099	0.376813503	0.002321074	CDKL5	cyclin-dependent kinase-like 5 [Source:HGNC Symbol;Acc:11411]
6089	ENSG00000117419	224.2627824	0.707500644	0.210044332	0.002324187	ERI3	ERI1 exoribonuclease family member 3 [Source:HGNC Symbol;Acc:17276]
6090	ENSG00000172071	473.4548136	0.58608426	0.174018071	0.002327087	EIF2AK3	eukaryotic translation initiation factor 2-alpha kinase 3 [Source:HGNC Symbol;Acc:3255]
6091	ENSG00000261992	1200.211599	0.350058058	0.103941143	0.002327563	GATAD2B	GATA zinc finger domain containing 2B [Source:HGNC Symbol;Acc:30778]
6092	ENSG00000206052	56.8615018	1.357109884	0.402981441	0.002328662	DOK6	docking protein 6 [Source:HGNC Symbol;Acc:28301]
6093	ENSG00000054118	3892.046578	0.26635682	0.079095067	0.002329298	THRAP3	thyroid hormone receptor associated protein 3 [Source:HGNC Symbol;Acc:22964]
6094	ENSG00000136280	3154.658103	0.357509494	0.106171515	0.0023312	CCM2	cerebral cavernous malformation 2 [Source:HGNC Symbol;Acc:21708]
6095	ENSG00000269671	475.3453597	0.511211388	0.151820152	0.002331372	RABL2B	RAB, member of RAS oncogene family-like 2B [Source:HGNC Symbol;Acc:9800]
6096	ENSG00000181751	132.4713238	-0.901349264	0.26781829	0.002345329	C5orf30	chromosome 5 open reading frame 30 [Source:HGNC Symbol;Acc:25052]
6097	ENSG00000185596	1647.750635	-0.415319159	0.123410714	0.002346511	WASH3P	WAS protein family homolog 3 pseudogene [Source:HGNC Symbol;Acc:24362]
6098	ENSG00000159335	532.2776123	-0.46962614	0.139612979	0.002359378	PTMS	parathyrosin [Source:HGNC Symbol;Acc:9629]



6099	ENSG00000100201	43159.648	-0.166533735	0.04950848	0.002359378	DDX17	DEAD (Asp-Glu-Ala-Asp) box helicase 17 [Source:HGNC Symbol;Acc:2740]
6100	ENSG00000165181	99.6531981	-1.01023734	0.300484902	0.00237317	C9orf84	chromosome 9 open reading frame 84 [Source:HGNC Symbol;Acc:26535]
6101	ENSG00000205765	770.2759335	0.413618948	0.123027388	0.00237317	C5orf51	chromosome 5 open reading frame 51 [Source:HGNC Symbol;Acc:27750]
6102	ENSG00000140474	859.8556294	0.425632639	0.126601141	0.00237317	ULK3	unc-51 like kinase 3 [Source:HGNC Symbol;Acc:19703]
6103	ENSG00000228601	51.52633779	1.433674452	0.426537085	0.002379678	RPL39P	ribosomal protein L39 pseudogene [Source:HGNC Symbol;Acc:16558]
6104	ENSG00000154764	27.0593716	1.656577275	0.493045621	0.002390589	WNT7A	wingless-type MMTV integration site family, member 7A [Source:HGNC Symbol;Acc:12786]
6105	ENSG00000262485	320.0686074	0.5971929	0.177767575	0.002394384	TUSC2	tumor suppressor candidate 2 [Source:HGNC Symbol;Acc:17034]
6106	ENSG00000079974	475.2257325	0.510377467	0.151933622	0.002395633	RABL2B	RAB, member of RAS oncogene family-like 2B [Source:HGNC Symbol;Acc:9800]
6107	ENSG00000165105	118.3230211	-0.972313811	0.289494925	0.002400079	RASEF	RAS and EF-hand domain containing [Source:HGNC Symbol;Acc:26464]
6108	ENSG00000155959	545.8066989	-0.536347697	0.159751297	0.002410685	VBP1	von Hippel-Lindau binding protein 1 [Source:HGNC Symbol;Acc:12662]
6109	ENSG00000099953	36.99400476	1.498765166	0.446430114	0.002411768	MMP11	matrix metalloproteinase 11 (stromelysin 3) [Source:HGNC Symbol;Acc:7157]
6110	ENSG00000140382	731.5904761	0.410940266	0.122409822	0.002412565	HMG20A	high mobility group 20A [Source:HGNC Symbol;Acc:5001]
6111	ENSG00000177565	2593.628896	-0.254230139	0.07573559	0.002414559	TBL1XR1	transducin (beta)-like 1 X-linked receptor 1 [Source:HGNC Symbol;Acc:29529]
6112	ENSG00000143543	2308.883327	0.277118255	0.082567851	0.002419086	JTB	jumping translocation breakpoint [Source:HGNC Symbol;Acc:6201]
6113	ENSG00000186866	651.6288813	0.455459529	0.135710795	0.002419958	POFUT2	protein O-fucosyltransferase 2 [Source:HGNC Symbol;Acc:14683]
6114	ENSG00000154114	247.6954947	0.693282871	0.206622614	0.00242652	TBCEL	tubulin folding cofactor E-like [Source:HGNC Symbol;Acc:28115]
6115	ENSG00000211716	24.57886294	1.692402232	0.504425971	0.00242763	TRBV9	T cell receptor beta variable 9 [Source:HGNC Symbol;Acc:12246]
6116	ENSG00000173145	206.9826512	0.756710568	0.225540878	0.00242763	NOC3L	nucleolar complex associated 3 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:24034]
6117	ENSG00000160752	1502.441311	-0.311192599	0.09277382	0.002434068	FDP5	farnesyl diphosphate synthase [Source:HGNC Symbol;Acc:3631]
6118	ENSG00000102362	52.11513797	-1.288239576	0.384149087	0.002440948	SYTL4	synaptotagmin-like 4 [Source:HGNC Symbol;Acc:15588]
6119	ENSG00000180228	375.8284184	0.555976569	0.165810827	0.002444176	PRKRA	protein kinase, interferon-inducible double stranded RNA dependent activator [Source:HGNC Symbol;Acc:9438]
6120	ENSG00000104960	2194.320613	0.683950575	0.203997389	0.002446743	PTOV1	prostate tumor overexpressed 1 [Source:HGNC Symbol;Acc:9632]
6121	ENSG00000149639	256.9143983	0.670425779	0.199986437	0.002449753	SOGA1	suppressor of glucose, autophagy associated 1 [Source:HGNC Symbol;Acc:16111]
6122	ENSG00000130487	32.14234141	1.596615401	0.476279021	0.002450125	KLHDC7B	kelch domain containing 7B [Source:HGNC Symbol;Acc:25145]
6123	ENSG00000261768	63.93421899	1.211660707	0.361518099	0.002455349	SLC2A6	solute carrier family 2 (facilitated glucose transporter), member 6 [Source:HGNC Symbol;Acc:11011]
6124	ENSG00000160326	63.9342222	1.211660376	0.361518201	0.002455349	SLC2A6	solute carrier family 2 (facilitated glucose transporter), member 6 [Source:HGNC Symbol;Acc:11011]
6125	ENSG00000143951	586.2092	-0.479274254	0.143020016	0.002459294	WDPCP	WD repeat containing planar cell polarity effector [Source:HGNC Symbol;Acc:28027]
6126	ENSG00000174032	502.4615749	0.49996288	0.149213567	0.002462857	SLC25A30	solute carrier family 25, member 30 [Source:HGNC Symbol;Acc:27371]

6127	ENSG00000131876	734.6946719	0.422689543	0.126154388	0.002463162	SNRPA1	small nuclear ribonucleoprotein polypeptide A' [Source:HGNC Symbol;Acc:11152]
6128	ENSG00000134744	1696.546325	-0.339839363	0.101437279	0.002465716	ZCHC11	zinc finger, CCHC domain containing 11 [Source:HGNC Symbol;Acc:28981]
6129	ENSG00000173846	503.7858782	0.507014951	0.151375256	0.002472783	PLK3	polo-like kinase 3 [Source:HGNC Symbol;Acc:2154]
6130	ENSG00000112212	18.31607797	-1.754298903	0.523771673	0.002472783	TSPO2	translocator protein 2 [Source:HGNC Symbol;Acc:21256]
6131	ENSG00000197779	232.8041313	-0.691691534	0.206562933	0.002479375	ZNF81	zinc finger protein 81 [Source:HGNC Symbol;Acc:13156]
6132	ENSG00000262744	356.7047931	0.584127178	0.174492798	0.002487963	RHBDD2	rhomboid domain containing 2 [Source:HGNC Symbol;Acc:23082]
6133	ENSG00000177191	453.8346043	-0.626653364	0.187210388	0.002489628	B3GNT8	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 8 [Source:HGNC Symbol;Acc:24139]
6134	ENSG00000166548	635.8197482	-0.588616067	0.175848229	0.002489628	TK2	thymidine kinase 2, mitochondrial [Source:HGNC Symbol;Acc:11831]
6135	ENSG00000136444	666.4061979	0.43798266	0.130857712	0.002491751	RSAD1	radical S-adenosyl methionine domain containing 1 [Source:HGNC Symbol;Acc:25634]
6136	ENSG00000119718	314.4899561	-0.586152533	0.175156526	0.002496424	EIF2B2	eukaryotic translation initiation factor 2B, subunit 2 beta, 39kDa [Source:HGNC Symbol;Acc:3258]
6137	ENSG00000126861	258.0914751	-0.664537277	0.198584193	0.002496687	OMG	oligodendrocyte myelin glycoprotein [Source:HGNC Symbol;Acc:8135]
6138	ENSG00000267825	920.4374319	0.387532862	0.115838061	0.002504437	ZNF185	zinc finger protein 185 (LIM domain) [Source:HGNC Symbol;Acc:12976]
6139	ENSG00000168062	104.8015348	-1.029781681	0.30794915	0.002516759	BATF2	basic leucine zipper transcription factor, ATF-like 2 [Source:HGNC Symbol;Acc:25163]
6140	ENSG00000126217	65.45498402	1.29054165	0.38592776	0.002516759	MCF2L	MCF.2 cell line derived transforming sequence-like [Source:HGNC Symbol;Acc:14576]
6141	ENSG00000185414	38.91910086	1.572929617	0.470377342	0.002516759	MRPL30	mitochondrial ribosomal protein L30 [Source:HGNC Symbol;Acc:14036]
6142	ENSG00000154654	6.6682028	-1.842785107	0.551311209	0.0025293	NCAM2	neural cell adhesion molecule 2 [Source:HGNC Symbol;Acc:7657]
6143	ENSG00000114383	319.7198079	0.595020898	0.178025012	0.002530076	TUSC2	tumor suppressor candidate 2 [Source:HGNC Symbol;Acc:17034]
6144	ENSG00000204237	316.1022457	0.642376777	0.19219393	0.002530076	OXL1	oxidoreductase-like domain containing 1 [Source:HGNC Symbol;Acc:27901]
6145	ENSG00000100836	5859.386021	-0.220942951	0.06610449	0.002530076	PABPN1	poly(A) binding protein, nuclear 1 [Source:HGNC Symbol;Acc:8565]
6146	ENSG0000055044	886.4087593	0.381840454	0.114249308	0.002531126	NOP58	NOP58 ribonucleoprotein [Source:HGNC Symbol;Acc:29926]
6147	ENSG00000197301	77.77469338	-1.112409025	0.332856205	0.002532154	RP11-366L20.2	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:B7WP15]
6148	ENSG00000139350	548.1981202	-0.482105024	0.14429165	0.002539289	NEDD1	neural precursor cell expressed, developmentally down-regulated 1 [Source:HGNC Symbol;Acc:7723]
6149	ENSG00000243492	40.35278747	-1.493116956	0.447001383	0.002547013	HLA-L	major histocompatibility complex, class I, L (pseudogene) [Source:HGNC Symbol;Acc:4970]
6150	ENSG00000141543	1030.845523	-0.344554134	0.10315654	0.00254831	EIF4A3	eukaryotic translation initiation factor 4A3 [Source:HGNC Symbol;Acc:18683]
6151	ENSG00000121774	2366.338443	0.257085636	0.076970461	0.002548388	KHDRBS1	KH domain containing, RNA binding, signal transduction associated 1 [Source:HGNC Symbol;Acc:18116]
6152	ENSG00000147394	920.3047518	0.386843718	0.115859179	0.002558479	ZNF185	zinc finger protein 185 (LIM domain) [Source:HGNC Symbol;Acc:12976]
6153	ENSG00000183638	232.8075024	-0.684558623	0.205038907	0.00256024	RP11	retinitis pigmentosa 1-like 1 [Source:HGNC Symbol;Acc:15946]
6154	ENSG00000105520	2528.250465	-0.290437705	0.087006024	0.002564836	DKFZP761J1410	Lipid phosphate phosphatase-related protein type 2 [Source:UniProtKB/Swiss-Prot;Acc:Q96GM1]

6155	ENSG00000054983	1253.336108	-0.393942027	0.118042836	0.002572304	GALC	galactosylceramidase [Source:HGNC Symbol;Acc:4115]
6156	ENSG00000170417	248.2983518	-0.739719062	0.22166172	0.002573064	TMEM182	transmembrane protein 182 [Source:HGNC Symbol;Acc:26391]
6157	ENSG00000163468	1549.465957	0.292462766	0.087641793	0.00257384	CCT3	chaperonin containing TCP1, subunit 3 (gamma) [Source:HGNC Symbol;Acc:1616]
6158	ENSG00000177427	131.8050961	0.936366091	0.280610442	0.002574496	MIEF2	mitochondrial elongation factor 2 [Source:HGNC Symbol;Acc:17920]
6159	ENSG00000176641	22.12139019	-1.717477077	0.514698124	0.002574496	RNF152	ring finger protein 152 [Source:HGNC Symbol;Acc:26811]
6160	ENSG00000242802	921.3523814	0.503026545	0.150796169	0.002583897	AP5Z1	adaptor-related protein complex 5, zeta 1 subunit [Source:HGNC Symbol;Acc:22197]
6161	ENSG00000230705	325.6551826	0.608191549	0.182468685	0.002608457	TAP1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) [Source:HGNC Symbol;Acc:43]
6162	ENSG00000185986	145.5324647	0.902812757	0.270875117	0.002609723	SDHAP3	succinate dehydrogenase complex, subunit A, flavoprotein pseudogene 3 [Source:HGNC Symbol;Acc:18781]
6163	ENSG00000204257	26.81290401	1.602930879	0.480945939	0.002610022	HLA-DMA	major histocompatibility complex, class II, DM alpha [Source:HGNC Symbol;Acc:4934]
6164	ENSG00000141337	398.2083235	-0.554854478	0.166493437	0.002612231	ARSG	arylsulfatase G [Source:HGNC Symbol;Acc:24102]
6165	ENSG00000156869	28.93520592	-1.555473832	0.466767728	0.002613255	FRRS1	ferric-chelate reductase 1 [Source:HGNC Symbol;Acc:27622]
6166	ENSG00000124217	90.07689808	1.053068373	0.316023705	0.002614596	MOCS3	molybdenum cofactor synthesis 3 [Source:HGNC Symbol;Acc:15765]
6167	ENSG00000135439	1319.063507	-0.309016829	0.092736483	0.002614596	AGAP2	ArfGAP with GTPase domain, ankyrin repeat and PH domain 2 [Source:HGNC Symbol;Acc:16921]
6168	ENSG00000213079	1499.028631	0.374860895	0.112499038	0.002614906	SCAF8	SR-related CTD-associated factor 8 [Source:HGNC Symbol;Acc:20959]
6169	ENSG00000138604	172.6538723	-0.792192909	0.237806737	0.002622749	GLCE	glucuronic acid epimerase [Source:HGNC Symbol;Acc:17855]
6170	ENSG00000127955	73.1030753	1.439787832	0.432262225	0.002626343	GNAI1	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 1 [Source:HGNC Symbol;Acc:4384]
6171	ENSG00000132256	555.2277608	0.475244343	0.142689941	0.002627692	TRIM5	tripartite motif containing 5 [Source:HGNC Symbol;Acc:16276]
6172	ENSG00000229453	115.3662436	-0.935627669	0.280919735	0.002627692	SPINK8	serine peptidase inhibitor, Kazal type 8 (putative) [Source:HGNC Symbol;Acc:33160]
6173	ENSG00000213221	44.10179826	1.412492173	0.424165388	0.002632336	DNLZ	DNL-type zinc finger [Source:HGNC Symbol;Acc:33879]
6174	ENSG00000173726	1541.180108	0.351956543	0.105712765	0.002638382	TOMM20	translocase of outer mitochondrial membrane 20 homolog (yeast) [Source:HGNC Symbol;Acc:20947]
6175	ENSG00000111725	971.8790781	-0.401504183	0.120620747	0.002644756	PRKAB1	protein kinase, AMP-activated, beta 1 non-catalytic subunit [Source:HGNC Symbol;Acc:9378]
6176	ENSG00000108556	73.30959143	1.164767259	0.349957379	0.002647535	CHRNE	cholinergic receptor, nicotinic, epsilon (muscle) [Source:HGNC Symbol;Acc:1966]
6177	ENSG00000065923	49.83825004	1.302324765	0.391319702	0.002649759	SLC9A7	solute carrier family 9, subfamily A (NHE7, cation proton antiporter 7), member 7 [Source:HGNC Symbol;Acc:17123]
6178	ENSG00000271342	49.83770614	1.30224126	0.391319674	0.002651358	SLC9A7	solute carrier family 9, subfamily A (NHE7, cation proton antiporter 7), member 7 [Source:HGNC Symbol;Acc:17123]
6179	ENSG00000005486	357.2326676	0.580863232	0.174582237	0.002657201	RHBDD2	rhomboid domain containing 2 [Source:HGNC Symbol;Acc:23082]
6180	ENSG00000256812	30.78149329	-1.522893925	0.457785575	0.002661616	CAPNS2	calpain, small subunit 2 [Source:HGNC Symbol;Acc:16371]
6181	ENSG00000270647	1503.21122	0.313766476	0.094331508	0.002665415	TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68kDa [Source:HGNC Symbol;Acc:11547]
6182	ENSG00000227816	325.4888335	0.607626804	0.182698354	0.002668463	TAP1	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) [Source:HGNC Symbol;Acc:43]

6183	ENSG00000258352	36.48766868	1.486829314	0.447074732	0.002669593	RP11-23J18.1	
6184	ENSG00000231997	41.88791459	-1.381470547	0.415449042	0.002673352	FAM27D1	family with sequence similarity 27, member D1 [Source:HGNC Symbol;Acc:32015]
6185	ENSG00000107816	314.1079024	0.654607404	0.196939361	0.002685742	LZTS2	leucine zipper, putative tumor suppressor 2 [Source:HGNC Symbol;Acc:29381]
6186	ENSG00000092470	284.4838245	-0.61433735	0.184826079	0.002685742	WDR76	WD repeat domain 76 [Source:HGNC Symbol;Acc:25773]
6187	ENSG00000263074	398.0166933	-0.554085338	0.166733614	0.00269196	ARSG	arylsulfatase G [Source:HGNC Symbol;Acc:24102]
6188	ENSG00000205047	248.5311441	0.743581712	0.223882283	0.00270963	FLJ00104	HCG1980662; Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q86VH3]
6189	ENSG00000100417	501.3951995	-0.51347618	0.154613371	0.002711845	PMM1	phosphomannomutase 1 [Source:HGNC Symbol;Acc:9114]
6190	ENSG00000237765	1028.169692	-0.382003039	0.115038064	0.002714975	FAM200B	family with sequence similarity 200, member B [Source:HGNC Symbol;Acc:27740]
6191	ENSG00000169718	864.4884973	0.405698149	0.122185002	0.002717522	DUS1L	dihydrouridine synthase 1-like ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:30086]
6192	ENSG00000205763	82.896396	-1.048047623	0.315742229	0.002727278	RP9P	retinitis pigmentosa 9 pseudogene [Source:HGNC Symbol;Acc:33969]
6193	ENSG00000082641	1541.014064	0.298197043	0.089881143	0.00274282	NFE2L1	nuclear factor, erythroid 2-like 1 [Source:HGNC Symbol;Acc:7781]
6194	ENSG00000172660	1503.137355	0.312914287	0.094363836	0.002758537	TAF15	TAF15 RNA polymerase II, TATA box binding protein (TBP)-associated factor, 68kDa [Source:HGNC Symbol;Acc:11547]
6195	ENSG00000125482	434.9528528	0.570744435	0.172123874	0.002759541	TTF1	transcription termination factor, RNA polymerase I [Source:HGNC Symbol;Acc:12397]
6196	ENSG00000116044	1539.546769	0.313351673	0.094508145	0.002761946	NFE2L2	nuclear factor, erythroid 2-like 2 [Source:HGNC Symbol;Acc:7782]
6197	ENSG00000269594	232.7634168	-0.688100783	0.207547839	0.002763684	ZNF81	zinc finger protein 81 [Source:HGNC Symbol;Acc:13156]
6198	ENSG00000236315	27.01783663	1.611267927	0.486013441	0.0027639	NCR3	natural cytotoxicity triggering receptor 3 [Source:HGNC Symbol;Acc:19077]
6199	ENSG00000204475	27.01785281	1.611274188	0.486015691	0.0027639	NCR3	natural cytotoxicity triggering receptor 3 [Source:HGNC Symbol;Acc:19077]
6200	ENSG00000236979	27.0169188	1.611146988	0.486016478	0.002766096	NCR3	natural cytotoxicity triggering receptor 3 [Source:HGNC Symbol;Acc:19077]
6201	ENSG00000237103	27.01649983	1.611079694	0.486014956	0.002766528	NCR3	natural cytotoxicity triggering receptor 3 [Source:HGNC Symbol;Acc:19077]
6202	ENSG00000206430	27.01656247	1.611081501	0.486016346	0.002766528	NCR3	natural cytotoxicity triggering receptor 3 [Source:HGNC Symbol;Acc:19077]
6203	ENSG00000154839	76.46976171	-1.123115072	0.338875644	0.002772337	SKA1	spindle and kinetochore associated complex subunit 1 [Source:HGNC Symbol;Acc:28109]
6204	ENSG00000130177	1316.134616	0.327025598	0.09868804	0.002776938	CDC16	cell division cycle 16 [Source:HGNC Symbol;Acc:1720]
6205	ENSG00000125148	121.6672547	0.993750757	0.299994239	0.002788077	MT2A	metallothionein 2A [Source:HGNC Symbol;Acc:7406]
6206	ENSG00000104388	1480.637243	-0.31383941	0.094784222	0.002802341	RAB2A	RAB2A, member RAS oncogene family [Source:HGNC Symbol;Acc:9763]
6207	ENSG00000119457	62.49493579	1.236002754	0.373317361	0.002804194	SLC46A2	solute carrier family 46, member 2 [Source:HGNC Symbol;Acc:16055]
6208	ENSG00000059758	840.3810011	0.3859994	0.116607219	0.002809863	CDK17	cyclin-dependent kinase 17 [Source:HGNC Symbol;Acc:8750]
6209	ENSG00000135956	3638.214085	0.213772753	0.06458197	0.002810937	TMEM127	transmembrane protein 127 [Source:HGNC Symbol;Acc:26038]
6210	ENSG00000007545	807.6410844	0.429554446	0.129772563	0.002810937	CRAMP1L	Crm, cramped-like ( <i>Drosophila</i> ) [Source:HGNC Symbol;Acc:14122]

6211	ENSG00000134548	14.15051539	1.848516272	0.558601741	0.002819246	C12orf39	chromosome 12 open reading frame 39 [Source:HGNC Symbol;Acc:28139]
6212	ENSG00000262664	279.3104754	0.620898595	0.187671083	0.002826294	OVCA2	ovarian tumor suppressor candidate 2 [Source:HGNC Symbol;Acc:24203]
6213	ENSG00000088298	1274.22941	-0.317165753	0.09589507	0.002836104	EDEM2	ER degradation enhancer, mannosidase alpha-like 2 [Source:HGNC Symbol;Acc:15877]
6214	ENSG00000049618	1367.61855	0.303114899	0.091652278	0.002837262	ARID1B	AT rich interactive domain 1B (SWI1-like) [Source:HGNC Symbol;Acc:18040]
6215	ENSG00000140992	2378.424265	-0.281728328	0.085185831	0.002837262	PDPK1	3-phosphoinositide dependent protein kinase-1 [Source:HGNC Symbol;Acc:8816]
6216	ENSG00000157353	502.5510366	-0.462800209	0.139938642	0.002837365	FUK	fucokinase [Source:HGNC Symbol;Acc:29500]
6217	ENSG00000261031	25.25606386	1.65208375	0.499720404	0.002848568	TRBV9	T cell receptor beta variable 9 [Source:HGNC Symbol;Acc:12246]
6218	ENSG00000158526	527.367462	0.469949458	0.1421522	0.002848683	TSR2	TSR2, 20S rRNA accumulation, homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:25455]
6219	ENSG00000067365	326.5161044	-0.576695604	0.174449198	0.002849766	METTL22	methyltransferase like 22 [Source:HGNC Symbol;Acc:28368]
6220	ENSG00000204020	214.3491091	-0.717814702	0.217276168	0.002870847	LIPN	lipase, family member N [Source:HGNC Symbol;Acc:23452]
6221	ENSG00000107130	18.55984151	-1.836500736	0.556073564	0.002880953	NCS1	neuronal calcium sensor 1 [Source:HGNC Symbol;Acc:3953]
6222	ENSG00000268733	18.55984149	-1.836500733	0.556073564	0.002880953	NCS1	neuronal calcium sensor 1 [Source:HGNC Symbol;Acc:3953]
6223	ENSG00000189051	26.97915539	-1.62601716	0.492398315	0.00288442	RNF222	ring finger protein 222 [Source:HGNC Symbol;Acc:34517]
6224	ENSG00000188599	346.7863146	0.577025911	0.174755044	0.002887318	NPIPP1	nuclear pore complex interacting protein pseudogene 1 [Source:HGNC Symbol;Acc:35407]
6225	ENSG00000115977	499.2468253	0.488036314	0.147806696	0.002887446	AAK1	AP2 associated kinase 1 [Source:HGNC Symbol;Acc:19679]
6226	ENSG00000154124	1000.408577	-0.400391748	0.12126549	0.002887476	FAM105B	family with sequence similarity 105, member B [Source:HGNC Symbol;Acc:25118]
6227	ENSG00000140839	45.32822406	1.364026677	0.413120809	0.002887476	CLEC18B	C-type lectin domain family 18, member B [Source:HGNC Symbol;Acc:33849]
6228	ENSG00000122550	468.3883713	-0.617938175	0.18724528	0.002903613	KLHL7	kelch-like family member 7 [Source:HGNC Symbol;Acc:15646]
6229	ENSG00000268142	254.7624299	0.642374017	0.194653177	0.00290375	PQBP1	polyglutamine binding protein 1 [Source:HGNC Symbol;Acc:9330]
6230	ENSG00000137210	817.3457952	-0.386930747	0.117356782	0.002934986	TMEM14B	transmembrane protein 14B [Source:HGNC Symbol;Acc:21384]
6231	ENSG00000102312	70.05815655	1.162283111	0.352642154	0.002946222	PORCN	porcupine homolog (Drosophila) [Source:HGNC Symbol;Acc:17652]
6232	ENSG00000131374	1433.471068	-0.297034431	0.090126813	0.002947733	TBC1D5	TBC1 domain family, member 5 [Source:HGNC Symbol;Acc:19166]
6233	ENSG00000138448	301.0060119	-0.759931937	0.230597234	0.002949822	ITGAV	integrin, alpha V [Source:HGNC Symbol;Acc:6150]
6234	ENSG00000115896	87.42204386	1.14533874	0.347569048	0.00295156	PLCL1	phospholipase C-like 1 [Source:HGNC Symbol;Acc:9063]
6235	ENSG00000262634	75.27430105	-1.091432105	0.331243637	0.002954569	SKA1	spindle and kinetochore associated complex subunit 1 [Source:HGNC Symbol;Acc:28109]
6236	ENSG00000109445	546.6266977	0.482031367	0.146297125	0.002954866	ZNF330	zinc finger protein 330 [Source:HGNC Symbol;Acc:15462]
6237	ENSG00000060491	1380.782138	0.336739603	0.102218751	0.00296045	OGFR	opioid growth factor receptor [Source:HGNC Symbol;Acc:15768]
6238	ENSG00000160633	2195.557023	-0.249358523	0.075709464	0.002967139	SAFB	scaffold attachment factor B [Source:HGNC Symbol;Acc:10520]

6239	ENSG00000142552	965.658248	0.422538784	0.128314761	0.0029734	RCN3	reticulocalbin 3, EF-hand calcium binding domain [Source:HGNC Symbol;Acc:21145]
6240	ENSG00000198538	243.2055995	0.783325336	0.237901715	0.002976562	ZNF28	zinc finger protein 28 [Source:HGNC Symbol;Acc:13073]
6241	ENSG00000136237	26.01284602	1.622772205	0.492860511	0.002976973	RAPGEF5	Rap guanine nucleotide exchange factor (GEF) 5 [Source:HGNC Symbol;Acc:16862]
6242	ENSG00000140743	445.1774231	0.524776839	0.159437116	0.002988418	CDR2	cerebellar degeneration-related protein 2, 62kDa [Source:HGNC Symbol;Acc:1799]
6243	ENSG00000104205	596.6514032	-0.510473283	0.155100825	0.002990058	SGK3	serum/glucocorticoid regulated kinase family, member 3 [Source:HGNC Symbol;Acc:10812]
6244	ENSG00000204531	78.82106463	-1.102079925	0.33489473	0.002993942	POU5F1	POU class 5 homeobox 1 [Source:HGNC Symbol;Acc:9221]
6245	ENSG00000133116	25.88507564	-1.675229899	0.509231399	0.003005217	KL	klotho [Source:HGNC Symbol;Acc:6344]
6246	ENSG00000176946	275.6592701	0.681390878	0.207165744	0.003011282	THAP4	THAP domain containing 4 [Source:HGNC Symbol;Acc:23187]
6247	ENSG00000262446	67.19264677	-1.265674271	0.384814296	0.003011418	GBA	glucosidase, beta, acid [Source:HGNC Symbol;Acc:4177]
6248	ENSG00000264708	129.8536826	1.04823348	0.318762858	0.003017459	PDE4DIP	Phosphodiesterase 4D interacting protein [Source:UniProtKB/TrEMBL;Acc:11VE15]
6249	ENSG00000065978	5581.516737	0.181447968	0.055185628	0.003022189	YBX1	Y box binding protein 1 [Source:HGNC Symbol;Acc:8014]
6250	ENSG00000198915	161.9499052	0.838694672	0.255105583	0.003025136	RASGEF1A	RasGEF domain family, member 1A [Source:HGNC Symbol;Acc:24246]
6251	ENSG00000164946	16.86468192	-1.731962398	0.526951595	0.003034113	FREM1	FRAS1 related extracellular matrix 1 [Source:HGNC Symbol;Acc:23399]
6252	ENSG00000196428	537.1381831	-0.507244084	0.154360065	0.003040621	TSC2D2	TSC22 domain family, member 2 [Source:HGNC Symbol;Acc:29095]
6253	ENSG00000130590	89.51574654	1.020601549	0.310631256	0.003045935	SAMD10	sterile alpha motif domain containing 10 [Source:HGNC Symbol;Acc:16129]
6254	ENSG00000241889	34.49447289	1.495631909	0.455233072	0.003047096	RP11-435F17.3	
6255	ENSG00000221968	341.7139171	0.681288541	0.207375191	0.00304797	FADS3	fatty acid desaturase 3 [Source:HGNC Symbol;Acc:3576]
6256	ENSG00000269083	668.7732157	-0.430364254	0.131050864	0.003061821	COX7B	cytochrome c oxidase subunit VIIb [Source:HGNC Symbol;Acc:2291]
6257	ENSG00000131174	668.7710395	-0.430281239	0.131026447	0.003061821	COX7B	cytochrome c oxidase subunit VIIb [Source:HGNC Symbol;Acc:2291]
6258	ENSG00000116698	2665.007272	-0.248952427	0.075823631	0.003068045	SMG7	SMG7 nonsense mediated mRNA decay factor [Source:HGNC Symbol;Acc:16792]
6259	ENSG00000160191	49.30836773	1.355733806	0.412955649	0.003070911	PDE9A	phosphodiesterase 9A [Source:HGNC Symbol;Acc:8795]
6260	ENSG00000147224	571.444016	0.480031068	0.146230985	0.003073804	PRPS1	phosphoribosyl pyrophosphate synthetase 1 [Source:HGNC Symbol;Acc:9462]
6261	ENSG00000170017	846.2180407	-0.406633838	0.123901767	0.003081886	ALCAM	activated leukocyte cell adhesion molecule [Source:HGNC Symbol;Acc:400]
6262	ENSG00000134452	1635.045246	0.352980919	0.107579844	0.003090133	FBXO18	F-box protein, helicase, 18 [Source:HGNC Symbol;Acc:13620]
6263	ENSG00000116473	4395.138647	0.229404044	0.069926158	0.003094327	RAP1A	RAP1A, member of RAS oncogene family [Source:HGNC Symbol;Acc:9855]
6264	ENSG00000147324	435.8434949	0.627710427	0.191338159	0.003094327	MFHAS1	malignant fibrous histiocytoma amplified sequence 1 [Source:HGNC Symbol;Acc:16982]
6265	ENSG00000104983	238.9909051	-0.671972836	0.204844045	0.003096268	CCDC61	coiled-coil domain containing 61 [Source:HGNC Symbol;Acc:33629]
6266	ENSG00000125945	237.3499534	0.668491489	0.203837757	0.003105169	ZNF436	zinc finger protein 436 [Source:HGNC Symbol;Acc:20814]

6267	ENSG00000121851	381.0693681	0.533263608	0.162604567	0.003105169	POLR3GL	polymerase (RNA) III (DNA directed) polypeptide G (32kD)-like [Source:HGNC Symbol;Acc:28466]
6268	ENSG00000110851	706.2671715	0.417934369	0.127462925	0.003111743	PRDM4	PR domain containing 4 [Source:HGNC Symbol;Acc:9348]
6269	ENSG00000149743	256.7607787	0.653006845	0.19916341	0.003112581	TRPT1	tRNA phosphotransferase 1 [Source:HGNC Symbol;Acc:20316]
6270	ENSG00000187607	163.8574471	1.034937235	0.315666401	0.00311396	ZNF286A	Homo sapiens zinc finger protein 286A (ZNF286A), transcript variant 6, mRNA. [Source:RefSeq mRNA;Acc:NM_001288645]
6271	ENSG00000258928	16.62323148	-1.747398992	0.533037108	0.003117715	RP11-463J10.2	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:G3V3R0]
6272	ENSG00000145075	455.5118242	-0.559909344	0.170836804	0.003125426	CCDC39	coiled-coil domain containing 39 [Source:HGNC Symbol;Acc:25244]
6273	ENSG00000151650	146.1257958	-0.813505322	0.248322486	0.003140995	VENTX	VENT homeobox [Source:HGNC Symbol;Acc:13639]
6274	ENSG00000128683	11.08588668	-1.841288739	0.562062057	0.003141058	GAD1	glutamate decarboxylase 1 (brain, 67kDa) [Source:HGNC Symbol;Acc:4092]
6275	ENSG00000234951	11.82257402	-1.836812255	0.5607558	0.003144471	SAPCD1	suppressor APC domain containing 1 [Source:HGNC Symbol;Acc:13938]
6276	ENSG00000227074	11.82242148	-1.836785843	0.560756084	0.003144513	SAPCD1	suppressor APC domain containing 1 [Source:HGNC Symbol;Acc:13938]
6277	ENSG00000197496	17.28580116	-1.788552808	0.546137311	0.003151122	SLC2A10	solute carrier family 2 (facilitated glucose transporter), member 10 [Source:HGNC Symbol;Acc:13444]
6278	ENSG00000227861	11.820069	-1.836391014	0.560760132	0.00315162	SAPCD1	suppressor APC domain containing 1 [Source:HGNC Symbol;Acc:13938]
6279	ENSG00000228727	11.81986353	-1.836356634	0.560760482	0.003151825	SAPCD1	suppressor APC domain containing 1 [Source:HGNC Symbol;Acc:13938]
6280	ENSG00000250254	66.41724434	-1.180478719	0.360498236	0.003153393	PTTG2	pituitary tumor-transforming 2 [Source:HGNC Symbol;Acc:9691]
6281	ENSG00000124097	11.60497051	-1.833794405	0.560131099	0.003160814	HMGB1P1	high mobility group box 1 pseudogene 1 [Source:HGNC Symbol;Acc:4993]
6282	ENSG00000259316	16.83999501	-1.749318833	0.534473274	0.00317027	CTD-2116N17.1	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:U3KQA5]
6283	ENSG00000268138	69.70899788	1.154225365	0.352719493	0.003176688	PORCN	porcupine homolog (Drosophila) [Source:HGNC Symbol;Acc:17652]
6284	ENSG00000167562	419.8836622	0.532196981	0.162667061	0.00318367	ZNF701	zinc finger protein 701 [Source:HGNC Symbol;Acc:25597]
6285	ENSG0000005022	2035.245923	-0.267394233	0.08173339	0.003184882	SLC25A5	solute carrier family 25 (mitochondrial carrier; adenine nucleotide translocator), member 5 [Source:HGNC Symbol;Acc:10991]
6286	ENSG00000102858	2867.303062	-0.371728506	0.113652491	0.003193346	MGRN1	mahogunin ring finger 1, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:20254]
6287	ENSG00000111875	381.2655657	0.557943646	0.170615506	0.003199226	ASF1A	anti-silencing function 1A histone chaperone [Source:HGNC Symbol;Acc:20995]
6288	ENSG00000170482	63.0448507	1.206610496	0.368982994	0.003199662	SLC23A1	solute carrier family 23 (ascorbic acid transporter), member 1 [Source:HGNC Symbol;Acc:10974]
6289	ENSG00000154889	3133.423813	-0.232874057	0.071218147	0.003201594	MPPE1	metallophosphoesterase 1 [Source:HGNC Symbol;Acc:15988]
6290	ENSG00000113360	779.2950885	-0.460279259	0.140765193	0.003201594	DROSHA	drosha, ribonuclease type III [Source:HGNC Symbol;Acc:17904]
6291	ENSG00000078808	1210.623438	0.427235882	0.130679001	0.003206308	SDF4	stromal cell derived factor 4 [Source:HGNC Symbol;Acc:24188]
6292	ENSG00000136021	1709.88408	-0.383935841	0.117435598	0.003206308	SCYL2	SCY1-like 2 (S. cerevisiae) [Source:HGNC Symbol;Acc:19286]
6293	ENSG00000168802	1853.993588	0.274628874	0.084011317	0.00320962	CTF8	CTF8, chromosome transmission fidelity factor 8 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:24353]
6294	ENSG00000141738	5.922685654	1.767099676	0.540571209	0.00320962	GRB7	growth factor receptor-bound protein 7 [Source:HGNC Symbol;Acc:4567]

6295	ENSG00000255302	1409.939632	0.309917383	0.094820449	0.003214595	EID1	EP300 interacting inhibitor of differentiation 1 [Source:HGNC Symbol;Acc:1191]
6296	ENSG00000139053	52.8224348	-1.257638408	0.38478952	0.003215057	PDE6H	phosphodiesterase 6H, cGMP-specific, cone, gamma [Source:HGNC Symbol;Acc:8790]
6297	ENSG00000211827	8.649884612	1.849792151	0.565989493	0.003216085	TRDJ2	T cell receptor delta joining 2 [Source:HGNC Symbol;Acc:12258]
6298	ENSG00000120458	226.8257205	0.708003788	0.216675614	0.003223193	MSANTD2	Myb/SANT-like DNA-binding domain containing 2 [Source:HGNC Symbol;Acc:26266]
6299	ENSG00000135338	17.24065672	-1.754756981	0.537035271	0.003223656	LCA5	Leber congenital amaurosis 5 [Source:HGNC Symbol;Acc:31923]
6300	ENSG00000125434	223.0838601	-0.702788412	0.215100857	0.003225862	SLC25A35	solute carrier family 25, member 35 [Source:HGNC Symbol;Acc:31921]
6301	ENSG00000141956	322.145159	0.587551935	0.179947044	0.003249504	PRDM15	PR domain containing 15 [Source:HGNC Symbol;Acc:13999]
6302	ENSG00000161204	870.1214589	0.408144631	0.125048496	0.003263325	ABCF3	ATP-binding cassette, sub-family F (GCN20), member 3 [Source:HGNC Symbol;Acc:72]
6303	ENSG00000159267	196.7415716	0.817719084	0.250559169	0.00326627	HLCS	holocarboxylase synthetase (biotin-(propionyl)-CoA-carboxylase (ATP-hydrolysing)) ligase [Source:HGNC Symbol;Acc:4976]
6304	ENSG00000237599	848.9228637	1.285368336	0.39385644	0.00326627	TAP2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP) [Source:HGNC Symbol;Acc:44]
6305	ENSG00000136158	125.5707523	0.871909624	0.267297545	0.003284255	SPRY2	sprouty homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:11270]
6306	ENSG00000102384	88.73816054	-1.004285062	0.307912604	0.003287822	CENPI	centromere protein I [Source:HGNC Symbol;Acc:3968]
6307	ENSG00000138286	645.0289788	-0.44075142	0.135137766	0.003288394	FAM149B1	family with sequence similarity 149, member B1 [Source:HGNC Symbol;Acc:29162]
6308	ENSG00000227184	18.1325493	1.749650388	0.53651991	0.003292365	EPPK1	epiplakin 1 [Source:HGNC Symbol;Acc:15577]
6309	ENSG00000198829	293.9456888	-0.601729136	0.184520317	0.003292592	SUCNR1	succinate receptor 1 [Source:HGNC Symbol;Acc:4542]
6310	ENSG00000111652	870.23348	-0.3845413	0.11796633	0.003307087	COPS7A	COP9 signalosome subunit 7A [Source:HGNC Symbol;Acc:16758]
6311	ENSG00000123064	380.505189	0.611397017	0.187604164	0.003315681	DDX54	DEAD (Asp-Glu-Ala-Asp) box polypeptide 54 [Source:HGNC Symbol;Acc:20084]
6312	ENSG00000138639	927.3928723	0.405978638	0.124668179	0.003344487	ARHGAP24	Rho GTPase activating protein 24 [Source:HGNC Symbol;Acc:25361]
6313	ENSG00000124207	927.6123341	-0.380164907	0.116745954	0.003345493	CSE1L	CSE1 chromosome segregation 1-like (yeast) [Source:HGNC Symbol;Acc:2431]
6314	ENSG00000149231	1192.186508	0.372371496	0.11435602	0.003346093	CCDC82	coiled-coil domain containing 82 [Source:HGNC Symbol;Acc:26282]
6315	ENSG00000248098	541.0856166	-0.507924655	0.156024373	0.003355343	BCKDHA	branched chain keto acid dehydrogenase E1, alpha polypeptide [Source:HGNC Symbol;Acc:986]
6316	ENSG00000198440	98.66341674	1.109577383	0.340939584	0.003366045	ZNF583	zinc finger protein 583 [Source:HGNC Symbol;Acc:26427]
6317	ENSG00000110274	725.4653352	0.455722518	0.140038562	0.003367939	CEP164	centrosomal protein 164kDa [Source:HGNC Symbol;Acc:29182]
6318	ENSG00000172653	22.69433512	1.661227371	0.510518264	0.003370521	C17orf66	chromosome 17 open reading frame 66 [Source:HGNC Symbol;Acc:26548]
6319	ENSG00000173020	10727.81346	-0.257195528	0.079051988	0.003375962	ADRBK1	adrenergic, beta, receptor kinase 1 [Source:HGNC Symbol;Acc:289]
6320	ENSG00000113555	147.7716593	-0.865916271	0.266178465	0.00337967	PCDH12	protocadherin 12 [Source:HGNC Symbol;Acc:8657]
6321	ENSG00000138069	2243.971707	-0.252914358	0.077755596	0.003384587	RAB1A	RAB1A, member RAS oncogene family [Source:HGNC Symbol;Acc:9758]
6322	ENSG00000025708	1656.489617	0.305847202	0.094043939	0.00338993	TYMP	thymidine phosphorylase [Source:HGNC Symbol;Acc:3148]



6323	ENSG00000174586	76.22486992	1.110192063	0.341372205	0.00338993	ZNF497	zinc finger protein 497 [Source:HGNC Symbol;Acc:23714]
6324	ENSG00000125247	170.3355293	0.840922359	0.2585821	0.003390512	TMTC4	transmembrane and tetratricopeptide repeat containing 4 [Source:HGNC Symbol;Acc:25904]
6325	ENSG00000185869	114.0708542	0.982697546	0.30222577	0.003396149	ZNF829	zinc finger protein 829 [Source:HGNC Symbol;Acc:34032]
6326	ENSG00000143093	1095.369025	0.381576925	0.117396897	0.003410206	STRIP1	striatin interacting protein 1 [Source:HGNC Symbol;Acc:25916]
6327	ENSG00000146410	75.48046965	-1.072408968	0.329977041	0.003414046	MTFR2	mitochondrial fission regulator 2 [Source:HGNC Symbol;Acc:21115]
6328	ENSG00000237333	57.99320861	-1.192105013	0.366985761	0.00343209	MSH5	mutS homolog 5 [Source:HGNC Symbol;Acc:7328]
6329	ENSG00000124098	846.7677357	0.360648808	0.111024854	0.00343209	FAM210B	family with sequence similarity 210, member B [Source:HGNC Symbol;Acc:16102]
6330	ENSG00000185339	39.62073706	1.446288579	0.445341383	0.003440795	TCN2	transcobalamin II [Source:HGNC Symbol;Acc:11653]
6331	ENSG00000214013	525.7325642	-0.494146663	0.152176462	0.003445092	GANC	glucosidase, alpha; neutral C [Source:HGNC Symbol;Acc:4139]
6332	ENSG00000101246	459.3875067	0.530878392	0.163495097	0.003446184	ARFRP1	ADP-ribosylation factor related protein 1 [Source:HGNC Symbol;Acc:662]
6333	ENSG00000182551	1452.97114	-0.319295282	0.098343947	0.003449755	ADI1	acireductone dioxygenase 1 [Source:HGNC Symbol;Acc:30576]
6334	ENSG00000112782	24.8606451	1.664192418	0.51261543	0.003452202	CLIC5	chloride intracellular channel 5 [Source:HGNC Symbol;Acc:13517]
6335	ENSG00000091947	310.5546117	0.595073001	0.183393302	0.00347211	TMEM101	transmembrane protein 101 [Source:HGNC Symbol;Acc:28653]
6336	ENSG00000262506	277.6711176	0.652579901	0.201125396	0.00347316	C11orf57	chromosome 11 open reading frame 57 [Source:HGNC Symbol;Acc:25569]
6337	ENSG00000150776	277.6714324	0.652587505	0.201129386	0.00347316	C11orf57	chromosome 11 open reading frame 57 [Source:HGNC Symbol;Acc:25569]
6338	ENSG00000243207	19.4916911	1.693065574	0.522144756	0.003498231	PPAN-P2RY11	PPAN-P2RY11 readthrough [Source:HGNC Symbol;Acc:33526]
6339	ENSG00000131653	812.9927292	-0.456554835	0.140814269	0.003501033	TRAF7	TNF receptor-associated factor 7, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:20456]
6340	ENSG00000111711	620.7017519	0.446870934	0.137848675	0.003506608	GOLT1B	golgi transport 1B [Source:HGNC Symbol;Acc:20175]
6341	ENSG00000107890	123.1911846	0.947184916	0.292190986	0.003507116	ANKRD26	ankyrin repeat domain 26 [Source:HGNC Symbol;Acc:29186]
6342	ENSG00000198380	572.0264749	-0.50325765	0.155265199	0.003511314	GFPT1	glutamine--fructose-6-phosphate transaminase 1 [Source:HGNC Symbol;Acc:4241]
6343	ENSG00000134758	1067.019159	-0.339765005	0.104872747	0.00352875	RNF138	ring finger protein 138, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:17765]
6344	ENSG00000211791	25.09165157	1.639563455	0.50607314	0.00352875	TRAV13-2	T cell receptor alpha variable 13-2 [Source:HGNC Symbol;Acc:12109]
6345	ENSG00000196793	22.54404322	1.65386894	0.510525456	0.003530821	ZNF239	zinc finger protein 239 [Source:HGNC Symbol;Acc:13031]
6346	ENSG00000214076	7.766328207	-1.824159047	0.563095732	0.003530821	CPSF1P1	cleavage and polyadenylation specific factor 1, 160kDa pseudogene 1 [Source:HGNC Symbol;Acc:19251]
6347	ENSG00000129493	902.5932971	-0.355519688	0.109751828	0.003532904	HEATR5A	HEAT repeat containing 5A [Source:HGNC Symbol;Acc:20276]
6348	ENSG00000197879	155.2935661	0.812946141	0.250980831	0.003535182	MYO1C	myosin IC [Source:HGNC Symbol;Acc:7597]
6349	ENSG00000164211	519.2316307	0.448385477	0.138460696	0.003543526	STAR4	StAR-related lipid transfer (START) domain containing 4 [Source:HGNC Symbol;Acc:18058]
6350	ENSG00000205937	1659.205753	0.274385342	0.084738689	0.003547217	RNPS1	RNA binding protein S1, serine-rich domain [Source:HGNC Symbol;Acc:10080]

6351	ENSG00000169926	7103.422482	0.193872087	0.059887416	0.003555371	KLF13	Kruppel-like factor 13 [Source:HGNC Symbol;Acc:13672]
6352	ENSG00000106771	823.8410239	0.413962118	0.127873739	0.003555371	TMEM245	transmembrane protein 245 [Source:HGNC Symbol;Acc:1363]
6353	ENSG00000116016	165.2582847	-0.802495116	0.248075929	0.003584768	EPAS1	endothelial PAS domain protein 1 [Source:HGNC Symbol;Acc:3374]
6354	ENSG00000157895	275.4905727	0.64078962	0.198104576	0.003587647	C12orf43	chromosome 12 open reading frame 43 [Source:HGNC Symbol;Acc:25719]
6355	ENSG00000128694	158.8969638	0.831924634	0.25721996	0.003590691	OSGEPL1	O-sialoglycoprotein endopeptidase-like 1 [Source:HGNC Symbol;Acc:23075]
6356	ENSG00000269404	198.7076591	0.713189714	0.22051021	0.003590691	SPIB	Spi-B transcription factor (Spi-1/PU.1 related) [Source:HGNC Symbol;Acc:11242]
6357	ENSG00000086300	2493.085611	-0.284890863	0.088105599	0.003599626	SNX10	sorting nexin 10 [Source:HGNC Symbol;Acc:14974]
6358	ENSG00000235674	42.14065914	-1.379842726	0.426826226	0.003608124	LDHAP2	lactate dehydrogenase A pseudogene 2 [Source:HGNC Symbol;Acc:6537]
6359	ENSG00000136044	1474.141193	-0.316159267	0.097799974	0.003608621	APPL2	adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 2 [Source:HGNC Symbol;Acc:18242]
6360	ENSG00000198416	51.72069807	1.327620373	0.410811504	0.003620844	CTD-2173L22.4	
6361	ENSG00000132122	87.6112388	1.133114339	0.350658773	0.003624263	SPATA6	spermatogenesis associated 6 [Source:HGNC Symbol;Acc:18309]
6362	ENSG00000260908	29.75484238	-1.532883547	0.474446472	0.003629999	CTB-134H23.3	
6363	ENSG00000114541	751.130249	-0.389286355	0.120490551	0.003629999	FRMD4B	FERM domain containing 4B [Source:HGNC Symbol;Acc:24886]
6364	ENSG00000159640	58.55225971	1.293828072	0.400508459	0.003634279	ACE	angiotensin I converting enzyme [Source:HGNC Symbol;Acc:2707]
6365	ENSG00000087206	1774.482664	0.271881017	0.084181158	0.003643257	UIMC1	ubiquitin interaction motif containing 1 [Source:HGNC Symbol;Acc:30298]
6366	ENSG00000143387	262.8053501	-0.61849918	0.191544336	0.003651616	CTSK	cathepsin K [Source:HGNC Symbol;Acc:2536]
6367	ENSG00000240204	15.03017742	1.809444094	0.560551511	0.003664061	SMKR1	small lysine-rich protein 1 [Source:HGNC Symbol;Acc:43561]
6368	ENSG00000132017	709.4467079	0.482232465	0.149392783	0.003664061	DCAF15	DDB1 and CUL4 associated factor 15 [Source:HGNC Symbol;Acc:25095]
6369	ENSG00000101000	23.80746265	1.626262833	0.503854602	0.003667421	PROCR	protein C receptor, endothelial [Source:HGNC Symbol;Acc:9452]
6370	ENSG00000126351	1062.08332	-0.334163809	0.103540771	0.003670417	THRA	thyroid hormone receptor, alpha [Source:HGNC Symbol;Acc:11796]
6371	ENSG00000082996	2335.362154	0.266363372	0.082545066	0.003676007	RNF13	ring finger protein 13 [Source:HGNC Symbol;Acc:10057]
6372	ENSG00000070950	348.041251	-0.587537898	0.182083249	0.0036771	RAD18	RAD18 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:18278]
6373	ENSG00000131238	7174.718504	0.191190464	0.059263011	0.003684489	PPT1	palmitoyl-protein thioesterase 1 [Source:HGNC Symbol;Acc:9325]
6374	ENSG00000073803	232.8341685	-0.648450943	0.201036614	0.003691619	MAP3K13	mitogen-activated protein kinase kinase kinase 13 [Source:HGNC Symbol;Acc:6852]
6375	ENSG00000100003	41.92232539	-1.407624284	0.43647577	0.003698263	SEC14L2	SEC14-like 2 (S. cerevisiae) [Source:HGNC Symbol;Acc:10699]
6376	ENSG00000179163	694.9530178	0.414067436	0.128397868	0.003698963	FUCA1	fucosidase, alpha-L- 1, tissue [Source:HGNC Symbol;Acc:4006]
6377	ENSG00000211652	30.37999755	1.503618675	0.466269561	0.003699594	IGLV7-43	immunoglobulin lambda variable 7-43 [Source:HGNC Symbol;Acc:5929]
6378	ENSG00000177590	14.56625627	1.790200622	0.555242463	0.00370685	RP5-1051J4.6	

6379	ENSG00000132589	8314.078086	-0.163378014	0.050674901	0.00370803	FLOT2	flotillin 2 [Source:HGNC Symbol;Acc:3758]
6380	ENSG00000124233	38.0288618	-1.400174324	0.434312984	0.003709296	SEMGL1	semenogelin I [Source:HGNC Symbol;Acc:10742]
6381	ENSG00000179820	7560.228614	0.187776033	0.058245813	0.003709296	MYADM	myeloid-associated differentiation marker [Source:HGNC Symbol;Acc:7544]
6382	ENSG00000226742	187.9258697	0.746309065	0.231580058	0.003723919	HSPB1L1	heat shock factor binding protein 1-like 1 [Source:HGNC Symbol;Acc:37243]
6383	ENSG00000141627	538.2654184	-0.459324262	0.142538153	0.003726163	DYM	dymeclin [Source:HGNC Symbol;Acc:21317]
6384	ENSG00000270379	22.56975137	1.647180638	0.511196131	0.003728918	C17orf66	chromosome 17 open reading frame 66 [Source:HGNC Symbol;Acc:26548]
6385	ENSG00000198919	379.2856521	0.525175855	0.163035145	0.003740918	DZIP3	DAZ interacting zinc finger protein 3 [Source:HGNC Symbol;Acc:30938]
6386	ENSG00000146776	456.1582385	-0.529235445	0.164322704	0.003747324	ATXN7L1	ataxin 7-like 1 [Source:HGNC Symbol;Acc:22210]
6387	ENSG00000103175	42.30012599	-1.360304612	0.422505624	0.003761076	WFDC1	WAP four-disulfide core domain 1 [Source:HGNC Symbol;Acc:15466]
6388	ENSG00000084463	1149.437878	0.326975621	0.101570756	0.003766032	WBP11	WW domain binding protein 11 [Source:HGNC Symbol;Acc:16461]
6389	ENSG00000135045	143.2316255	-0.854196656	0.265353573	0.003766782	C9orf40	chromosome 9 open reading frame 40 [Source:HGNC Symbol;Acc:23433]
6390	ENSG00000172493	2746.940352	-0.245171356	0.076165122	0.003768076	AFF1	AF4/FMR2 family, member 1 [Source:HGNC Symbol;Acc:7135]
6391	ENSG00000169592	1210.949954	0.473641764	0.147155295	0.003771334	INO80E	INO80 complex subunit E [Source:HGNC Symbol;Acc:26905]
6392	ENSG00000182796	699.9239234	0.395194993	0.122833615	0.003788308	TMEM198B	transmembrane protein 198B, pseudogene [Source:HGNC Symbol;Acc:43629]
6393	ENSG00000239605	31.83320309	1.450043904	0.4511859	0.003833779	C2orf61	chromosome 2 open reading frame 61 [Source:HGNC Symbol;Acc:26850]
6394	ENSG00000141622	143.3517351	0.939733159	0.29243556	0.003838246	RNF165	ring finger protein 165 [Source:HGNC Symbol;Acc:31696]
6395	ENSG00000248527	7442.244634	0.181326689	0.056431104	0.003840731	MTATP6P1	mitochondrially encoded ATP synthase 6 pseudogene 1 [Source:HGNC Symbol;Acc:44575]
6396	ENSG00000256646	742.3170342	-0.391248407	0.121763865	0.003841023	PSMA2	Proteasome subunit alpha type-2 [Source:UniProtKB/TrEMBL;Acc:H3BT36]
6397	ENSG00000137955	1361.193587	0.307179284	0.095611817	0.003845749	RABGGTB	Rab geranylgeranyltransferase, beta subunit [Source:HGNC Symbol;Acc:9796]
6398	ENSG00000187726	88.63740507	1.004656898	0.312759766	0.003852428	DNAJB13	DnaJ (Hsp40) homolog, subfamily B, member 13 [Source:HGNC Symbol;Acc:30718]
6399	ENSG00000104626	386.2801839	-0.523739637	0.16306872	0.00385799	ERI1	exoribonuclease 1 [Source:HGNC Symbol;Acc:23994]
6400	ENSG00000140575	15152.78178	-0.177796795	0.055371405	0.003867963	IQGAP1	IQ motif containing GTPase activating protein 1 [Source:HGNC Symbol;Acc:6110]
6401	ENSG00000011465	28.53616395	-1.51322874	0.471377756	0.003877608	DCN	decorin [Source:HGNC Symbol;Acc:2705]
6402	ENSG00000211814	12.6049658	1.801939098	0.561401073	0.00388385	TRAV35	T cell receptor alpha variable 35 [Source:HGNC Symbol;Acc:12134]
6403	ENSG00000054392	44.54533445	1.332925137	0.415505815	0.003907087	HHAT	hedgehog acyltransferase [Source:HGNC Symbol;Acc:18270]
6404	ENSG00000105849	223.4117368	0.832366134	0.25948712	0.003909494	TWISTNB	TWIST neighbor [Source:HGNC Symbol;Acc:18027]
6405	ENSG00000112514	611.6588415	0.436636842	0.136156996	0.003920251	CUTA	cutA divalent cation tolerance homolog (E. coli) [Source:HGNC Symbol;Acc:21101]
6406	ENSG00000152804	1517.705381	-0.294021257	0.091685218	0.003920251	HHEX	hematopoietically expressed homeobox [Source:HGNC Symbol;Acc:4901]

6407	ENSG00000173406	13.79041766	1.782803684	0.555999512	0.003924702	DAB1	Dab, reelin signal transducer, homolog 1 (Drosophila) [Source:HGNC Symbol;Acc:2661]
6408	ENSG00000180957	1030.416763	0.347156644	0.108272695	0.003926363	PITPNB	phosphatidylinositol transfer protein, beta [Source:HGNC Symbol;Acc:9002]
6409	ENSG00000068885	654.367199	0.447020677	0.139423427	0.003927229	IFT80	intraflagellar transport 80 homolog (Chlamydomonas) [Source:HGNC Symbol;Acc:29262]
6410	ENSG00000187164	125.9252176	-0.901751932	0.281267487	0.003929066	KIAA1598	KIAA1598 [Source:HGNC Symbol;Acc:29319]
6411	ENSG00000129351	4971.116822	0.217167918	0.067739698	0.003929789	ILF3	interleukin enhancer binding factor 3, 90kDa [Source:HGNC Symbol;Acc:6038]
6412	ENSG00000167685	307.3353635	0.683609257	0.213235601	0.003929789	ZNF444	zinc finger protein 444 [Source:HGNC Symbol;Acc:16052]
6413	ENSG00000240038	1255.613593	0.333913291	0.10415793	0.003929867	AMY2B	amylase, alpha 2B (pancreatic) [Source:HGNC Symbol;Acc:478]
6414	ENSG00000100116	48.45816056	-1.268520445	0.395697485	0.003929978	GCAT	glycine C-acetyltransferase [Source:HGNC Symbol;Acc:4188]
6415	ENSG00000168887	1737.385604	-0.285800085	0.089153418	0.003930356	C2orf68	chromosome 2 open reading frame 68 [Source:HGNC Symbol;Acc:34353]
6416	ENSG00000184261	13.19802431	1.778840529	0.555080497	0.003944211	KCNK12	potassium channel, subfamily K, member 12 [Source:HGNC Symbol;Acc:6274]
6417	ENSG00000231631	334.8107069	0.758696993	0.236782645	0.003949924	PSMB8	proteasome (prosome, macropain) subunit, beta type, 8 [Source:HGNC Symbol;Acc:9545]
6418	ENSG00000100784	596.7809068	-0.439271714	0.137148078	0.003967052	RPS6KA5	ribosomal protein S6 kinase, 90kDa, polypeptide 5 [Source:HGNC Symbol;Acc:10434]
6419	ENSG00000135677	3263.378571	-0.223057253	0.069645269	0.003968342	GNS	glucosamine (N-acetyl)-6-sulfatase [Source:HGNC Symbol;Acc:4422]
6420	ENSG00000122378	61.63601805	1.186961486	0.370709308	0.003980093	FAM213A	family with sequence similarity 213, member A [Source:HGNC Symbol;Acc:28651]
6421	ENSG00000070756	18704.5438	0.152998862	0.047787987	0.003982904	PABPC1	poly(A) binding protein, cytoplasmic 1 [Source:HGNC Symbol;Acc:8554]
6422	ENSG00000184206	260.574636	-0.775691494	0.242305718	0.00398678	GOLGA6L4	golgin A6 family-like 4 [Source:HGNC Symbol;Acc:27256]
6423	ENSG00000211803	24.09143266	1.630660767	0.509423889	0.003990347	TRAV23DV6	T cell receptor alpha variable 23/delta variable 6 [Source:HGNC Symbol;Acc:12120]
6424	ENSG00000127804	443.3945474	0.549136596	0.171654089	0.004016137	METTL16	methyltransferase like 16 [Source:HGNC Symbol;Acc:28484]
6425	ENSG00000212884	20.5814203	1.644401764	0.514183393	0.004029522	AC011841.1	cDNA FLJ34843 fis, clone NT2NE2011119, highly similar to C-TERMINAL BINDING PROTEIN 2 [Source:UniProtKB/TrEMBL;Acc:Q8NAS8]
6426	ENSG00000137054	225.3985592	0.66456842	0.207874781	0.004044558	POLR1E	polymerase (RNA) I polypeptide E, 53kDa [Source:HGNC Symbol;Acc:17631]
6427	ENSG00000100968	9.387610622	-1.808461681	0.565886036	0.004060216	NFATC4	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4 [Source:HGNC Symbol;Acc:7778]
6428	ENSG00000266405	51.94462655	1.334354389	0.417548705	0.004060841	CBX3P2	chromobox homolog 3 pseudogene 2 [Source:HGNC Symbol;Acc:42874]
6429	ENSG00000163249	491.3319151	-0.630701231	0.197361113	0.004060841	CCNYL1	cyclin Y-like 1 [Source:HGNC Symbol;Acc:26868]
6430	ENSG00000089195	426.7266261	-0.50373769	0.157681059	0.004074433	TRMT6	tRNA methyltransferase 6 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:20900]
6431	ENSG00000120029	769.890431	-0.39579945	0.123898213	0.004075334	C10orf76	chromosome 10 open reading frame 76 [Source:HGNC Symbol;Acc:25788]
6432	ENSG00000181029	179.7285622	0.820490195	0.256852326	0.004076803	TRAPPC5	trafficking protein particle complex 5 [Source:HGNC Symbol;Acc:23067]
6433	ENSG00000187905	77.99836093	-1.08746161	0.340466544	0.004081407	AC002472.13	Leucine-rich repeat-containing protein LOC400891 [Source:UniProtKB/Swiss-Prot;Acc:Q6ZQY2]
6434	ENSG00000163923	80.28124195	-1.02748587	0.321787454	0.004094008	RPL39L	ribosomal protein L39-like [Source:HGNC Symbol;Acc:17094]

6435	ENSG00000092036	967.9715976	-0.341512107	0.106954694	0.004094008	HAUS4	HAUS augmin-like complex, subunit 4 [Source:HGNC Symbol;Acc:20163]
6436	ENSG00000187626	259.6774844	0.708806271	0.221994594	0.004095572	ZKSCAN4	zinc finger with KRAB and SCAN domains 4 [Source:HGNC Symbol;Acc:13854]
6437	ENSG00000183864	820.1971113	0.382743878	0.11994549	0.004122203	TOB2	transducer of ERBB2, 2 [Source:HGNC Symbol;Acc:11980]
6438	ENSG00000122778	533.1396883	0.492415153	0.154317786	0.004122496	KIAA1549	KIAA1549 [Source:HGNC Symbol;Acc:22219]
6439	ENSG00000149474	243.0012147	0.658622343	0.206448133	0.004131129	CSRP2BP	CSRP2 binding protein [Source:HGNC Symbol;Acc:15904]
6440	ENSG00000180539	458.7420058	-0.553254561	0.173432409	0.004133879	C9orf139	chromosome 9 open reading frame 139 [Source:HGNC Symbol;Acc:31426]
6441	ENSG00000081665	799.8510035	0.408166094	0.127969117	0.004139859	ZNF506	zinc finger protein 506 [Source:HGNC Symbol;Acc:23780]
6442	ENSG00000205593	72.50198646	1.249217696	0.39169266	0.004143326	DENND6B	DENN/MADD domain containing 6B [Source:HGNC Symbol;Acc:32690]
6443	ENSG00000113328	985.9413291	0.399804728	0.125368635	0.004146228	CCNG1	cyclin G1 [Source:HGNC Symbol;Acc:1592]
6444	ENSG00000204764	75.19670426	-1.101330585	0.345389423	0.004150891	RANBP17	RAN binding protein 17 [Source:HGNC Symbol;Acc:14428]
6445	ENSG00000088888	773.9790014	-0.372667181	0.116881479	0.004153749	MAVS	mitochondrial antiviral signaling protein [Source:HGNC Symbol;Acc:29233]
6446	ENSG00000172578	1595.005429	-0.294735926	0.092444921	0.004155787	KLHL6	kelch-like family member 6 [Source:HGNC Symbol;Acc:18653]
6447	ENSG00000179361	1468.698525	-0.338663701	0.106235265	0.004160428	ARID3B	AT rich interactive domain 3B (BRIGHT-like) [Source:HGNC Symbol;Acc:14350]
6448	ENSG00000103024	80.97055134	1.121867525	0.351936191	0.004162138	NME3	NME/NM23 nucleoside diphosphate kinase 3 [Source:HGNC Symbol;Acc:7851]
6449	ENSG00000164933	299.8777807	0.635571079	0.199401007	0.004165532	SLC25A32	solute carrier family 25 (mitochondrial folate carrier), member 32 [Source:HGNC Symbol;Acc:29683]
6450	ENSG00000166197	1072.334436	0.356314194	0.11178919	0.004165532	NOLC1	nucleolar and coiled-body phosphoprotein 1 [Source:HGNC Symbol;Acc:15608]
6451	ENSG00000164733	2415.447612	0.273039711	0.085685183	0.004176868	CTSB	cathepsin B [Source:HGNC Symbol;Acc:2527]
6452	ENSG00000188811	976.9610542	-0.344411643	0.108085756	0.004177357	NHLRC3	NHL repeat containing 3 [Source:HGNC Symbol;Acc:33751]
6453	ENSG00000183496	24.82504541	-1.562107919	0.490277428	0.004180973	MEX3B	mex-3 RNA binding family member B [Source:HGNC Symbol;Acc:25297]
6454	ENSG00000230791	64.76425709	-1.132462255	0.355636388	0.004207067	LST1	leukocyte specific transcript 1 [Source:HGNC Symbol;Acc:14189]
6455	ENSG00000235915	64.7638864	-1.132170907	0.355656244	0.004220927	LST1	leukocyte specific transcript 1 [Source:HGNC Symbol;Acc:14189]
6456	ENSG00000006118	22.37727613	-1.627512048	0.511338361	0.0042273	TMEM132A	transmembrane protein 132A [Source:HGNC Symbol;Acc:31092]
6457	ENSG00000261110	33.09406196	1.471976288	0.462728326	0.004252504	TRBV27	T cell receptor beta variable 27 [Source:HGNC Symbol;Acc:12208]
6458	ENSG00000143322	463.9466982	0.57459724	0.180695708	0.004268326	ABL2	c-abl oncogene 2, non-receptor tyrosine kinase [Source:HGNC Symbol;Acc:77]
6459	ENSG00000142794	111.9572186	0.954518869	0.30017117	0.004268326	NBPF3	neuroblastoma breakpoint family, member 3 [Source:HGNC Symbol;Acc:25076]
6460	ENSG00000123473	185.7444647	-0.841452872	0.264651945	0.004274229	STIL	SCL/TAL1 interrupting locus [Source:HGNC Symbol;Acc:10879]
6461	ENSG00000154134	69.03016328	1.13643647	0.357536664	0.00428744	ROBO3	roundabout, axon guidance receptor, homolog 3 (Drosophila) [Source:HGNC Symbol;Acc:13433]
6462	ENSG00000176022	106.4478823	0.920953188	0.28974711	0.00428744	B3GALT6	UDP-Gal:betaGal beta 1,3-galactosyltransferase polypeptide 6 [Source:HGNC Symbol;Acc:17978]

6463	ENSG00000153107	1102.367221	0.332766355	0.104694844	0.00428744	ANAPC1	anaphase promoting complex subunit 1 [Source:HGNC Symbol;Acc:19988]
6464	ENSG00000197430	11.99007488	1.793558981	0.564304695	0.004288088	OPALIN	oligodendrocytic myelin paranodal and inner loop protein [Source:HGNC Symbol;Acc:20707]
6465	ENSG00000153246	34.96539801	1.429614721	0.449805367	0.00428825	PLA2R1	phospholipase A2 receptor 1, 180kDa [Source:HGNC Symbol;Acc:9042]
6466	ENSG00000198169	335.904767	0.567280293	0.178488512	0.004288339	ZNF251	zinc finger protein 251 [Source:HGNC Symbol;Acc:13045]
6467	ENSG00000156976	9370.212562	0.184701404	0.058132756	0.004302649	EIF4A2	eukaryotic translation initiation factor 4A2 [Source:HGNC Symbol;Acc:3284]
6468	ENSG00000182472	64.88629756	1.158245464	0.364587771	0.004307497	CAPN12	calpain 12 [Source:HGNC Symbol;Acc:13249]
6469	ENSG00000196275	633.3705889	-0.421531438	0.132699055	0.004310783	GTF2IRD2	GTF2I repeat domain containing 2 [Source:HGNC Symbol;Acc:30775]
6470	ENSG00000250687	195.782922	0.792608855	0.249573266	0.004321137	RP11-497H16.7	
6471	ENSG00000144048	416.1901016	0.519158204	0.163510797	0.004332198	DUSP11	dual specificity phosphatase 11 (RNA/RNP complex 1-interacting) [Source:HGNC Symbol;Acc:3066]
6472	ENSG00000237075	113.6753298	1.009176855	0.317916865	0.004342406	RP11-497H16.2	
6473	ENSG00000139890	610.705611	0.434298339	0.136828642	0.004346392	REM2	RAS (RAD and GEM)-like GTP binding 2 [Source:HGNC Symbol;Acc:20248]
6474	ENSG00000260266	154.3308084	-0.82135786	0.258797837	0.004350031	CTD-2311M21.2	
6475	ENSG00000104774	3263.406127	-0.307579114	0.096953466	0.004368916	MAN2B1	mannosidase, alpha, class 2B, member 1 [Source:HGNC Symbol;Acc:6826]
6476	ENSG00000214113	299.6404073	0.587273558	0.18517724	0.004383721	LYRM4	LYR motif containing 4 [Source:HGNC Symbol;Acc:21365]
6477	ENSG00000076984	926.7199129	0.475147956	0.14987833	0.004401017	MAP2K7	mitogen-activated protein kinase kinase 7 [Source:HGNC Symbol;Acc:6847]
6478	ENSG00000164654	508.6896177	-0.482512527	0.152211512	0.004403537	MIOS	missing oocyte, meiosis regulator, homolog (Drosophila) [Source:HGNC Symbol;Acc:21905]
6479	ENSG00000054611	745.5993314	0.387842954	0.122407885	0.004426643	TBC1D22A	TBC1 domain family, member 22A [Source:HGNC Symbol;Acc:1309]
6480	ENSG00000254004	287.3462872	0.650530462	0.205329079	0.00442922	ZNF260	zinc finger protein 260 [Source:HGNC Symbol;Acc:13499]
6481	ENSG00000105854	141.6913714	0.825889614	0.260686911	0.004430137	PON2	paraoxonase 2 [Source:HGNC Symbol;Acc:9205]
6482	ENSG00000114353	13996.45676	-0.188045297	0.059370346	0.004441681	GNAI2	guanine nucleotide binding protein (G protein), alpha inhibiting activity polypeptide 2 [Source:HGNC Symbol;Acc:4385]
6483	ENSG00000197093	137.1197829	0.858713725	0.271128043	0.004443104	GAL3ST4	galactose-3-O-sulfotransferase 4 [Source:HGNC Symbol;Acc:24145]
6484	ENSG00000181444	1036.250868	-0.372252435	0.117554254	0.004450756	ZNF467	zinc finger protein 467 [Source:HGNC Symbol;Acc:23154]
6485	ENSG00000123610	436.046397	-0.504089399	0.159242546	0.004466914	TNFAIP6	tumor necrosis factor, alpha-induced protein 6 [Source:HGNC Symbol;Acc:11898]
6486	ENSG00000153147	1938.963528	0.350936134	0.110871375	0.004470681	SMARCA5	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5 [Source:HGNC Symbol;Acc:11101]
6487	ENSG00000165113	157.4978179	0.824333298	0.260577845	0.004497304	GKAP1	G kinase anchoring protein 1 [Source:HGNC Symbol;Acc:17496]
6488	ENSG00000176101	468.5870635	0.530303881	0.167732525	0.004525701	SSNA1	Sjogren syndrome nuclear autoantigen 1 [Source:HGNC Symbol;Acc:11321]
6489	ENSG00000153561	2407.812003	0.289229812	0.091558316	0.004566134	RMND5A	required for meiotic nuclear division 5 homolog A (S. cerevisiae) [Source:HGNC Symbol;Acc:25850]
6490	ENSG00000128050	840.6869431	-0.405259642	0.128318071	0.004576805	PAICS	phosphoribosylaminoimidazole carboxylase, phosphoribosylaminoimidazole succinocarboxamide synthetase [Source:HGNC Symbol;Acc:8587]

6491	ENSG00000165410	91.72616144	0.995625225	0.315296961	0.004584032	CFL2	cofilin 2 (muscle) [Source:HGNC Symbol;Acc:1875]
6492	ENSG00000241549	84.60260427	-1.005871045	0.318660606	0.004601895	GUSBP2	glucuronidase, beta pseudogene 2 [Source:HGNC Symbol;Acc:18792]
6493	ENSG00000188152	34.78130742	-1.429813745	0.45298663	0.004603462	NUTM2G	NUT family member 2G [Source:HGNC Symbol;Acc:23449]
6494	ENSG00000140263	328.2017497	-0.559399861	0.177286216	0.004619606	SORD	sorbitol dehydrogenase [Source:HGNC Symbol;Acc:11184]
6495	ENSG00000102158	459.1211771	0.467562613	0.148198792	0.004624911	MAGT1	magnesium transporter 1 [Source:HGNC Symbol;Acc:28880]
6496	ENSG00000048471	707.916175	0.434486067	0.137770712	0.004644519	SNX29	sorting nexin 29 [Source:HGNC Symbol;Acc:30542]
6497	ENSG00000203797	79.74227827	1.025722444	0.325254116	0.004644835	DDO	D-aspartate oxidase [Source:HGNC Symbol;Acc:2727]
6498	ENSG00000143222	1127.86974	0.311356678	0.098731183	0.004644835	UFC1	ubiquitin-fold modifier conjugating enzyme 1 [Source:HGNC Symbol;Acc:26941]
6499	ENSG00000106246	320.8809431	0.571812943	0.18136096	0.004654953	PTCD1	pentatricopeptide repeat domain 1 [Source:HGNC Symbol;Acc:22198]
6500	ENSG00000184305	60.63873147	-1.195455486	0.379221755	0.004662346	CCSER1	coiled-coil serine-rich protein 1 [Source:HGNC Symbol;Acc:29349]
6501	ENSG00000077147	2480.384201	0.239430128	0.076023684	0.00470938	TM9SF3	transmembrane 9 superfamily member 3 [Source:HGNC Symbol;Acc:21529]
6502	ENSG00000240857	147.3600497	0.804572734	0.255547966	0.004724688	RDH14	retinol dehydrogenase 14 (all-trans/9-cis/11-cis) [Source:HGNC Symbol;Acc:19979]
6503	ENSG00000174255	74.4605073	1.099827315	0.349429361	0.004738952	ZNF80	zinc finger protein 80 [Source:HGNC Symbol;Acc:13155]
6504	ENSG00000170891	109.3782623	0.905420956	0.287762817	0.00475578	CYTL1	cytokine-like 1 [Source:HGNC Symbol;Acc:24435]
6505	ENSG00000259494	192.7394383	0.702808556	0.223374322	0.004756472	MRPL46	mitochondrial ribosomal protein L46 [Source:HGNC Symbol;Acc:1192]
6506	ENSG00000105290	13.78454701	-1.717568354	0.546271571	0.004790847	APLP1	amyloid beta (A4) precursor-like protein 1 [Source:HGNC Symbol;Acc:597]
6507	ENSG00000217930	519.9483293	-0.439832988	0.139890202	0.004790847	PAM16	presequence translocase-associated motor 16 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:29679]
6508	ENSG00000231048	285.9181739	-0.734692351	0.23368667	0.00479354	LST1	leukocyte specific transcript 1 [Source:HGNC Symbol;Acc:14189]
6509	ENSG00000162408	490.4409269	0.505807706	0.160919264	0.004803979	NOL9	nucleolar protein 9 [Source:HGNC Symbol;Acc:26265]
6510	ENSG00000173209	5492.672735	0.186665519	0.059406841	0.004821056	AHSA2	AHA1, activator of heat shock 90kDa protein ATPase homolog 2 (yeast) [Source:HGNC Symbol;Acc:20437]
6511	ENSG00000116106	110.9194441	1.029775934	0.327814584	0.004833812	EPHA4	EPH receptor A4 [Source:HGNC Symbol;Acc:3388]
6512	ENSG00000269639	459.3158783	0.465368867	0.148156926	0.00483774	MAGT1	magnesium transporter 1 [Source:HGNC Symbol;Acc:28880]
6513	ENSG00000168393	268.1192001	-0.626357273	0.199445065	0.004846147	DTYMK	deoxythymidylate kinase (thymidylate kinase) [Source:HGNC Symbol;Acc:3061]
6514	ENSG00000204165	303.1565597	0.562736277	0.17919808	0.004848666	Cxorf65	chromosome X open reading frame 65 [Source:HGNC Symbol;Acc:33713]
6515	ENSG00000148824	312.3178756	0.57723781	0.183837314	0.004853962	MTG1	mitochondrial ribosome-associated GTPase 1 [Source:HGNC Symbol;Acc:32159]
6516	ENSG00000137491	68.3871792	1.279473505	0.407589053	0.004866686	SLCO2B1	solute carrier organic anion transporter family, member 2B1 [Source:HGNC Symbol;Acc:10962]
6517	ENSG00000005700	623.5368353	0.417086522	0.132898362	0.004878226	IBTK	inhibitor of Bruton agammaglobulinemia tyrosine kinase [Source:HGNC Symbol;Acc:17853]
6518	ENSG00000160072	358.0393751	0.659000377	0.210105506	0.004908623	ATAD3B	ATPase family, AAA domain containing 3B [Source:HGNC Symbol;Acc:24007]

6519	ENSG00000185252	172.1864718	0.776630011	0.247662836	0.004919352	ZNF74	zinc finger protein 74 [Source:HGNC Symbol;Acc:13144]
6520	ENSG00000183474	981.2400467	-0.344159717	0.109771995	0.004928881	GTF2H2C	general transcription factor IIH, polypeptide 2C [Source:HGNC Symbol;Acc:31394]
6521	ENSG00000108578	480.3089517	0.479655162	0.153008745	0.004934874	BLMH	bleomycin hydrolase [Source:HGNC Symbol;Acc:1059]
6522	ENSG00000182871	755.314997	0.544370627	0.173661376	0.004936718	COL18A1	collagen, type XVIII, alpha 1 [Source:HGNC Symbol;Acc:2195]
6523	ENSG00000165406	985.7133508	-0.409397073	0.130622911	0.004943991	MARCH8	membrane-associated ring finger (C3HC4) 8, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:23356]
6524	ENSG00000105879	1033.61507	0.339643618	0.10836917	0.004944164	CBLL1	Cbl proto-oncogene-like 1, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:21225]
6525	ENSG00000103351	270.5316109	0.63123587	0.201432229	0.004950097	CLUAP1	clusterin associated protein 1 [Source:HGNC Symbol;Acc:19009]
6526	ENSG00000262788	34.63094635	1.540046484	0.491722813	0.004979748	CIRH1A	cirrhosis, autosomal recessive 1A (cirhin) [Source:HGNC Symbol;Acc:1983]
6527	ENSG00000185236	977.5745588	0.38644011	0.123410576	0.004989224	RAB11B	RAB11B, member RAS oncogene family [Source:HGNC Symbol;Acc:9761]
6528	ENSG00000198246	86.88646857	1.032242924	0.329659492	0.004990112	SLC29A3	solute carrier family 29 (equilibrative nucleoside transporter), member 3 [Source:HGNC Symbol;Acc:23096]
6529	ENSG00000205755	9.811095716	1.773705509	0.56650242	0.004993831	CRLF2	cytokine receptor-like factor 2 [Source:HGNC Symbol;Acc:14281]
6530	ENSG00000136866	41.57088401	1.359529381	0.434289673	0.005001732	ZFP37	ZFP37 zinc finger protein [Source:HGNC Symbol;Acc:12863]
6531	ENSG00000176994	695.361882	0.414514728	0.132420807	0.005003401	SMCR8	Smith-Magenis syndrome chromosome region, candidate 8 [Source:HGNC Symbol;Acc:17921]
6532	ENSG00000204767	29.57132612	-1.525334095	0.487283782	0.005003401	FAM196B	family with sequence similarity 196, member B [Source:HGNC Symbol;Acc:37271]
6533	ENSG00000138363	607.4339088	0.442852622	0.141502905	0.00501359	ATIC	5-aminoimidazole-4-carboxamide ribonucleotide formyltransferase/IMP cyclohydrolase [Source:HGNC Symbol;Acc:794]
6534	ENSG00000113595	365.601346	0.531628553	0.169897178	0.005021649	TRIM23	tripartite motif containing 23 [Source:HGNC Symbol;Acc:660]
6535	ENSG00000188938	658.1026015	0.399884389	0.127820776	0.005031864	FAM120AOS	family with sequence similarity 120A opposite strand [Source:HGNC Symbol;Acc:23389]
6536	ENSG00000188827	347.3474846	-0.546534319	0.174707702	0.005034501	SLX4	SLX4 structure-specific endonuclease subunit [Source:HGNC Symbol;Acc:23845]
6537	ENSG00000166035	35.7329859	1.430877816	0.457439186	0.005038199	LIPC	lipase, hepatic [Source:HGNC Symbol;Acc:6619]
6538	ENSG00000173548	75.41997533	1.080347005	0.345411261	0.005042665	SNX33	sorting nexin 33 [Source:HGNC Symbol;Acc:28468]
6539	ENSG00000167716	427.1381823	0.606010884	0.193761471	0.005043596	WDR81	WD repeat domain 81 [Source:HGNC Symbol;Acc:26600]
6540	ENSG00000125246	61.76682337	1.169237898	0.373852833	0.005044158	CLYBL	citrate lyase beta like [Source:HGNC Symbol;Acc:18355]
6541	ENSG00000089289	1133.900506	0.333900414	0.106769394	0.005047346	IGBP1	immunoglobulin (CD79A) binding protein 1 [Source:HGNC Symbol;Acc:5461]
6542	ENSG00000147439	1034.038277	-0.396622982	0.126838474	0.005051931	BIN3	bridging integrator 3 [Source:HGNC Symbol;Acc:1054]
6543	ENSG00000197969	1771.74687	0.305897176	0.097848462	0.005064212	VPS13A	vacuolar protein sorting 13 homolog A ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:1908]
6544	ENSG00000150967	84.1018203	-1.020265943	0.326375384	0.005066596	ABCB9	ATP-binding cassette, sub-family B (MDR/TAP), member 9 [Source:HGNC Symbol;Acc:50]
6545	ENSG00000149054	43.13743213	-1.282977119	0.410504748	0.005077645	ZNF215	zinc finger protein 215 [Source:HGNC Symbol;Acc:13007]
6546	ENSG00000134201	15.37813741	1.734359071	0.554974521	0.005081188	GSTM5	glutathione S-transferase mu 5 [Source:HGNC Symbol;Acc:4637]



6547	ENSG00000129226	2469.414528	0.247703225	0.079305983	0.005110346	CD68	CD68 molecule [Source:HGNC Symbol;Acc:1693]
6548	ENSG00000065882	2561.351999	-0.257902401	0.082590389	0.005122043	TBC1D1	TBC1 (tre-2/USP6, BUB2, cdc16) domain family, member 1 [Source:HGNC Symbol;Acc:11578]
6549	ENSG00000010539	739.5287157	0.39937977	0.127904758	0.005124579	ZNF200	zinc finger protein 200 [Source:HGNC Symbol;Acc:12993]
6550	ENSG00000198363	689.7320049	0.46232264	0.148081087	0.005130532	ASPH	aspartate beta-hydroxylase [Source:HGNC Symbol;Acc:757]
6551	ENSG00000267264	22.81809606	-1.578522348	0.505671043	0.005137636	CTC-459F4.6	
6552	ENSG00000153071	149.3531709	0.931050955	0.298483267	0.00517827	DAB2	Dab, mitogen-responsive phosphoprotein, homolog 2 (Drosophila) [Source:HGNC Symbol;Acc:2662]
6553	ENSG00000163374	3124.13907	-0.222999521	0.071508782	0.005191242	YY1AP1	YY1 associated protein 1 [Source:HGNC Symbol;Acc:30935]
6554	ENSG00000236056	13.26516182	1.747149194	0.560267527	0.005191716	GAPDHP14	glyceraldehyde-3-phosphate dehydrogenase pseudogene 14 [Source:HGNC Symbol;Acc:4160]
6555	ENSG00000054654	5431.437471	0.20424519	0.065500047	0.005194	SYNE2	spectrin repeat containing, nuclear envelope 2 [Source:HGNC Symbol;Acc:17084]
6556	ENSG00000139725	1418.810993	0.291533286	0.093520833	0.005209734	RHOF	ras homolog family member F (in filopodia) [Source:HGNC Symbol;Acc:15703]
6557	ENSG00000197844	36.62597641	-1.351616847	0.433642421	0.005216293	AL358813.1	
6558	ENSG00000100422	2594.053304	0.233681243	0.075003134	0.005238061	CERK	ceramide kinase [Source:HGNC Symbol;Acc:19256]
6559	ENSG00000116525	247.305116	0.621766426	0.199610983	0.00525022	TRIM62	tripartite motif containing 62 [Source:HGNC Symbol;Acc:25574]
6560	ENSG00000196476	187.9720334	-0.683835738	0.219669208	0.00528272	C20orf96	chromosome 20 open reading frame 96 [Source:HGNC Symbol;Acc:16227]
6561	ENSG00000166479	2036.577553	-0.246452981	0.079199737	0.005304053	TMX3	thioredoxin-related transmembrane protein 3 [Source:HGNC Symbol;Acc:24718]
6562	ENSG00000230373	252.9198021	-0.637244266	0.204789752	0.00530487	GOLGA6L5P	golgin A6 family-like 5, pseudogene [Source:HGNC Symbol;Acc:30472]
6563	ENSG00000111837	94.79250151	0.990858441	0.318469705	0.005311046	MAK	male germ cell-associated kinase [Source:HGNC Symbol;Acc:6816]
6564	ENSG00000158106	108.3093089	1.06079448	0.340992039	0.005317517	RHPN1	rhophilin, Rho GTPase binding protein 1 [Source:HGNC Symbol;Acc:19973]
6565	ENSG00000116898	626.8717219	-0.417800082	0.134310727	0.005320473	MRPS15	mitochondrial ribosomal protein S15 [Source:HGNC Symbol;Acc:14504]
6566	ENSG00000167034	24.26801921	1.565628953	0.50332862	0.005322321	NKX3-1	NK3 homeobox 1 [Source:HGNC Symbol;Acc:7838]
6567	ENSG00000100297	1306.53014	-0.382859165	0.12312002	0.005337902	MCM5	minichromosome maintenance complex component 5 [Source:HGNC Symbol;Acc:6948]
6568	ENSG00000136381	1651.123076	0.343840291	0.110645148	0.005374191	IREB2	iron-responsive element binding protein 2 [Source:HGNC Symbol;Acc:6115]
6569	ENSG00000167113	517.8338274	0.431279526	0.138798868	0.005380072	COQ4	coenzyme Q4 [Source:HGNC Symbol;Acc:19693]
6570	ENSG00000102057	267.9418564	-0.697893181	0.224609416	0.005380805	KCND1	potassium voltage-gated channel, Shal-related subfamily, member 1 [Source:HGNC Symbol;Acc:6237]
6571	ENSG00000238227	469.4559703	0.515100616	0.165832391	0.005398018	C9orf69	chromosome 9 open reading frame 69 [Source:HGNC Symbol;Acc:31009]
6572	ENSG00000150681	2242.347723	-0.244702526	0.078794863	0.005407931	RG518	regulator of G-protein signaling 18 [Source:HGNC Symbol;Acc:14261]
6573	ENSG00000124875	52.54542937	-1.171023332	0.377117436	0.005413859	CXCL6	chemokine (C-X-C motif) ligand 6 [Source:HGNC Symbol;Acc:10643]
6574	ENSG00000132205	662.3394002	0.407690861	0.131313571	0.005421884	EMILIN2	elastin microfibril interfacer 2 [Source:HGNC Symbol;Acc:19881]

6575	ENSG00000250017	125.0005662	-0.850849266	0.274091923	0.005429577	RP11-484L7.2	
6576	ENSG00000127418	123.4418355	0.868839806	0.279900107	0.005431342	FGFRL1	fibroblast growth factor receptor-like 1 [Source:HGNC Symbol;Acc:3693]
6577	ENSG00000203871	48.99972946	-1.214452807	0.391290172	0.005437728	C6orf164	chromosome 6 open reading frame 164 [Source:HGNC Symbol;Acc:21404]
6578	ENSG00000122121	24.70786239	1.531314149	0.493395414	0.005438545	XPNPEP2	X-prolyl aminopeptidase (aminopeptidase P) 2, membrane-bound [Source:HGNC Symbol;Acc:12823]
6579	ENSG00000144118	3766.59707	-0.224108242	0.072225535	0.005451144	RALB	v-ral simian leukemia viral oncogene homolog B [Source:HGNC Symbol;Acc:9840]
6580	ENSG00000224813	47.53780798	-1.237063856	0.398771035	0.005463295	RP4-669L17.4	
6581	ENSG00000175582	2335.532479	-0.232402288	0.07492131	0.005466879	RAB6A	RAB6A, member RAS oncogene family [Source:HGNC Symbol;Acc:9786]
6582	ENSG00000236233	53.24328097	-1.300701627	0.419417858	0.005479815	RP11-12A20.7	
6583	ENSG00000154102	90.56359736	0.967567368	0.312104413	0.005498761	C16orf74	chromosome 16 open reading frame 74 [Source:HGNC Symbol;Acc:23362]
6584	ENSG00000186260	204.8349504	-0.704819752	0.22739064	0.00550798	MKL2	MKL/myocardin-like 2 [Source:HGNC Symbol;Acc:29819]
6585	ENSG00000183648	1051.806033	-0.345323856	0.11144716	0.005526798	NDUFB1	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 1, 7kDa [Source:HGNC Symbol;Acc:7695]
6586	ENSG00000189212	36.58649793	-1.385393086	0.447133606	0.005528189	DPY19L2P1	DPY19L2 pseudogene 1 [Source:HGNC Symbol;Acc:22305]
6587	ENSG00000161217	3154.244369	-0.242339139	0.07821482	0.005528189	PCYT1A	phosphate cytidyltransferase 1, choline, alpha [Source:HGNC Symbol;Acc:8754]
6588	ENSG00000197892	553.7013633	0.446526024	0.144182947	0.005554236	KIF13B	kinesin family member 13B [Source:HGNC Symbol;Acc:14405]
6589	ENSG00000253882	66.97383106	1.127209923	0.364086797	0.005571184	RP11-61L23.2	
6590	ENSG00000161328	15.90246718	1.680023752	0.542714707	0.005577848	LRRCS6	leucine rich repeat containing 56 [Source:HGNC Symbol;Acc:25430]
6591	ENSG00000121570	92.1806791	-0.998962469	0.322724847	0.005580663	DPPA4	developmental pluripotency associated 4 [Source:HGNC Symbol;Acc:19200]
6592	ENSG00000125743	1136.118494	0.340761461	0.110088685	0.005580988	SNRPD2	small nuclear ribonucleoprotein D2 polypeptide 16.5kDa [Source:HGNC Symbol;Acc:11159]
6593	ENSG00000183281	377.1947244	0.509532088	0.164619933	0.005582646	PLGLB1	plasminogen-like B1 [Source:HGNC Symbol;Acc:9072]
6594	ENSG00000165338	53.24337766	1.231919739	0.398021803	0.005583619	HECTD2	HECT domain containing E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:26736]
6595	ENSG00000131373	238.7931825	0.622632811	0.201218487	0.005597731	HACL1	2-hydroxyacyl-CoA lyase 1 [Source:HGNC Symbol;Acc:17856]
6596	ENSG00000162614	74.64904596	1.083648048	0.3502115	0.005597731	NEXN	nexilin (F actin binding protein) [Source:HGNC Symbol;Acc:29557]
6597	ENSG00000154803	1963.859505	-0.265119557	0.085719753	0.005623414	FLCN	folliculin [Source:HGNC Symbol;Acc:27310]
6598	ENSG00000198642	1169.373062	0.313080702	0.101247704	0.00563468	KLHL9	kelch-like family member 9 [Source:HGNC Symbol;Acc:18732]
6599	ENSG00000164976	396.0662944	-0.507826904	0.164239787	0.005638393	KIAA1161	KIAA1161 [Source:HGNC Symbol;Acc:19918]
6600	ENSG00000261283	335.8084104	0.542151795	0.175365988	0.0056459	PRKRIP1	PRKR interacting protein 1 (IL11 inducible) [Source:HGNC Symbol;Acc:21894]
6601	ENSG00000259075	99.97221252	1.749916505	0.566107734	0.005652804	POC1B-GALNT4	POC1B-GALNT4 readthrough [Source:HGNC Symbol;Acc:42957]
6602	ENSG00000149823	731.3786296	0.465603683	0.150639617	0.00565751	VPS51	vacuolar protein sorting 51 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:1172]

6603	ENSG00000159899	112.6039346	0.881006662	0.285053799	0.005660022	NPR2	natriuretic peptide receptor B/guanylate cyclase B (atrionatriuretic peptide receptor B) [Source:HGNC Symbol;Acc:7944]
6604	ENSG00000145337	754.7967736	0.387322007	0.125350458	0.005673571	PYURF	PIGY upstream reading frame [Source:HGNC Symbol;Acc:44317]
6605	ENSG00000006704	27.78946556	1.501975188	0.486146928	0.00567965	GTF2IRD1	GTF2I repeat domain containing 1 [Source:HGNC Symbol;Acc:4661]
6606	ENSG00000167550	51.56217502	1.204092131	0.389751983	0.005682032	RHEBL1	Ras homolog enriched in brain like 1 [Source:HGNC Symbol;Acc:21166]
6607	ENSG00000181222	5470.719214	0.18191825	0.058890506	0.005686671	POLR2A	polymerase (RNA) II (DNA directed) polypeptide A, 220kDa [Source:HGNC Symbol;Acc:9187]
6608	ENSG00000125170	193.5880393	0.706769552	0.228820465	0.005692349	DOK4	docking protein 4 [Source:HGNC Symbol;Acc:19868]
6609	ENSG00000261920	27.78659939	1.501598413	0.486157758	0.005692358	GTF2IRD1	GTF2I repeat domain containing 1 [Source:HGNC Symbol;Acc:4661]
6610	ENSG00000227201	29.46841085	-1.420905393	0.460122442	0.005703064	CNN2P1	calponin 2 pseudogene 1 [Source:HGNC Symbol;Acc:39526]
6611	ENSG00000196235	2360.645622	0.260123542	0.084248181	0.005712117	SUPT5H	suppressor of Ty 5 homolog ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:11469]
6612	ENSG00000158941	1820.693028	0.269186621	0.087195044	0.005719107	CCAR2	cell cycle and apoptosis regulator 2 [Source:HGNC Symbol;Acc:23360]
6613	ENSG00000119514	81.13285525	1.078774469	0.349454556	0.005721213	GALNT12	UDP-N-acetyl-alpha-D-galactosamine:polypeptide N-acetylgalactosaminyltransferase 12 (GalNAc-T12) [Source:HGNC Symbol;Acc:19877]
6614	ENSG00000092847	1644.950954	0.273635872	0.08867301	0.005742045	AGO1	argonaute RISC catalytic component 1 [Source:HGNC Symbol;Acc:3262]
6615	ENSG00000148399	554.2009189	0.443271711	0.143673019	0.005753093	DPH7	diphthamide biosynthesis 7 [Source:HGNC Symbol;Acc:25199]
6616	ENSG00000129990	38.64073353	-1.318028909	0.427301807	0.005766609	SYT5	synaptotagmin V [Source:HGNC Symbol;Acc:11513]
6617	ENSG00000136813	1881.45007	-0.321688303	0.104323118	0.005784416	KIAA0368	KIAA0368 [Source:HGNC Symbol;Acc:29020]
6618	ENSG00000125534	449.0631351	0.551540585	0.178880532	0.005789108	PPDPF	pancreatic progenitor cell differentiation and proliferation factor [Source:HGNC Symbol;Acc:16142]
6619	ENSG00000253328	89.79231479	-0.973443561	0.315873604	0.005818259	SUMO2P19	SUMO2 pseudogene 19 [Source:HGNC Symbol;Acc:49357]
6620	ENSG00000174951	112.478018	-0.975720629	0.316655439	0.005825553	FUT1	fucosyltransferase 1 (galactoside 2-alpha-L-fucosyltransferase, H blood group) [Source:HGNC Symbol;Acc:4012]
6621	ENSG00000139977	405.6637149	0.491845691	0.159629892	0.005827989	NAA30	N(alpha)-acetyltransferase 30, NatC catalytic subunit [Source:HGNC Symbol;Acc:19844]
6622	ENSG00000268699	2061.382657	0.262736293	0.085273939	0.005828624	GAB3	GRB2-associated binding protein 3 [Source:HGNC Symbol;Acc:17515]
6623	ENSG00000159377	3230.409877	0.208603836	0.067728023	0.005848163	PSMB4	proteasome (prosome, macropain) subunit, beta type, 4 [Source:HGNC Symbol;Acc:9541]
6624	ENSG00000260078	840.0572068	-0.359503065	0.116721815	0.005848163	RP11-44F14.1	
6625	ENSG00000149313	510.0131099	0.445609788	0.144689396	0.005851813	AASDHPPT	aminoadipate-semialdehyde dehydrogenase-phosphopantetheinyl transferase [Source:HGNC Symbol;Acc:14235]
6626	ENSG00000117528	636.4554691	-0.412164494	0.133853626	0.005861745	ABCD3	ATP-binding cassette, sub-family D (ALD), member 3 [Source:HGNC Symbol;Acc:67]
6627	ENSG00000127954	8374.603059	0.171748711	0.05580081	0.005887057	STEAP4	STEAP family member 4 [Source:HGNC Symbol;Acc:21923]
6628	ENSG00000056586	1692.616382	0.325370327	0.105736873	0.005900391	RC3H2	ring finger and CCCH-type domains 2 [Source:HGNC Symbol;Acc:21461]
6629	ENSG00000116221	469.9342849	-0.451369793	0.146694847	0.005904249	MRPL37	mitochondrial ribosomal protein L37 [Source:HGNC Symbol;Acc:14034]
6630	ENSG00000188611	22.67865822	1.636223146	0.531921373	0.005920573	ASAH2	N-acylsphingosine amidohydrolase (non-lysosomal ceramidase) 2 [Source:HGNC Symbol;Acc:18860]

6631	ENSG00000127511	1706.405145	-0.312155605	0.101488765	0.005925578	SIN3B	SIN3 transcription regulator family member B [Source:HGNC Symbol;Acc:19354]
6632	ENSG00000166509	21.72293385	-1.572506306	0.511547231	0.005959456	CLEC3A	C-type lectin domain family 3, member A [Source:HGNC Symbol;Acc:2052]
6633	ENSG00000111615	649.9981057	0.400827317	0.130396636	0.005960782	KRR1	KRR1, small subunit (SSU) processome component, homolog (yeast) [Source:HGNC Symbol;Acc:5176]
6634	ENSG00000141219	323.716113	0.538170849	0.175303664	0.006039747	C17orf80	chromosome 17 open reading frame 80 [Source:HGNC Symbol;Acc:29601]
6635	ENSG00000204186	149.6531188	0.816349334	0.265983857	0.006054348	ZDBF2	zinc finger, DBF-type containing 2 [Source:HGNC Symbol;Acc:29313]
6636	ENSG00000130234	10.78611666	-1.724491855	0.562051009	0.006072843	ACE2	angiotensin I converting enzyme 2 [Source:HGNC Symbol;Acc:13557]
6637	ENSG00000110844	85.34752185	1.044932316	0.340589904	0.006076096	PRPF40B	PRP40 pre-mRNA processing factor 40 homolog B ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:25031]
6638	ENSG00000234487	1538.111241	1.141394879	0.372057055	0.006079493	HLA-F	major histocompatibility complex, class I, F [Source:HGNC Symbol;Acc:4963]
6639	ENSG00000147669	498.5415533	-0.438593453	0.142991036	0.006089079	POLR2K	polymerase (RNA) II (DNA directed) polypeptide K, 7.0kDa [Source:HGNC Symbol;Acc:9198]
6640	ENSG0000064201	2137.983636	-0.326369082	0.106446011	0.006113195	TSPAN32	tetraspanin 32 [Source:HGNC Symbol;Acc:13410]
6641	ENSG00000158234	82.20695904	0.981118708	0.320026287	0.006118586	FAIM	Fas apoptotic inhibitory molecule [Source:HGNC Symbol;Acc:18703]
6642	ENSG00000137166	135.0799125	0.831956012	0.271457218	0.006136667	FOXP4	forkhead box P4 [Source:HGNC Symbol;Acc:20842]
6643	ENSG00000165028	73.72664278	1.078212887	0.351808559	0.006136667	NIPSNAP3B	nipsnap homolog 3B ( <i>C. elegans</i> ) [Source:HGNC Symbol;Acc:23641]
6644	ENSG00000120526	140.5176853	0.801887151	0.261657458	0.006138347	NUDCD1	NudC domain containing 1 [Source:HGNC Symbol;Acc:24306]
6645	ENSG00000219626	680.9383654	-0.397375746	0.129675606	0.006142792	FAM228B	family with sequence similarity 228, member B [Source:HGNC Symbol;Acc:24736]
6646	ENSG00000137502	173.8886079	0.80823266	0.263804942	0.00615486	RAB30	RAB30, member RAS oncogene family [Source:HGNC Symbol;Acc:9770]
6647	ENSG00000151692	682.2253746	-0.389134064	0.127028178	0.006161816	RNF144A	ring finger protein 144A [Source:HGNC Symbol;Acc:20457]
6648	ENSG00000163710	14.13458041	-1.678455454	0.548004927	0.006171618	PCOLCE2	procollagen C-endopeptidase enhancer 2 [Source:HGNC Symbol;Acc:8739]
6649	ENSG0000099381	494.3406792	0.49219003	0.160717147	0.006178657	SETD1A	SET domain containing 1A [Source:HGNC Symbol;Acc:29010]
6650	ENSG00000227460	270.9561905	0.699629303	0.228499564	0.006190545	SYNGAP1	synaptic Ras GTPase activating protein 1 [Source:HGNC Symbol;Acc:11497]
6651	ENSG00000122085	683.2589776	0.387139036	0.126455075	0.006197186	MTERFD2	MTERF domain containing 2 [Source:HGNC Symbol;Acc:28785]
6652	ENSG00000152284	142.1673222	-0.822200155	0.268751508	0.006240747	TCF7L1	transcription factor 7-like 1 (T-cell specific, HMG-box) [Source:HGNC Symbol;Acc:11640]
6653	ENSG00000150764	37.74490458	-1.323938707	0.432776177	0.006243054	DIXDC1	DIX domain containing 1 [Source:HGNC Symbol;Acc:23695]
6654	ENSG00000186111	597.2600988	0.500763618	0.16372736	0.006255782	PIP5K1C	phosphatidylinositol-4-phosphate 5-kinase, type I, gamma [Source:HGNC Symbol;Acc:8996]
6655	ENSG00000184207	641.7134976	-0.408950875	0.133748859	0.006274045	PGP	phosphoglycolate phosphatase [Source:HGNC Symbol;Acc:8909]
6656	ENSG00000121931	532.8046396	0.435682685	0.142526698	0.006288884	LRIF1	ligand dependent nuclear receptor interacting factor 1 [Source:HGNC Symbol;Acc:30299]
6657	ENSG00000242097	39.84807803	-1.283161116	0.419841731	0.006299537	RP11-64D22.1	
6658	ENSG00000160201	4376.456793	-0.194873101	0.063768484	0.006305955	U2AF1	U2 small nuclear RNA auxiliary factor 1 [Source:HGNC Symbol;Acc:12453]

6659	ENSG00000130803	903.5867528	0.386110312	0.126373106	0.006317496	ZNF317	zinc finger protein 317 [Source:HGNC Symbol;Acc:13507]
6660	ENSG00000205476	39.01188858	1.453608284	0.475764815	0.006317496	CCDC85C	coiled-coil domain containing 85C [Source:HGNC Symbol;Acc:35459]
6661	ENSG00000121406	299.1926634	0.58700303	0.192165302	0.00632985	ZNF549	zinc finger protein 549 [Source:HGNC Symbol;Acc:26632]
6662	ENSG00000067955	1259.70617	0.312362085	0.10226458	0.006333695	CBFB	core-binding factor, beta subunit [Source:HGNC Symbol;Acc:1539]
6663	ENSG00000149531	271.2890843	0.59945671	0.196273368	0.006338184	FRG1B	FSD region gene 1 family, member B [Source:HGNC Symbol;Acc:15792]
6664	ENSG00000180138	77.51351296	-1.011606401	0.331227936	0.006338992	CSNK1A1L	casein kinase 1, alpha 1-like [Source:HGNC Symbol;Acc:20289]
6665	ENSG00000174807	28.32236767	1.45439133	0.476468807	0.006373454	CD248	CD248 molecule, endosialin [Source:HGNC Symbol;Acc:18219]
6666	ENSG00000151023	15.36652742	1.665512789	0.545680454	0.006378056	ENKUR	enkurin, TRPC channel interacting protein [Source:HGNC Symbol;Acc:28388]
6667	ENSG00000196268	1502.447609	-0.285972065	0.093700404	0.006381195	ZNF493	zinc finger protein 493 [Source:HGNC Symbol;Acc:23708]
6668	ENSG00000086619	634.7696864	0.399714928	0.130973504	0.006382513	ERO1LB	ERO1-like beta ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:14355]
6669	ENSG00000084092	342.2188491	0.566332937	0.185573785	0.006383308	NOA1	nitric oxide associated 1 [Source:HGNC Symbol;Acc:28473]
6670	ENSG00000177051	585.8529235	-0.454879929	0.149088475	0.006397679	FBXO46	F-box protein 46 [Source:HGNC Symbol;Acc:25069]
6671	ENSG00000251606	24.1297538	1.530944741	0.501888857	0.006411813	CTD-2215E18.1	Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:D6RF79]
6672	ENSG00000168280	66.24096065	1.115629287	0.365800139	0.006421667	KIF5C	kinesin family member 5C [Source:HGNC Symbol;Acc:6325]
6673	ENSG00000147853	609.6761504	0.406288119	0.13321847	0.006421667	AK3	adenylate kinase 3 [Source:HGNC Symbol;Acc:17376]
6674	ENSG00000262907	66.24142822	1.115605218	0.365799807	0.006421667	KIF5C	kinesin family member 5C [Source:HGNC Symbol;Acc:6325]
6675	ENSG00000081760	451.4085823	-0.497522049	0.163140631	0.006423237	AACS	acetoacetyl-CoA synthetase [Source:HGNC Symbol;Acc:21298]
6676	ENSG00000126215	503.3815659	-0.510350831	0.16738499	0.006436985	XRCC3	X-ray repair complementing defective repair in Chinese hamster cells 3 [Source:HGNC Symbol;Acc:12830]
6677	ENSG00000064489	181.4086999	-0.734612599	0.241089531	0.006477082	MEF2BNB-MEF2B	MEF2BNB-MEF2B readthrough [Source:HGNC Symbol;Acc:39979]
6678	ENSG00000174695	2115.866067	-0.275043908	0.090289796	0.006493766	TMEM167A	transmembrane protein 167A [Source:HGNC Symbol;Acc:28330]
6679	ENSG00000128918	60.33638688	-1.124367385	0.369204003	0.006511223	ALDH1A2	aldehyde dehydrogenase 1 family, member A2 [Source:HGNC Symbol;Acc:15472]
6680	ENSG00000107175	313.0691257	0.534269748	0.175497369	0.006533335	CREB3	cAMP responsive element binding protein 3 [Source:HGNC Symbol;Acc:2347]
6681	ENSG00000227780	129.733637	0.836866172	0.275152811	0.006593714	ZBTB22	zinc finger and BTB domain containing 22 [Source:HGNC Symbol;Acc:13085]
6682	ENSG00000229253	129.7336358	0.836866063	0.275152811	0.006593714	ZBTB22	zinc finger and BTB domain containing 22 [Source:HGNC Symbol;Acc:13085]
6683	ENSG00000124209	1022.367594	0.327394911	0.107657691	0.006601188	RAB22A	RAB22A, member RAS oncogene family [Source:HGNC Symbol;Acc:9764]
6684	ENSG00000155970	31.00272346	1.505861453	0.495204204	0.006604219	MICU3	mitochondrial calcium uptake family, member 3 [Source:HGNC Symbol;Acc:27820]
6685	ENSG00000198276	338.4732583	0.596656732	0.196215239	0.006604595	UCKL1	uridine-cytidine kinase 1-like 1 [Source:HGNC Symbol;Acc:15938]
6686	ENSG00000205670	196.5032599	0.66376865	0.218416769	0.006643793	SMIM11	small integral membrane protein 11 [Source:HGNC Symbol;Acc:1293]

6687	ENSG00000261652	20.28963853	-1.546369237	0.508963739	0.006658924	C15orf65	chromosome 15 open reading frame 65 [Source:HGNC Symbol;Acc:44654]
6688	ENSG00000159882	445.25614	0.466058168	0.153413844	0.006665782	ZNF230	zinc finger protein 230 [Source:HGNC Symbol;Acc:13024]
6689	ENSG00000211777	27.26249622	1.523678069	0.501605194	0.006671654	TRAV3	T cell receptor alpha variable 3 (gene/pseudogene) [Source:HGNC Symbol;Acc:12128]
6690	ENSG00000102900	773.4252973	-0.4242012	0.13968481	0.006687468	NUP93	nucleoporin 93kDa [Source:HGNC Symbol;Acc:28958]
6691	ENSG0000080561	35.64364152	1.402545087	0.461990168	0.006707997	MID2	midline 2 [Source:HGNC Symbol;Acc:7096]
6692	ENSG00000177984	63.81467504	-1.088959856	0.358788198	0.006724175	LCN15	lipocalin 15 [Source:HGNC Symbol;Acc:33777]
6693	ENSG00000110944	46.50715894	1.250402948	0.41231317	0.006778025	IL23A	interleukin 23, alpha subunit p19 [Source:HGNC Symbol;Acc:15488]
6694	ENSG00000174083	308.533029	-0.539697856	0.177975688	0.006782153	PIK3R6	phosphoinositide-3-kinase, regulatory subunit 6 [Source:HGNC Symbol;Acc:27101]
6695	ENSG00000188389	21.7074115	1.554718488	0.512710967	0.006782843	PDCD1	programmed cell death 1 [Source:HGNC Symbol;Acc:8760]
6696	ENSG00000165494	3031.704937	-0.242732165	0.080072553	0.006803116	PCF11	PCF11 cleavage and polyadenylation factor subunit [Source:HGNC Symbol;Acc:30097]
6697	ENSG00000178950	2554.031703	-0.316486823	0.104434001	0.006822256	GAK	cyclin G associated kinase [Source:HGNC Symbol;Acc:4113]
6698	ENSG00000230635	11.54338485	-1.712024747	0.565110739	0.006843202	CYP4F60P	cytochrome P450, family 4, subfamily F, polypeptide 60, pseudogene [Source:HGNC Symbol;Acc:42468]
6699	ENSG00000242324	76.37990207	-1.013803432	0.334653388	0.006845016	RP4-576H24.2	
6700	ENSG00000164181	44.18473845	1.27423558	0.420694691	0.006855989	ELOVL7	ELOVL fatty acid elongase 7 [Source:HGNC Symbol;Acc:26292]
6701	ENSG00000170734	383.5257867	0.489961342	0.161788623	0.006865508	POLH	polymerase (DNA directed), eta [Source:HGNC Symbol;Acc:9181]
6702	ENSG00000256060	97.07574392	0.90570717	0.299073654	0.006865508	TRAPPC2P1	trafficking protein particle complex 2 pseudogene 1 [Source:HGNC Symbol;Acc:10710]
6703	ENSG00000214189	517.7621073	-0.430745925	0.142248529	0.006870229	ZNF788	zinc finger family member 788 [Source:HGNC Symbol;Acc:33112]
6704	ENSG00000145833	2000.445252	-0.28316885	0.093520923	0.006875023	DDX46	DEAD (Asp-Glu-Ala-Asp) box polypeptide 46 [Source:HGNC Symbol;Acc:18681]
6705	ENSG00000260789	21.81843116	1.642428785	0.542525341	0.006885134	GPSM1	G-protein signaling modulator 1 [Source:HGNC Symbol;Acc:17858]
6706	ENSG00000108039	886.1878285	0.372329523	0.122995733	0.006888727	XPNPEP1	X-prolyl aminopeptidase (aminopeptidase P) 1, soluble [Source:HGNC Symbol;Acc:12822]
6707	ENSG00000229590	14.52343694	1.676656186	0.553959064	0.006898326	MSX2P1	msh homeobox 2 pseudogene 1 [Source:HGNC Symbol;Acc:24976]
6708	ENSG00000148655	106.3818156	-1.028951122	0.339962211	0.006898326	C10orf11	chromosome 10 open reading frame 11 [Source:HGNC Symbol;Acc:23405]
6709	ENSG00000131459	9.780896063	1.71204541	0.565682194	0.006899721	GFPT2	glutamine-fructose-6-phosphate transaminase 2 [Source:HGNC Symbol;Acc:4242]
6710	ENSG00000166140	655.9022257	-0.385545206	0.127389287	0.006899721	ZFYVE19	zinc finger, FYVE domain containing 19 [Source:HGNC Symbol;Acc:20758]
6711	ENSG00000169612	549.2259681	0.447692522	0.147926809	0.006900195	FAM103A1	family with sequence similarity 103, member A1 [Source:HGNC Symbol;Acc:31022]
6712	ENSG00000125450	1095.689914	-0.360830344	0.119230246	0.006901766	NUP85	nucleoporin 85kDa [Source:HGNC Symbol;Acc:8734]
6713	ENSG00000163516	2797.853679	0.214278283	0.070812596	0.00690853	ANKZF1	ankyrin repeat and zinc finger domain containing 1 [Source:HGNC Symbol;Acc:25527]
6714	ENSG00000220804	188.4705479	-0.687874874	0.227358058	0.006918419	AC093642.5	

6715	ENSG00000134779	916.4859066	-0.326847215	0.108036436	0.006921303	TPGS2	tubulin polyglutamylase complex subunit 2 [Source:HGNC Symbol;Acc:24561]
6716	ENSG00000205356	887.7883446	0.508482158	0.168083107	0.006923922	TECPR1	tectonin beta-propeller repeat containing 1 [Source:HGNC Symbol;Acc:22214]
6717	ENSG00000105221	2388.854006	0.27183635	0.089860211	0.006924734	AKT2	v-akt murine thymoma viral oncogene homolog 2 [Source:HGNC Symbol;Acc:392]
6718	ENSG00000132849	232.8153688	0.71391187	0.236039193	0.006936408	INADL	InaD-like (Drosophila) [Source:HGNC Symbol;Acc:28881]
6719	ENSG00000130332	376.8309453	0.512761446	0.169560233	0.00694642	LSM7	LSM7 homolog, U6 small nuclear RNA associated (S. cerevisiae) [Source:HGNC Symbol;Acc:20470]
6720	ENSG00000100354	2911.514033	-0.230722491	0.076297764	0.006947502	TNRC6B	trinucleotide repeat containing 6B [Source:HGNC Symbol;Acc:29190]
6721	ENSG00000099817	722.0392698	0.438118542	0.144893622	0.006952187	POLR2E	polymerase (RNA) II (DNA directed) polypeptide E, 25kDa [Source:HGNC Symbol;Acc:9192]
6722	ENSG00000178229	84.4868912	0.994962456	0.32905913	0.006952691	ZNF543	zinc finger protein 543 [Source:HGNC Symbol;Acc:25281]
6723	ENSG00000133393	518.1716265	-0.440624642	0.145747558	0.006962102	FOPNL	FGFR1OP N-terminal like [Source:HGNC Symbol;Acc:26435]
6724	ENSG00000085365	467.8341882	0.526200104	0.174073371	0.006968901	SCAMP1	secretory carrier membrane protein 1 [Source:HGNC Symbol;Acc:10563]
6725	ENSG00000126858	1347.788246	-0.313254913	0.103659718	0.00698884	RHOT1	ras homolog family member T1 [Source:HGNC Symbol;Acc:21168]
6726	ENSG00000179933	1228.32908	-0.371449262	0.122943226	0.007002748	C14orf119	chromosome 14 open reading frame 119 [Source:HGNC Symbol;Acc:20270]
6727	ENSG00000135211	368.6911042	-0.496829474	0.164486804	0.00702081	TMEM60	transmembrane protein 60 [Source:HGNC Symbol;Acc:21754]
6728	ENSG00000183655	22.43262929	1.565177171	0.518239682	0.007026774	KLHL25	kelch-like family member 25 [Source:HGNC Symbol;Acc:25732]
6729	ENSG00000078070	445.5954112	-0.485119178	0.160628914	0.00702704	MCCC1	methylcrotonoyl-CoA carboxylase 1 (alpha) [Source:HGNC Symbol;Acc:6936]
6730	ENSG00000162819	1745.497046	0.26251594	0.086928445	0.00703064	BROX	BRO1 domain and CAAX motif containing [Source:HGNC Symbol;Acc:26512]
6731	ENSG00000104894	8011.068047	-0.185296927	0.061359067	0.00703064	CD37	CD37 molecule [Source:HGNC Symbol;Acc:1666]
6732	ENSG00000143257	29.12796445	-1.437835286	0.476150008	0.00703349	NR1I3	nuclear receptor subfamily 1, group I, member 3 [Source:HGNC Symbol;Acc:7969]
6733	ENSG00000163191	20074.70766	-0.1284301	0.042542964	0.007052852	S100A11	S100 calcium binding protein A11 [Source:HGNC Symbol;Acc:10488]
6734	ENSG00000153790	88.79371057	0.950036339	0.31477405	0.00706764	C7orf31	chromosome 7 open reading frame 31 [Source:HGNC Symbol;Acc:21722]
6735	ENSG00000135047	57.87708557	-1.149051171	0.380719242	0.007067685	CTSL	cathepsin L [Source:HGNC Symbol;Acc:2537]
6736	ENSG00000251546	189.7127732	-0.728550446	0.241550612	0.007112628	IGKV1D-39	immunoglobulin kappa variable 1D-39 [Source:HGNC Symbol;Acc:5756]
6737	ENSG00000156414	111.8273371	-1.023608637	0.339424585	0.007121488	TDRD9	tudor domain containing 9 [Source:HGNC Symbol;Acc:20122]
6738	ENSG00000197713	432.5509871	-0.452390115	0.150058628	0.007143045	RPE	ribose-5-phosphate-3-epimerase [Source:HGNC Symbol;Acc:10293]
6739	ENSG00000272708	274.1550307	-0.648079521	0.214972833	0.007143197	CEACAM4	carcinoembryonic antigen-related cell adhesion molecule 4 [Source:HGNC Symbol;Acc:1816]
6740	ENSG00000186184	1124.546936	0.320238108	0.106266591	0.007169715	POLR1D	polymerase (RNA) I polypeptide D, 16kDa [Source:HGNC Symbol;Acc:20422]
6741	ENSG00000260080	18.77895684	1.601601092	0.531488246	0.007171204	TRBV7-3	T cell receptor beta variable 7-3 [Source:HGNC Symbol;Acc:12237]
6742	ENSG00000239557	38.42498142	-1.318526561	0.437744836	0.007201815	RP11-168J18.6	

6743	ENSG00000147872	452.8324931	0.477083274	0.158396992	0.007204135	PLIN2	perilipin 2 [Source:HGNC Symbol;Acc:248]
6744	ENSG00000090612	244.9694219	0.647217858	0.214904647	0.007210076	ZNF268	zinc finger protein 268 [Source:HGNC Symbol;Acc:13061]
6745	ENSG00000183134	34.18198281	1.346745135	0.447311419	0.007230317	PTGDR2	prostaglandin D2 receptor 2 [Source:HGNC Symbol;Acc:4502]
6746	ENSG00000115808	1648.426053	-0.293027968	0.097338028	0.007237319	STRN	striatin, calmodulin binding protein [Source:HGNC Symbol;Acc:11424]
6747	ENSG00000184743	885.8955177	0.334867909	0.111244621	0.007241537	ATL3	atlastin GTPase 3 [Source:HGNC Symbol;Acc:24526]
6748	ENSG00000139946	1959.131462	-0.269543045	0.089549773	0.007245566	PELI2	pellino E3 ubiquitin protein ligase family member 2 [Source:HGNC Symbol;Acc:8828]
6749	ENSG00000262509	92.82204958	1.679612276	0.558193342	0.007267542	BLNK	B-cell linker [Source:HGNC Symbol;Acc:14211]
6750	ENSG00000186281	18.10129709	1.606779342	0.534120555	0.007284287	GPAT2	glycerol-3-phosphate acyltransferase 2, mitochondrial [Source:HGNC Symbol;Acc:27168]
6751	ENSG00000104884	170.9500612	0.707574266	0.235216408	0.007285288	ERCC2	excision repair cross-complementing rodent repair deficiency, complementation group 2 [Source:HGNC Symbol;Acc:3434]
6752	ENSG00000111912	879.877807	-0.451154479	0.15005364	0.007321758	NCOA7	nuclear receptor coactivator 7 [Source:HGNC Symbol;Acc:21081]
6753	ENSG00000136842	45.1094416	-1.219155148	0.40551823	0.0073257	TMOD1	tropomodulin 1 [Source:HGNC Symbol;Acc:11871]
6754	ENSG00000108604	2149.385788	0.232168516	0.077251249	0.007349797	SMARCD2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 2 [Source:HGNC Symbol;Acc:11107]
6755	ENSG00000136271	1247.794129	0.299567802	0.099684248	0.007353595	DDX56	DEAD (Asp-Glu-Ala-Asp) box helicase 56 [Source:HGNC Symbol;Acc:18193]
6756	ENSG00000138134	348.22825	-0.52608174	0.175066509	0.007355592	STAMBPL1	STAM binding protein-like 1 [Source:HGNC Symbol;Acc:24105]
6757	ENSG00000166912	2144.380316	-0.23620994	0.078607657	0.007357321	MTMR10	myotubularin related protein 10 [Source:HGNC Symbol;Acc:25999]
6758	ENSG00000248835	118.9529954	-0.852113867	0.283615423	0.007367204	AL357673.1	CDNA: FLJ21031 fis, clone CAE07336; HCG1780521; Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:Q9H7D2]
6759	ENSG00000196138	153.496673	-0.737708978	0.24560503	0.007386235	AC005831.1	
6760	ENSG00000106615	659.6287007	-0.402134912	0.133893458	0.007391085	RHEB	Ras homolog enriched in brain [Source:HGNC Symbol;Acc:10011]
6761	ENSG00000204256	837.0393047	-0.3894784	0.129698193	0.007400573	BRD2	bromodomain containing 2 [Source:HGNC Symbol;Acc:1103]
6762	ENSG00000148429	357.2002604	0.495015	0.164845837	0.007401005	USP6NL	USP6 N-terminal like [Source:HGNC Symbol;Acc:16858]
6763	ENSG00000132842	1067.269777	-0.350050349	0.116575409	0.007402737	AP3B1	adaptor-related protein complex 3, beta 1 subunit [Source:HGNC Symbol;Acc:566]
6764	ENSG00000102893	1571.251593	-0.308757462	0.102845068	0.007416717	PHKB	phosphorylase kinase, beta [Source:HGNC Symbol;Acc:8927]
6765	ENSG00000182704	112.292172	-0.832388093	0.277414757	0.007455736	TSKU	tsukushi, small leucine rich proteoglycan [Source:HGNC Symbol;Acc:28850]
6766	ENSG00000162298	1789.115015	-0.269615741	0.089866566	0.007462959	SYVN1	synovial apoptosis inhibitor 1, synoviolin [Source:HGNC Symbol;Acc:20738]
6767	ENSG00000165521	120.5818558	0.82970712	0.276658688	0.007490094	EML5	echinoderm microtubule associated protein like 5 [Source:HGNC Symbol;Acc:18197]
6768	ENSG00000165506	99.6261187	0.881706788	0.294042687	0.007500317	DNAAF2	dynein, axonemal, assembly factor 2 [Source:HGNC Symbol;Acc:20188]
6769	ENSG00000143418	2905.378969	0.212383382	0.070842565	0.007514097	CERS2	ceramide synthase 2 [Source:HGNC Symbol;Acc:14076]
6770	ENSG00000133895	711.2942477	0.379554269	0.126609001	0.007515873	MEN1	multiple endocrine neoplasia I [Source:HGNC Symbol;Acc:7010]



6771	ENSG00000185009	1307.709124	-0.309831163	0.103358564	0.007519984	AP3M1	adaptor-related protein complex 3, mu 1 subunit [Source:HGNC Symbol;Acc:569]
6772	ENSG00000181019	40.79047458	1.267897335	0.422993581	0.007523697	NQO1	NAD(P)H dehydrogenase, quinone 1 [Source:HGNC Symbol;Acc:2874]
6773	ENSG00000269620	35.78012724	1.356678487	0.452629225	0.007525306	AL590560.1	HCG1995379; Uncharacterized protein [Source:UniProtKB/TrEMBL;Acc:M0R2Y0]
6774	ENSG00000180376	686.2590177	-0.394974854	0.131808913	0.007542898	CCDC66	coiled-coil domain containing 66 [Source:HGNC Symbol;Acc:27709]
6775	ENSG00000185087	94.1746293	-0.916450864	0.305842546	0.00754407	FAM169B	family with sequence similarity 169, member B [Source:HGNC Symbol;Acc:26835]
6776	ENSG00000204490	42.87742892	-1.242216816	0.414750913	0.007570665	TNF	tumor necrosis factor [Source:HGNC Symbol;Acc:11892]
6777	ENSG00000206439	42.87742892	-1.242216816	0.414750913	0.007570665	TNF	tumor necrosis factor [Source:HGNC Symbol;Acc:11892]
6778	ENSG00000223952	42.87742892	-1.242216816	0.414750913	0.007570665	TNF	tumor necrosis factor [Source:HGNC Symbol;Acc:11892]
6779	ENSG00000228849	42.87742892	-1.242216816	0.414750913	0.007570665	TNF	tumor necrosis factor [Source:HGNC Symbol;Acc:11892]
6780	ENSG00000230108	42.87742892	-1.242216816	0.414750913	0.007570665	TNF	tumor necrosis factor [Source:HGNC Symbol;Acc:11892]
6781	ENSG00000232810	42.87742892	-1.242216816	0.414750913	0.007570665	TNF	tumor necrosis factor [Source:HGNC Symbol;Acc:11892]
6782	ENSG00000228321	42.87742892	-1.242216816	0.414750913	0.007570665	TNF	tumor necrosis factor [Source:HGNC Symbol;Acc:11892]
6783	ENSG00000181215	52.77872737	1.203985479	0.40203879	0.007579269	C4orf50	chromosome 4 open reading frame 50 [Source:HGNC Symbol;Acc:33766]
6784	ENSG00000188039	39.49280721	-1.25558202	0.41930795	0.007585229	NWD1	NACHT and WD repeat domain containing 1 [Source:HGNC Symbol;Acc:27619]
6785	ENSG00000211789	36.54059633	1.363507274	0.455437998	0.007598485	TRAV12-2	T cell receptor alpha variable 12-2 [Source:HGNC Symbol;Acc:12106]
6786	ENSG00000182405	145.5933188	-0.76187159	0.254583817	0.007627833	PGBD4	piggyBac transposable element derived 4 [Source:HGNC Symbol;Acc:19401]
6787	ENSG00000016864	711.4120529	0.39477751	0.131920616	0.007628409	GLT8D1	glycosyltransferase 8 domain containing 1 [Source:HGNC Symbol;Acc:24870]
6788	ENSG00000100522	209.3767073	0.663449535	0.221704979	0.007628409	GNPNAT1	glucosamine-phosphate N-acetyltransferase 1 [Source:HGNC Symbol;Acc:19980]
6789	ENSG00000267554	125.2539439	0.818665525	0.273576284	0.007628409	RP11-686D22.10	
6790	ENSG00000099992	600.2888042	0.425279336	0.142270059	0.007708086	TBC1D10A	TBC1 domain family, member 10A [Source:HGNC Symbol;Acc:23609]
6791	ENSG00000186395	169.3103981	0.734050938	0.245616919	0.007723086	KRT10	keratin 10 [Source:HGNC Symbol;Acc:6413]
6792	ENSG00000129646	221.4792028	-0.645037609	0.215846363	0.007726753	QRICH2	glutamine rich 2 [Source:HGNC Symbol;Acc:25326]
6793	ENSG00000112425	97.19196444	0.919237292	0.307615659	0.007729288	EPM2A	epilepsy, progressive myoclonus type 2A, Lafora disease (laforin) [Source:HGNC Symbol;Acc:3413]
6794	ENSG00000198892	23.70468451	1.515079154	0.507053243	0.007734666	SHISA4	shisa family member 4 [Source:HGNC Symbol;Acc:27139]
6795	ENSG00000254986	443.3092522	-0.459643293	0.153835315	0.007736466	DPP3	dipeptidyl-peptidase 3 [Source:HGNC Symbol;Acc:3008]
6796	ENSG00000130489	395.4462495	0.540649541	0.180990887	0.007753759	SCO2	SCO2 cytochrome c oxidase assembly protein [Source:HGNC Symbol;Acc:10604]
6797	ENSG00000159885	85.65485601	0.959230119	0.321152803	0.007761002	ZNF222	zinc finger protein 222 [Source:HGNC Symbol;Acc:13015]
6798	ENSG00000265551	940.1901013	-0.330702135	0.110729367	0.007766305	FAM21C	family with sequence similarity 21, member C [Source:HGNC Symbol;Acc:23414]

6799	ENSG00000231345	106.1322313	-0.860003156	0.288063536	0.007793068	RP11-564C4.6	
6800	ENSG00000261499	225.6615867	-0.608265981	0.203744283	0.007793068	CH17-260O16.2	
6801	ENSG00000177106	45.27791034	1.26701224	0.424426257	0.007796612	EPS8L2	EPS8-like 2 [Source:HGNC Symbol;Acc:21296]
6802	ENSG00000101442	210.7009142	0.664654063	0.222651201	0.007796612	ACTR5	ARPS actin-related protein 5 homolog (yeast) [Source:HGNC Symbol;Acc:14671]
6803	ENSG00000170779	222.164401	-0.614390757	0.205814722	0.007796612	CDC44	cell division cycle associated 4 [Source:HGNC Symbol;Acc:14625]
6804	ENSG00000271723	34.23065963	-1.455897816	0.487839069	0.007815443	MROH7-TTC4	MROH7-TTC4 readthrough (NMD candidate) [Source:HGNC Symbol;Acc:49180]
6805	ENSG00000166398	279.1615528	0.589293261	0.197525144	0.007839819	KIAA0355	KIAA0355 [Source:HGNC Symbol;Acc:29016]
6806	ENSG00000108468	1415.591079	-0.269758596	0.090425797	0.007843268	CBX1	chromobox homolog 1 [Source:HGNC Symbol;Acc:1551]
6807	ENSG00000222976	904.0786041	-0.350552836	0.117536498	0.007860122	ZNF839	zinc finger protein 839 [Source:HGNC Symbol;Acc:20345]
6808	ENSG00000160999	29.35557635	1.418481179	0.475762167	0.007884932	SH2B2	SH2B adaptor protein 2 [Source:HGNC Symbol;Acc:17381]
6809	ENSG00000167487	63.60097353	1.068422295	0.358398628	0.007893867	KLHL26	kelch-like family member 26 [Source:HGNC Symbol;Acc:25623]
6810	ENSG00000269361	48.04458156	-1.253707862	0.420568415	0.0078957	DSTNP2	destrin (actin depolymerizing factor) pseudogene 2 [Source:HGNC Symbol;Acc:34546]
6811	ENSG00000107223	1609.075047	0.320865866	0.10764899	0.007902708	EDF1	endothelial differentiation-related factor 1 [Source:HGNC Symbol;Acc:3164]
6812	ENSG00000196510	1174.432268	-0.384696073	0.12909916	0.007922681	ANAPC7	anaphase promoting complex subunit 7 [Source:HGNC Symbol;Acc:17380]
6813	ENSG00000174485	867.8448045	-0.391518148	0.131399183	0.007927748	DENND4A	DENN/MADD domain containing 4A [Source:HGNC Symbol;Acc:24321]
6814	ENSG00000105298	322.1682232	0.599528345	0.201233587	0.007935461	CACTIN	cactin, spliceosome C complex subunit [Source:HGNC Symbol;Acc:29938]
6815	ENSG00000106066	835.3997094	0.338126198	0.113496689	0.007936717	CPVL	carboxypeptidase, vitellogenic-like [Source:HGNC Symbol;Acc:14399]
6816	ENSG00000205021	179.0718267	0.722504971	0.242664273	0.007981968	CCL3L1	chemokine (C-C motif) ligand 3-like 1 [Source:HGNC Symbol;Acc:10628]
6817	ENSG00000111269	761.1436349	0.36433995	0.122372936	0.007983222	CREBL2	cAMP responsive element binding protein-like 2 [Source:HGNC Symbol;Acc:2350]
6818	ENSG00000198720	27.49196155	1.42272102	0.478154978	0.008030426	ANKRD13B	ankyrin repeat domain 13B [Source:HGNC Symbol;Acc:26363]
6819	ENSG00000101343	879.3618698	0.370874445	0.124655743	0.008035787	CRNKL1	crooked neck pre-mRNA splicing factor 1 [Source:HGNC Symbol;Acc:15762]
6820	ENSG00000106443	394.1630483	0.600913745	0.202075779	0.008073577	PHF14	PHD finger protein 14 [Source:HGNC Symbol;Acc:22203]
6821	ENSG00000213121	389.9628361	-0.500840471	0.168461496	0.008090262	AL590867.1	Uncharacterized protein; cDNA FLJ59044, highly similar to LINE-1 reverse transcriptase homolog [Source:UniProtKB/TrEMBL;Acc:B7Z5F2]
6822	ENSG00000273136	517.2615236	0.518457265	0.174433134	0.008109335	AC253572.1	Neuroblastoma breakpoint family member 1 [Source:UniProtKB/TrEMBL;Acc:S4R3H5]
6823	ENSG00000131480	657.4393579	0.392396845	0.13202261	0.008109335	AOC2	amine oxidase, copper containing 2 (retina-specific) [Source:HGNC Symbol;Acc:549]
6824	ENSG00000242265	17.81014958	1.603136976	0.539383107	0.008109335	PEG10	paternally expressed 10 [Source:HGNC Symbol;Acc:14005]
6825	ENSG00000169683	165.9874971	-0.71266322	0.239782501	0.008109335	LRRC45	leucine rich repeat containing 45 [Source:HGNC Symbol;Acc:28302]
6826	ENSG00000124783	3041.896019	-0.217883495	0.073324015	0.008124204	SSR1	signal sequence receptor, alpha [Source:HGNC Symbol;Acc:11323]

6827	ENSG00000125968	22.91884074	-1.469067019	0.494404458	0.008126428	ID1	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein [Source:HGNC Symbol;Acc:5360]
6828	ENSG00000241859	33.34687559	-1.427968901	0.480660527	0.008139539	KALP	Kallmann syndrome sequence pseudogene [Source:HGNC Symbol;Acc:6214]
6829	ENSG00000107331	1444.615889	0.394808752	0.132899017	0.008141119	ABCA2	ATP-binding cassette, sub-family A (ABC1), member 2 [Source:HGNC Symbol;Acc:32]
6830	ENSG00000163281	284.5288425	0.607890835	0.20464254	0.008146333	GNPDA2	glucosamine-6-phosphate deaminase 2 [Source:HGNC Symbol;Acc:21526]
6831	ENSG00000103111	1941.961404	-0.258872044	0.087154216	0.008151114	MON1B	MON1 secretory trafficking family member B [Source:HGNC Symbol;Acc:25020]
6832	ENSG00000099785	625.9151113	0.414706762	0.139625289	0.0081535	MARCH2	membrane-associated ring finger (C3HC4) 2, E3 ubiquitin protein ligase [Source:HGNC Symbol;Acc:28038]
6833	ENSG00000156876	267.3904685	-0.60187738	0.202776174	0.008204337	SASS6	spindle assembly 6 homolog (C. elegans) [Source:HGNC Symbol;Acc:25403]
6834	ENSG00000262924	278.99349	0.587038697	0.197813535	0.008217808	KIAA0355	KIAA0355 [Source:HGNC Symbol;Acc:29016]
6835	ENSG00000172661	939.9687624	-0.329153714	0.11094609	0.008239273	FAM21C	family with sequence similarity 21, member C [Source:HGNC Symbol;Acc:23414]
6836	ENSG00000106049	224.9038255	0.642279565	0.216560576	0.0082641	HIBADH	3-hydroxyisobutyrate dehydrogenase [Source:HGNC Symbol;Acc:4907]
6837	ENSG00000223833	24.03637528	1.464604053	0.494295305	0.008338567	NCR3	natural cytotoxicity triggering receptor 3 [Source:HGNC Symbol;Acc:19077]
6838	ENSG00000196663	1883.393088	0.253523371	0.085569021	0.00834332	TECPR2	tectonin beta-propeller repeat containing 2 [Source:HGNC Symbol;Acc:19957]
6839	ENSG00000184863	4089.485529	0.181804586	0.061367237	0.008348234	RBM33	RNA binding motif protein 33 [Source:HGNC Symbol;Acc:27223]
6840	ENSG00000237808	24.0355207	1.464369292	0.494299252	0.008348421	NCR3	natural cytotoxicity triggering receptor 3 [Source:HGNC Symbol;Acc:19077]
6841	ENSG00000093010	447.1926468	0.528401854	0.178383592	0.00835668	COMT	catechol-O-methyltransferase [Source:HGNC Symbol;Acc:2228]
6842	ENSG00000197816	295.9712133	0.558022105	0.188392747	0.00835957	CCDC180	coiled-coil domain containing 180 [Source:HGNC Symbol;Acc:29303]
6843	ENSG00000143486	30.56451609	1.433501543	0.483976507	0.008360818	EIF2D	eukaryotic translation initiation factor 2D [Source:HGNC Symbol;Acc:6583]
6844	ENSG00000151150	223.4850203	0.796300548	0.268870662	0.008367059	ANK3	ankyrin 3, node of Ranvier (ankyrin G) [Source:HGNC Symbol;Acc:494]
6845	ENSG00000253910	13.86390133	1.646219398	0.555942885	0.008379938	PCDHGB2	protocadherin gamma subfamily B, 2 [Source:HGNC Symbol;Acc:8709]
6846	ENSG00000130939	1785.833489	-0.245942334	0.083061538	0.008383207	UBE4B	ubiquitination factor E4B [Source:HGNC Symbol;Acc:12500]
6847	ENSG00000109919	597.0613112	-0.4315344	0.14578124	0.008404187	MTCH2	mitochondrial carrier 2 [Source:HGNC Symbol;Acc:17587]
6848	ENSG00000175550	877.5408099	0.409035512	0.138199413	0.008413105	DRAP1	DR1-associated protein 1 (negative cofactor 2 alpha) [Source:HGNC Symbol;Acc:3019]
6849	ENSG00000204217	506.1782894	0.428601731	0.144810911	0.008413105	BMPR2	bone morphogenetic protein receptor, type II (serine/threonine kinase) [Source:HGNC Symbol;Acc:1078]
6850	ENSG00000109066	364.5566043	-0.561616983	0.189781599	0.008424259	TMEM104	transmembrane protein 104 [Source:HGNC Symbol;Acc:25984]
6851	ENSG00000109854	872.7170026	-0.335334333	0.113336556	0.00843759	HTATIP2	HIV-1 Tat interactive protein 2, 30kDa [Source:HGNC Symbol;Acc:16637]
6852	ENSG00000160953	371.2893299	0.51376786	0.173675176	0.008451069	MUM1	melanoma associated antigen (mutated) 1 [Source:HGNC Symbol;Acc:29641]
6853	ENSG00000173991	103.9224658	-0.841724868	0.284549264	0.008452916	TCAP	titin-cap [Source:HGNC Symbol;Acc:11610]
6854	ENSG00000152042	676.1223448	-0.399334386	0.134999666	0.008453265	NBPF11	neuroblastoma breakpoint family, member 11 [Source:HGNC Symbol;Acc:31993]

6855	ENSG00000158473	233.5386664	0.61590937	0.208218442	0.008453265	CD1D	CD1d molecule [Source:HGNC Symbol;Acc:1637]
6856	ENSG00000248593	47.7958221	-1.242891125	0.420194825	0.008454877	DSTNP2	destrin (actin depolymerizing factor) pseudogene 2 [Source:HGNC Symbol;Acc:34546]
6857	ENSG00000176014	148.8442846	-0.707117247	0.23910943	0.00847003	TUBB6	tubulin, beta 6 class V [Source:HGNC Symbol;Acc:20776]
6858	ENSG00000089177	111.5514883	0.856003895	0.289489916	0.008478605	KIF16B	kinesin family member 16B [Source:HGNC Symbol;Acc:15869]
6859	ENSG00000136997	764.8022811	0.349491329	0.118211147	0.008489417	MYC	v-myc avian myelocytomatosis viral oncogene homolog [Source:HGNC Symbol;Acc:7553]
6860	ENSG00000127995	431.5291198	0.470971994	0.159391482	0.008534752	CASD1	CAS1 domain containing 1 [Source:HGNC Symbol;Acc:16014]
6861	ENSG00000138175	180.6076521	0.685424389	0.232013972	0.008549432	ARL3	ADP-ribosylation factor-like 3 [Source:HGNC Symbol;Acc:694]
6862	ENSG00000001497	600.6796949	0.410440428	0.138979617	0.008575808	LAS1L	LAS1-like ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:25726]
6863	ENSG00000118640	2046.506082	-0.261834118	0.088670545	0.008584416	VAMP8	vesicle-associated membrane protein 8 [Source:HGNC Symbol;Acc:12647]
6864	ENSG00000138411	162.5288916	-0.786144779	0.266284036	0.00860009	HECW2	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 2 [Source:HGNC Symbol;Acc:29853]
6865	ENSG00000113790	55.65058969	-1.162927484	0.393925446	0.008602398	EHHADH	enoyl-CoA, hydratase/3-hydroxyacyl CoA dehydrogenase [Source:HGNC Symbol;Acc:3247]
6866	ENSG00000130402	5496.32305	-0.198935789	0.067400247	0.008617663	ACTN4	actinin, alpha 4 [Source:HGNC Symbol;Acc:166]
6867	ENSG00000112137	209.6860236	-0.614715839	0.208296302	0.008627524	PHACTR1	phosphatase and actin regulator 1 [Source:HGNC Symbol;Acc:20990]
6868	ENSG00000154263	62.64696627	-1.221370538	0.414090207	0.008671984	ABCA10	ATP-binding cassette, sub-family A (ABC1), member 10 [Source:HGNC Symbol;Acc:30]
6869	ENSG00000164283	12.33676936	1.645144711	0.557869724	0.008686201	ESM1	endothelial cell-specific molecule 1 [Source:HGNC Symbol;Acc:3466]
6870	ENSG00000132294	1272.549728	0.292510845	0.099209571	0.008700769	EFR3A	EFR3 homolog A ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:28970]
6871	ENSG00000250722	51.51474488	-1.160388589	0.393631972	0.008713903	SEPP1	selenoprotein P, plasma, 1 [Source:HGNC Symbol;Acc:10751]
6872	ENSG00000109118	3741.027673	0.218310361	0.074068978	0.008727009	PHF12	PHD finger protein 12 [Source:HGNC Symbol;Acc:20816]
6873	ENSG00000090905	1563.24126	-0.260396155	0.088360531	0.008737572	TNRC6A	trinucleotide repeat containing 6A [Source:HGNC Symbol;Acc:11969]
6874	ENSG00000177485	329.675973	0.530352125	0.180045332	0.008773518	ZBTB33	zinc finger and BTB domain containing 33 [Source:HGNC Symbol;Acc:16682]
6875	ENSG00000236697	1882.46266	-0.247787553	0.084123799	0.008775452	GPSM3	G-protein signaling modulator 3 [Source:HGNC Symbol;Acc:13945]
6876	ENSG00000213654	1882.462627	-0.247786575	0.084123754	0.008775452	GPSM3	G-protein signaling modulator 3 [Source:HGNC Symbol;Acc:13945]
6877	ENSG00000211710	16.7260206	1.593530624	0.541043387	0.008778486	TRBV4-1	T cell receptor beta variable 4-1 [Source:HGNC Symbol;Acc:12215]
6878	ENSG00000234508	1882.292938	-0.247764274	0.084123497	0.008778486	GPSM3	G-protein signaling modulator 3 [Source:HGNC Symbol;Acc:13945]
6879	ENSG00000237052	1882.29291	-0.247763617	0.084123544	0.008778486	GPSM3	G-protein signaling modulator 3 [Source:HGNC Symbol;Acc:13945]
6880	ENSG00000206314	1882.292913	-0.247762453	0.084123758	0.008778486	GPSM3	G-protein signaling modulator 3 [Source:HGNC Symbol;Acc:13945]
6881	ENSG00000185974	27.61524999	-1.380489438	0.468805184	0.00879187	GRK1	G protein-coupled receptor kinase 1 [Source:HGNC Symbol;Acc:10013]
6882	ENSG00000077327	26.8585805	1.412691324	0.479750023	0.008792212	SPAG6	sperm associated antigen 6 [Source:HGNC Symbol;Acc:11215]

6883	ENSG00000234243	1882.594566	-0.247447083	0.084088259	0.008845808	GPSM3	G-protein signaling modulator 3 [Source:HGNC Symbol;Acc:13945]
6884	ENSG00000005469	180.3764696	0.856935118	0.291210117	0.008845808	CROT	carnitine O-octanoyltransferase [Source:HGNC Symbol;Acc:2366]
6885	ENSG00000171148	2071.977791	-0.237515896	0.080716703	0.008846887	TADA3	transcriptional adaptor 3 [Source:HGNC Symbol;Acc:19422]
6886	ENSG00000214402	16.21779108	1.604492407	0.545362293	0.008860461	LCNL1	lipocalin-like 1 [Source:HGNC Symbol;Acc:34436]
6887	ENSG00000160741	2635.712027	0.254446787	0.086503968	0.008876945	CRTC2	CREB regulated transcription coactivator 2 [Source:HGNC Symbol;Acc:27301]
6888	ENSG00000100473	241.6208376	-0.700812765	0.23834024	0.008906037	COCH	cochlin [Source:HGNC Symbol;Acc:2180]
6889	ENSG00000134287	4437.981658	0.176946563	0.060184561	0.008912954	ARF3	ADP-ribosylation factor 3 [Source:HGNC Symbol;Acc:654]
6890	ENSG00000101457	1461.871595	-0.272325619	0.092625951	0.008912954	DNTTIP1	deoxynucleotidyltransferase, terminal, interacting protein 1 [Source:HGNC Symbol;Acc:16160]
6891	ENSG00000123338	4317.012787	-0.176063674	0.059890319	0.008919975	NCKAP1L	NCK-associated protein 1-like [Source:HGNC Symbol;Acc:4862]
6892	ENSG00000125780	131.0215835	-0.792231258	0.269549238	0.008938038	TGM3	transglutaminase 3 [Source:HGNC Symbol;Acc:11779]
6893	ENSG00000160013	63.3306729	1.109498319	0.377512817	0.008940433	PTGIR	prostaglandin I2 (prostacyclin) receptor (IP) [Source:HGNC Symbol;Acc:9602]
6894	ENSG00000181038	448.4691311	0.472470802	0.160766979	0.00894242	METTL23	methyltransferase like 23 [Source:HGNC Symbol;Acc:26988]
6895	ENSG00000237515	424.782608	-0.462659984	0.157521835	0.008990669	SHISA9	shisa family member 9 [Source:HGNC Symbol;Acc:37231]
6896	ENSG00000107758	1415.526849	-0.264535532	0.090067018	0.008990669	PPP3CB	protein phosphatase 3, catalytic subunit, beta isozyme [Source:HGNC Symbol;Acc:9315]
6897	ENSG00000131408	867.9971609	0.427270564	0.14551027	0.009010735	NR1H2	nuclear receptor subfamily 1, group H, member 2 [Source:HGNC Symbol;Acc:7965]
6898	ENSG00000143379	1912.600457	-0.245884612	0.083745655	0.009017338	SETDB1	SET domain, bifurcated 1 [Source:HGNC Symbol;Acc:10761]
6899	ENSG00000148153	661.8879387	-0.387985826	0.132154756	0.009023108	INIP	INTS3 and NABP interacting protein [Source:HGNC Symbol;Acc:24994]
6900	ENSG00000151702	5025.652319	-0.185512847	0.063195959	0.009031317	FLI1	Fli-1 proto-oncogene, ETS transcription factor [Source:HGNC Symbol;Acc:3749]
6901	ENSG00000085382	336.6706127	-0.499603199	0.17022589	0.009046759	HACE1	HECT domain and ankyrin repeat containing E3 ubiquitin protein ligase 1 [Source:HGNC Symbol;Acc:21033]
6902	ENSG00000170540	2390.963005	-0.223492972	0.076169086	0.009068022	ARL6IP1	ADP-ribosylation factor-like 6 interacting protein 1 [Source:HGNC Symbol;Acc:697]
6903	ENSG00000261208	24.28254781	1.452714016	0.495133062	0.009072023	RP11-452D12.1	
6904	ENSG00000146281	588.2012053	0.384939329	0.131203728	0.009073096	PM20D2	peptidase M20 domain containing 2 [Source:HGNC Symbol;Acc:21408]
6905	ENSG00000135070	603.909724	0.414145286	0.141207338	0.009101567	ISCA1	iron-sulfur cluster assembly 1 [Source:HGNC Symbol;Acc:28660]
6906	ENSG00000121964	864.9539301	-0.380292893	0.129668634	0.009102662	GTDC1	glycosyltransferase-like domain containing 1 [Source:HGNC Symbol;Acc:20887]
6907	ENSG00000229353	26.27710835	-1.495293404	0.509892837	0.009108426	TNXB	tenascin XB [Source:HGNC Symbol;Acc:11976]
6908	ENSG00000233306	28.63021959	1.419227063	0.484082168	0.009129847	TRGV2	T cell receptor gamma variable 2 [Source:HGNC Symbol;Acc:12287]
6909	ENSG00000182446	2534.368609	-0.293811223	0.100292415	0.009194692	NPLOC4	nuclear protein localization 4 homolog (S. cerevisiae) [Source:HGNC Symbol;Acc:18261]
6910	ENSG00000177464	27.30591861	-1.433663192	0.489402929	0.009197298	GPR4	G protein-coupled receptor 4 [Source:HGNC Symbol;Acc:4497]

6911	ENSG00000109929	178.5298549	0.738845224	0.252241911	0.009204821	SC5D	sterol-C5-desaturase [Source:HGNC Symbol;Acc:10547]
6912	ENSG00000103152	142.8546515	0.824504103	0.281501379	0.009208269	MPG	N-methylpurine-DNA glycosylase [Source:HGNC Symbol;Acc:7211]
6913	ENSG00000165949	35.99206455	-1.280164377	0.437153294	0.009222992	IFI27	interferon, alpha-inducible protein 27 [Source:HGNC Symbol;Acc:5397]
6914	ENSG00000148985	386.6548936	-0.469480047	0.160358267	0.009242918	PGAP2	post-GPI attachment to proteins 2 [Source:HGNC Symbol;Acc:17893]
6915	ENSG00000112078	2175.952376	0.252981943	0.086412335	0.009243986	KCTD20	potassium channel tetramerization domain containing 20 [Source:HGNC Symbol;Acc:21052]
6916	ENSG00000168310	2346.271647	0.225924201	0.077172773	0.009245683	IRF2	interferon regulatory factor 2 [Source:HGNC Symbol;Acc:6117]
6917	ENSG00000009724	384.7145598	0.490337794	0.167535656	0.009266517	MASP2	mannan-binding lectin serine peptidase 2 [Source:HGNC Symbol;Acc:6902]
6918	ENSG00000146828	4067.676425	0.237167805	0.081061507	0.009294738	SLC12A9	solute carrier family 12, member 9 [Source:HGNC Symbol;Acc:17435]
6919	ENSG00000215699	1090.649537	0.296400623	0.101316751	0.009302091	SRSF10	cDNA FLJ30749 fis, clone FEBRA2000402, highly similar to FUS-interacting serine-arginine-rich protein 1; cDNA FLJ43846 fis, clone TEST14006393, highly similar to FUS-interacting serine-arginine-rich protein 1 [Source:UniProtKB/TrEMBL;Acc:B3KNY6]
6920	ENSG00000118454	266.5823943	0.596243923	0.203866352	0.009324823	ANKRD13C	ankyrin repeat domain 13C [Source:HGNC Symbol;Acc:25374]
6921	ENSG00000101255	237.3129885	-0.612264817	0.209349357	0.009325643	TRIB3	tribbles pseudokinase 3 [Source:HGNC Symbol;Acc:16228]
6922	ENSG00000271064	10.71549732	-1.641158627	0.561219794	0.009334406	RP11-792A8.3	
6923	ENSG00000198374	9.971203937	-1.657467934	0.566973772	0.009360431	HIST1H2AL	histone cluster 1, H2al [Source:HGNC Symbol;Acc:4730]
6924	ENSG00000203326	252.3241587	0.689676207	0.235974558	0.009379758	ZNF525	zinc finger protein 525 [Source:HGNC Symbol;Acc:29423]
6925	ENSG00000129292	3813.38341	-0.185335175	0.063429007	0.009400743	PHF20L1	PHD finger protein 20-like 1 [Source:HGNC Symbol;Acc:24280]
6926	ENSG00000163026	170.8781305	0.702555619	0.240516122	0.009426508	C2orf44	chromosome 2 open reading frame 44 [Source:HGNC Symbol;Acc:26157]
6927	ENSG00000261378	1598.388142	0.255927146	0.087622725	0.009432662	RAB5C	RAB5C, member RAS oncogene family [Source:HGNC Symbol;Acc:9785]
6928	ENSG00000065600	153.512082	0.879107784	0.301087704	0.009461977	TMEM206	transmembrane protein 206 [Source:HGNC Symbol;Acc:25593]
6929	ENSG00000110002	112.0770323	0.891874981	0.305487007	0.009468342	VWA5A	von Willebrand factor A domain containing 5A [Source:HGNC Symbol;Acc:6658]
6930	ENSG00000184047	550.0556528	0.409495167	0.140278523	0.009477934	DIABLO	diablo, IAP-binding mitochondrial protein [Source:HGNC Symbol;Acc:21528]
6931	ENSG00000260383	167.3108482	-0.761391043	0.260831289	0.009478512	MROH1	maestro heat-like repeat family member 1 [Source:HGNC Symbol;Acc:26958]
6932	ENSG00000178921	293.2071065	-0.535459603	0.183496603	0.009507713	PFAS	phosphoribosylformylglycinamide synthase [Source:HGNC Symbol;Acc:8863]
6933	ENSG00000196866	19.78302837	-1.54812888	0.530629976	0.009523428	HIST1H2AD	histone cluster 1, H2ad [Source:HGNC Symbol;Acc:4729]
6934	ENSG00000119231	862.3400019	-0.38811507	0.133033341	0.009525199	SENPS	SUMO1/sentrin specific peptidase 5 [Source:HGNC Symbol;Acc:28407]
6935	ENSG00000164050	112.6738904	-0.991349855	0.339868962	0.009541063	PLXNB1	plexin B1 [Source:HGNC Symbol;Acc:9103]
6936	ENSG00000182986	396.4965445	0.56165744	0.192558269	0.009541063	ZNF320	zinc finger protein 320 [Source:HGNC Symbol;Acc:13842]
6937	ENSG00000130559	409.0684214	0.615207521	0.210929259	0.009544728	CAMSAP1	calmodulin regulated spectrin-associated protein 1 [Source:HGNC Symbol;Acc:19946]
6938	ENSG00000258315	1197.29734	0.313318524	0.10744308	0.009559222	C17orf49	chromosome 17 open reading frame 49 [Source:HGNC Symbol;Acc:28737]

6939	ENSG00000123136	1774.412895	0.247303922	0.084831518	0.009585411	DDX39A	DEAD (Asp-Glu-Ala-Asp) box polypeptide 39A [Source:HGNC Symbol;Acc:17821]
6940	ENSG00000243927	932.3838958	0.337398891	0.115745089	0.00959077	MRPS6	mitochondrial ribosomal protein S6 [Source:HGNC Symbol;Acc:14051]
6941	ENSG00000177034	177.3829241	0.756374094	0.259484636	0.009592706	MTX3	metaxin 3 [Source:HGNC Symbol;Acc:24812]
6942	ENSG00000036549	498.6838294	0.446929364	0.153366328	0.009615301	ZZZ3	zinc finger, ZZ-type containing 3 [Source:HGNC Symbol;Acc:24523]
6943	ENSG00000104804	12.4798101	-1.65066191	0.566478806	0.009621028	TULP2	tubby like protein 2 [Source:HGNC Symbol;Acc:12424]
6944	ENSG00000180964	282.3204681	0.554065613	0.190219879	0.009654668	TCEAL8	transcription elongation factor A (SII)-like 8 [Source:HGNC Symbol;Acc:28683]
6945	ENSG00000137809	9.841150521	1.648868176	0.566096537	0.009655322	ITGA11	integrin, alpha 11 [Source:HGNC Symbol;Acc:6136]
6946	ENSG00000246922	236.0264355	0.601522566	0.206542634	0.009664972	UBAP1L	ubiquitin associated protein 1-like [Source:HGNC Symbol;Acc:40028]
6947	ENSG00000100767	344.2941302	0.49512777	0.170023212	0.00967046	PAPLN	papilin, proteoglycan-like sulfated glycoprotein [Source:HGNC Symbol;Acc:19262]
6948	ENSG00000103064	2674.979015	0.235222752	0.080792896	0.009690449	SLC7A6	solute carrier family 7 (amino acid transporter light chain, y+L system), member 6 [Source:HGNC Symbol;Acc:11064]
6949	ENSG00000183889	953.6612697	0.332738135	0.114308819	0.009706388	NPIPA7	Protein PKD1P1 [Source:UniProtKB/TrEMBL;Acc:HOYEP2]
6950	ENSG00000156140	6.734559216	-1.583555758	0.544027409	0.009707128	ADAMTS3	ADAM metalloproteinase with thrombospondin type 1 motif, 3 [Source:HGNC Symbol;Acc:219]
6951	ENSG00000131943	296.9194622	0.540173792	0.185594851	0.009715102	C19orf12	chromosome 19 open reading frame 12 [Source:HGNC Symbol;Acc:25443]
6952	ENSG00000186166	475.370944	0.423182261	0.145434794	0.009736318	CCDC84	coiled-coil domain containing 84 [Source:HGNC Symbol;Acc:30460]
6953	ENSG00000269603	329.5221447	0.524983836	0.18044721	0.00974815	ZBTB33	zinc finger and BTB domain containing 33 [Source:HGNC Symbol;Acc:16682]
6954	ENSG00000122432	99.08073657	-0.879515142	0.30241711	0.009778221	SPATA1	spermatogenesis associated 1 [Source:HGNC Symbol;Acc:14682]
6955	ENSG00000211891	10.30335963	-1.644390232	0.565418333	0.009778221	IGHF	immunoglobulin heavy constant epsilon [Source:HGNC Symbol;Acc:5522]
6956	ENSG00000270340	10.30332544	-1.64437815	0.565418291	0.009778221	IGHF	immunoglobulin heavy constant epsilon [Source:HGNC Symbol;Acc:5522]
6957	ENSG00000198677	1183.889288	0.297066105	0.102147809	0.009778449	TTC37	tetratricopeptide repeat domain 37 [Source:HGNC Symbol;Acc:23639]
6958	ENSG00000132570	295.4329138	-0.560169091	0.192635241	0.009785556	PCBD2	pterin-4 alpha-carbinolamine dehydratase/dimerization cofactor of hepatocyte nuclear factor 1 alpha (TCF1) 2 [Source:HGNC Symbol;Acc:24474]
6959	ENSG00000188130	98.47472099	0.915727897	0.314939414	0.009793365	MAPK12	mitogen-activated protein kinase 12 [Source:HGNC Symbol;Acc:6874]
6960	ENSG00000158769	4171.393726	0.18656132	0.064169524	0.009801738	F11R	F11 receptor [Source:HGNC Symbol;Acc:14685]
6961	ENSG00000144152	25.22588695	1.467912691	0.504910303	0.009801756	FBLN7	fibulin 7 [Source:HGNC Symbol;Acc:26740]
6962	ENSG0000053371	260.4599876	0.58020198	0.199575664	0.009803362	AKR7A2	aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase) [Source:HGNC Symbol;Acc:389]
6963	ENSG00000136682	751.705681	0.362427179	0.124702336	0.009828299	CBWD2	COBW domain containing 2 [Source:HGNC Symbol;Acc:17907]
6964	ENSG00000224183	36.35109845	1.351660776	0.465119738	0.009835977	SDHDP6	succinate dehydrogenase complex, subunit D, integral membrane protein pseudogene 6 [Source:HGNC Symbol;Acc:10689]
6965	ENSG00000174446	299.161006	0.525383009	0.180816942	0.009848461	SNAPC5	small nuclear RNA activating complex, polypeptide 5, 19kDa [Source:HGNC Symbol;Acc:15484]
6966	ENSG00000130635	73.24435724	1.088946528	0.374803533	0.009854213	COL5A1	collagen, type V, alpha 1 [Source:HGNC Symbol;Acc:2209]

6967	ENSG00000122515	2161.19281	-0.275650041	0.094894163	0.009870569	ZMIZ2	zinc finger, MIZ-type containing 2 [Source:HGNC Symbol;Acc:22229]
6968	ENSG00000138658	417.9399326	-0.503106908	0.173245849	0.009894722	C4orf21	chromosome 4 open reading frame 21 [Source:HGNC Symbol;Acc:25654]
6969	ENSG00000163946	2400.677062	0.252040699	0.086794462	0.009897272	FAM208A	family with sequence similarity 208, member A [Source:HGNC Symbol;Acc:30314]
6970	ENSG00000169857	89.33186002	0.897155736	0.308965478	0.009900244	AVEN	apoptosis, caspase activation inhibitor [Source:HGNC Symbol;Acc:13509]
6971	ENSG00000169252	499.8658351	0.495502566	0.170664044	0.009910245	ADRB2	adrenoceptor beta 2, surface [Source:HGNC Symbol;Acc:286]
6972	ENSG00000174197	1061.669315	0.368080037	0.126786039	0.009915816	MGA	MGA, MAX dimerization protein [Source:HGNC Symbol;Acc:14010]
6973	ENSG00000134982	1557.176457	0.26426345	0.091034784	0.009923094	APC	adenomatous polyposis coli [Source:HGNC Symbol;Acc:583]
6974	ENSG00000138777	576.8267302	-0.387964244	0.133702187	0.009959111	PPA2	pyrophosphatase (inorganic) 2 [Source:HGNC Symbol;Acc:28883]
6975	ENSG00000237911	9.561812607	-1.643297127	0.566333247	0.009959627	SRP68P3	signal recognition particle 68kDa pseudogene 3 [Source:HGNC Symbol;Acc:30428]
6976	ENSG00000143575	1052.999373	0.306594573	0.105667455	0.009962622	HAX1	HCLS1 associated protein X-1 [Source:HGNC Symbol;Acc:16915]
6977	ENSG00000169992	40.4672977	1.27851975	0.44069416	0.009972471	NLGN2	neuroligin 2 [Source:HGNC Symbol;Acc:14290]
6978	ENSG00000185875	71.89824762	1.011444216	0.348709691	0.009990663	THNSL1	threonine synthase-like 1 ( <i>S. cerevisiae</i> ) [Source:HGNC Symbol;Acc:26160]
6979	ENSG00000087842	13.29902438	-1.613215742	0.556187639	0.009990679	PIR	pirin (iron-binding nuclear protein) [Source:HGNC Symbol;Acc:30048]



**Table S3.** Differentially expressed genes in blast transformation specimen versus pre-ruxolitinib specimen previously associated with BCR-like signaling.<sup>10</sup> Data were derived from Table S2 with fold-change manually calculated.

gene	baseMean	estimate	fold-change	stderror	p.adjusted	symbol	description
ENSG00000007312	1027.354333	2.789976949	6.916187	0.123691933	9.25E-111	CD79B	CD79b molecule, immunoglobulin-associated beta [Source:HGNC Symbol;Acc:1699]
ENSG00000105369	696.8990772	3.208238818	9.242216	0.148923125	4.17E-101	CD79A	CD79a molecule, immunoglobulin-associated alpha [Source:HGNC Symbol;Acc:1698]
ENSG00000166349	454.4772237	3.462584801	11.024068	0.189404804	5.04E-73	RAG1	recombination activating gene 1 [Source:HGNC Symbol;Acc:9831]
ENSG00000169575	240.5855028	3.359491044	10.263786	0.239654533	2.85E-43	VPREB1	pre-B lymphocyte 1 [Source:HGNC Symbol;Acc:12709]
ENSG00000115085	2167.523195	2.873710651	7.329479	0.218126541	2.56E-38	ZAP70	zeta-chain (TCR) associated protein kinase 70kDa [Source:HGNC Symbol;Acc:12858]
ENSG00000128322	256.3355421	2.11959618	4.345723	0.216343878	1.41E-21	IGLL1	immunoglobulin lambda-like polypeptide 1 [Source:HGNC Symbol;Acc:5870]
ENSG00000175097	78.80209995	2.636772356	6.219387	0.34965443	3.77E-13	RAG2	recombination activating gene 2 [Source:HGNC Symbol;Acc:9832]
ENSG00000095585	256.3475556	2.050878922	4.143583	0.538658814	0.000485736	BLNK	B-cell linker [Source:HGNC Symbol;Acc:14211]

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